Strom und CO2: Deutschland im Treibsand der Illusionen

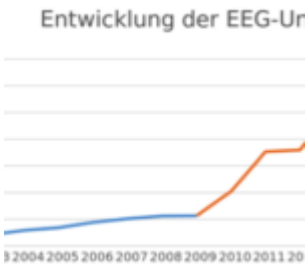


Bild rechts Windkraftanlagen sind potenzielle Brandherde mitten in unseren Wäldern

Deutschland will den „Klimawandel“ bekämpfen und deshalb seine CO2-Emissionen stark senken. Das betrifft auch die Stromerzeugung. Entscheidendes Instrument hierfür ist das im Jahr 2000 eingeführte und mittlerweile von Kanzlerin Merkel ideenreich weiterentwickelte Erneuerbare-Energien-Gesetz (EEG). Dieses soll den Durchbruch zur Umstellung der landesweiten Stromerzeugung auf vorgeblich CO2-freie erneuerbare Energien bringen. Mit Hilfe einer zwanzigjährigen Abnahmegarantie werden privaten Geldgebern Anreize geboten, ihr Kapital in normalerweise unrentable

Technologien zu investieren, die Strom aus Wind oder Fotovoltaik oder durch das Verbrennen von Lebensmitteln („Biomasse“) erzeugen. Die entsprechenden Kosten wachsen immer schneller, Bild 1. Je nach Wohnlage bekommt man für den Preis von drei Kilowattstunden Strom inzwischen schon fast eine Kugel Eis.

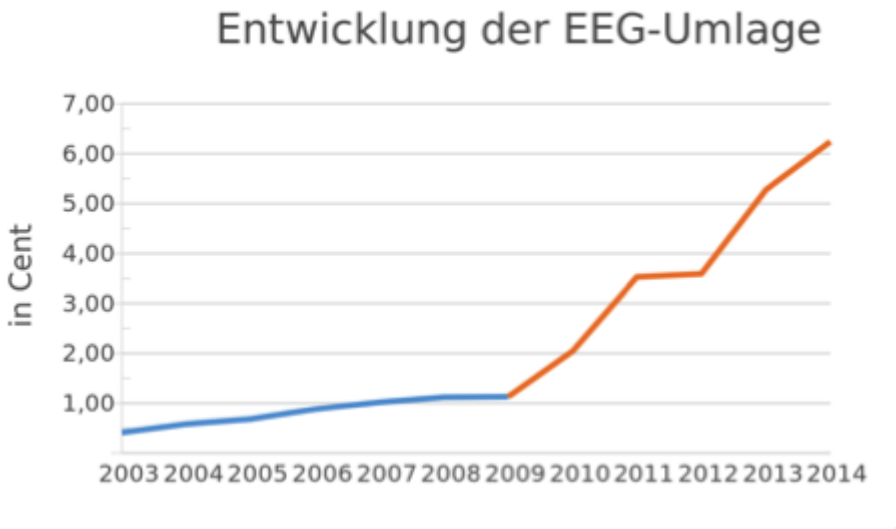


Bild 1. ***Die EEG-Umlage kennt im Prinzip nur eine Richtung: Immer steiler nach oben (Grafik: Chstdu, [COMM])***

Trotz geschönter Statistiken…

Doch was hat das angeblich zu rettende Klima jetzt davon? Fragt man nach dem Erfolg, so sehen die präsentierten Zahlen rein äußerlich betrachtet zunächst beeindruckend aus, Bild 2.

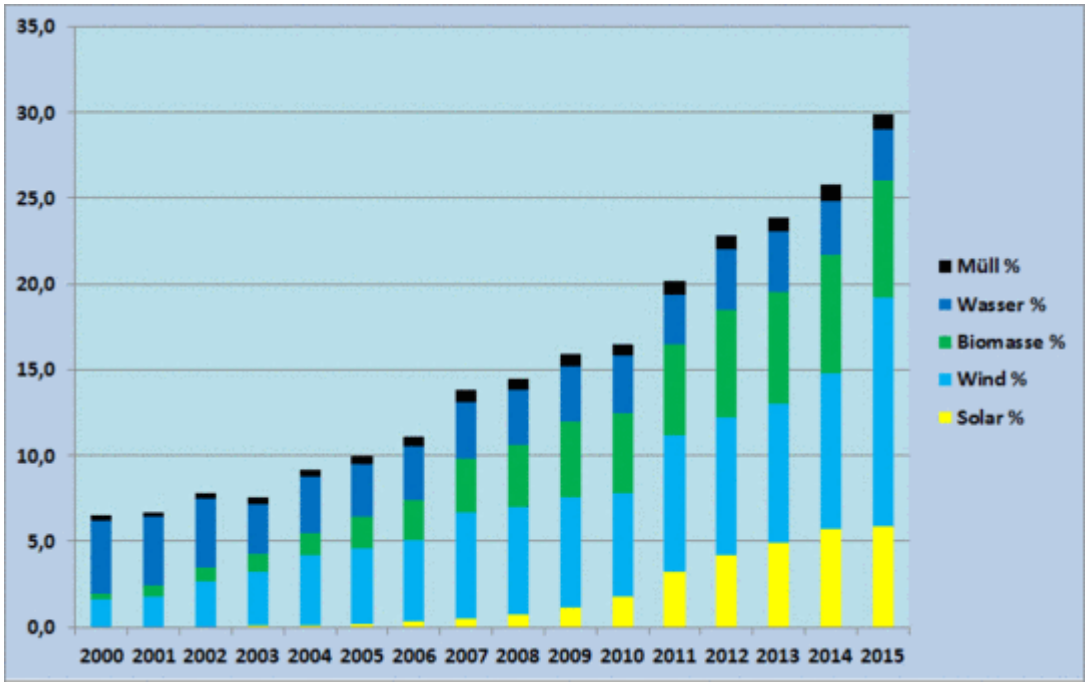


Bild 2. ***Im Jahre 2015 erreichte der Anteil der „erneuerbaren“ Energien an der Stromproduktion angeblich bereits 30 % (Grafik: Autor, Daten [AGEB])***

Bei näherer Betrachtung erweist sich

diese Statistik allerdings als massiv geschönt. Geschummelt wird vor allem bei drei Faktoren: Der Biomasse, dem Wasser und dem Müll. Zur Biomasse ist zu sagen, dass es sich hier nicht nur um eine Schummelei, sondern sogar um ein Verbrechen handelt, denn hier werden im großen Stil Lebensmittel wie Mais oder Weizen verheizt. In einer Welt, in der Millionen hungern, ist dies nichts weiter als ein Verbrechen gegen die Menschlichkeit. Zudem wird verschwiegen, dass in unserer modernen Landwirtschaft die Produktion von Lebensmitteln einen so hohen Einsatz von Primärenergie u.a. in Form von Erdöl bedingt [ROZS], dass es vermutlich sogar sinnvoller wäre, die entsprechenden fossilen Rohstoffe direkt in Kraftwerken zu verwenden. Strom aus Biomasse ist weder ökologisch noch CO2-neutral.

Ähnlich gelogen wird auch im Bereich der Müllverbrennung, wobei in der

Statistik angeblich nur deren „biogener“ Anteil aufgeführt wird. Unterschlagen wird dabei jedoch der Aufwand, der in die Gewinnung und Verarbeitung dieses Materials vom Holzschlag und dem Transport bis zur Möbelfabrik gesteckt wird. Das gilt auch für die energetischen Aufwendungen für Sortierung und Separierung des Mülls, die Abluftbehandlung und die sogenannte „Stützbefeuerung“ mit Erdöl oder Erdgas, wenn der Energieinhalt des Abfalls mal wieder nicht ausreicht, um ausreichend Druck im Kraftwerkskessel zu erzeugen.

Selbst im Bereich der Wasserkraft wird immer mehr geschoben und gelogen. Da die seit langem existierenden Wasserkraftwerke nicht unter die EEG-Förderung fielen, wurden zunächst meist Klein- und Kleinstwasserkraftwerke gefördert. Diese sind den Fischern ein ständiger

Stachel im Fleische, weil sie ihre Fische gerne am Stück und nicht als unbrauchbares Shreddergut aus dem Wasser holen würden. Da Deutschland so gut wie keine geeigneten weiteren Standorte hat, ist die Stromproduktion aus Wasserkraft im Prinzip seit Jahrzehnten stabil und wird sich auch in Zukunft nicht weiter steigern lassen. Die einzigen „erneuerbaren“ Stromerzeugungsverfahren, die in einigen Jahren noch verfügbar sein werden, sind Wasser-, Wind- und Solarenergie. Biomasse und Müll dürften in wenigen Jahren vom Markt verschwinden.

Interessant ist beim Blick auf Bild 2 zudem, dass die Bundesregierung es trotz erheblicher Widerstände geschafft hat, dem krebsartigen Wuchern der extrem unwirtschaftlichen Solarenergie einen Riegel vorzuschieben. Doch ist dies angesichts des ebenso krebsartigen

Wucherns bei der Windenergie nur ein schwacher Trost.

Nur geringer Rückgang der konventionellen Stromerzeugung…

Dennoch bleibt festzuhalten, dass selbst bei einer Bereinigung der Statistik um die Schummelanteile bei

Biomasse und Müll immerhin noch eine merkliche Steigerung insbesondere beim Wind (von 9,1 auf 13,3 %) festzustellen ist. Auch der Anteil der Fotovoltaik stieg moderat (von 5,7 auf 5,9 %), während

Wasserkraft nur leicht (von 3,1 auf 3,0 %) zurückging. Zusammen kamen diese drei Energieerzeugungsarten auf immerhin 22,2 % der Stromerzeugung des Jahres 2015.

Dennoch hatte dies auf die

Stromproduktion der konventionellen Kraftwerke (zu denen aus den genannten Gründen auch Müll und Biomasse gezählt werden müssen) keinen nennenswerten Einfluss, Bild 3.

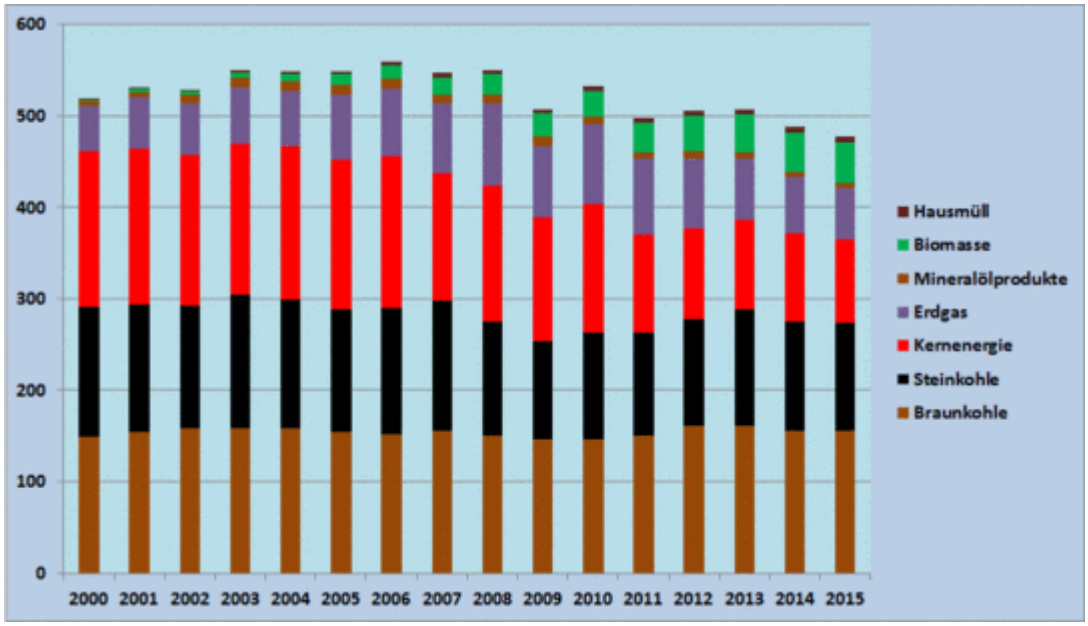


**Bild 3. *Anteile konventioneller Kraftwerke an der deutschen Stromerzeugung in Terawattstunden (TWh) (Grafik: Autor, Daten*

[AGEB])

Wie man sieht, konnten die konventionellen Kraftwerke ihre Gesamtproduktion in den letzten 15 Jahren weitgehend halten. Erst mit dem massiv vorangetriebenen Ausbau der Wind-

und Sonnenenergie sowie dem Abschalten zahlreicher Kernkraftwerke in den Jahren ab 2011 sank die Produktion ab 2014 auf etwas unter 500 TWh/ Jahr. Vergegenwärtigt man sich im Vergleich

dazu die enormen Investitionen in „erneuerbare“ Energien, so kommt einem sofort der bekannte Spruch von dem kreißenden Berg in den Sinn, der am Ende lediglich eine Maus gebar.

Bei genauerem Hinsehen ersieht

man aus Bild 3 sofort, wer bei den konventionellen Kraftwerken die Gewinner und wer die Verlierer sind. Die größten Rückgänge musste erwartungsgemäß die Kernenergie hinnehmen, deren Jahresproduktion

seit dem Ende der 90er Jahre von 170 TWh um 44 % auf nur noch 91,5 TWh im Jahr 2015 zurückging.
Weiterer großer Verlierer sind die Erdgaskraftwerke, denen man eigentlich eine große Zukunft als

schnelle, flexible und zudem CO2-ärmere Reserveenergie für den Ausgleich von Schwankungen der Stromproduktion aus Wind- und Solarkraftwerken prophezeit hatte. Diese krasse Fehleinschätzung

unterstreicht einmal mehr, wie wenig die Architekten der „Energiewende“ samt ihrer von den Medien gehätschelten Sprachrohre wie eine gewisse blondierte Professorin mit

Kassenbrille von den tatsächlichen Grundlagen der Stromproduktion verstehen. Erdgas ist ein viel zu teurer Brennstoff, als dass er am Markt mithalten könnte. Auch gibt es viel zuwenig Erdgaskraftwerke,

um das Netz im Falle des Falles stabil zu halten. Und ganz sicher findet sich nach den wiederholten Wort- und Rechtsbrüchen der Bunderegierung zurzeit wohl kaum noch ein Investor, der bereit wäre,

sich auf Zusicherungen der deutschen Politik zu verlassen. Das wird sich vermutlich dann ändern, wenn Gabriel das von ihm heißersehnte TTIP-Abkommen mit den USA unter Dach und Fach bekommt. Dann

werden US-amerikanische Heuschrecken über Deutschland herfallen und dafür sorgen, dass der Verbraucher eine neue Form der Mathematik erlernt: Statt den Preis einer Kugel Eis in Kilowattstunden

auszudrücken, wird man dann in Kugeln Eis pro kWh rechnen.

Nahezu unverändert gehalten haben sich dagegen die Grundlast-Braunkohlekraftwerke, die nach wie vor mit ihren riesigen Turbinen das Netz

trotz aller Störeinflüsse der Stotterstromproduzenten Wind und Sonne stabil halten. Selbst die häufig in der Mittellast eingesetzten Steinkohlekraftwerke mussten nur vergleichsweise geringe Einbußen

hinnehmen.

und des Ausstoßes an CO2

Als

nächstes interessiert nun die Frage, wie sich

der ganze bisher getriebene Aufwand auf das aktuelle

Hauptziel der Politik, die sogenannte

„Klimarettung“, ausgewirkt hat. Schließlich hat ja

die Regierung das Ziel vorgeben, die CO2-

Emissionen bis 2020 gegenüber 1990 um 40 % zu

verringern. Weil das nicht klappt, wütet Bundesumw

eltministerin Hendricks zurzeit gegen die Braunkohl

e und beklagt, dass „unsere Klimaschutzfortsch

ritte beim Ausbau der erneuerbaren

Energien…

..leider durch die anhaltend hohe Produktio

n von Kohlestrom zum Teil zunichtegemacht“

werden [HEND]. Schauen wir uns daher an, in

welchem Umfang sich die „Energiewende“ auf den CO2-

Ausstoß bei der Stromerzeugung ausgewirkt hat,

Bild 4. Dazu wurden die mit verschiedenen

Stromerzeugungsverfahren produzierten CO2-Mengen

mithilfe der von Prof. H. Alt ermittelten

spezifischen Kennzahlen [ALT] ausgerechnet.

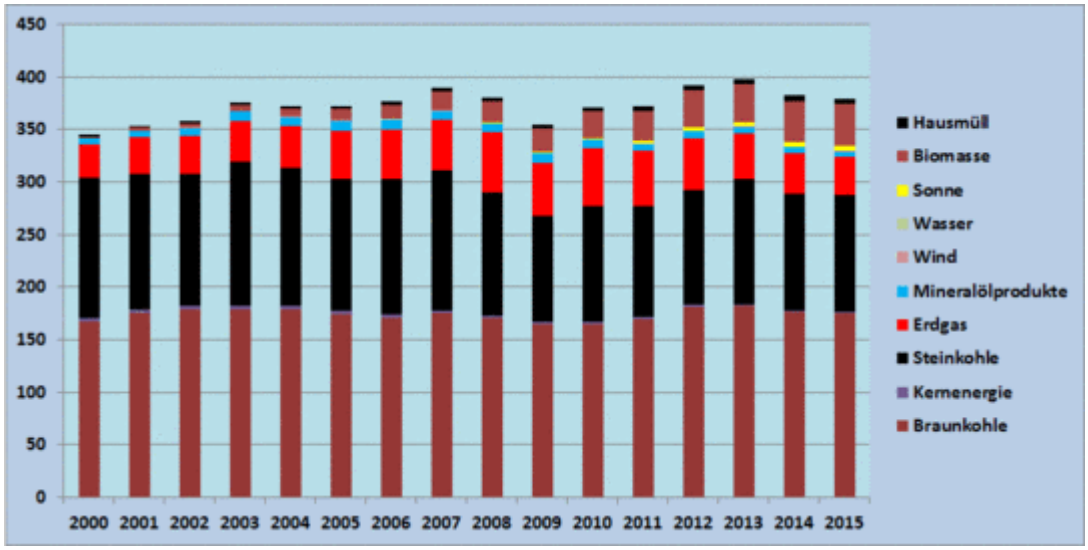


Bild 4.

CO2-Ausstoß

der deutschen Kraftwerke in Mio. t CO2/ Jahr

(Grafik: Autor, Daten [AGEB])

Wie man

sofort erkennen kann, konnte trotz des ganzen

bisher getriebenen Aufwands keinerlei Verringer

ung des CO2-Ausstoßes bei der deutschen Stromprod

uktion erreicht werden. Im Gegenteil, dieser

ist seit 2000 sogar um knapp 10 % angestieg

en. Damit wurden im Bereich der Stromproduktion

die selbst gesteckten Ziele deutlich verfehlt.

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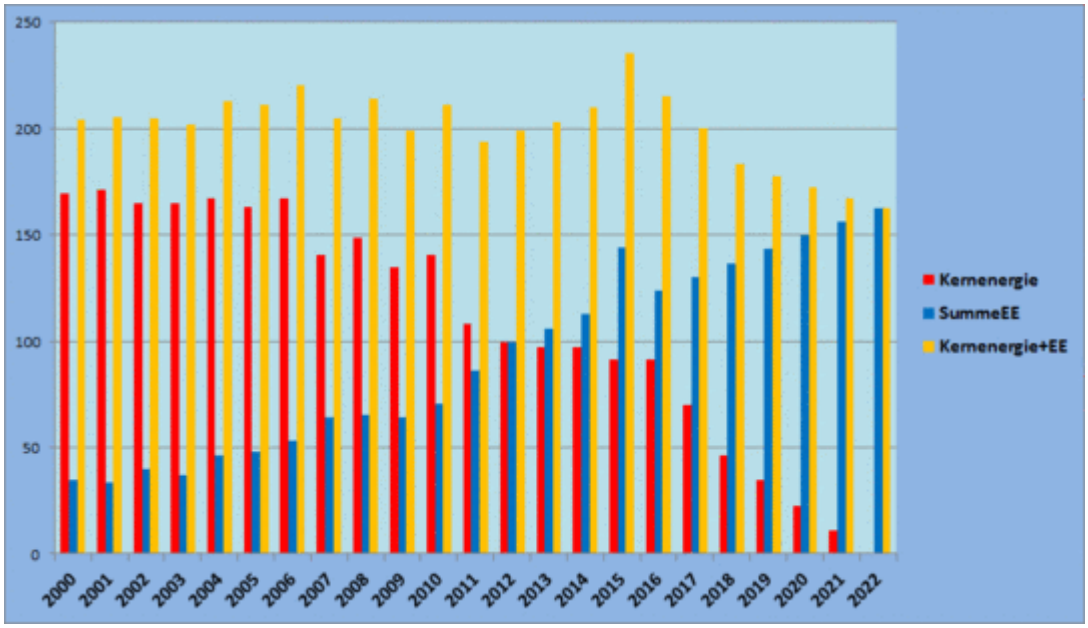
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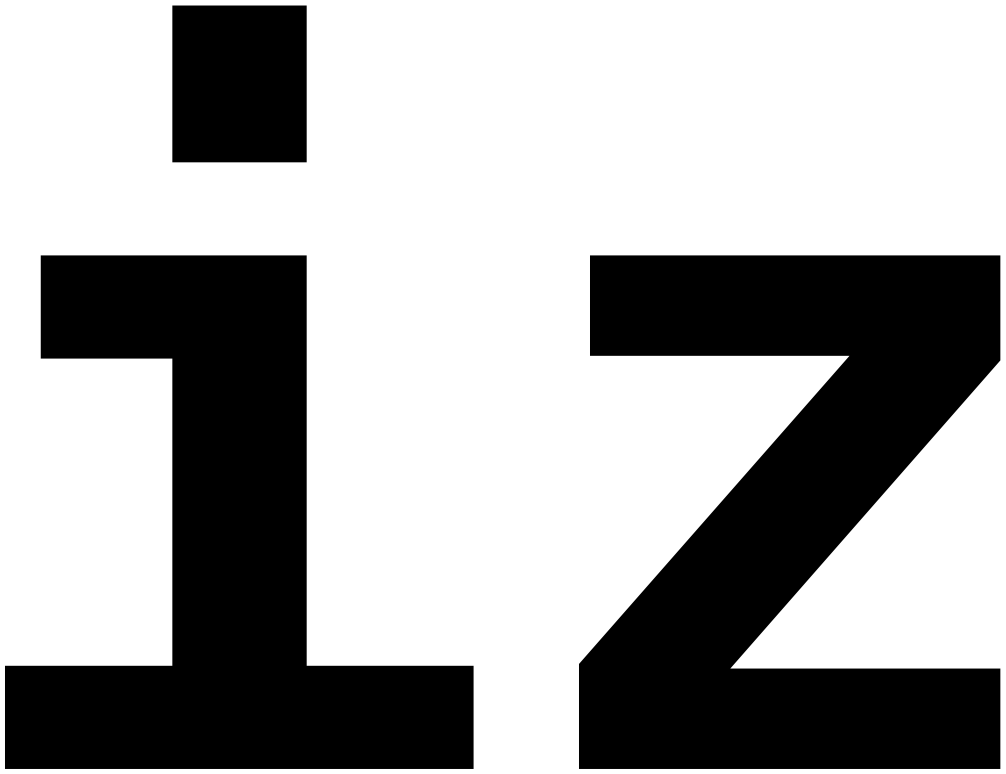
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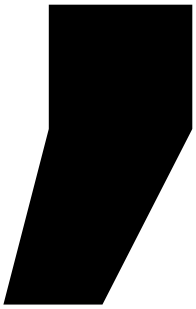


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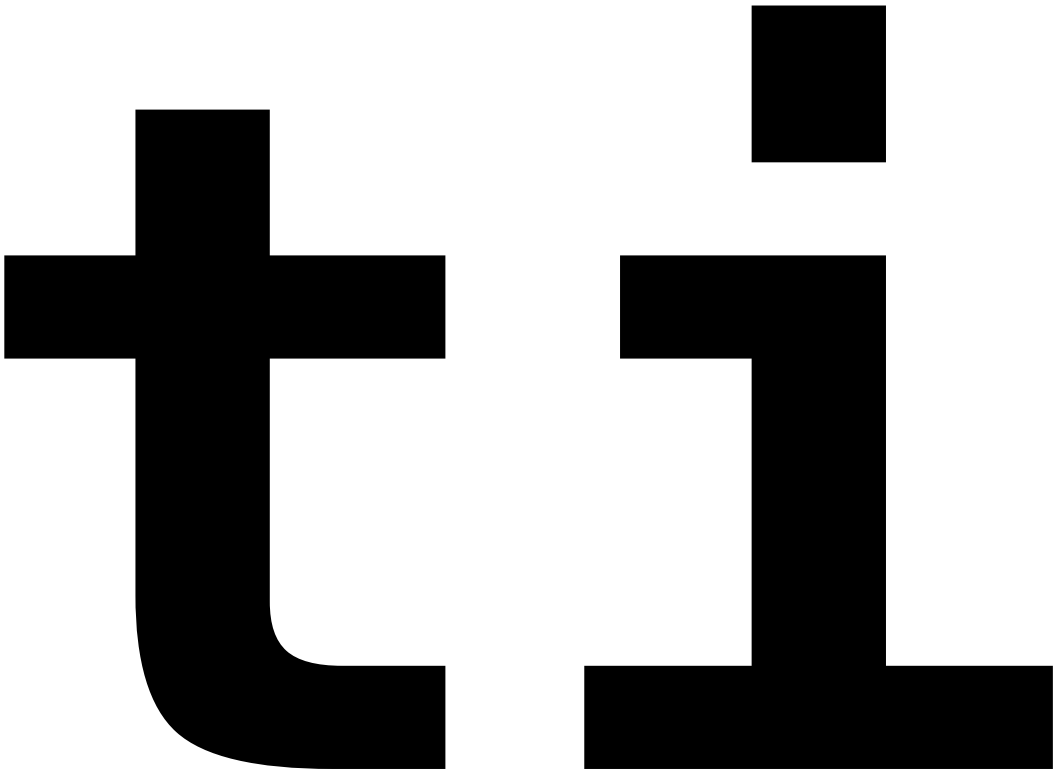
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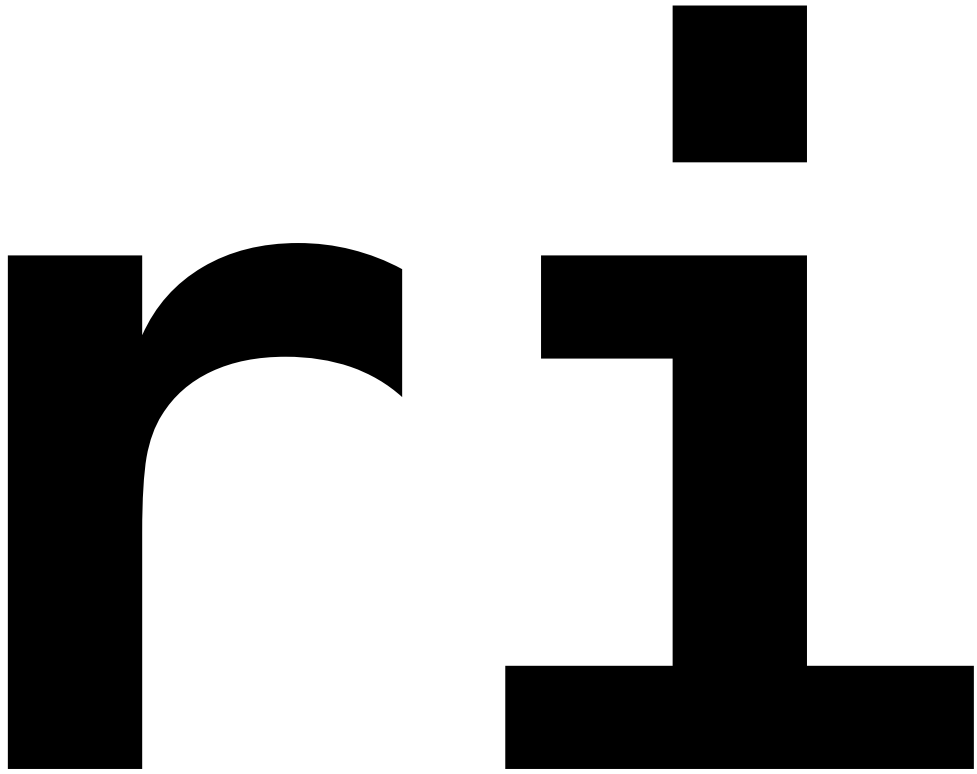
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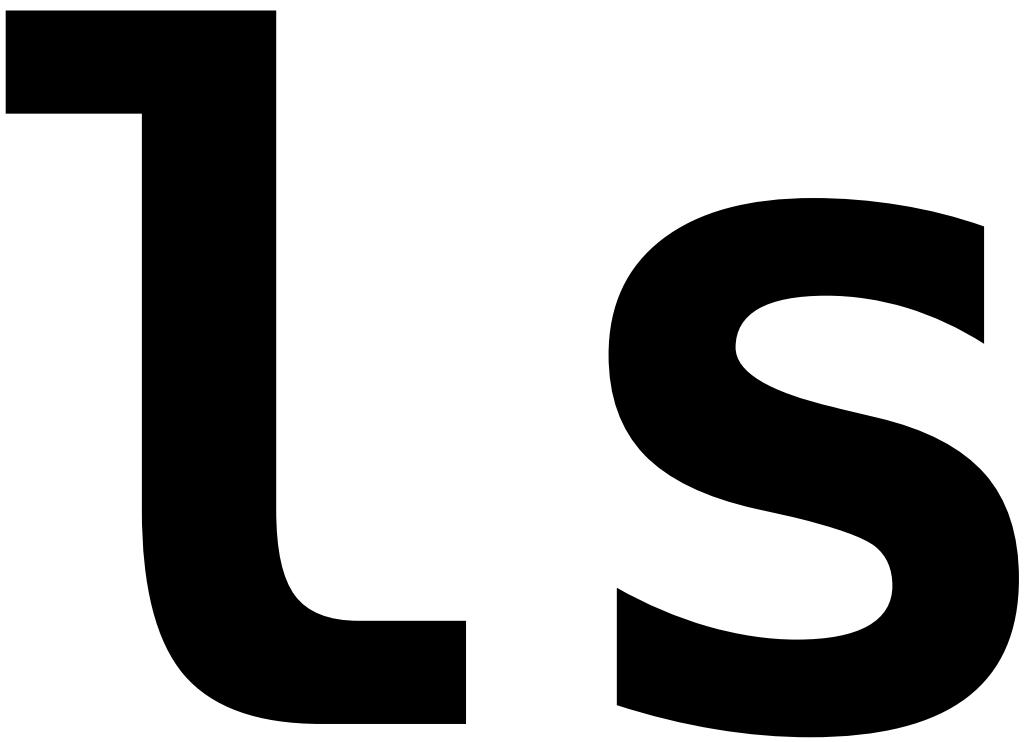
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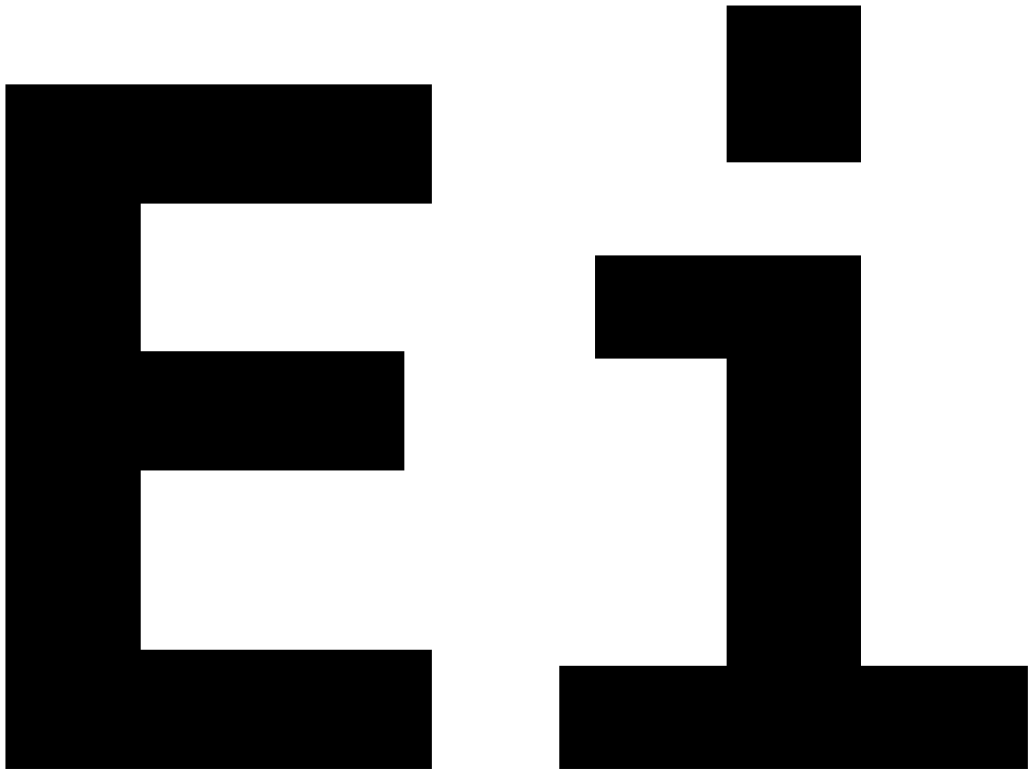
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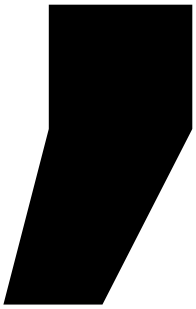
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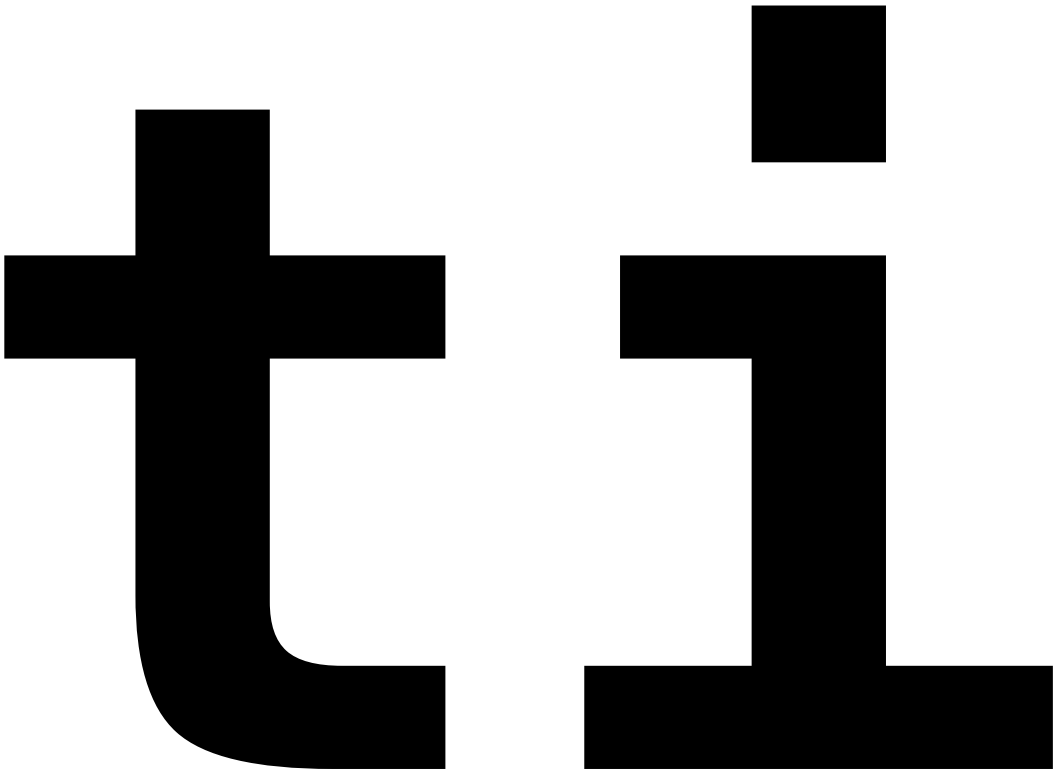


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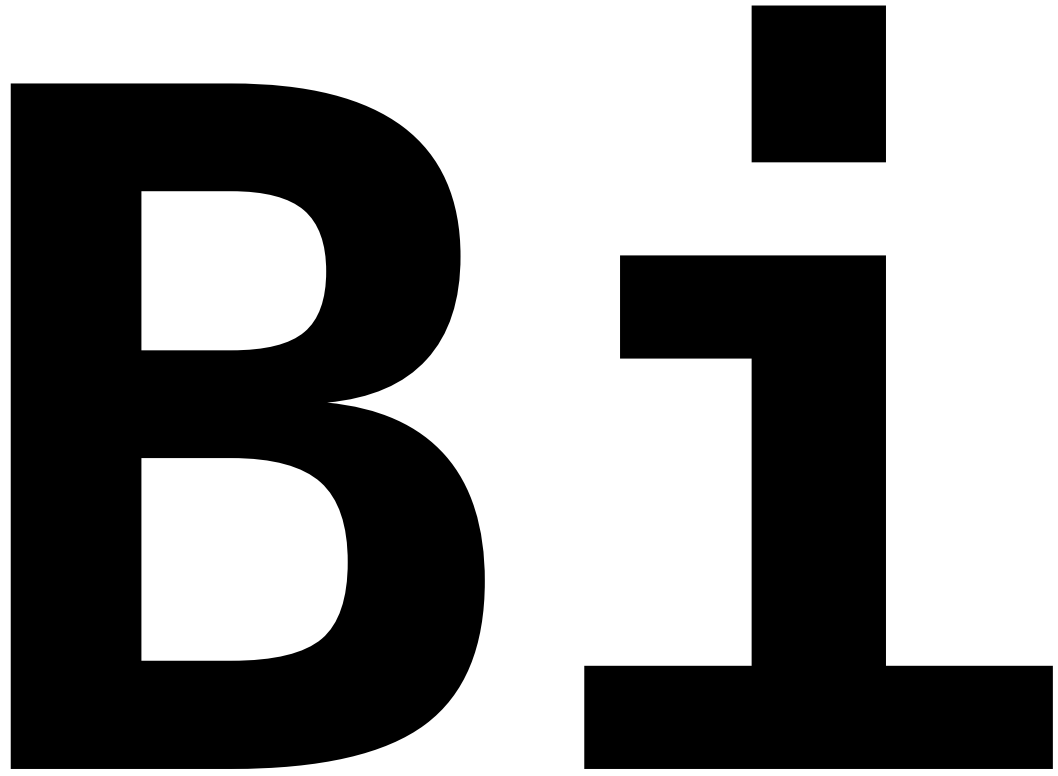

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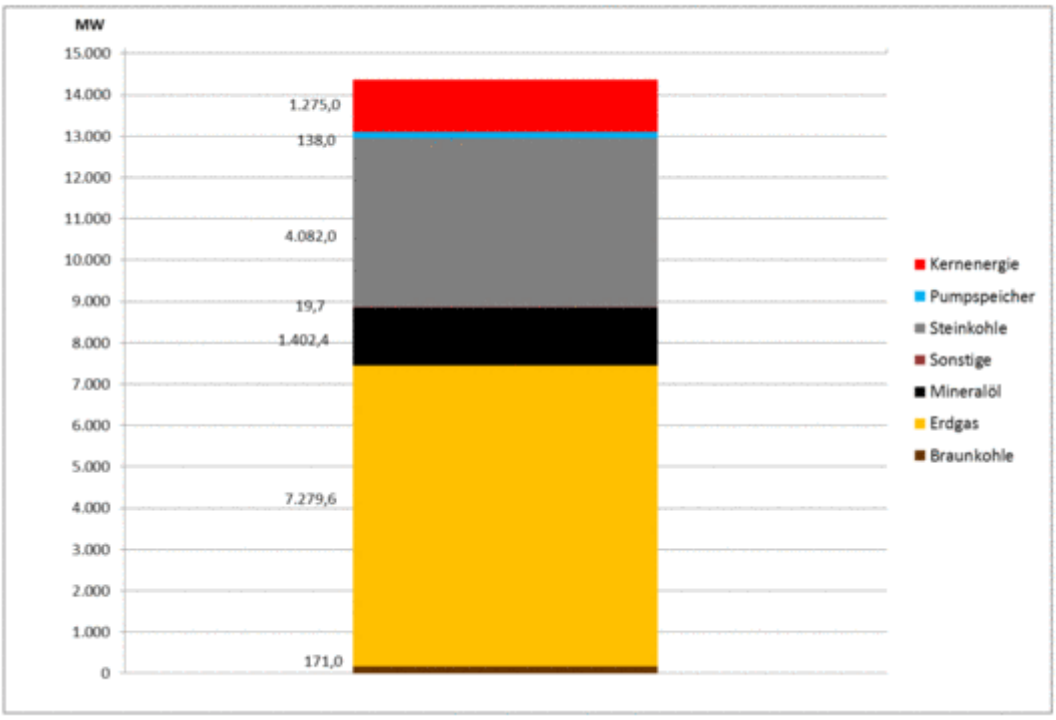
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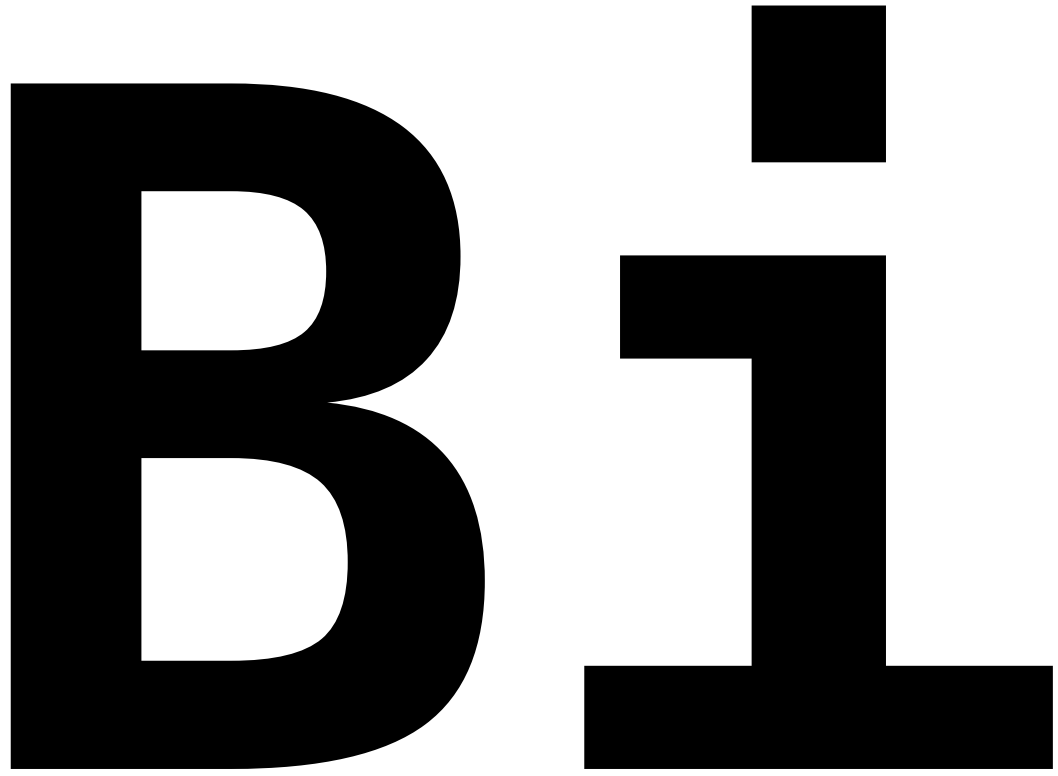

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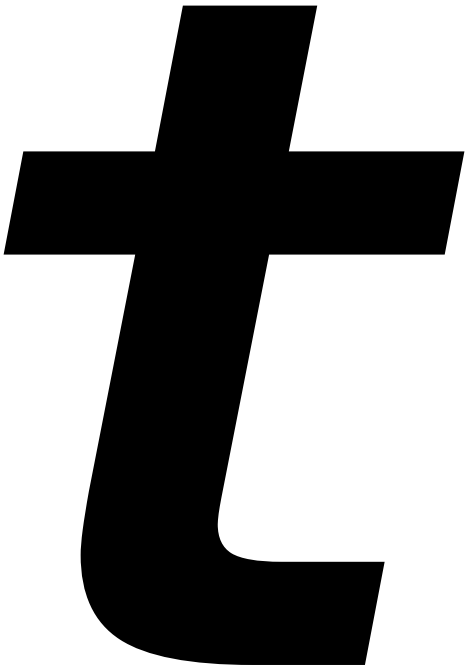

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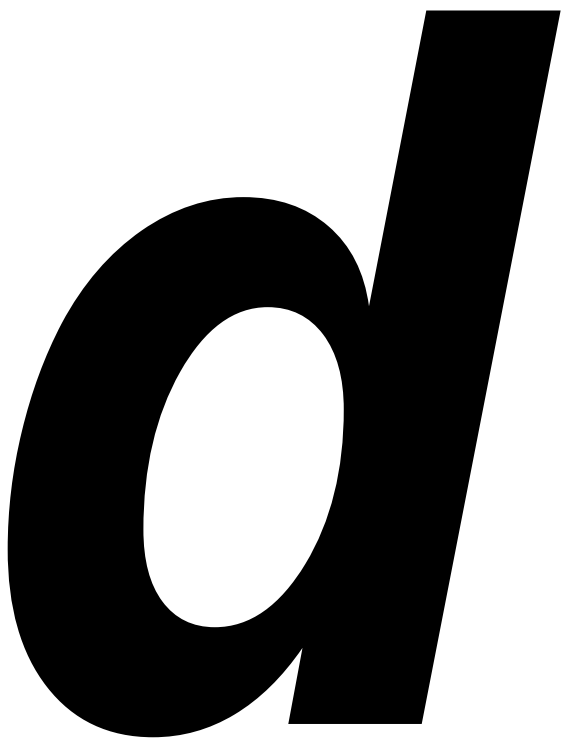


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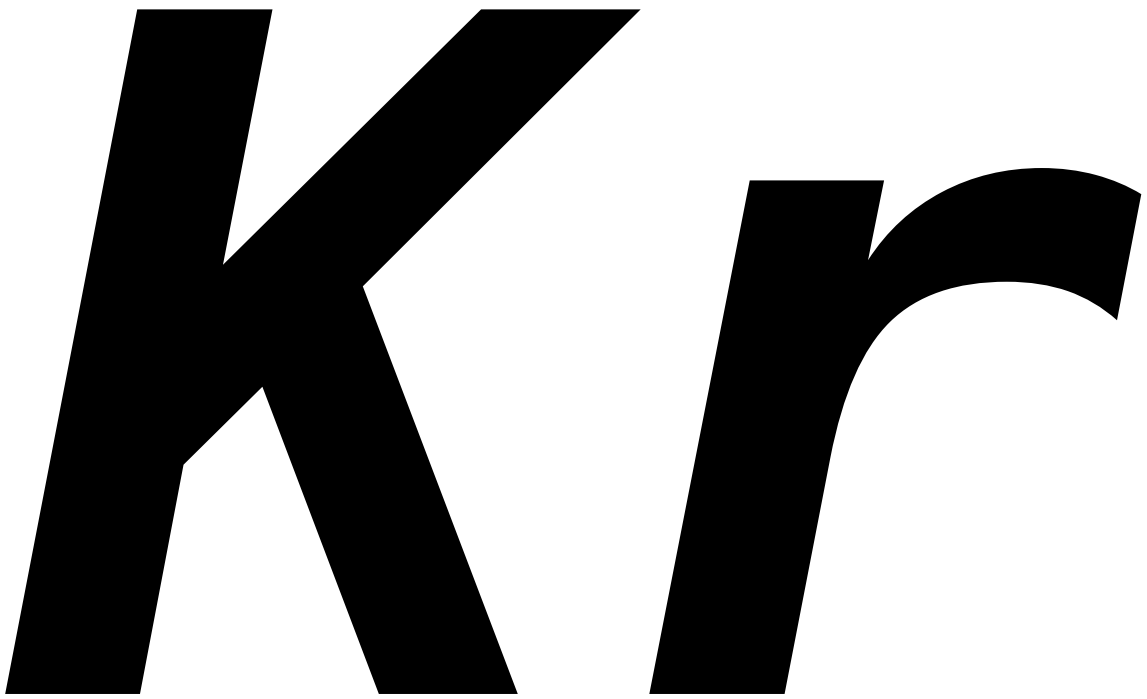

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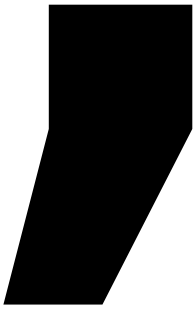
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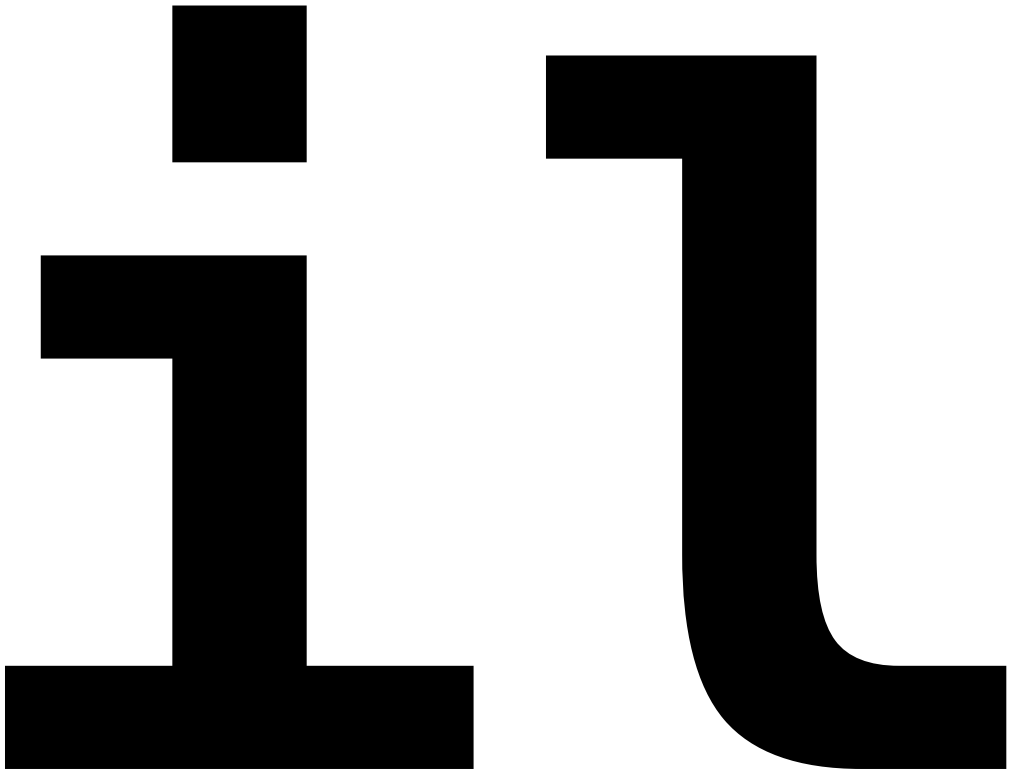
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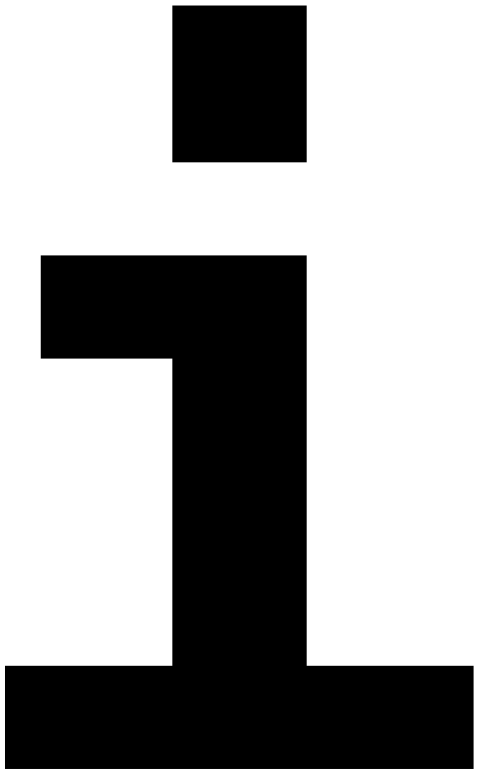


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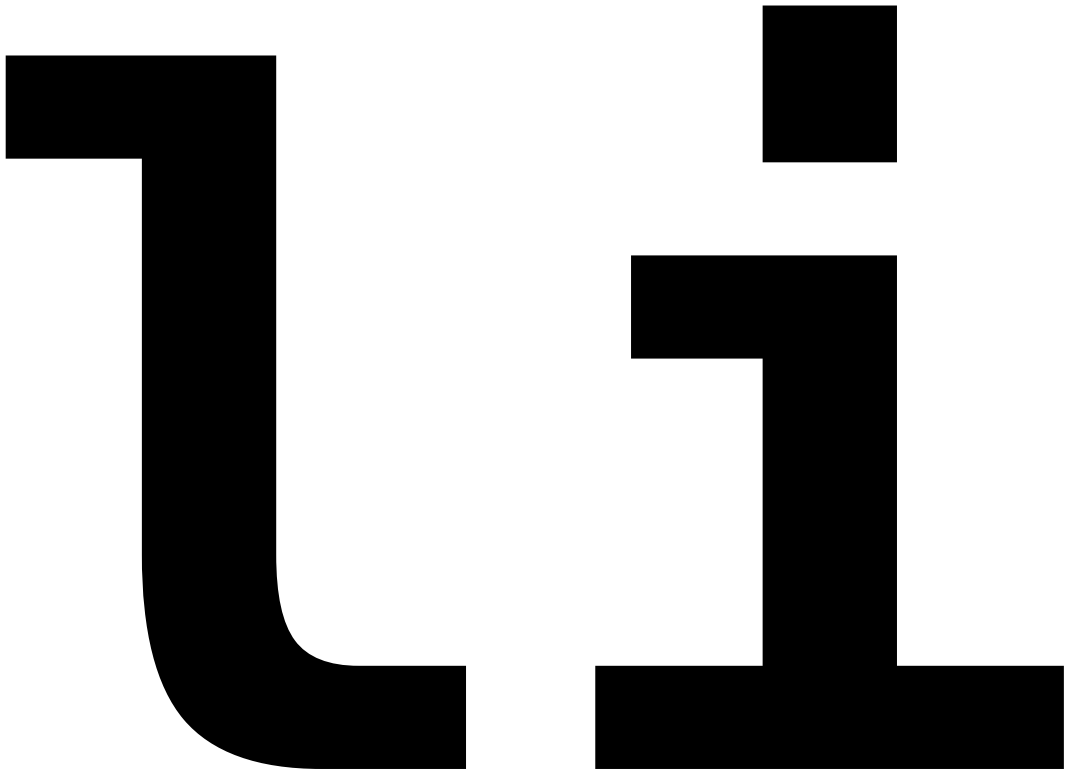
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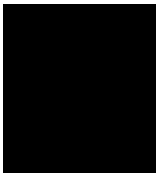
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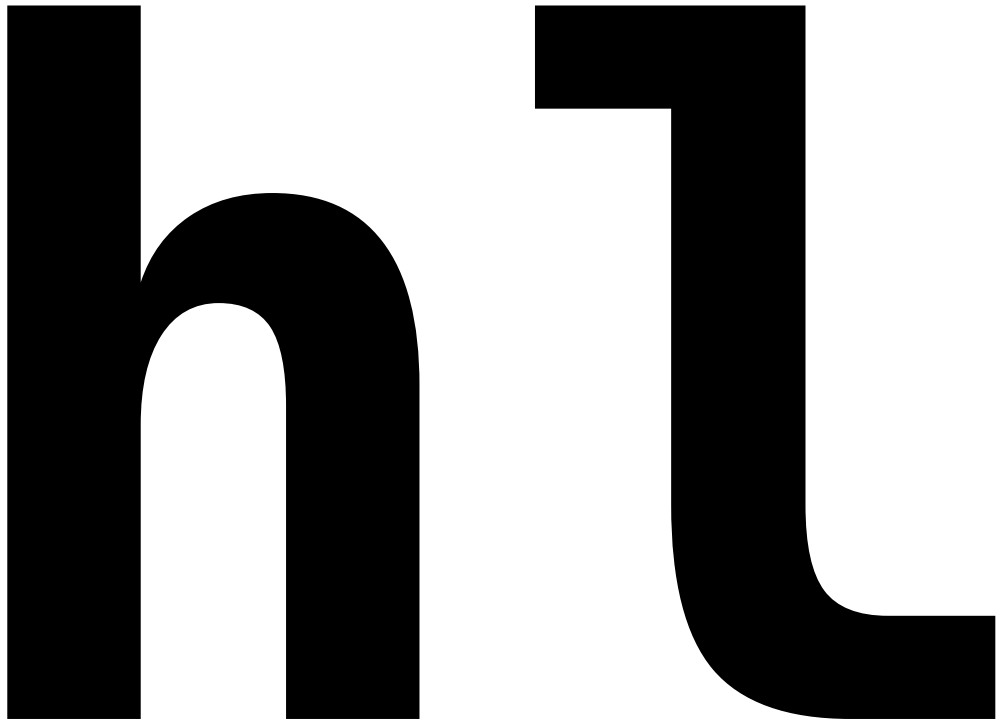
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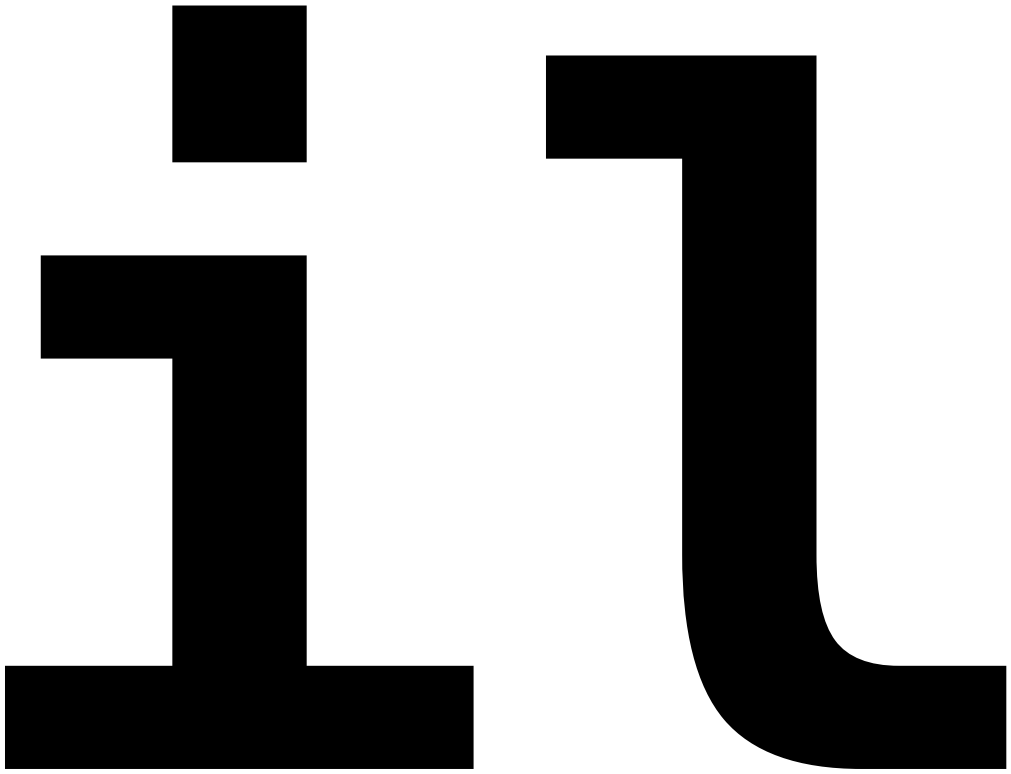
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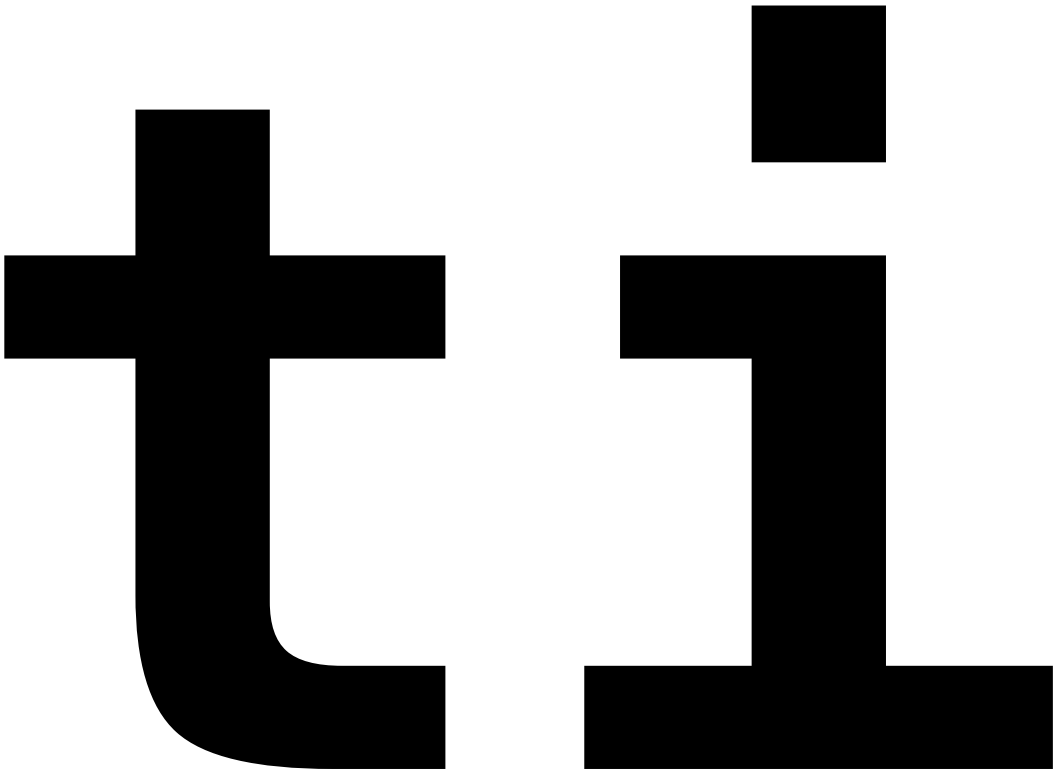
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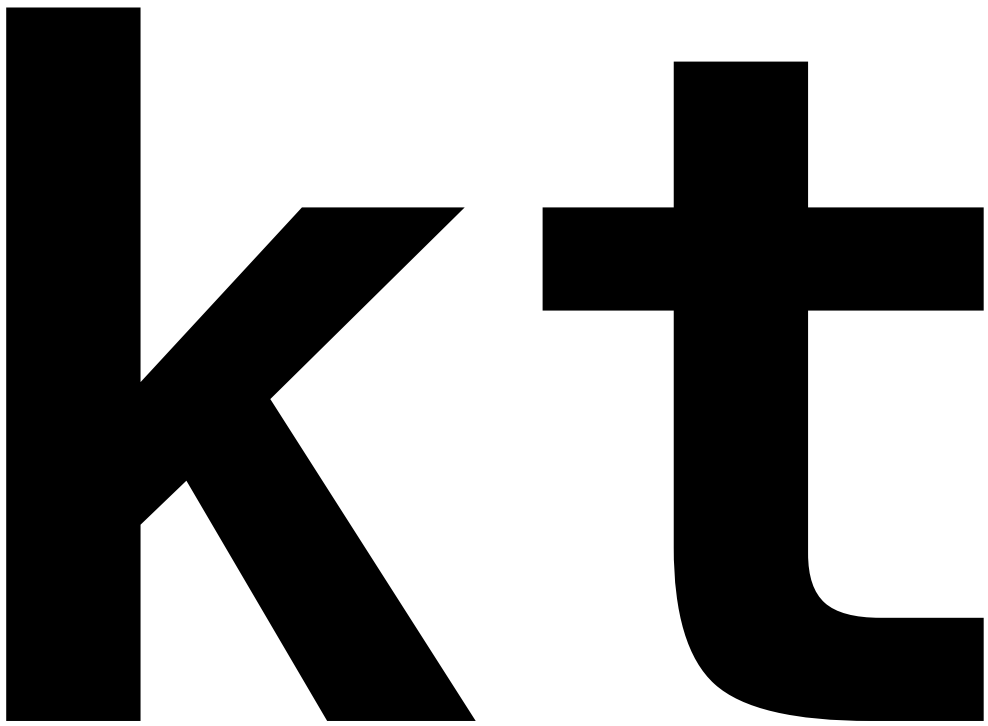
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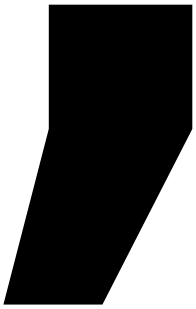



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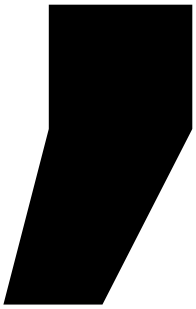
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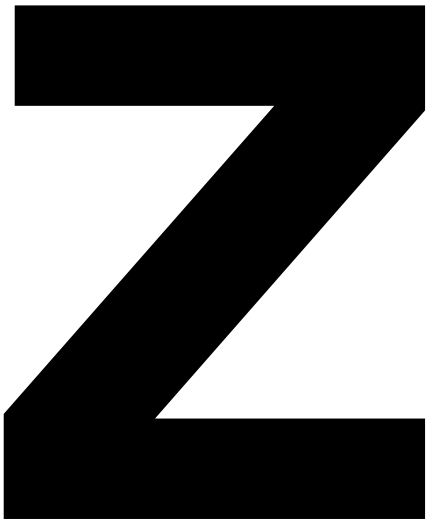

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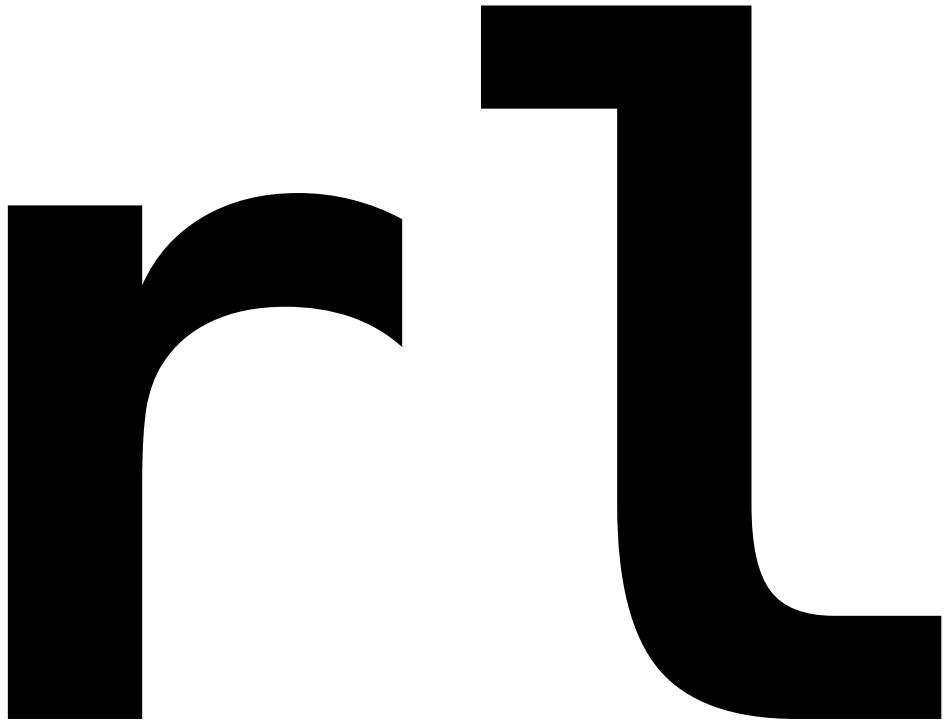


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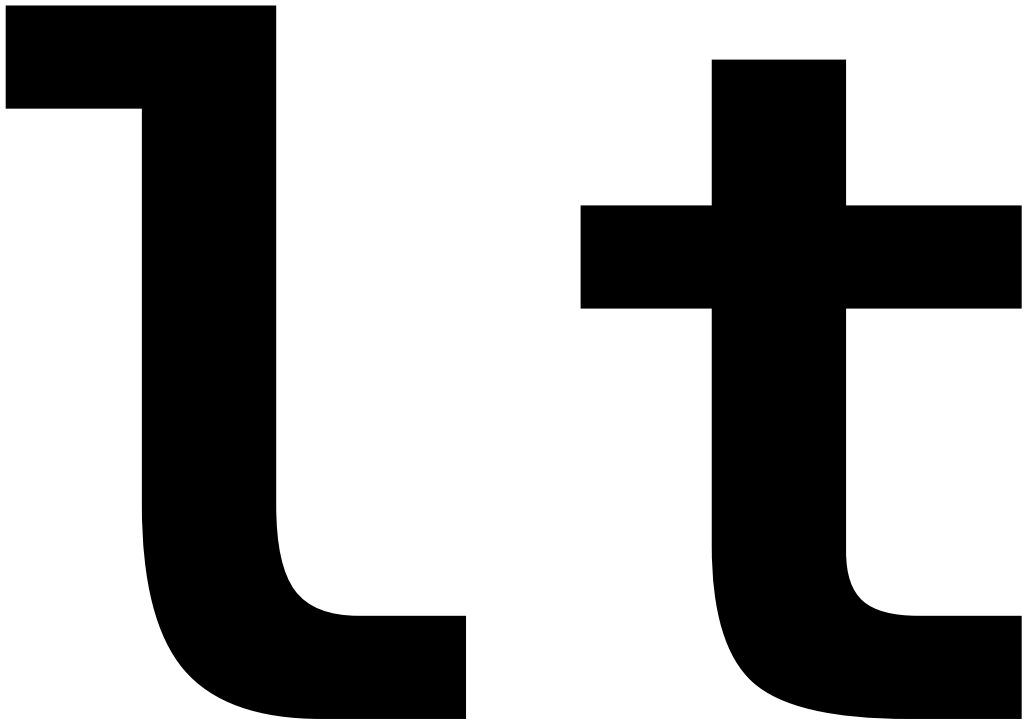
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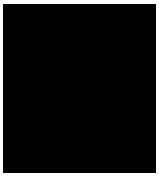
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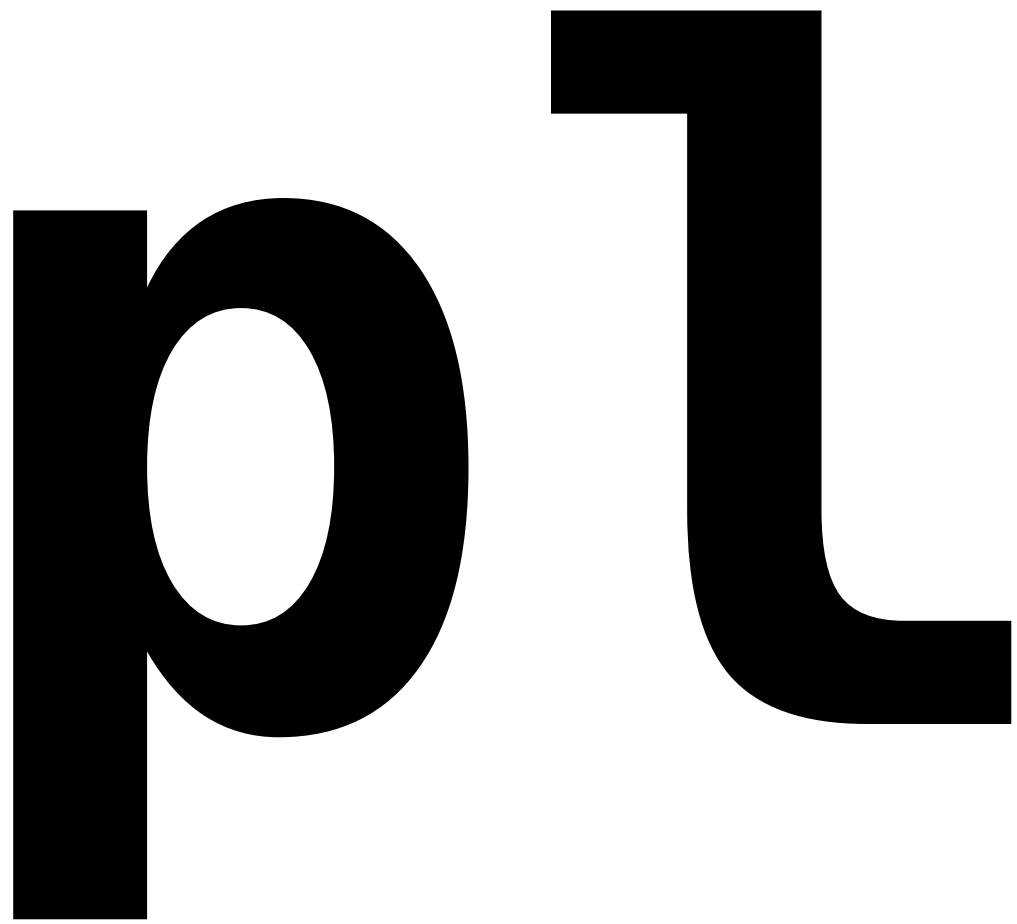
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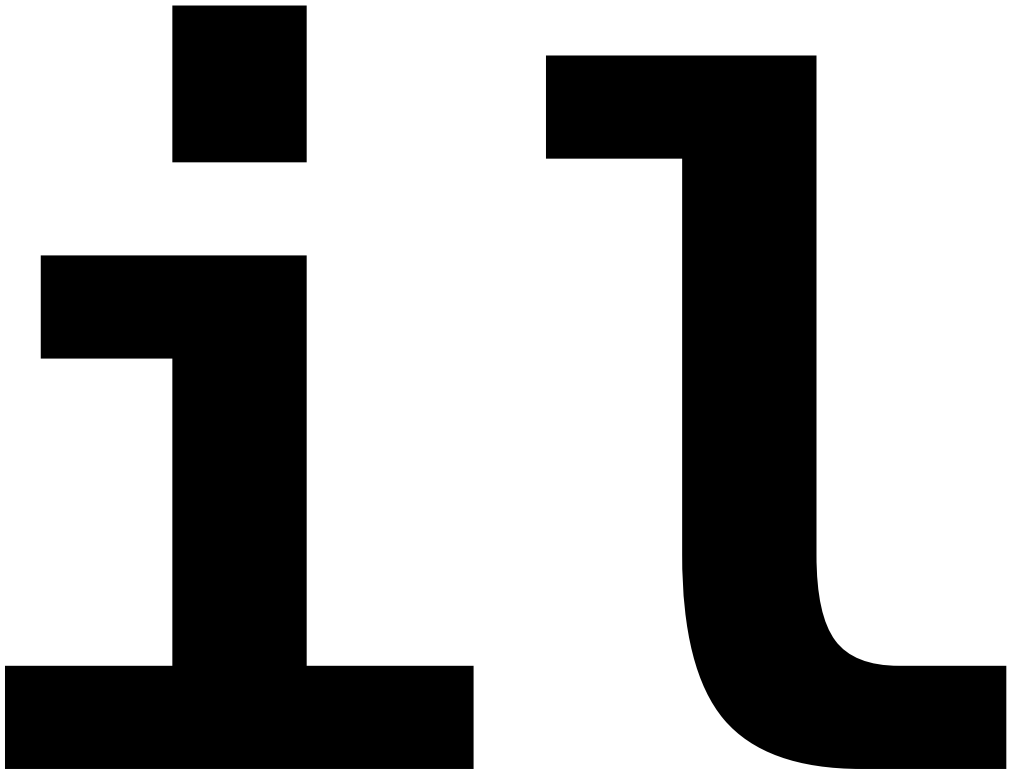
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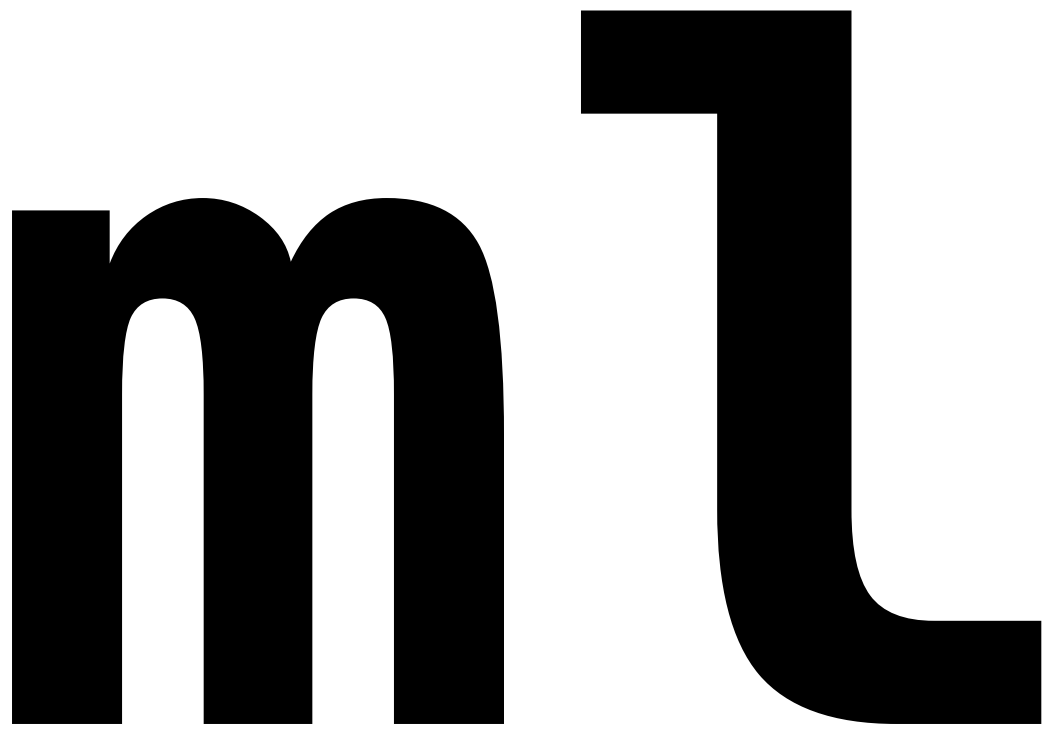
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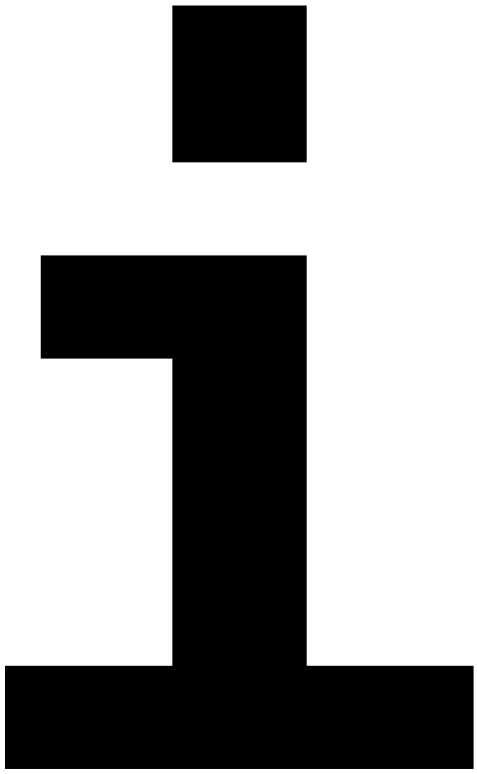






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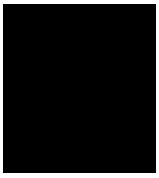


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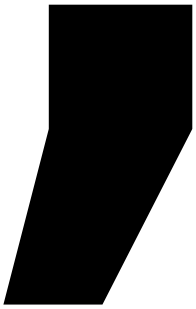
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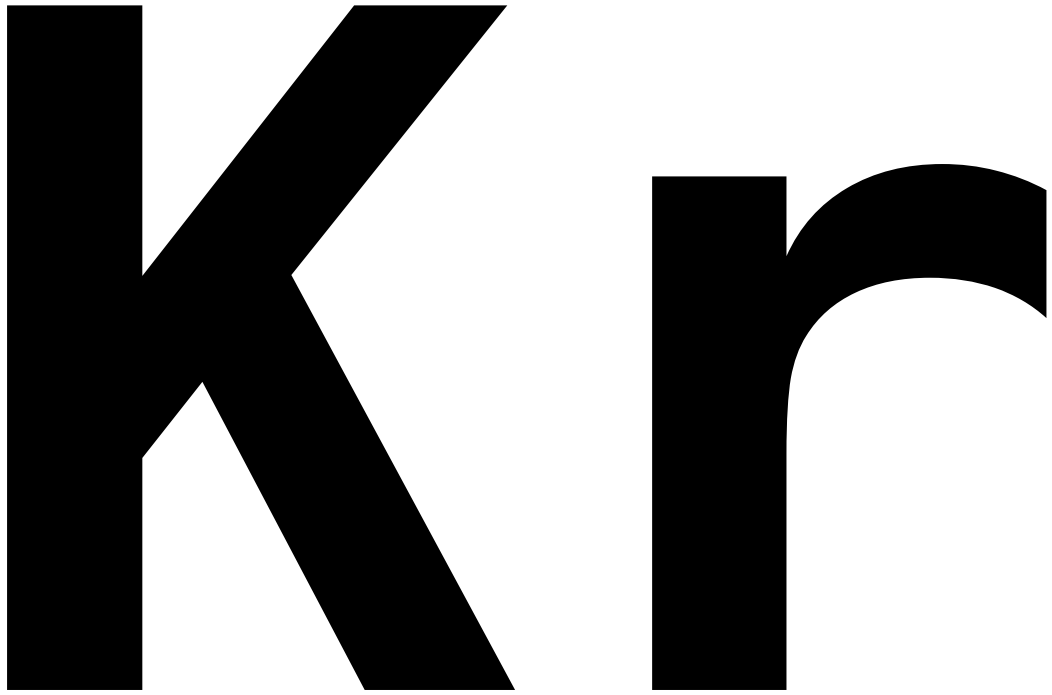


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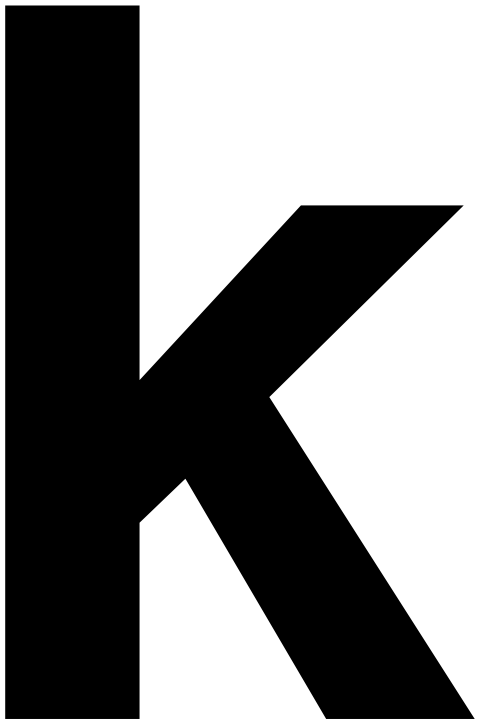
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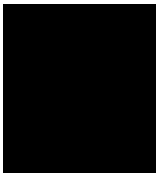
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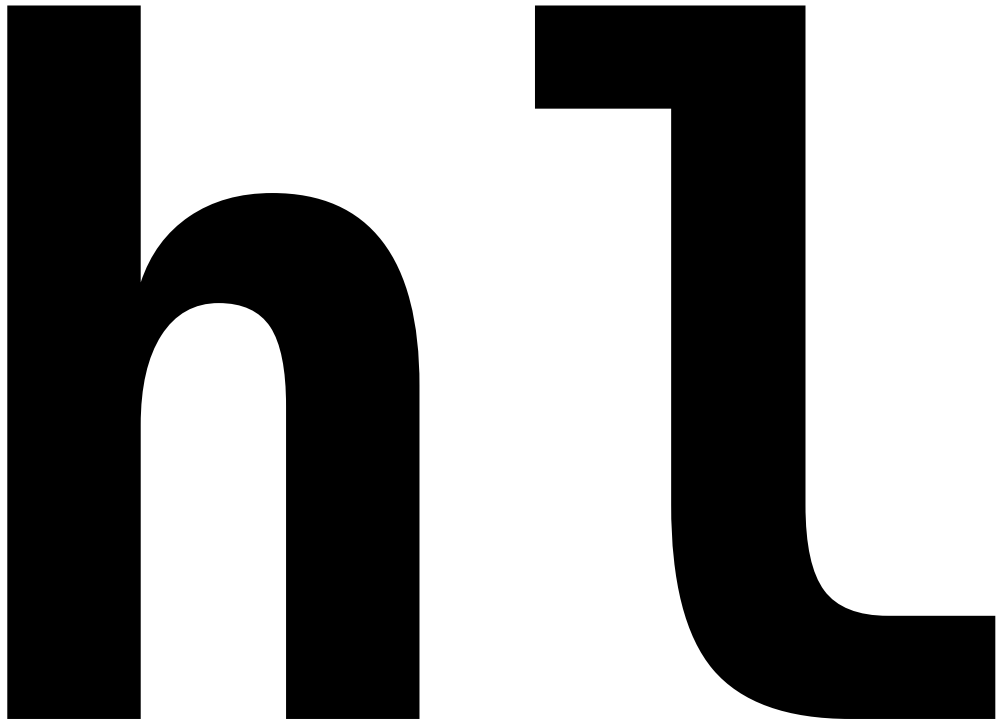
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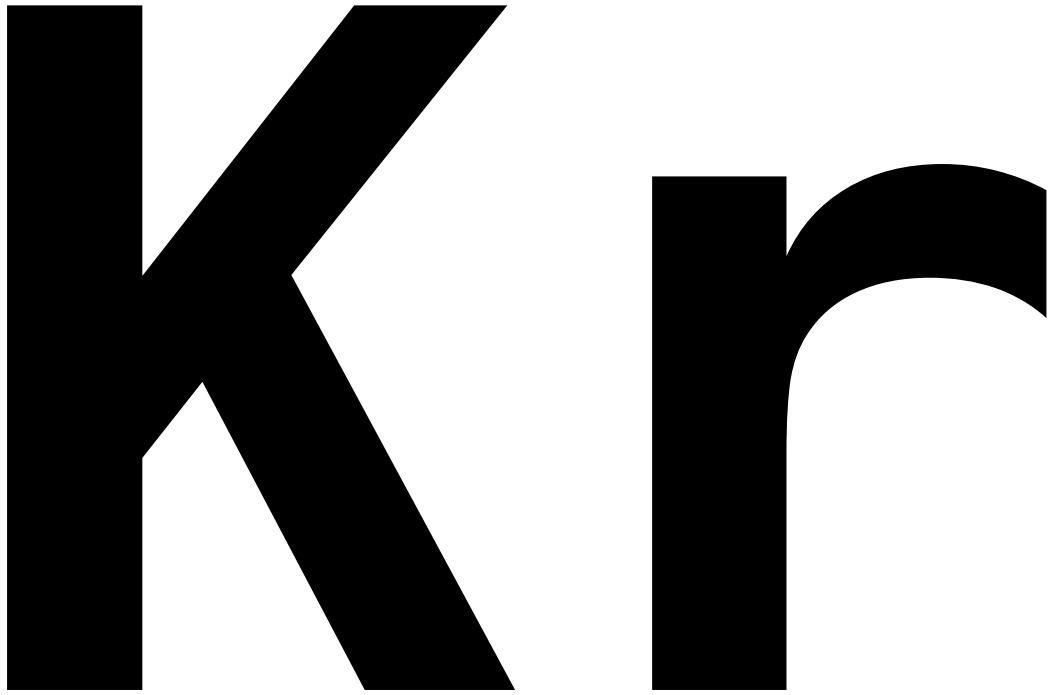
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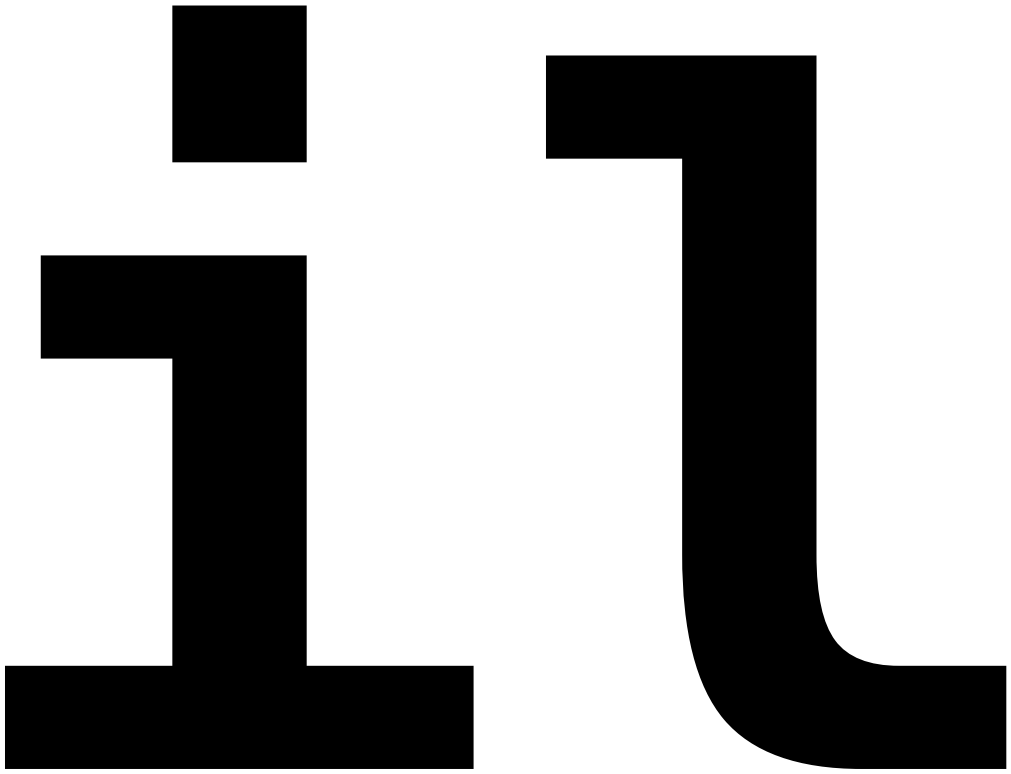
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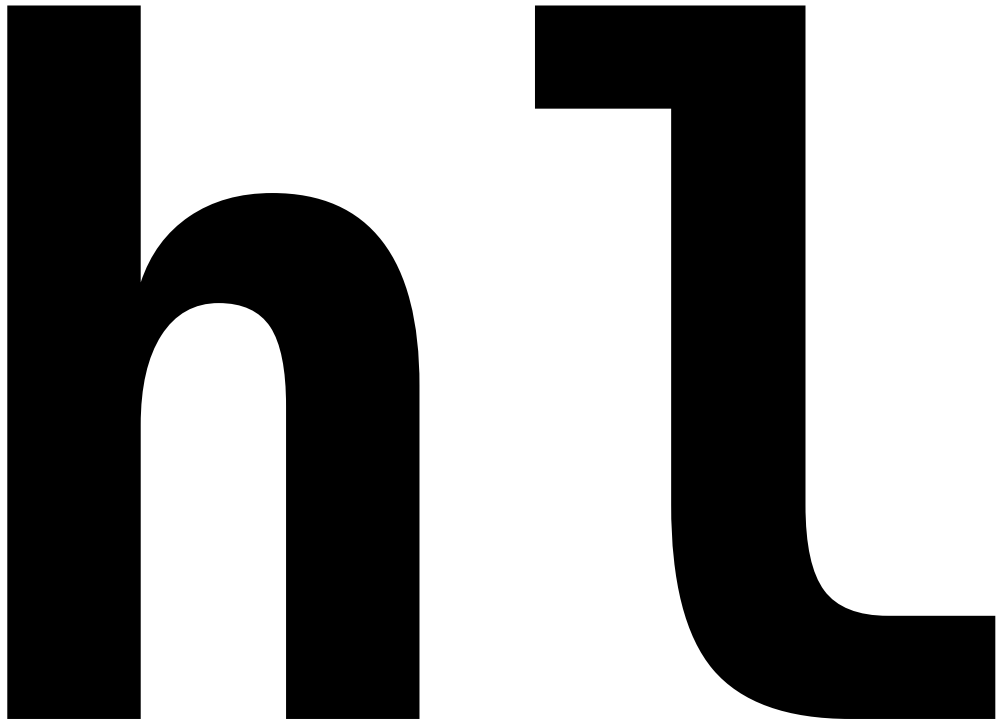
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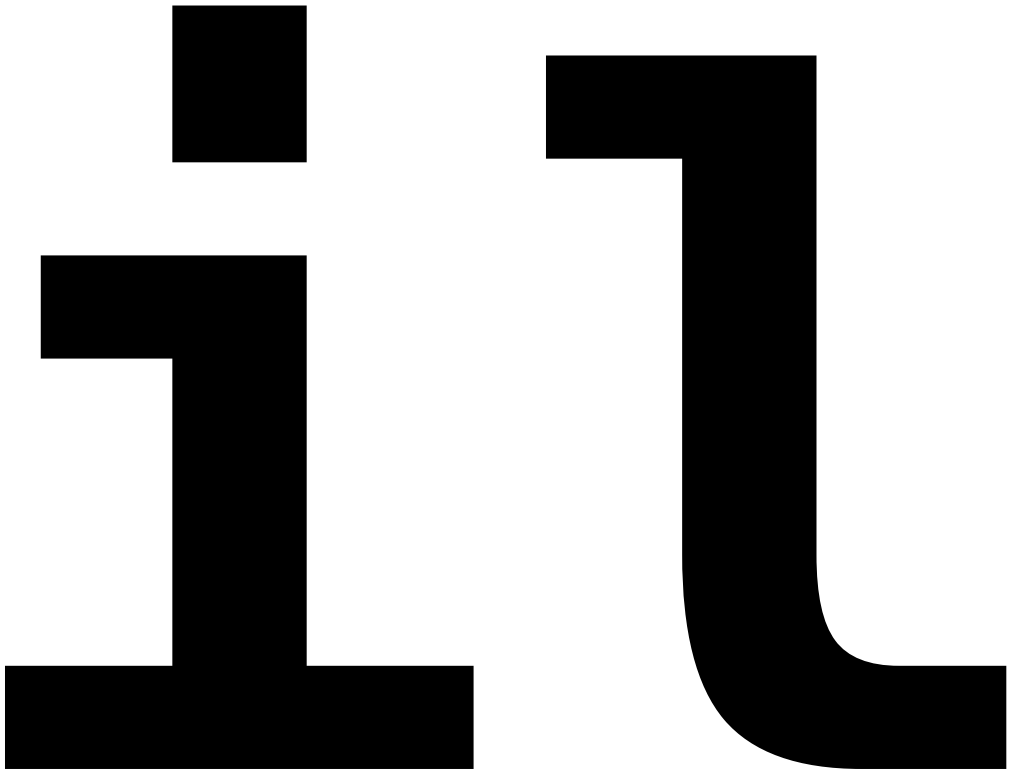






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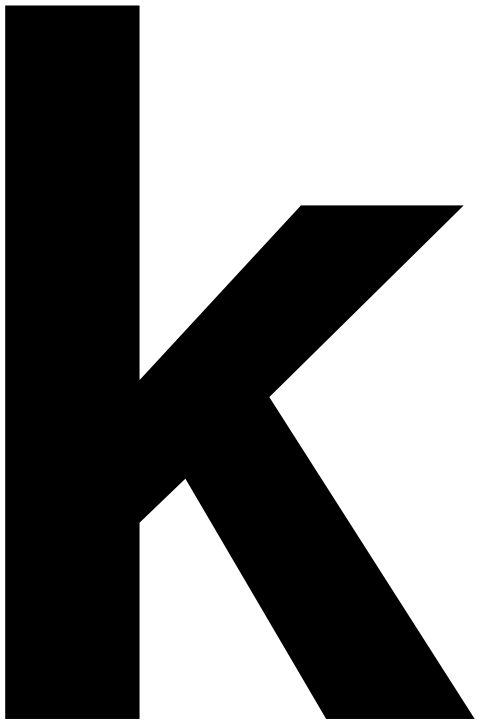
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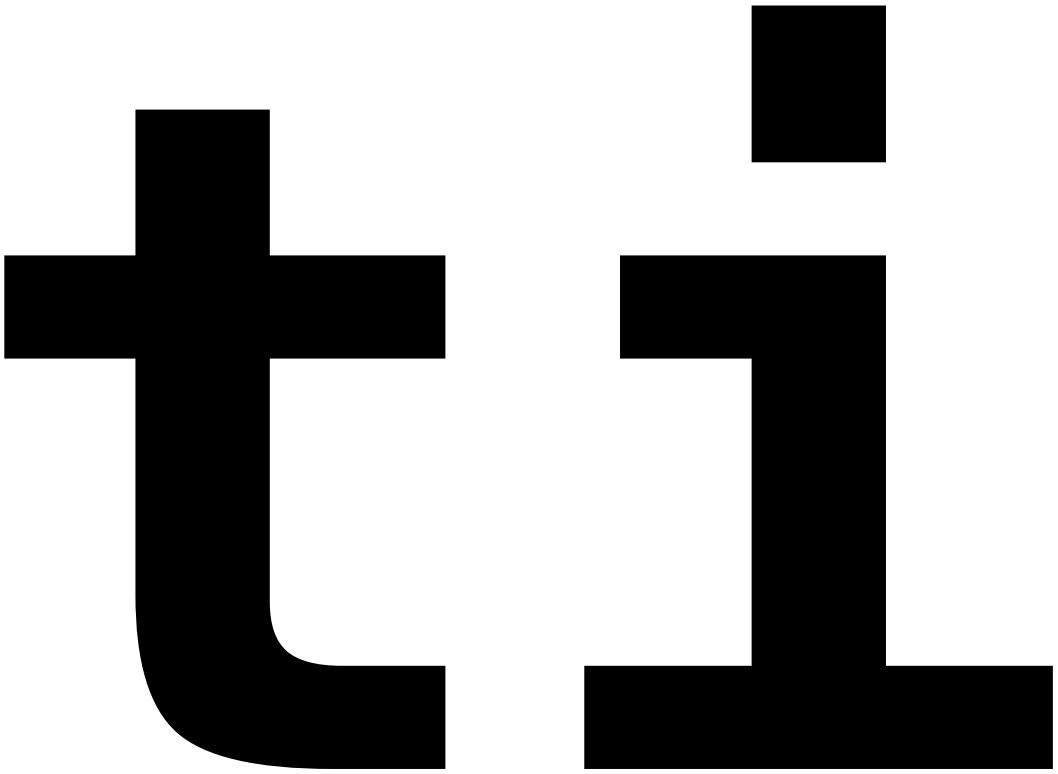
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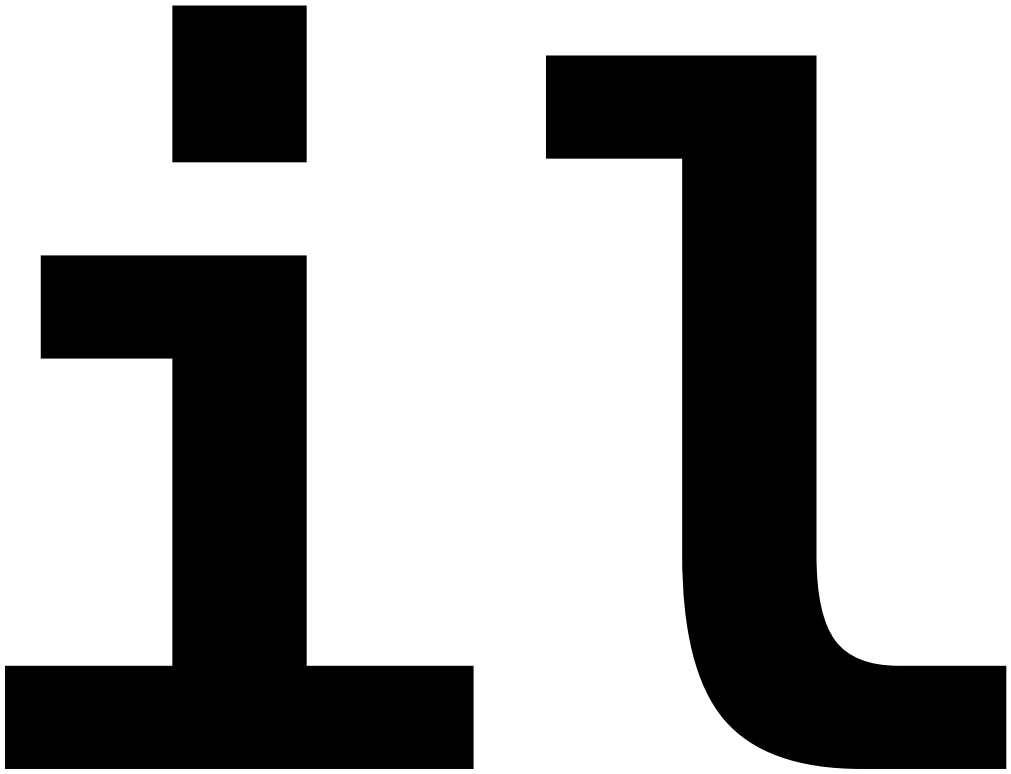




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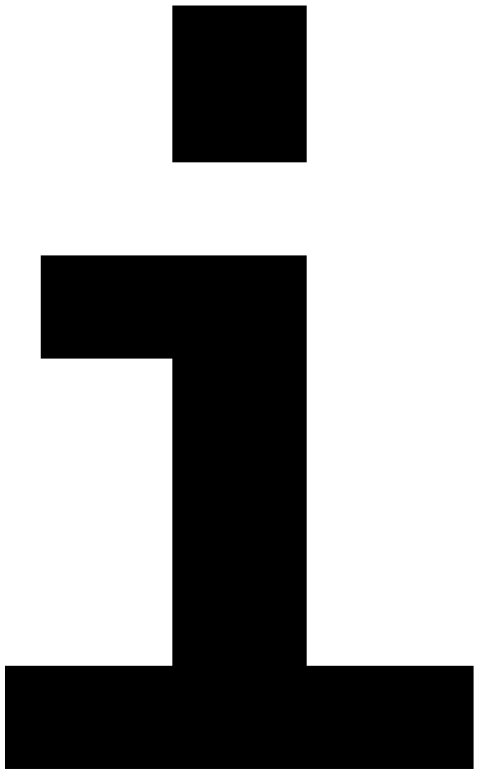

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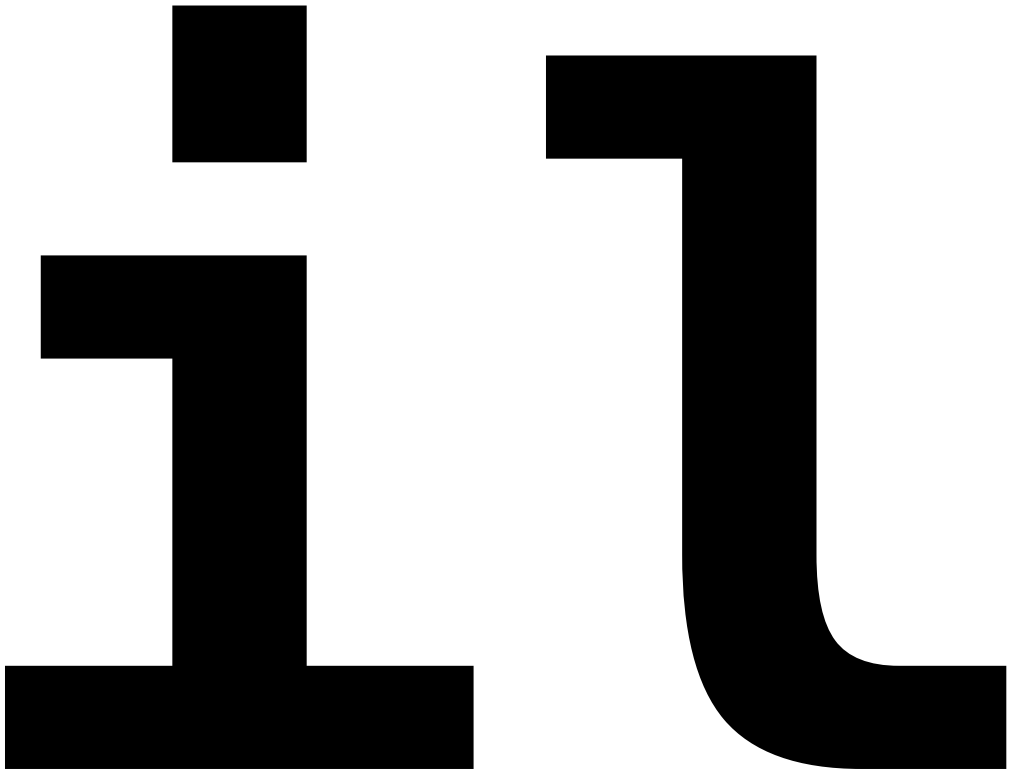
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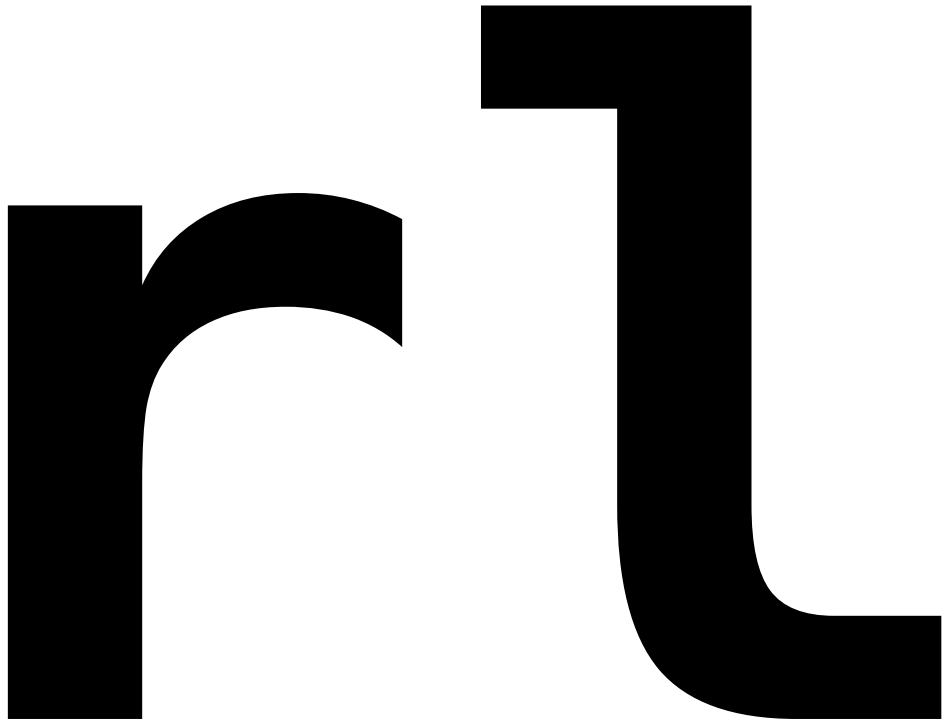
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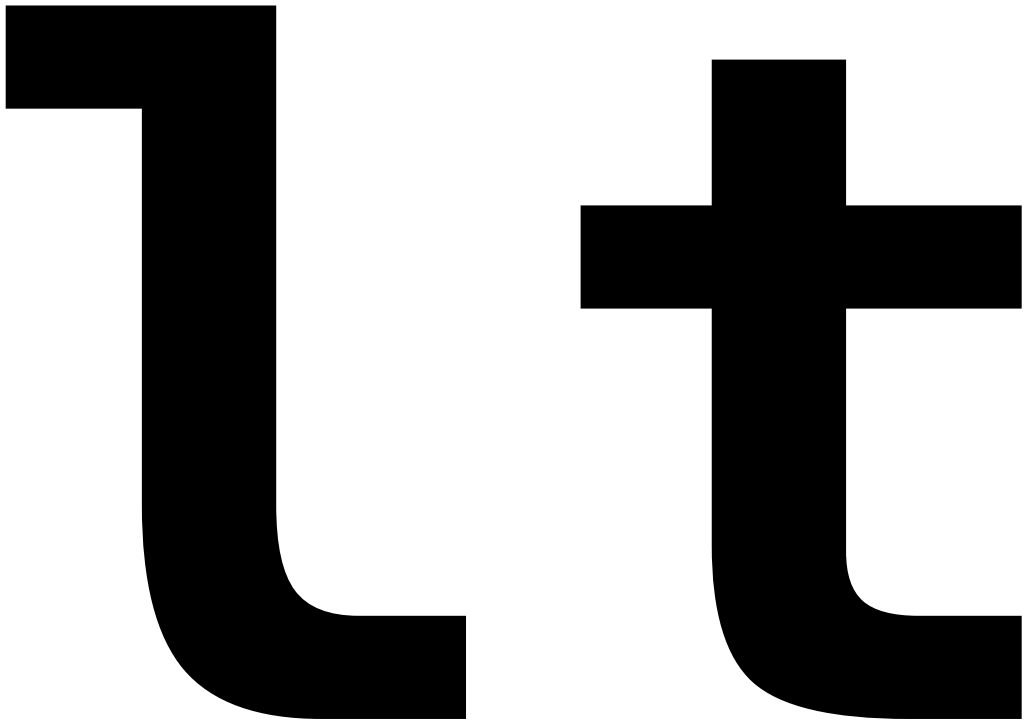
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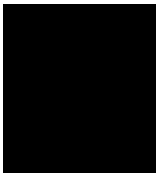


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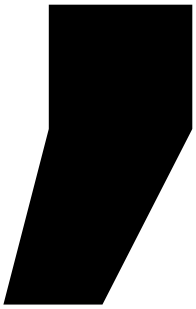
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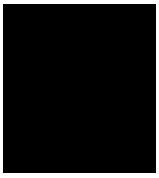
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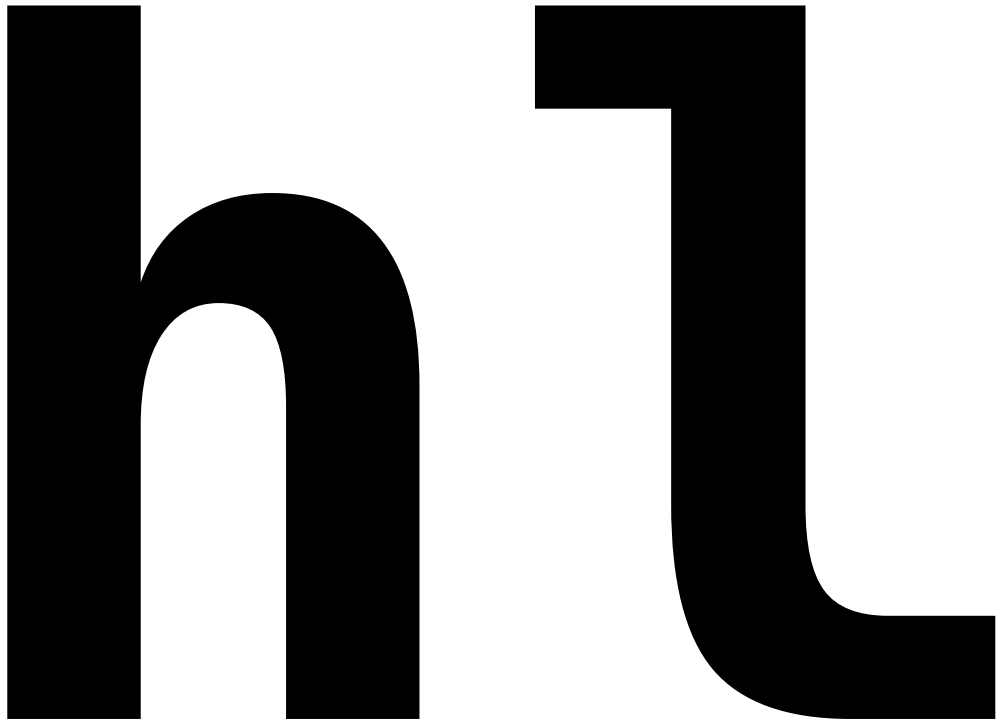
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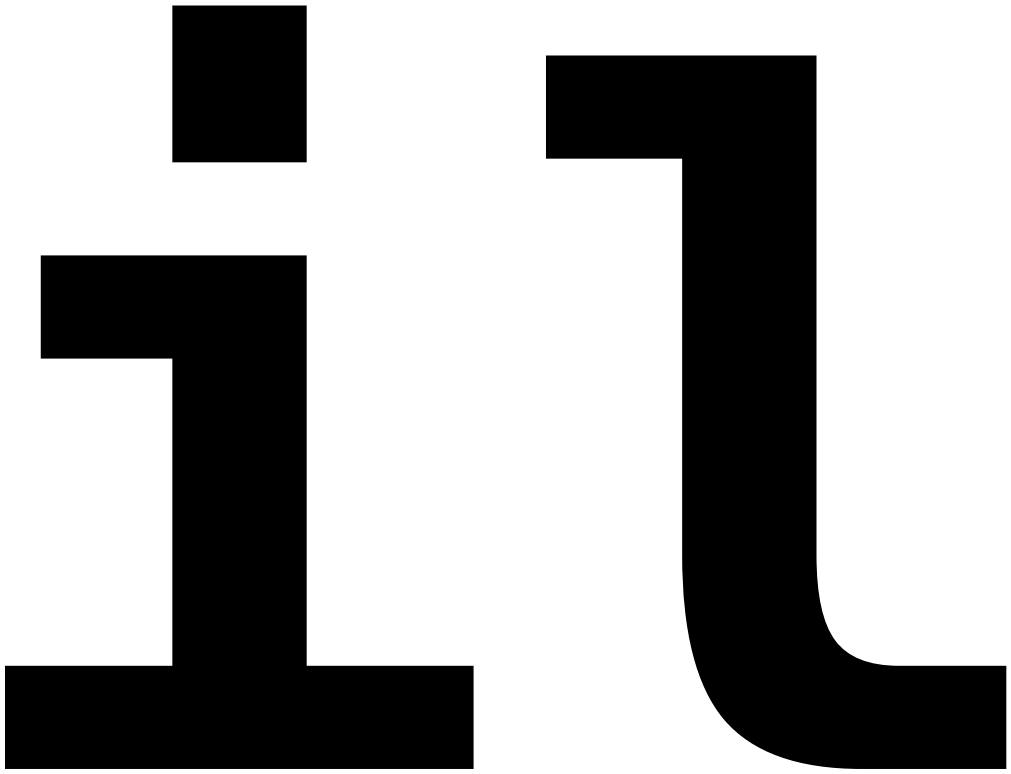
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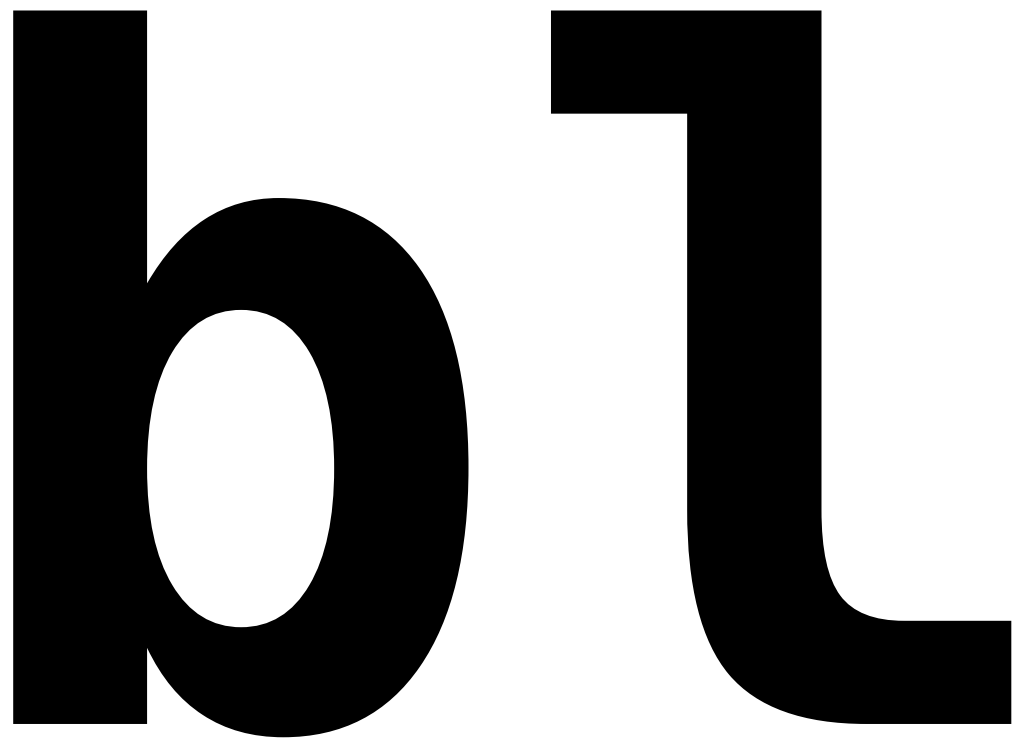
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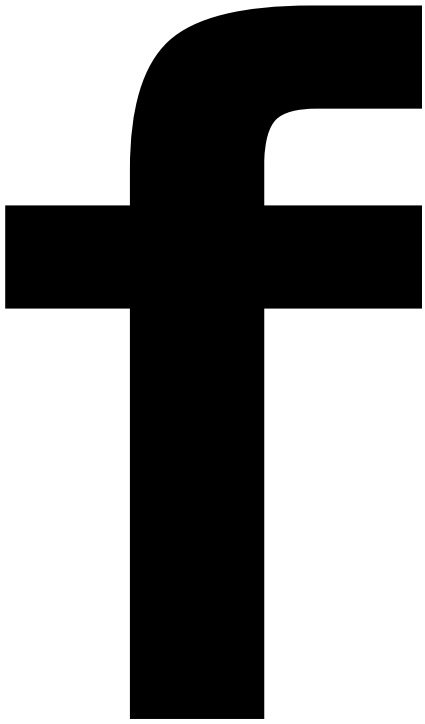

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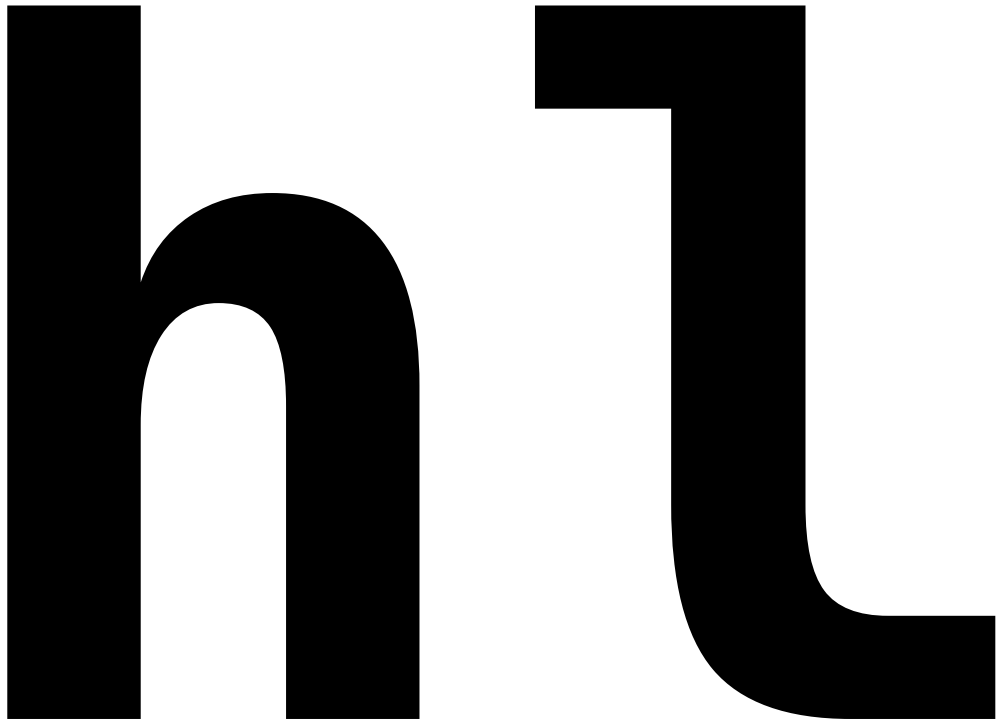
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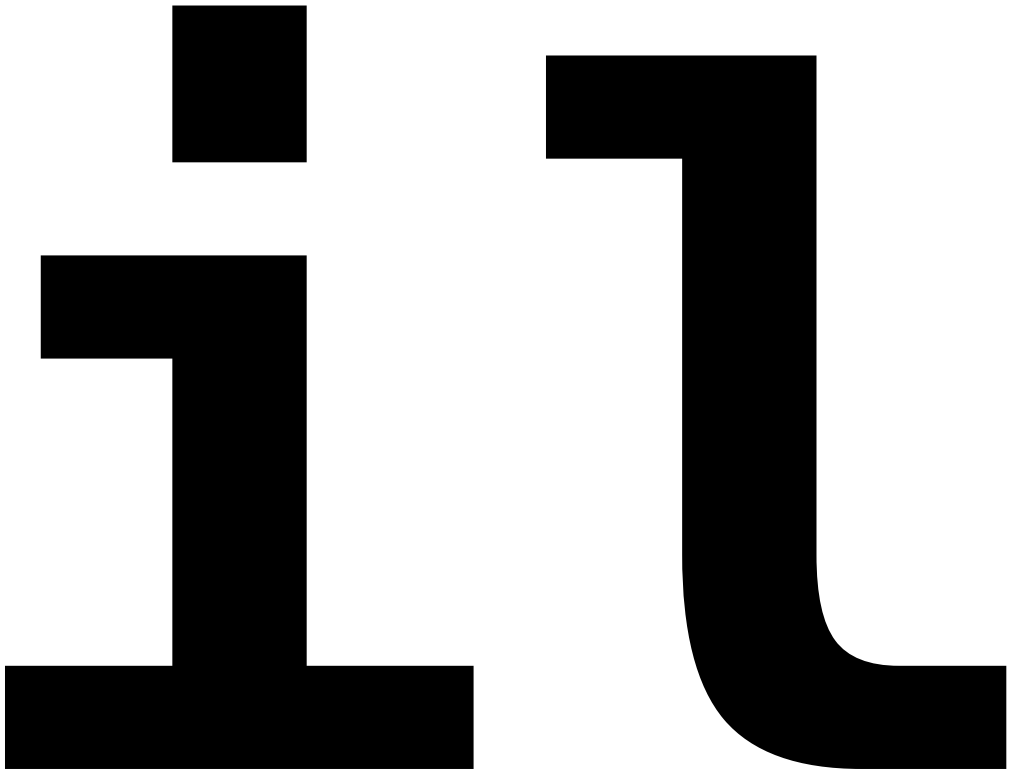
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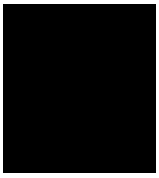
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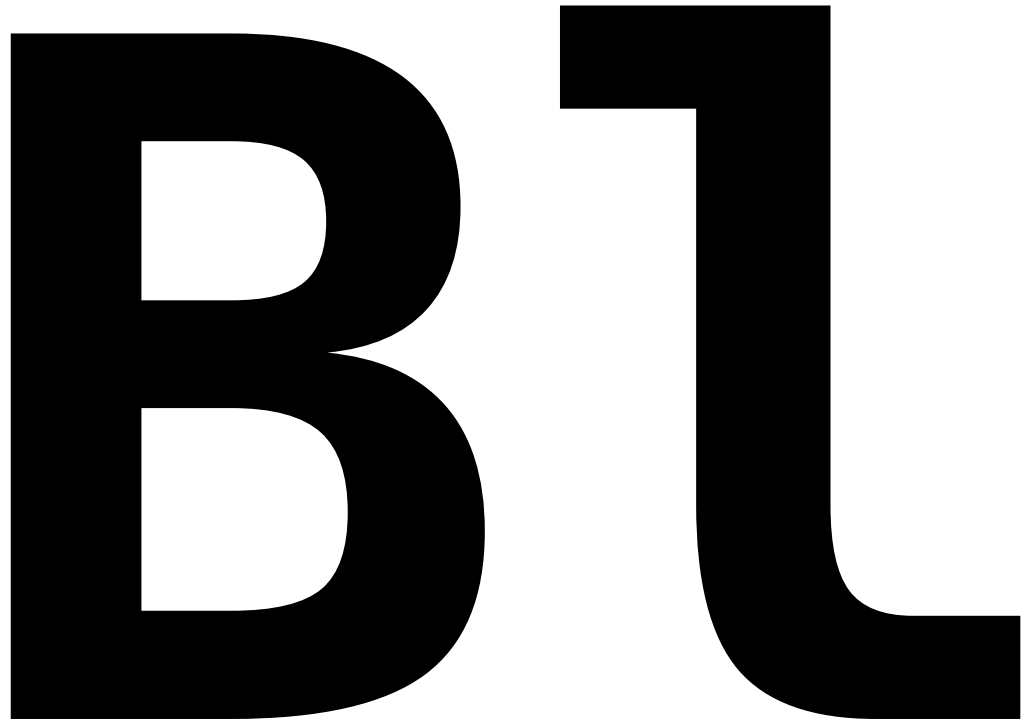
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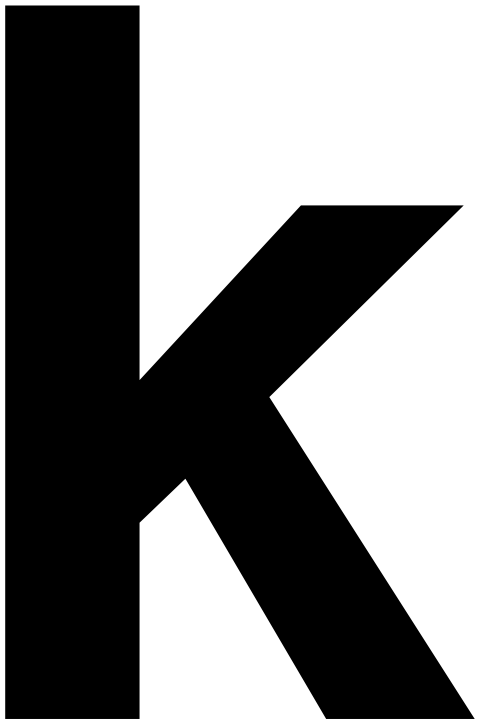
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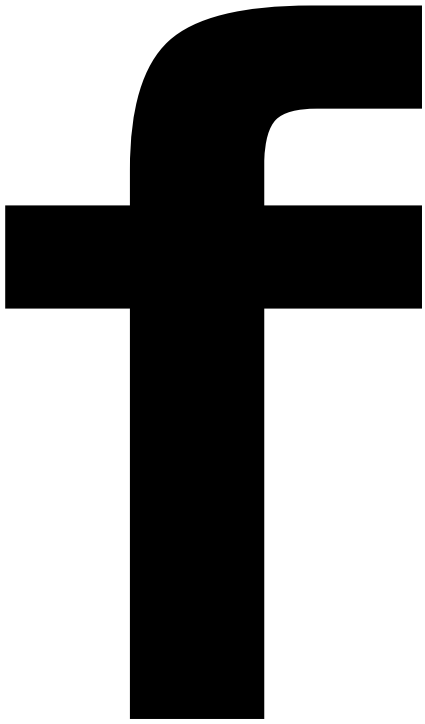


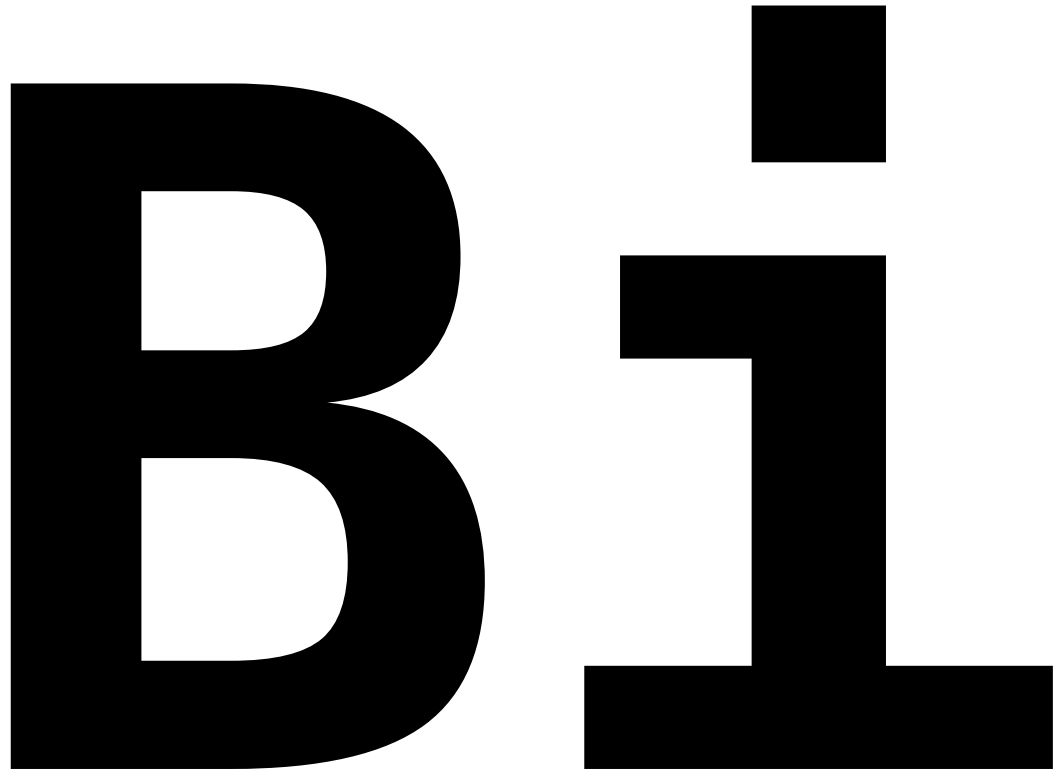






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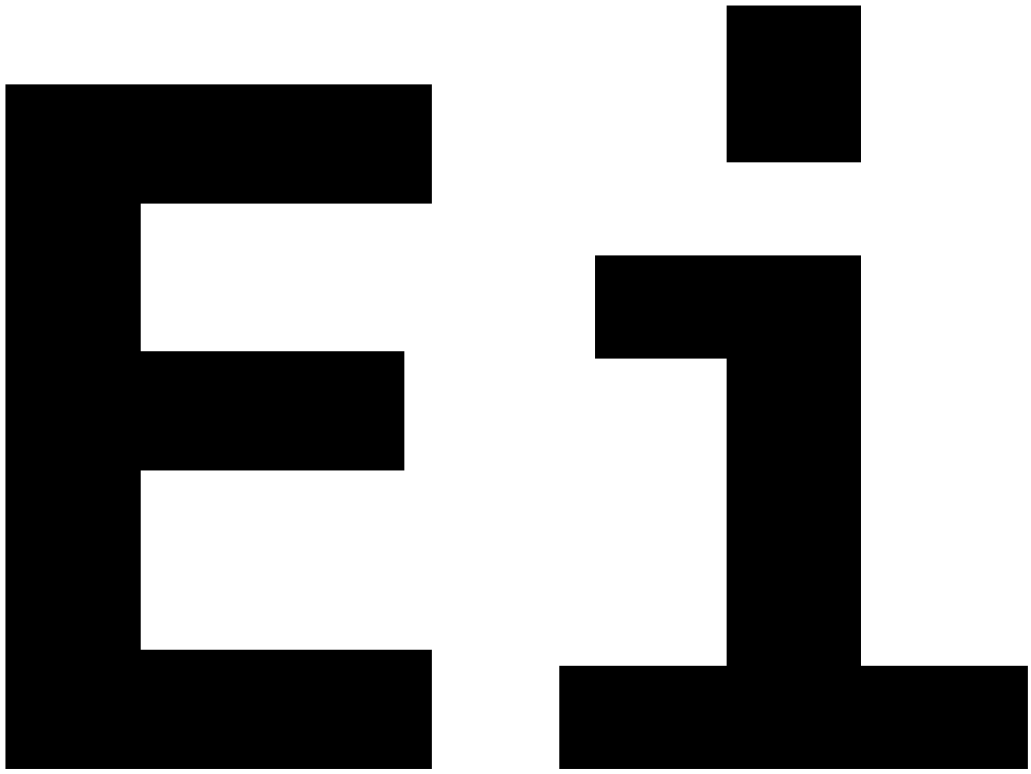



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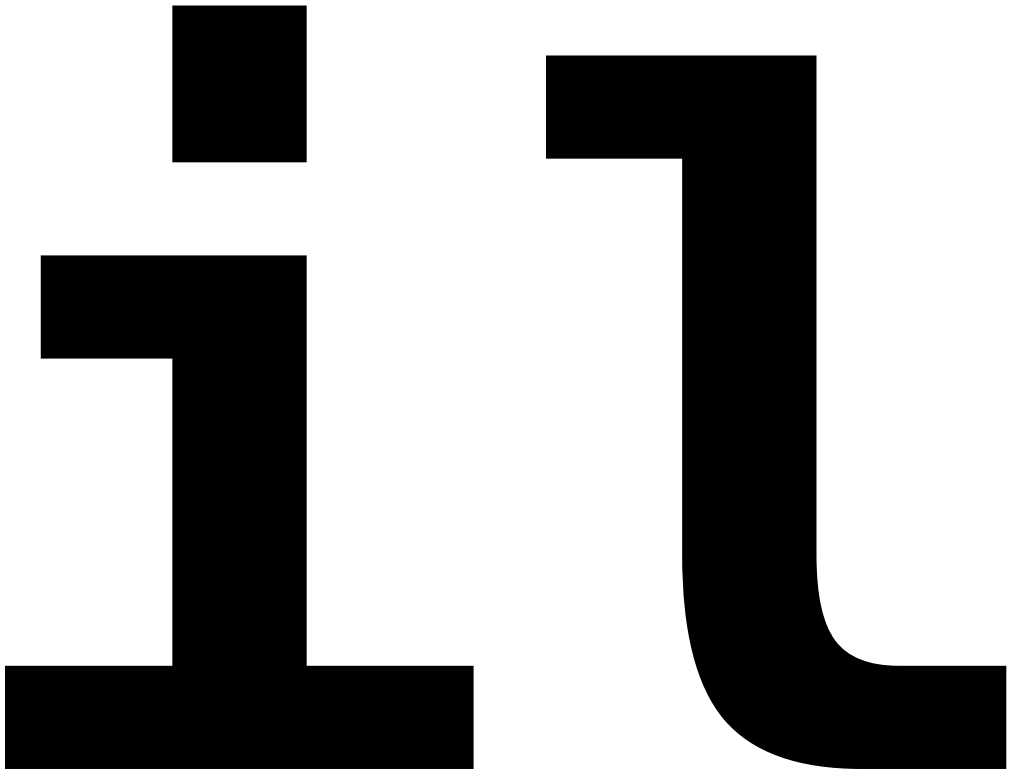


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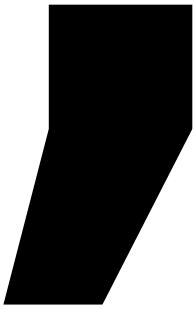

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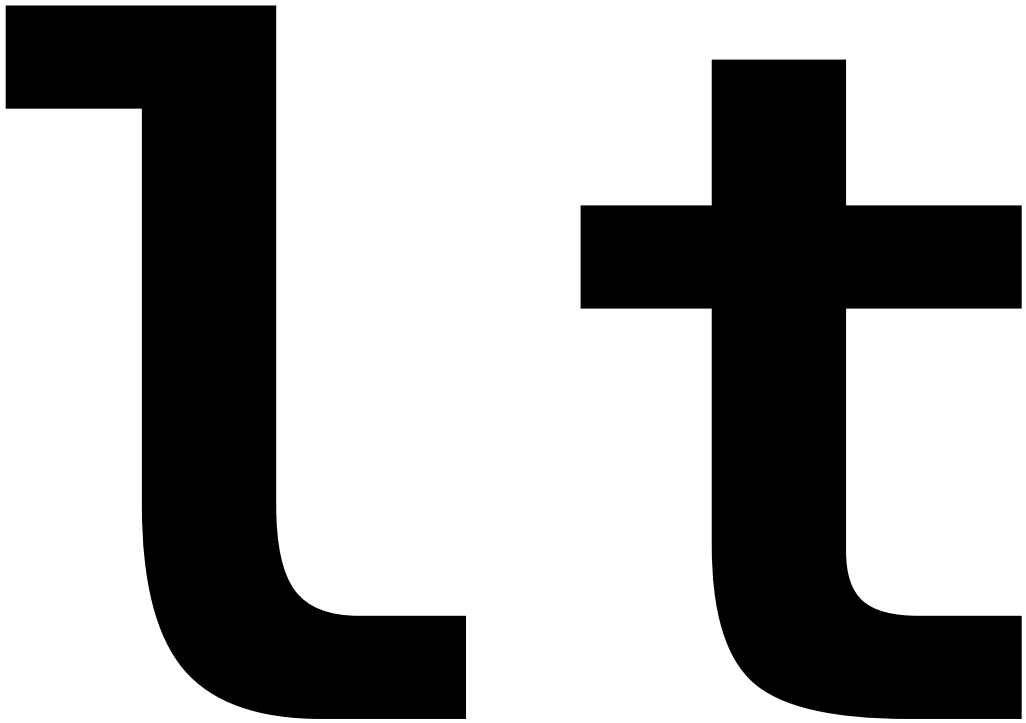


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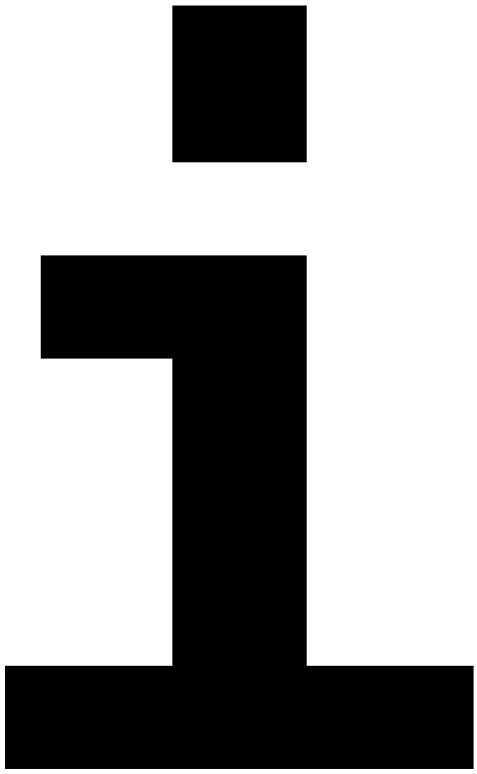
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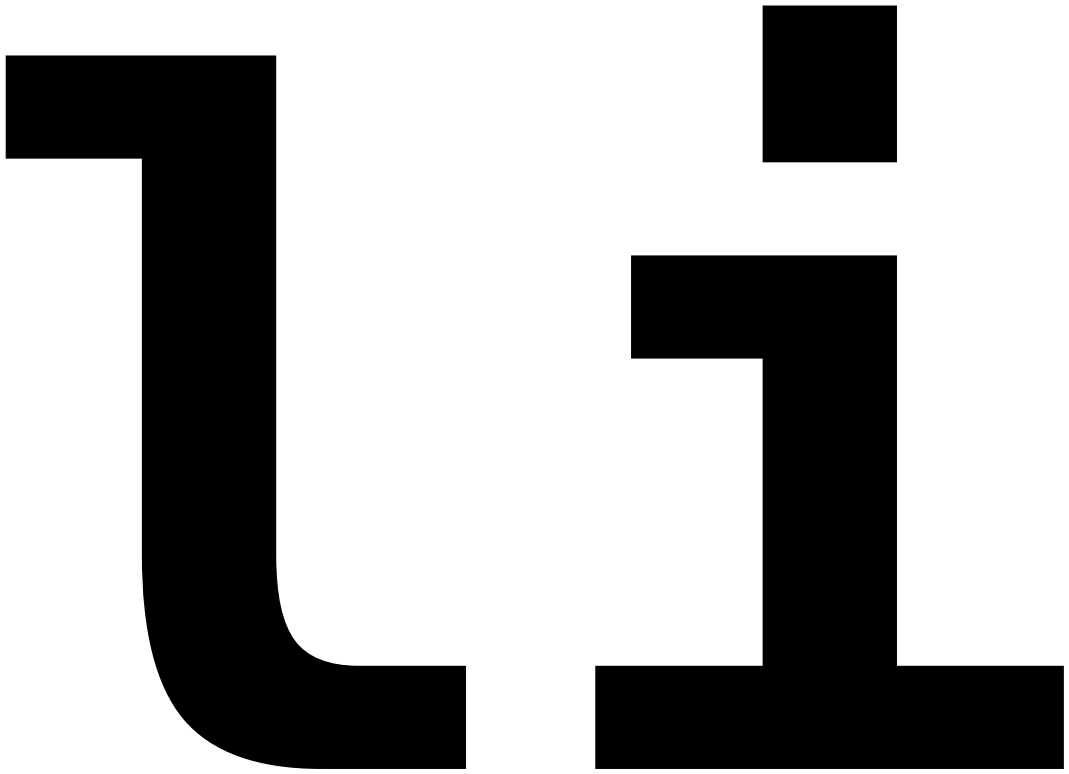
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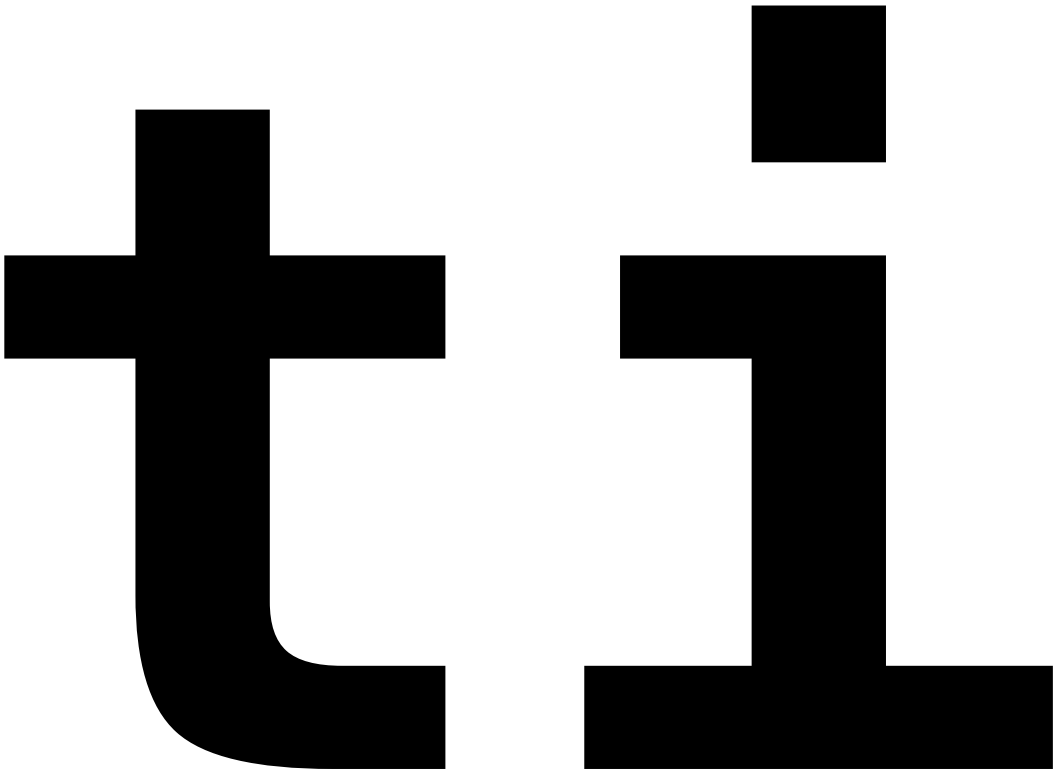


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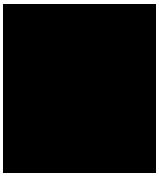


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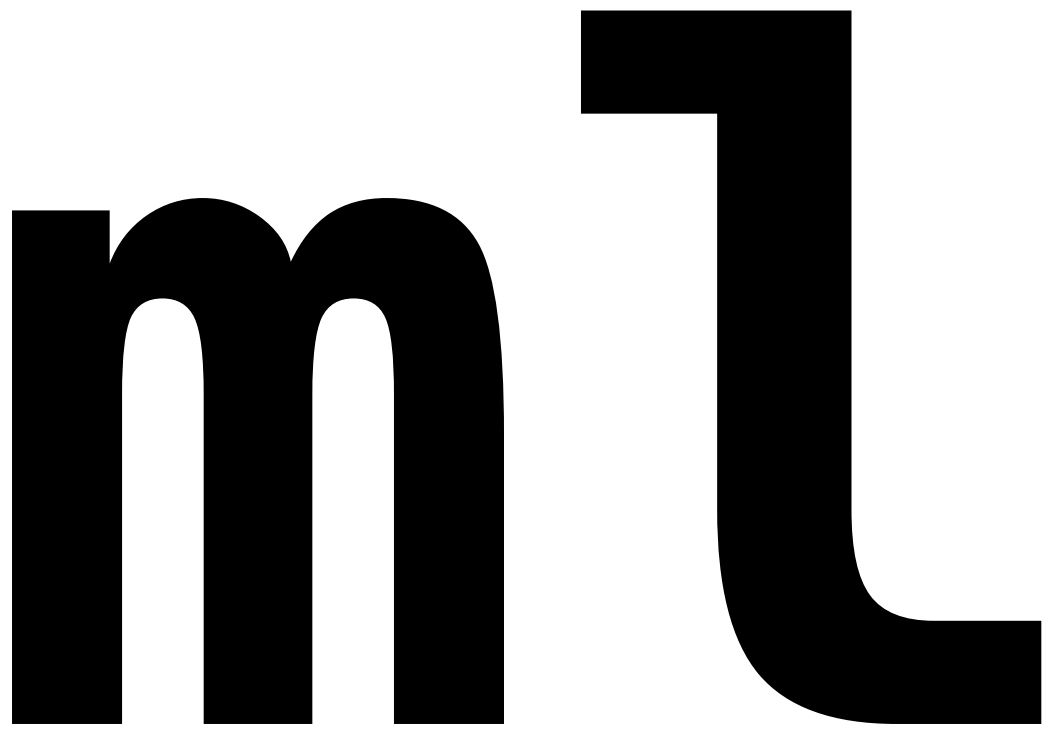


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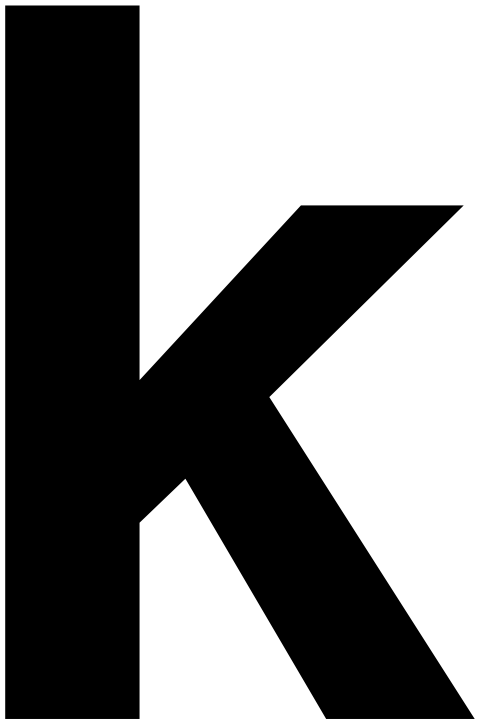
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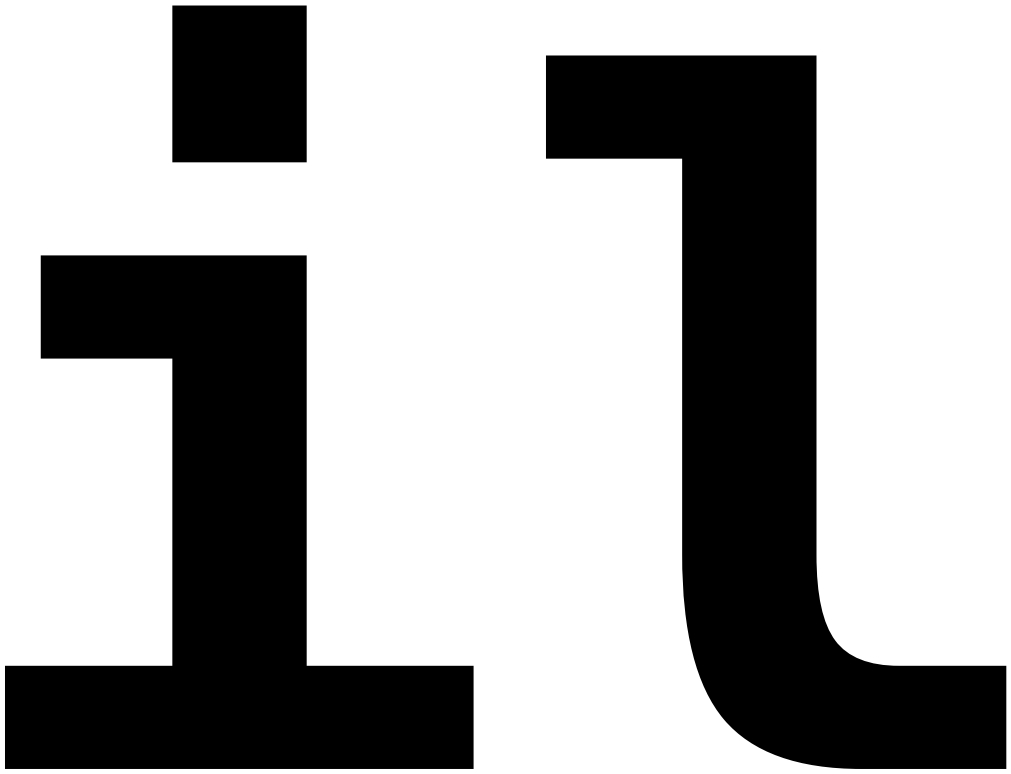
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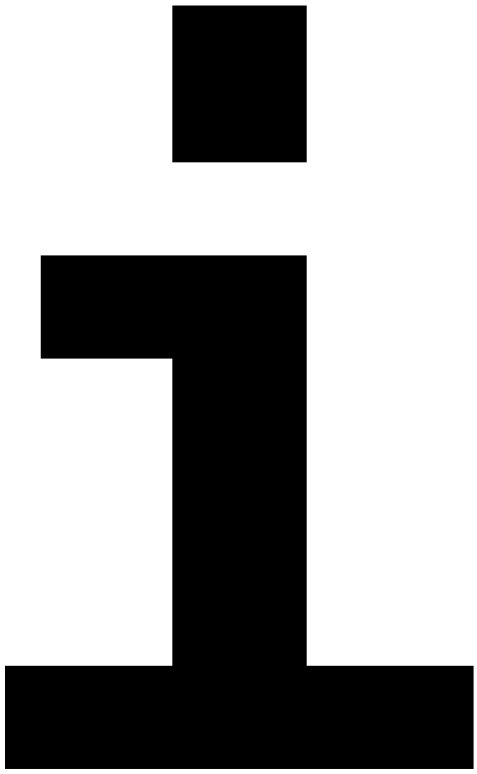
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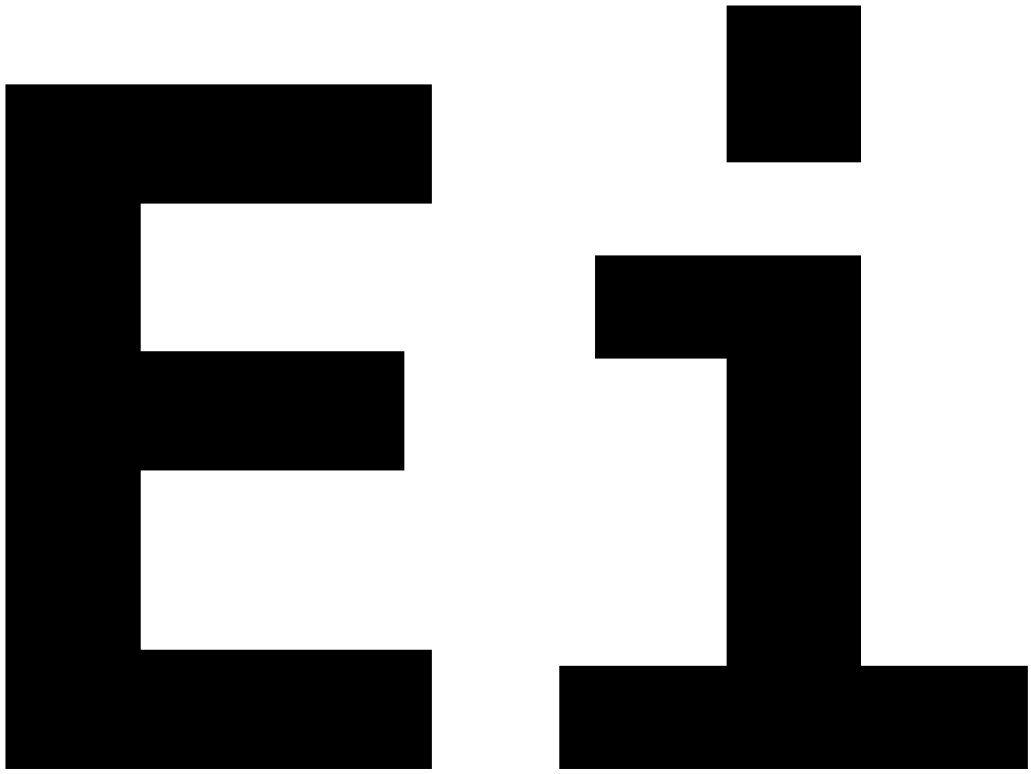
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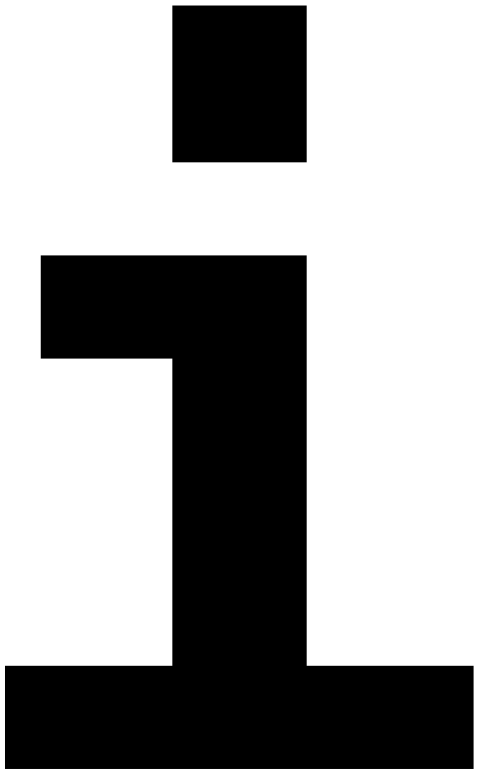
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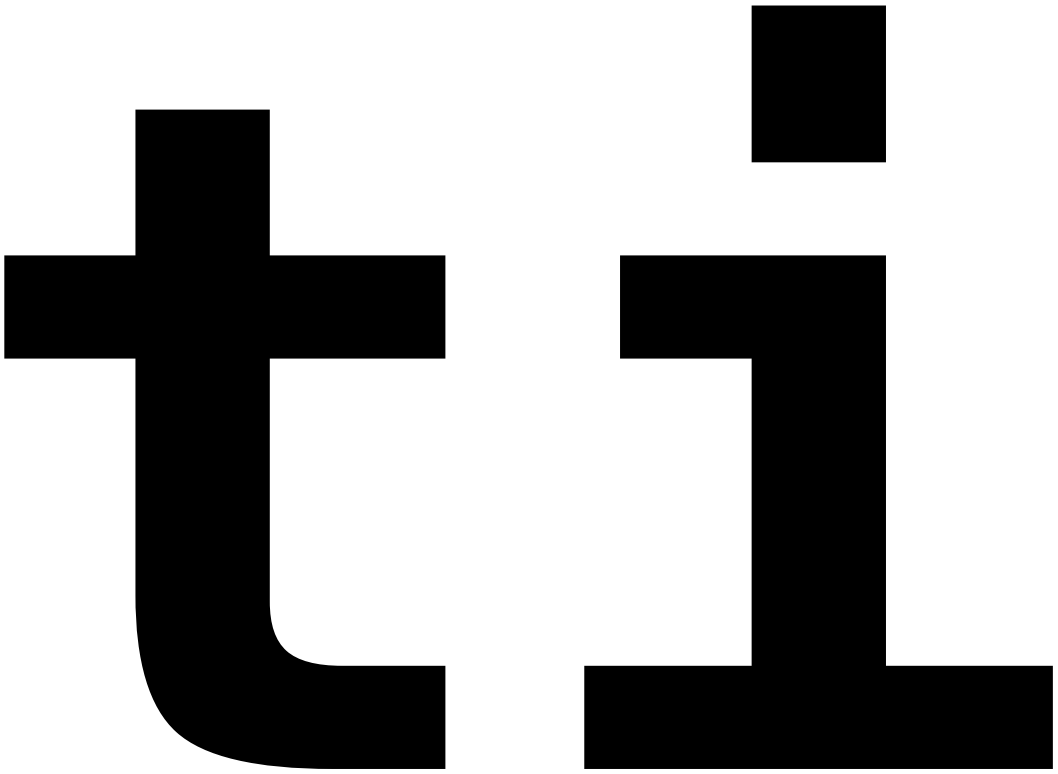
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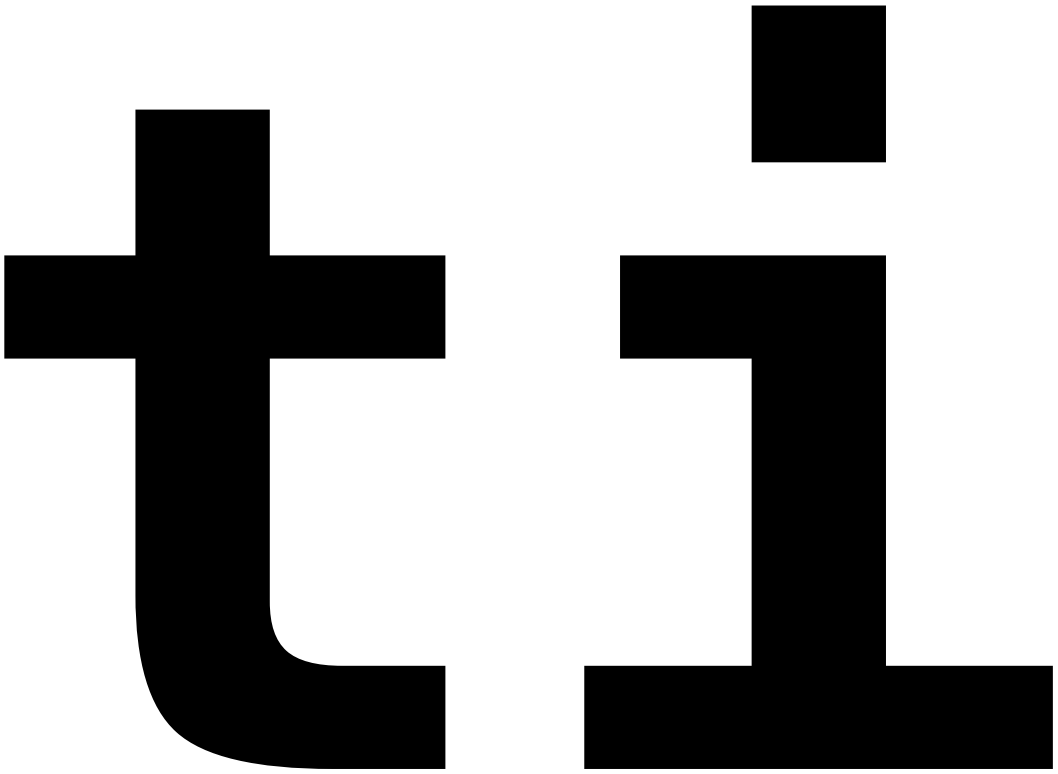
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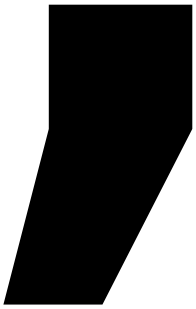
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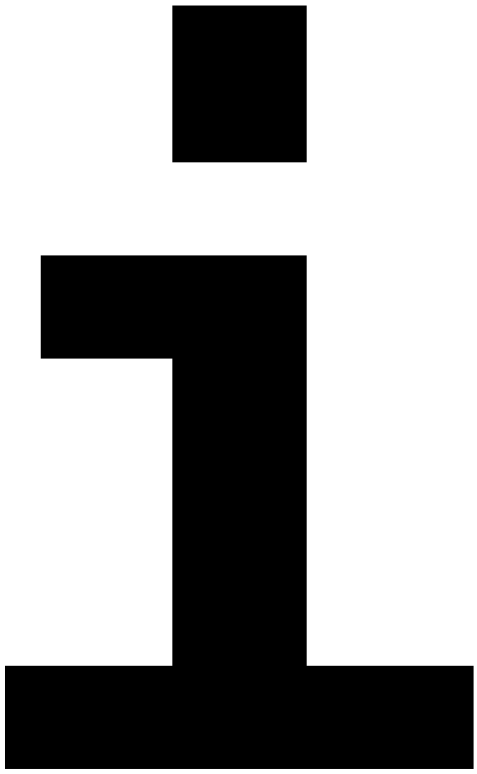


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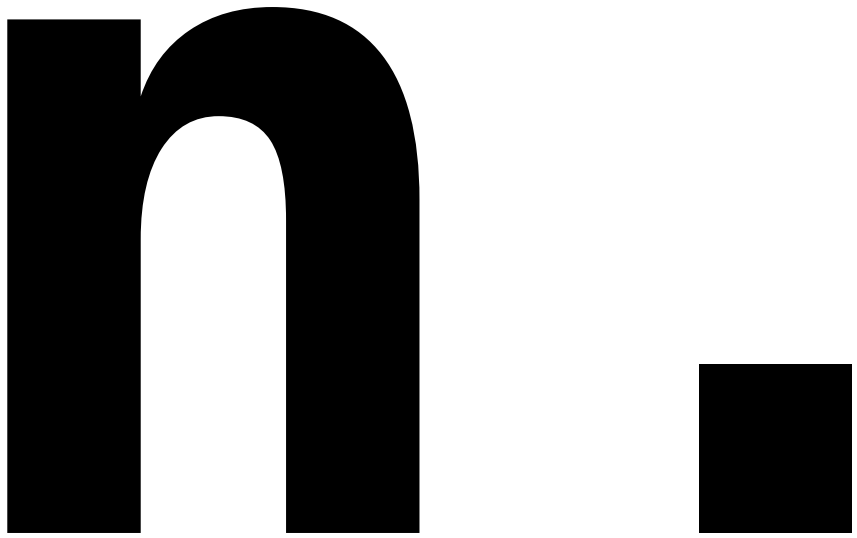
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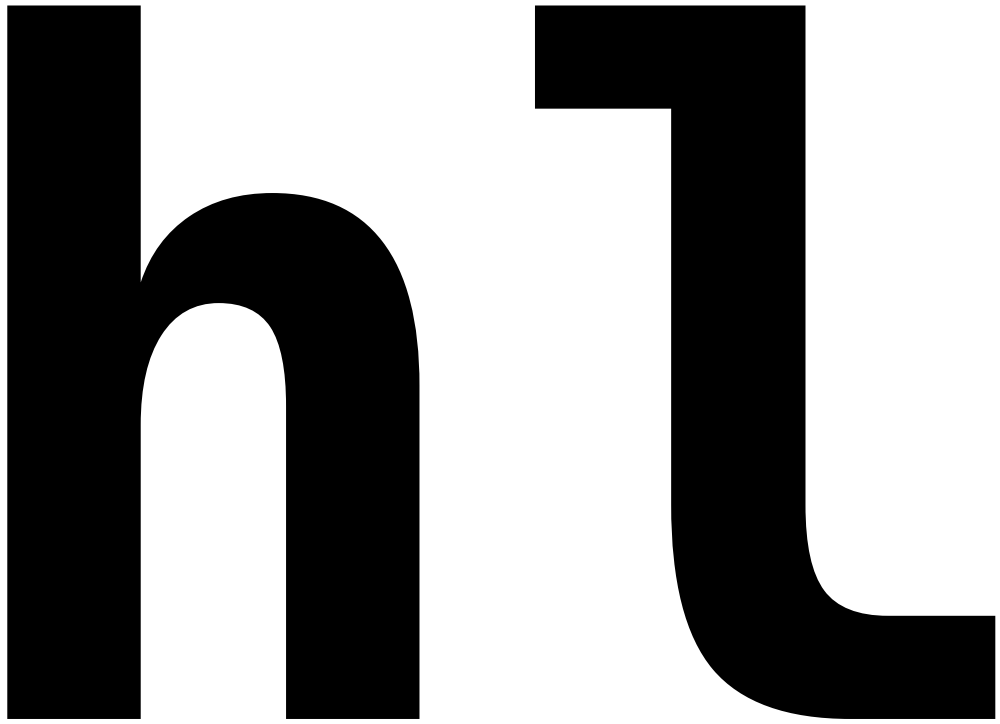
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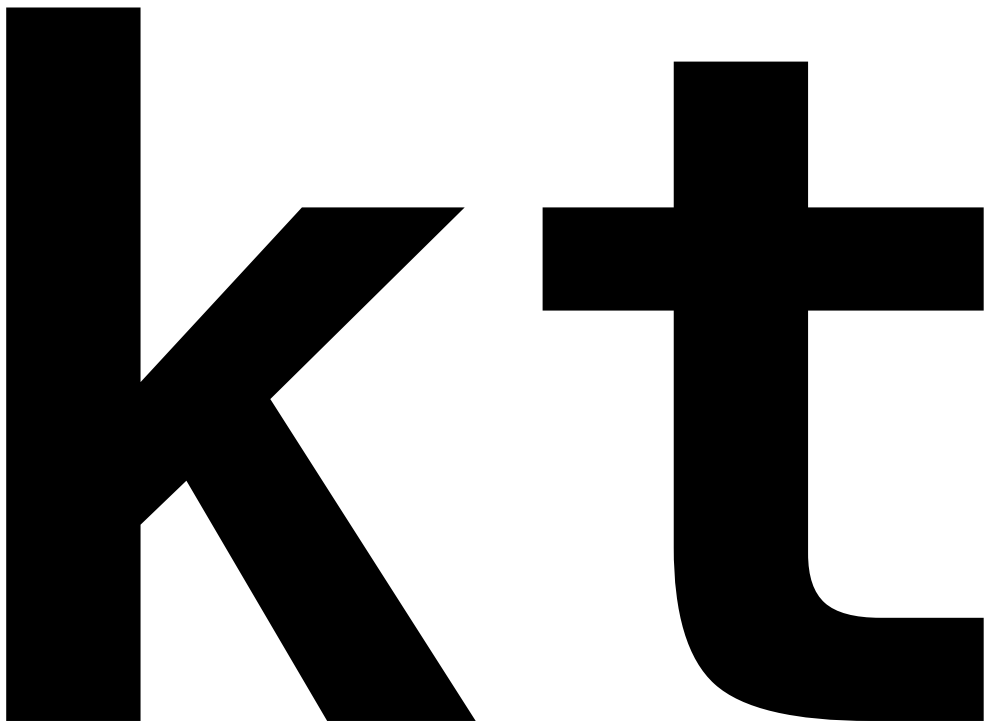
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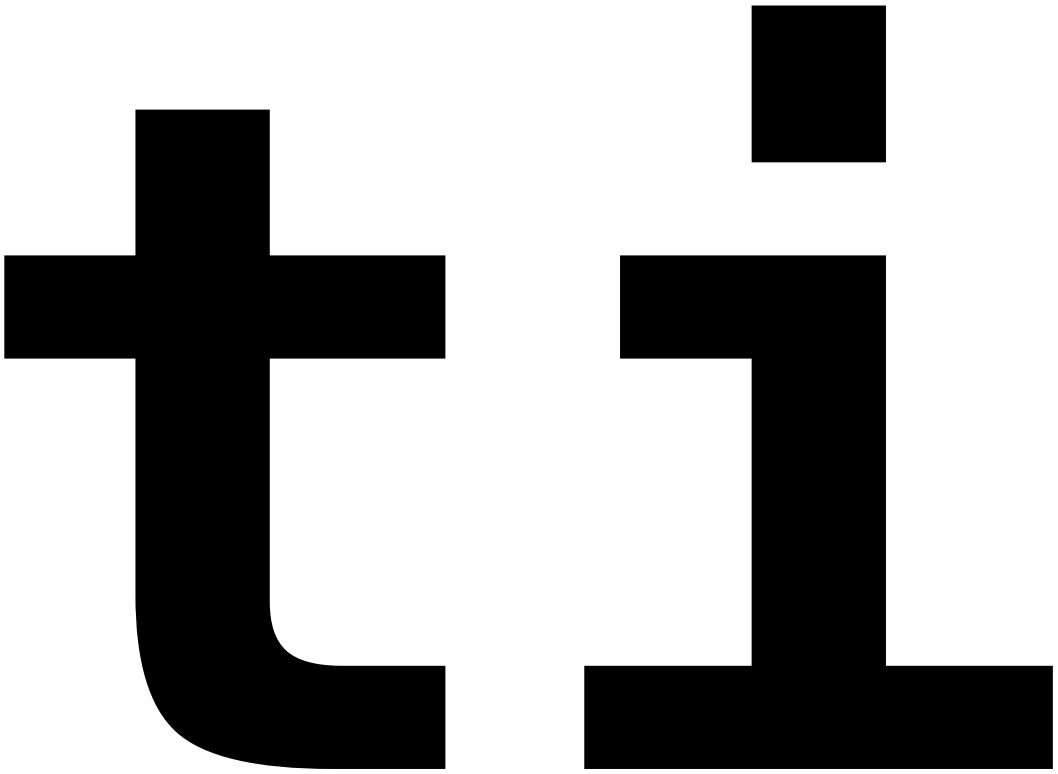
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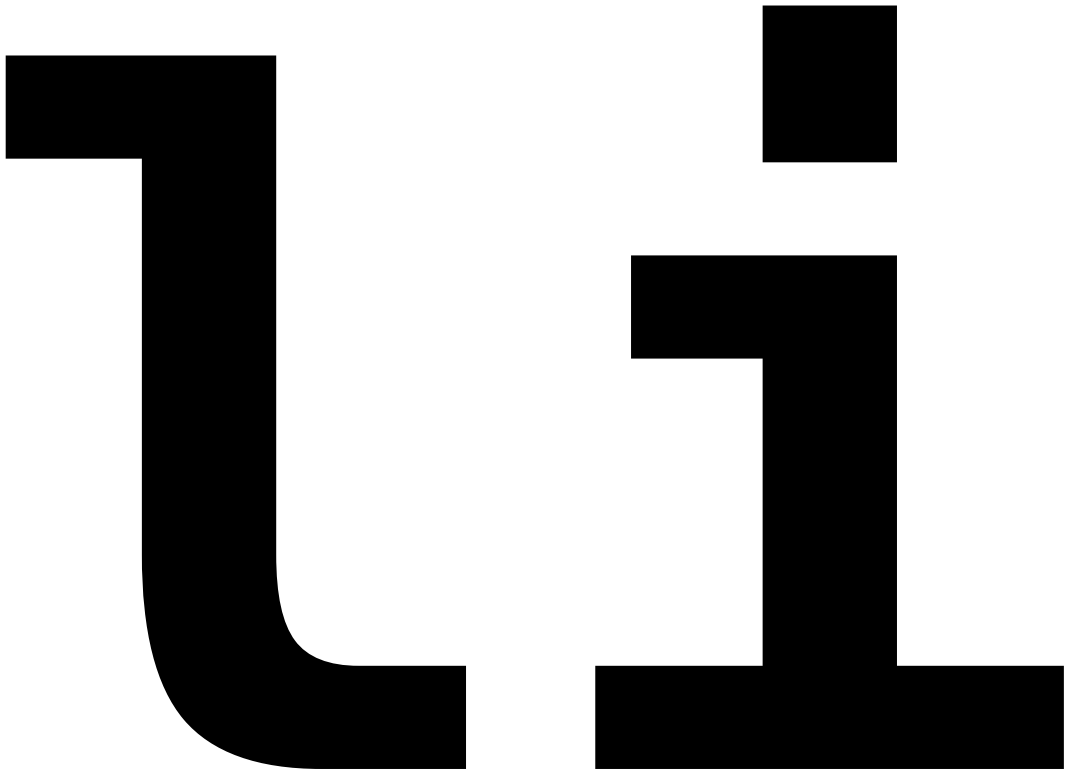
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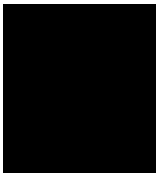


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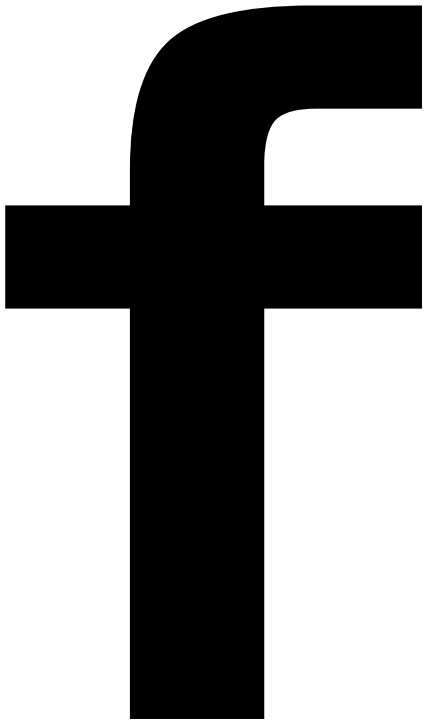
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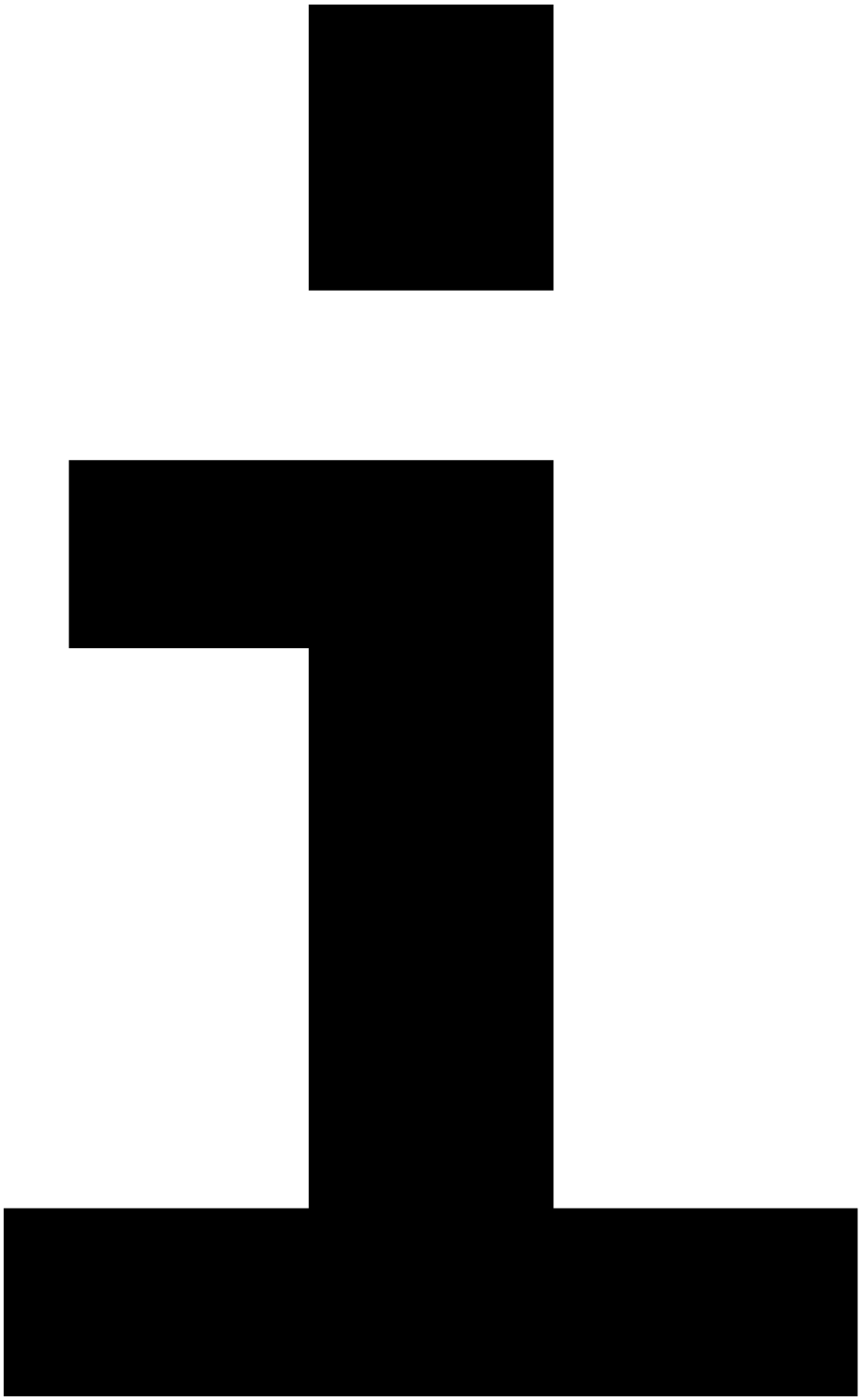
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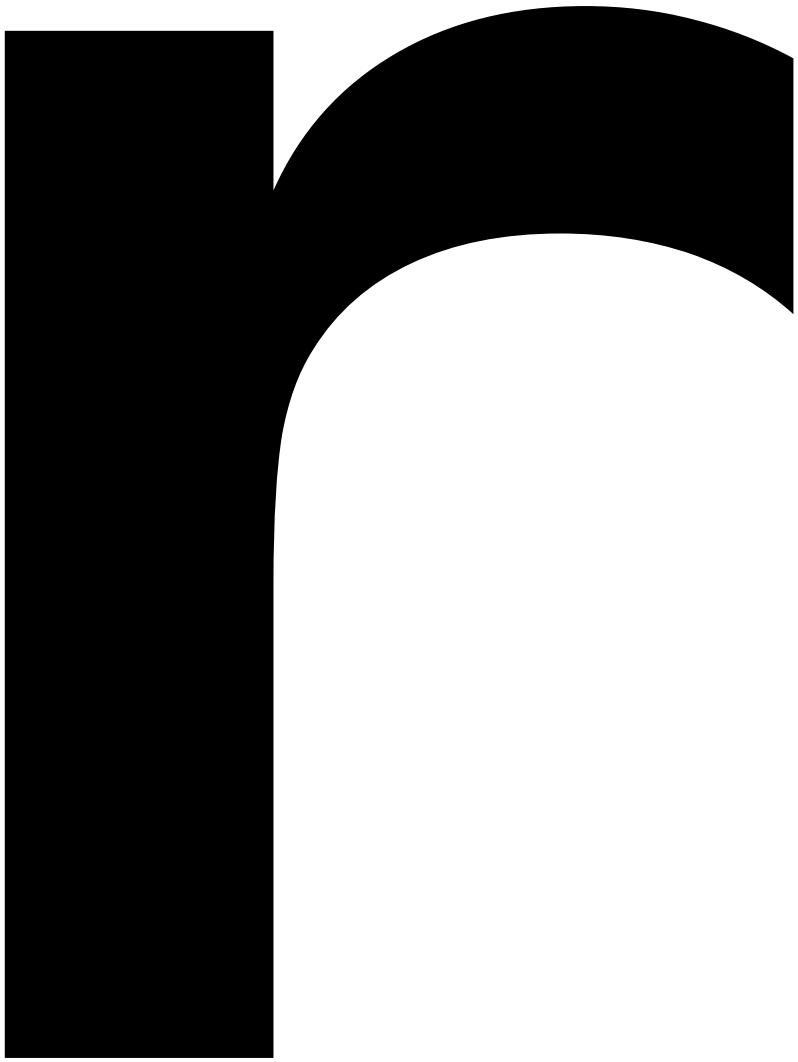
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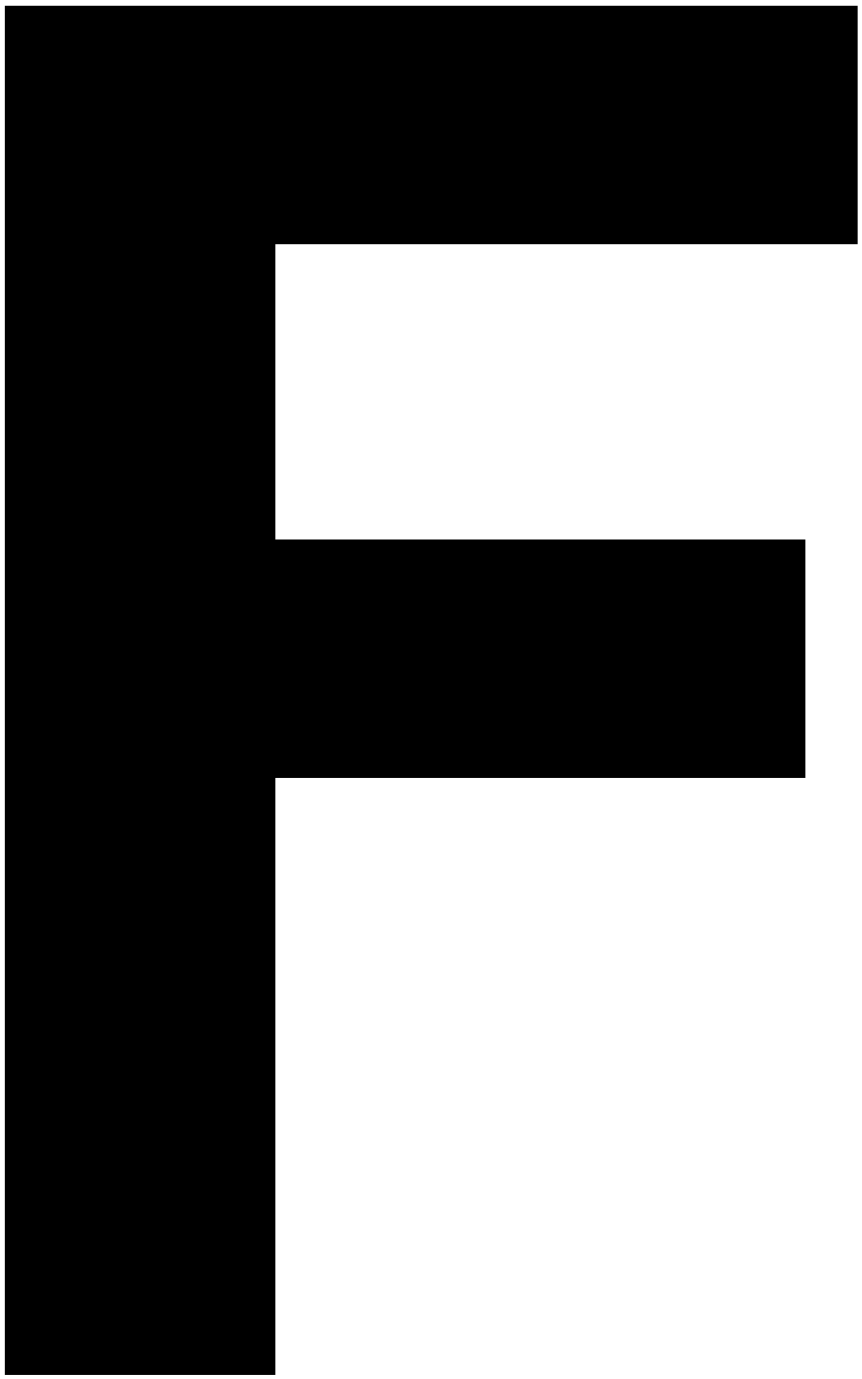
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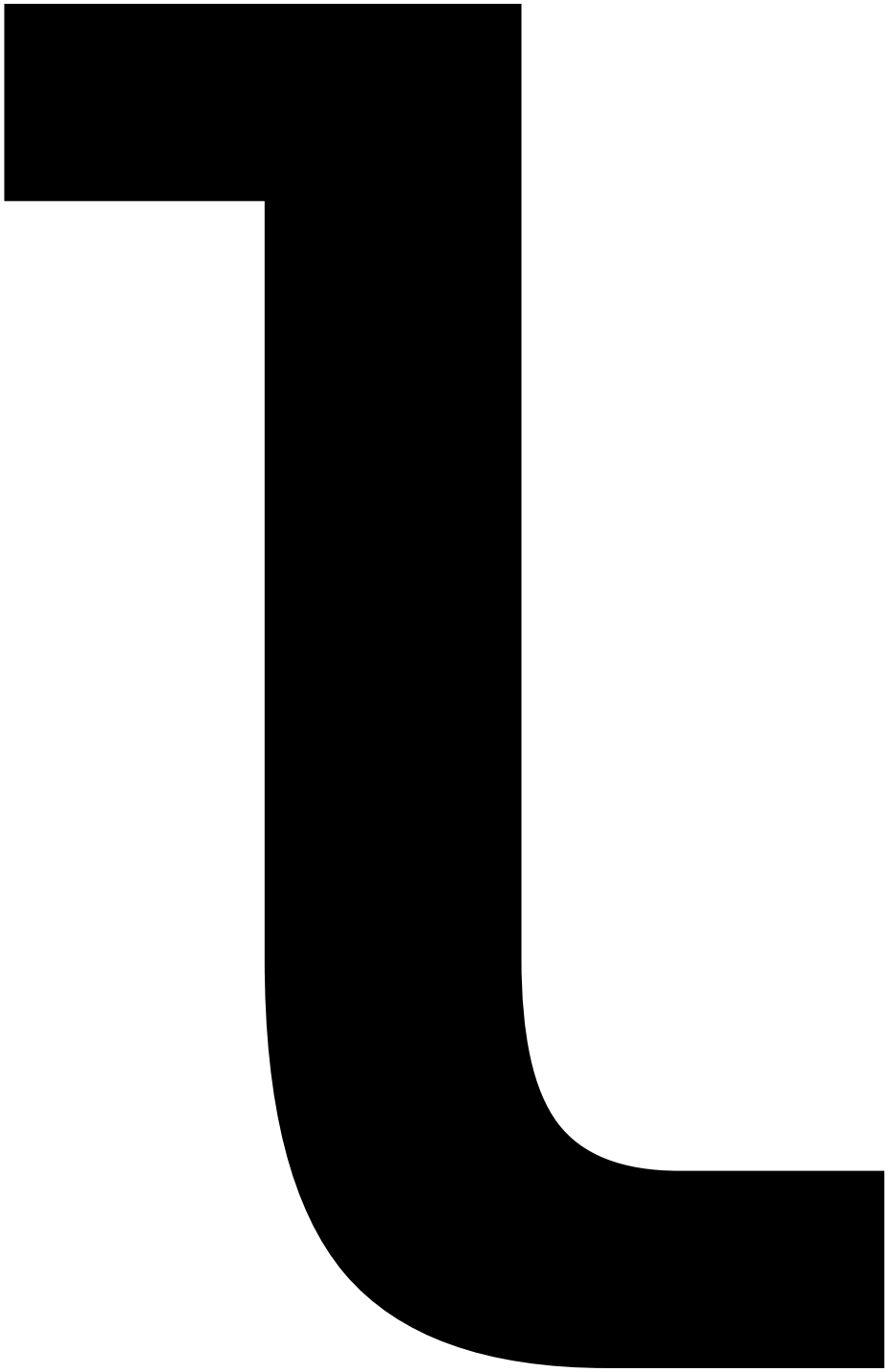


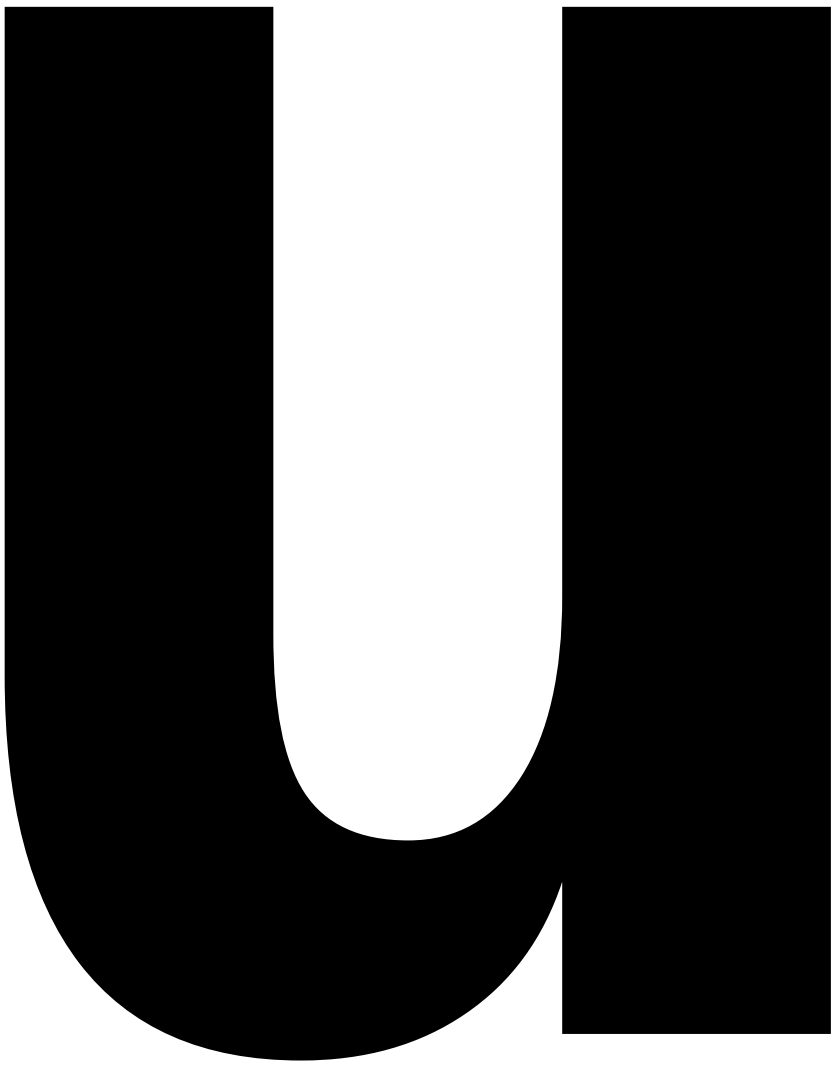


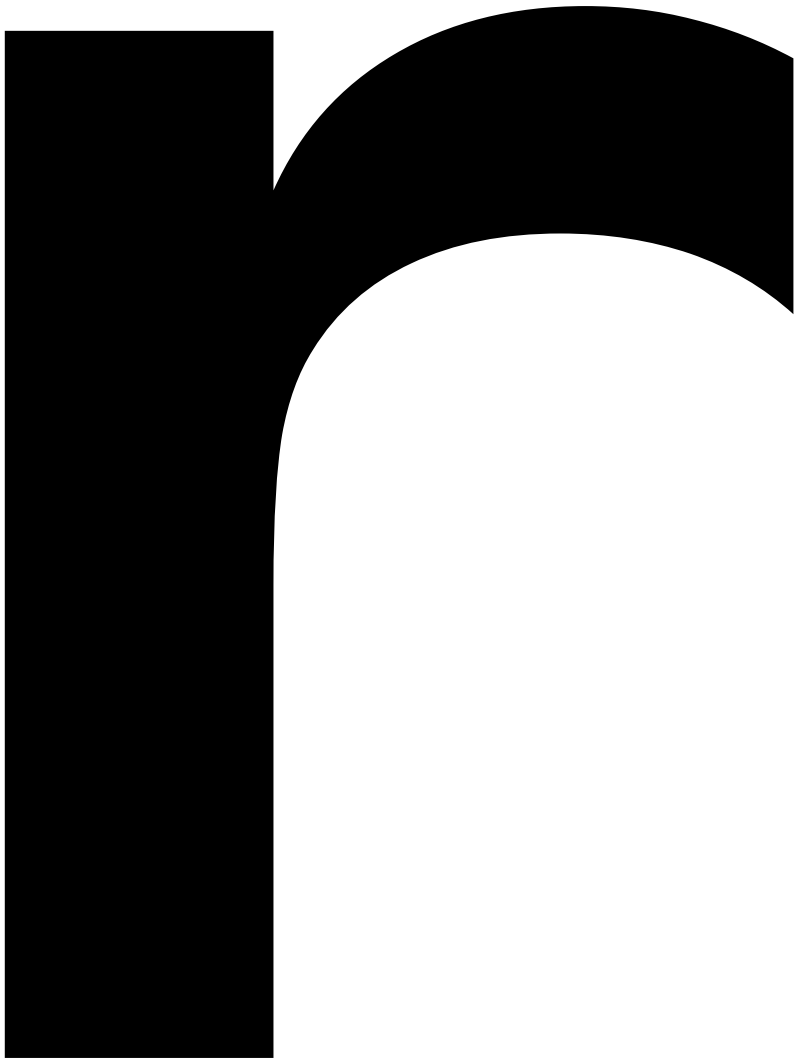
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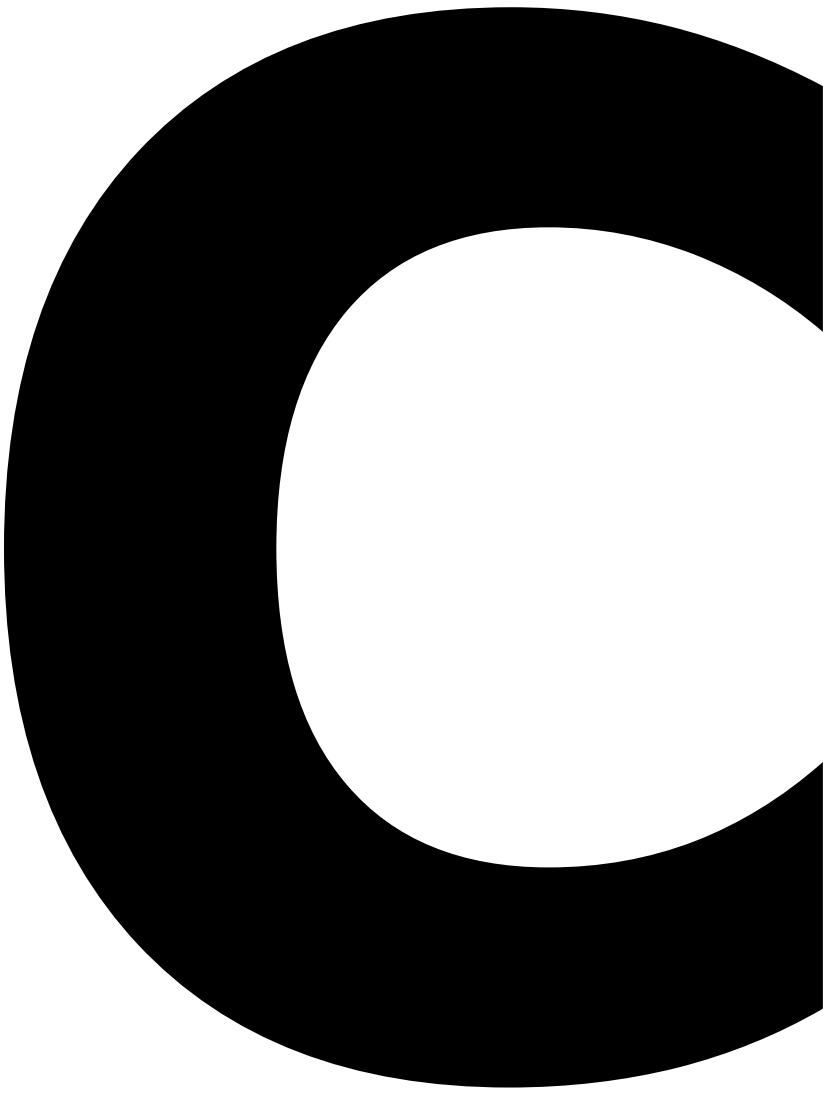


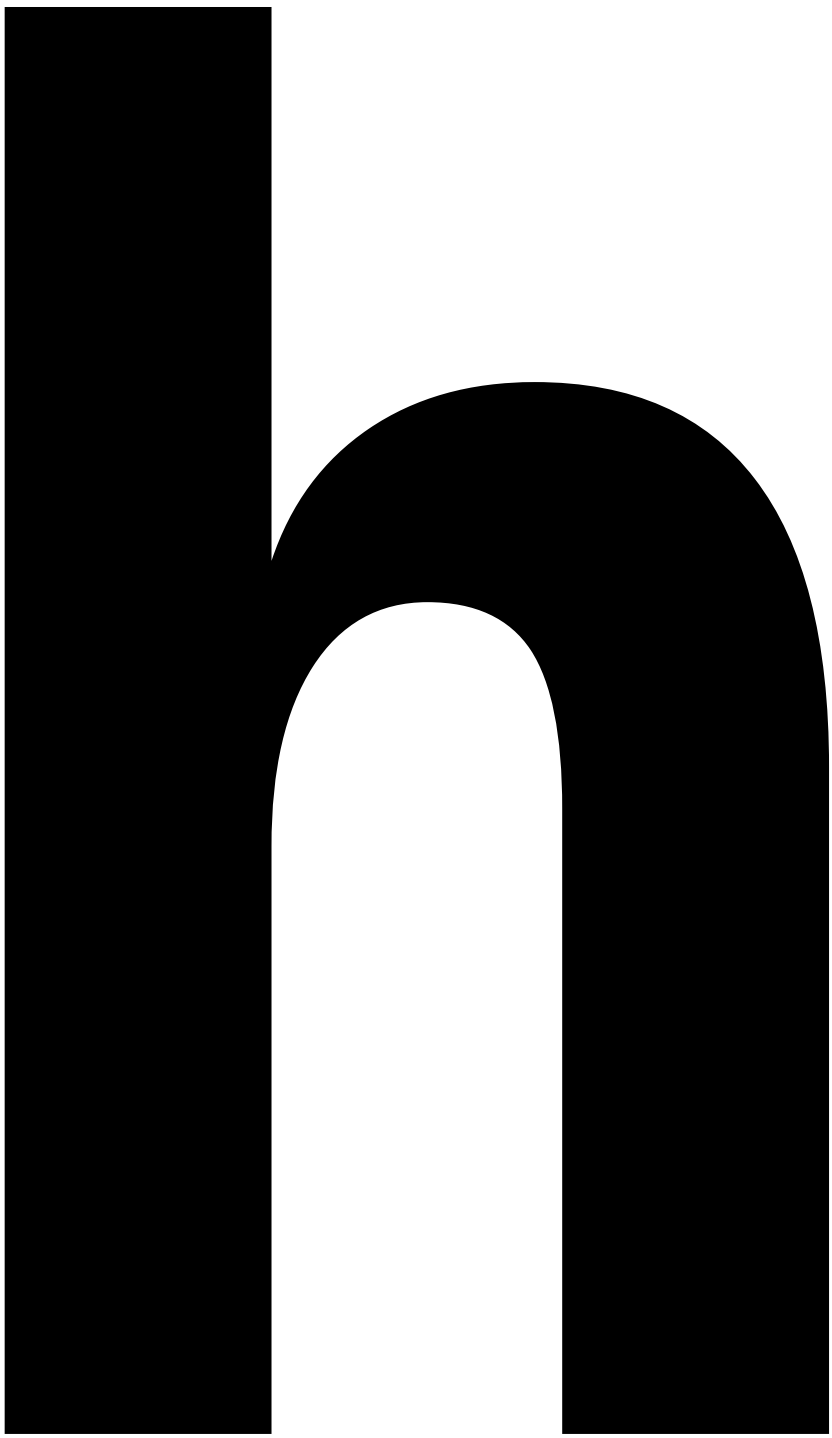






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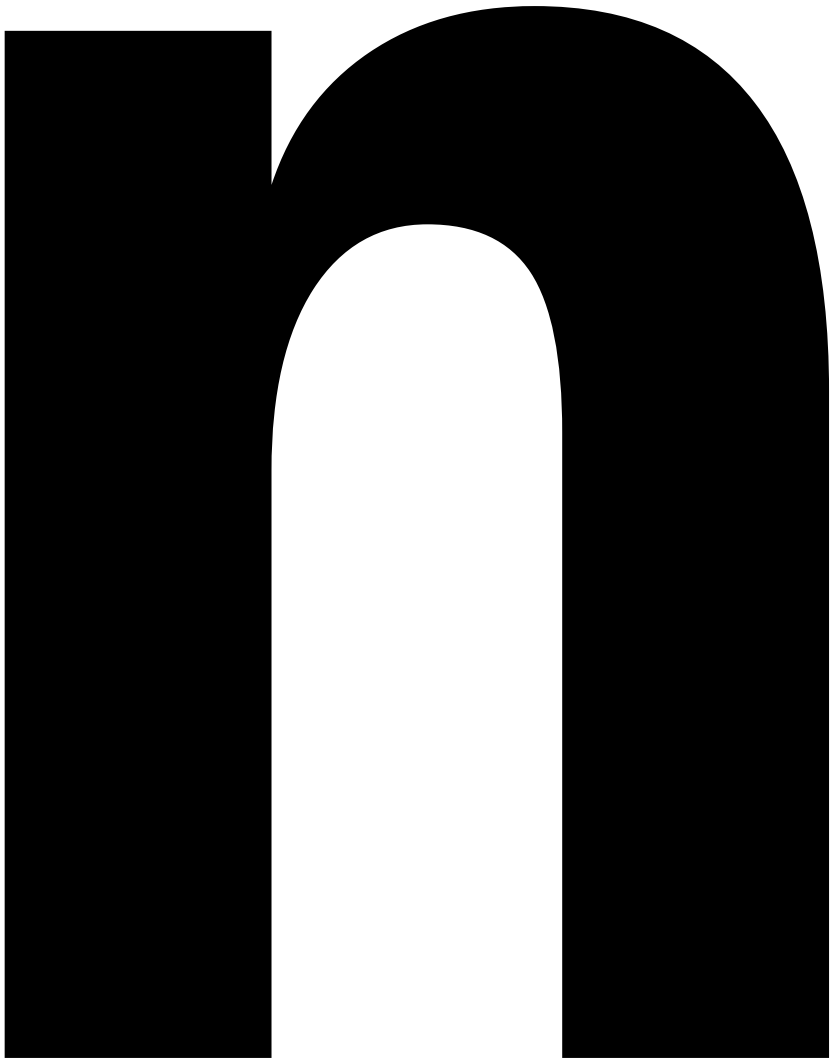


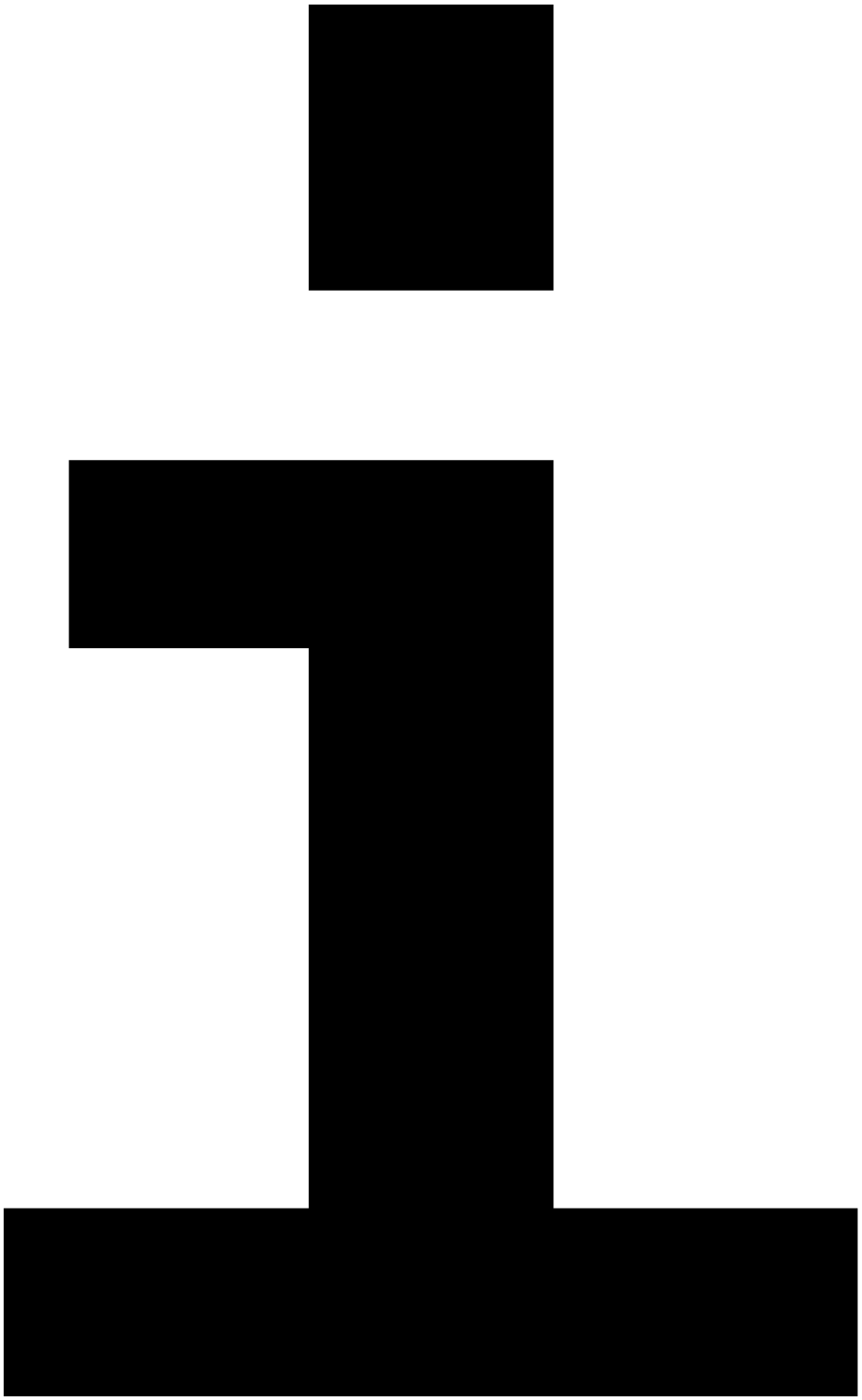


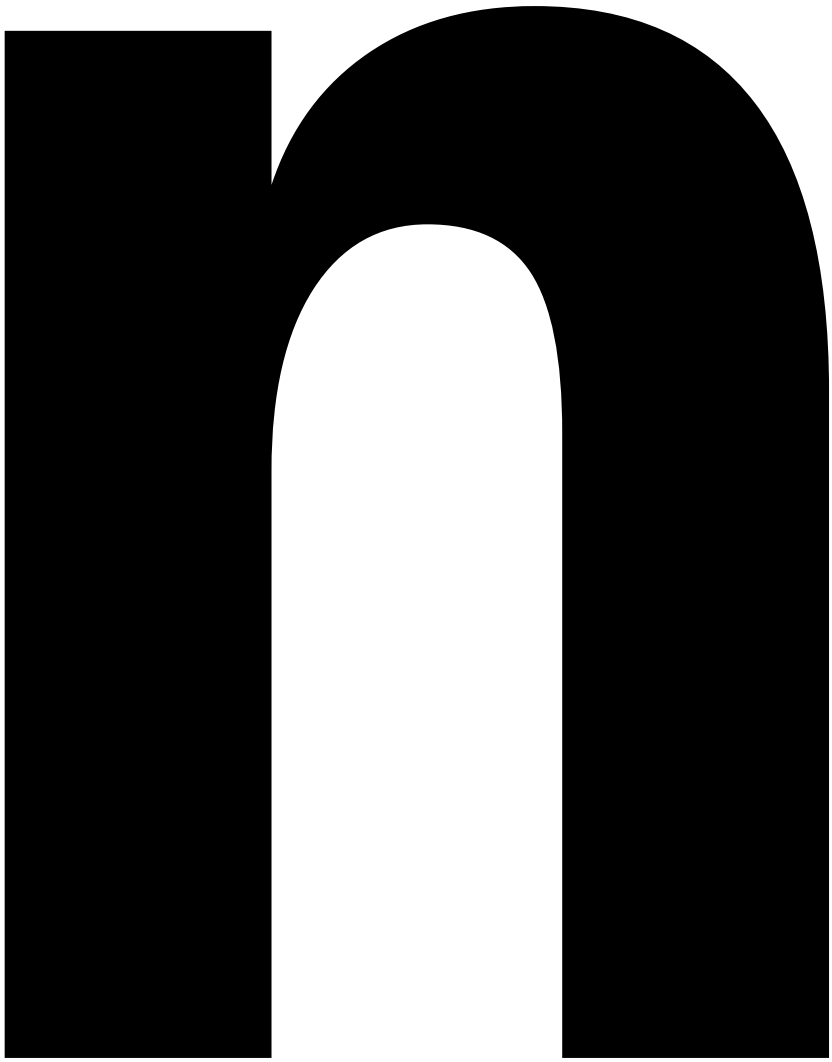


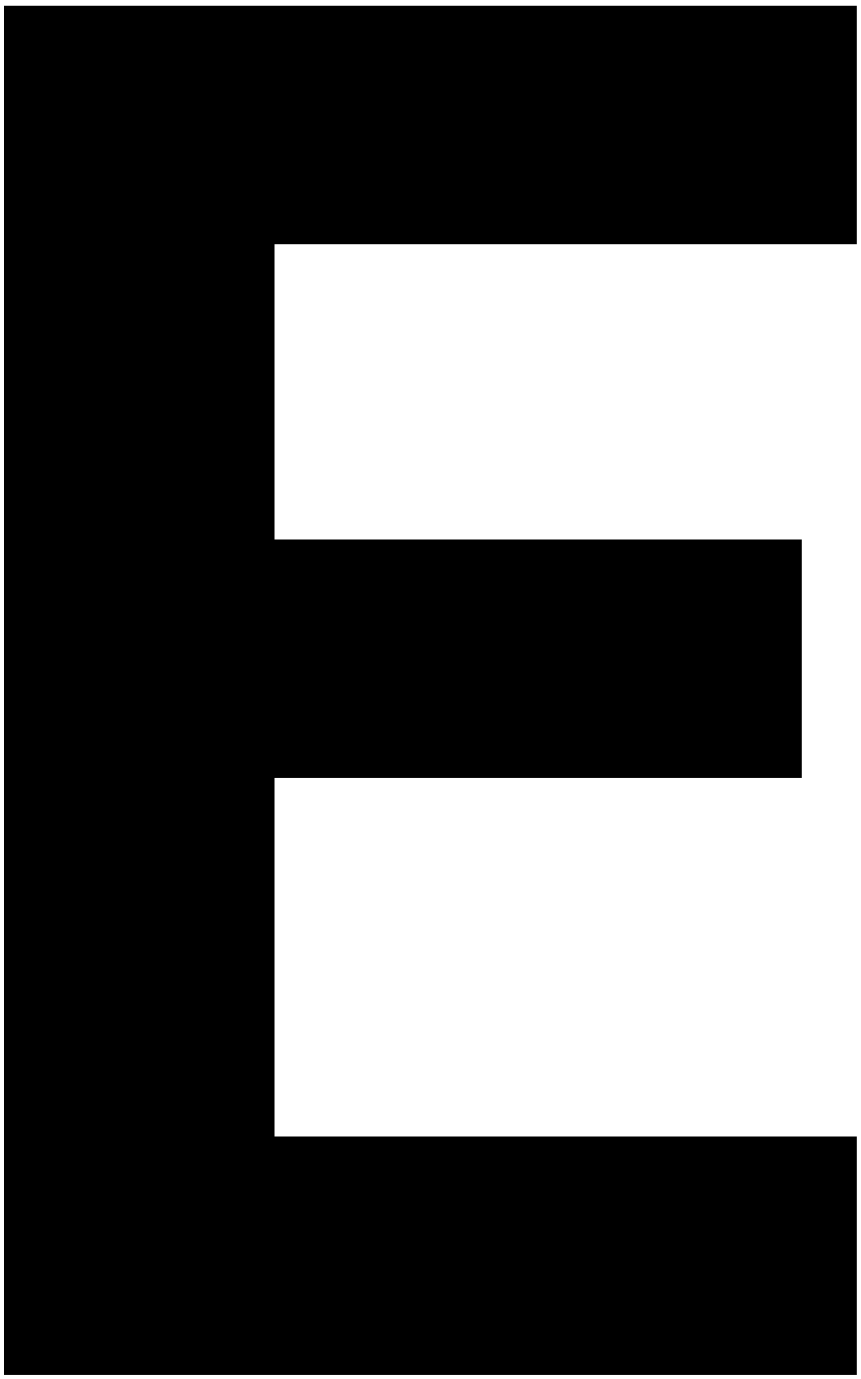
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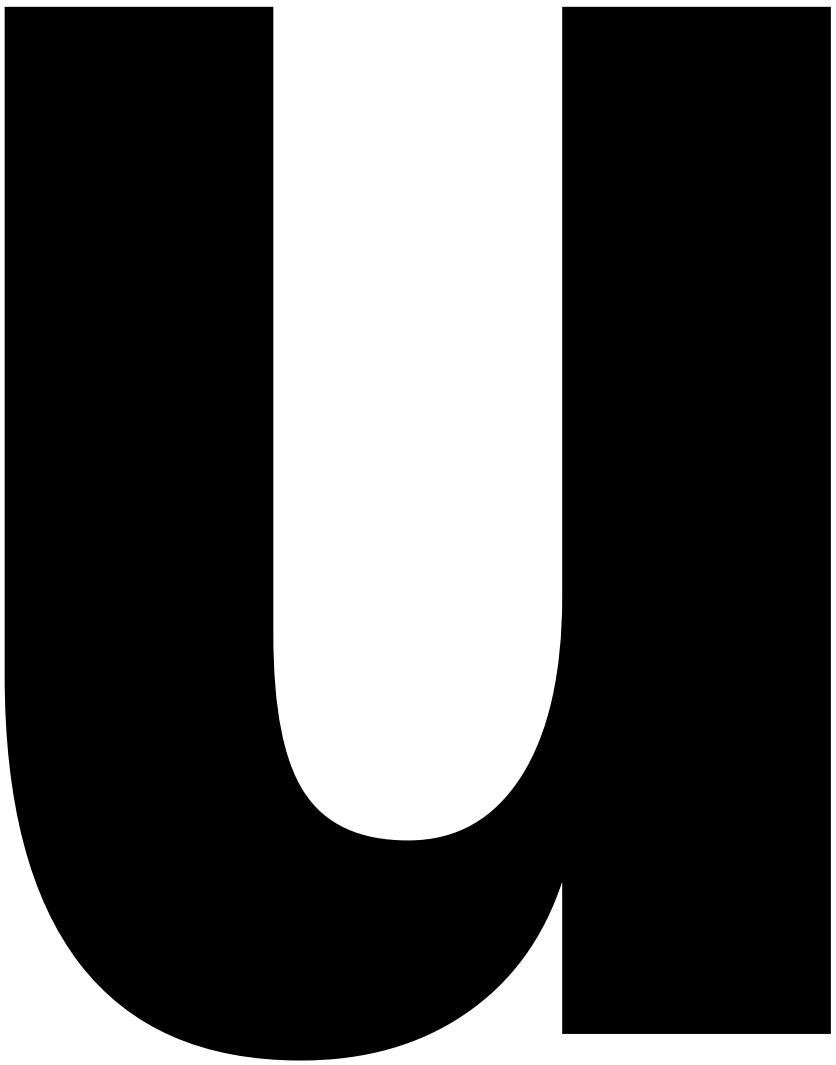
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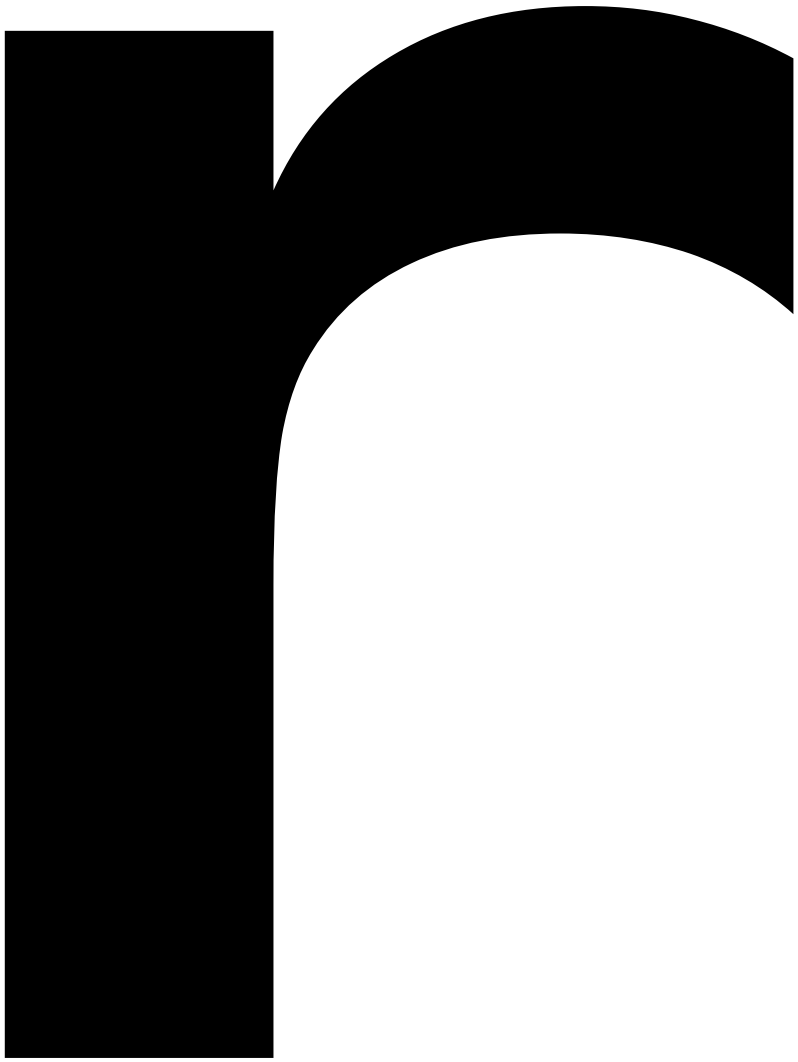




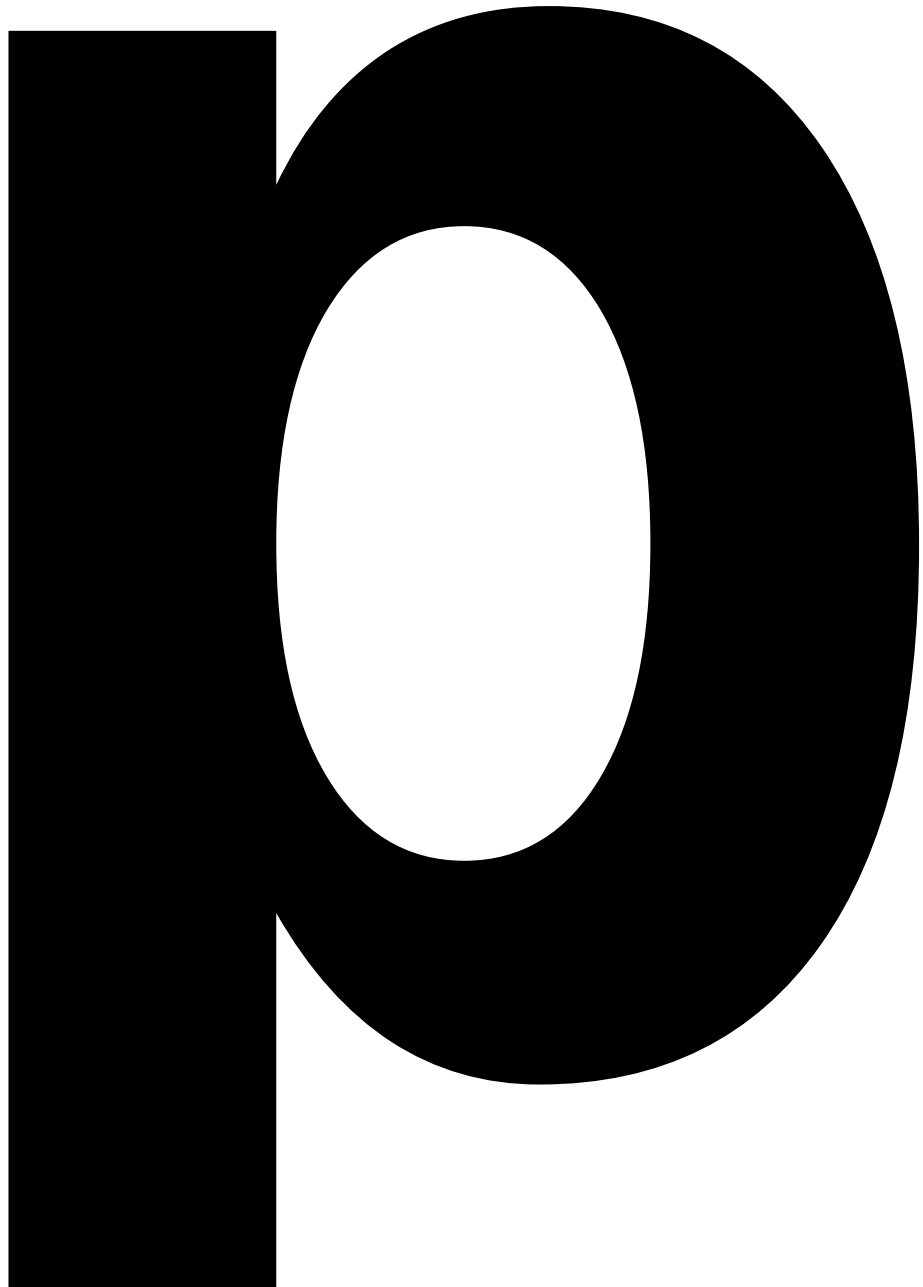








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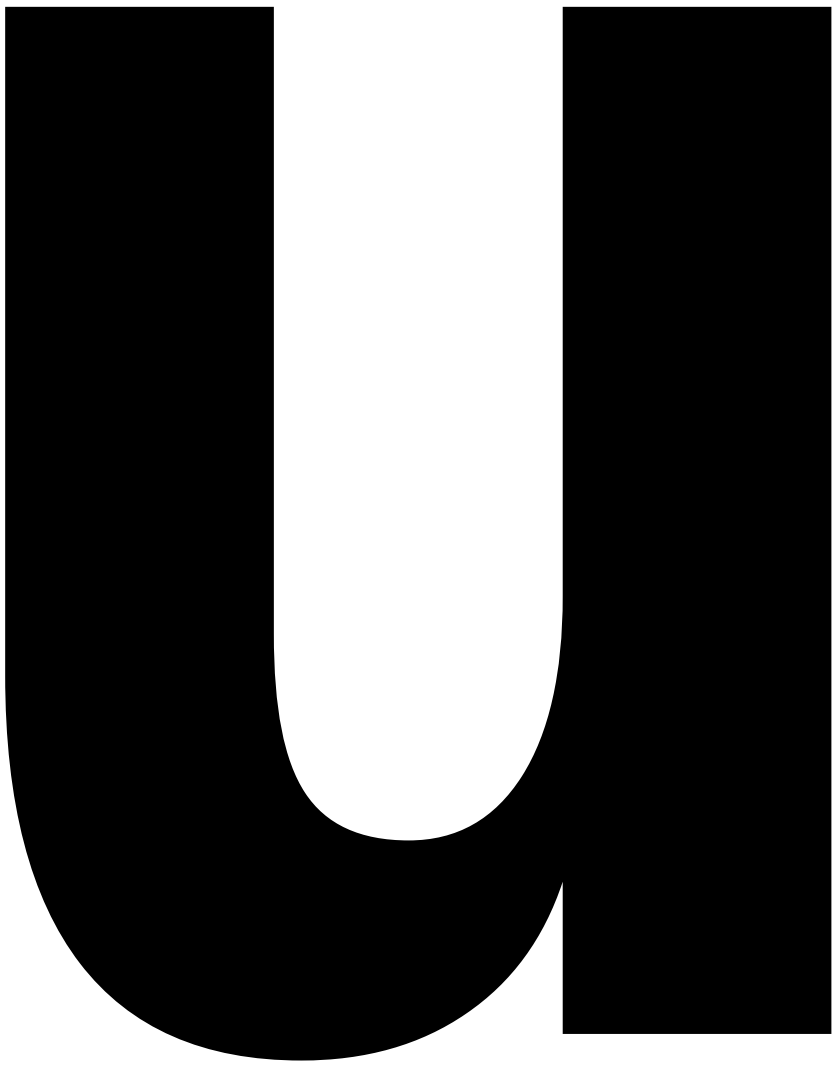


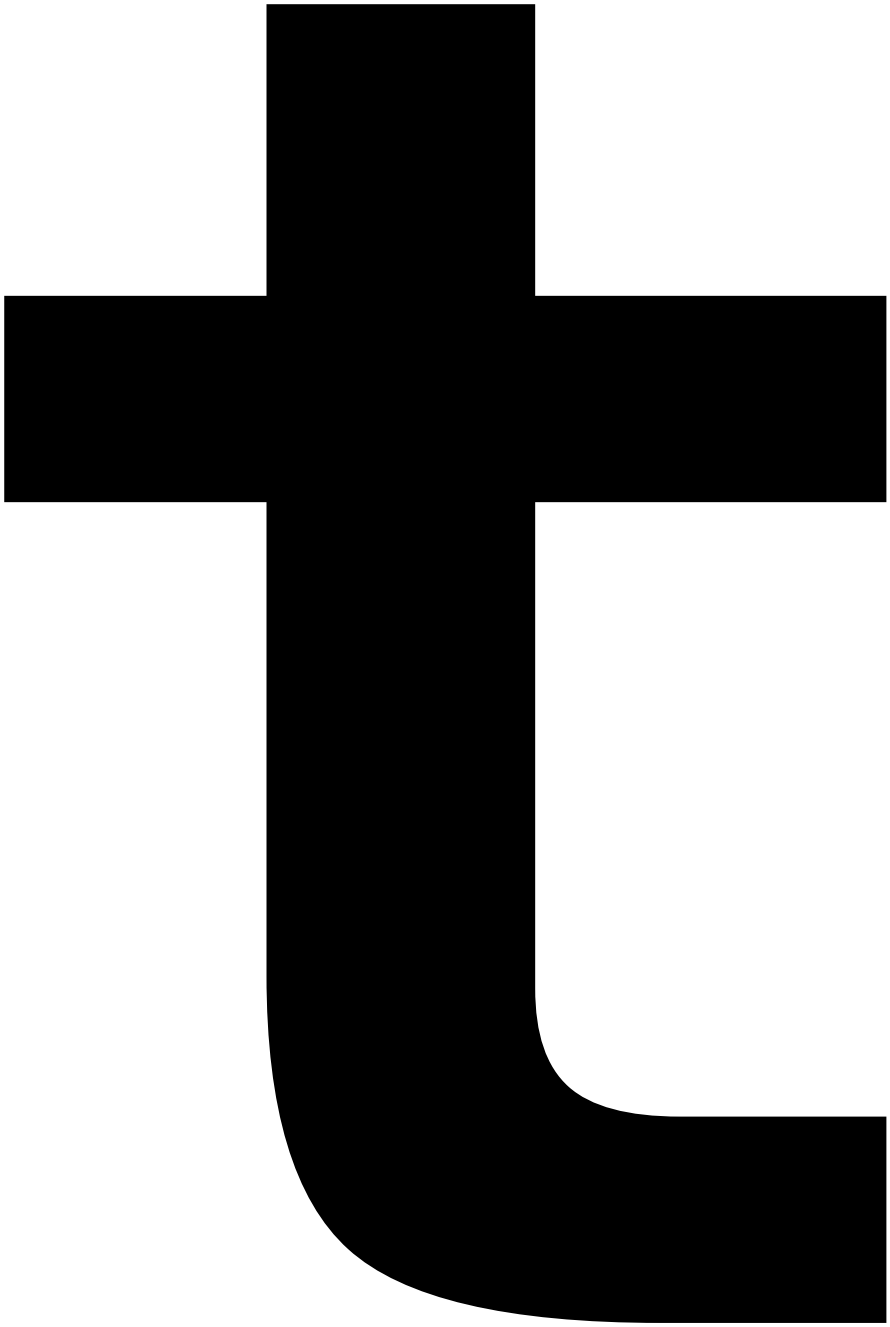
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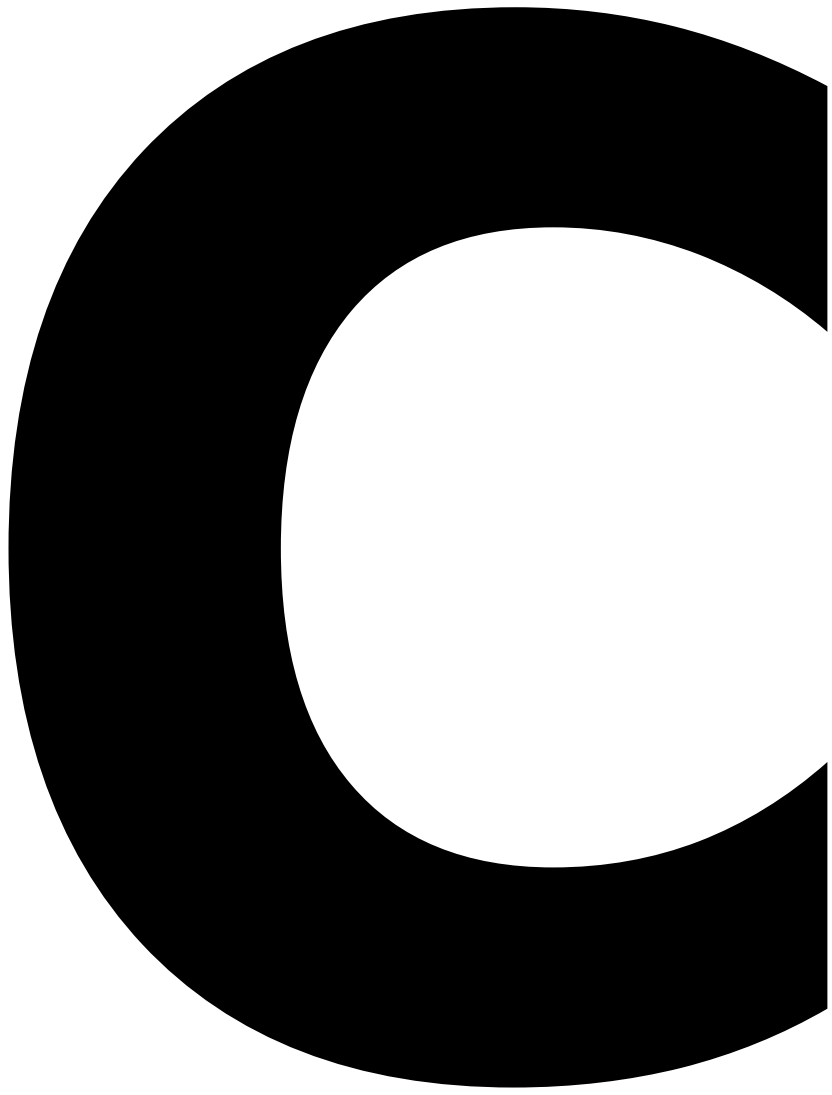
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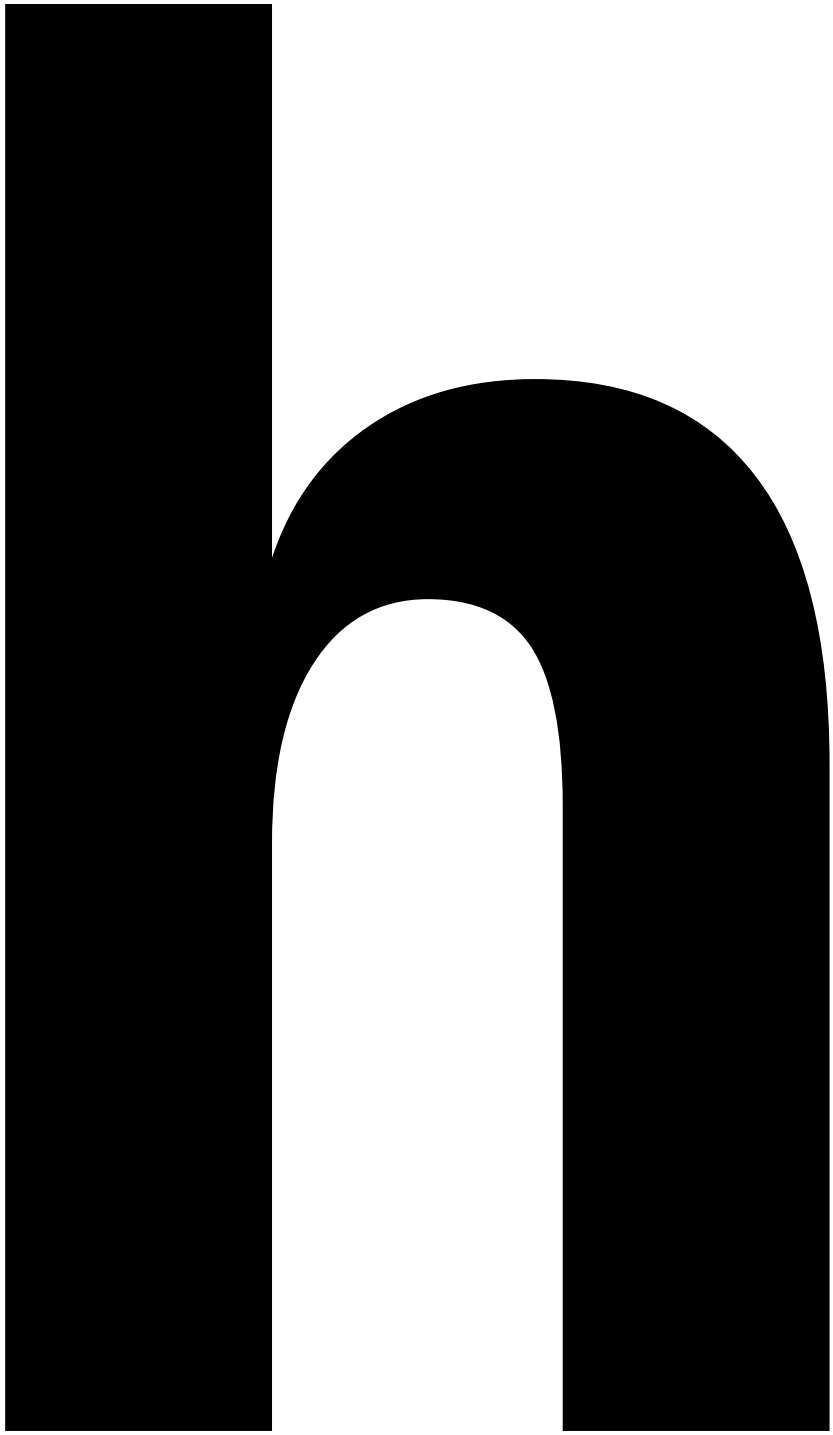
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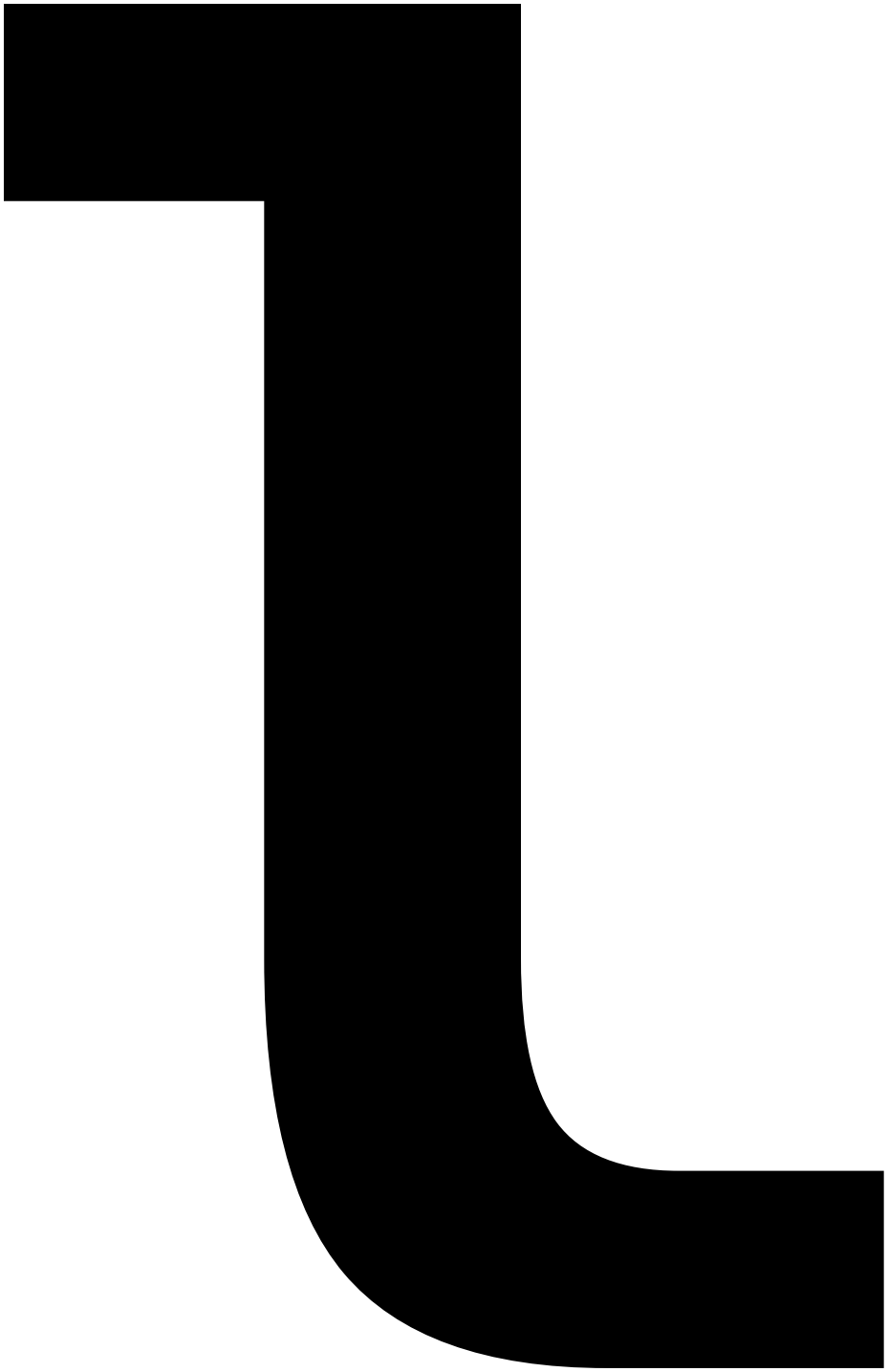




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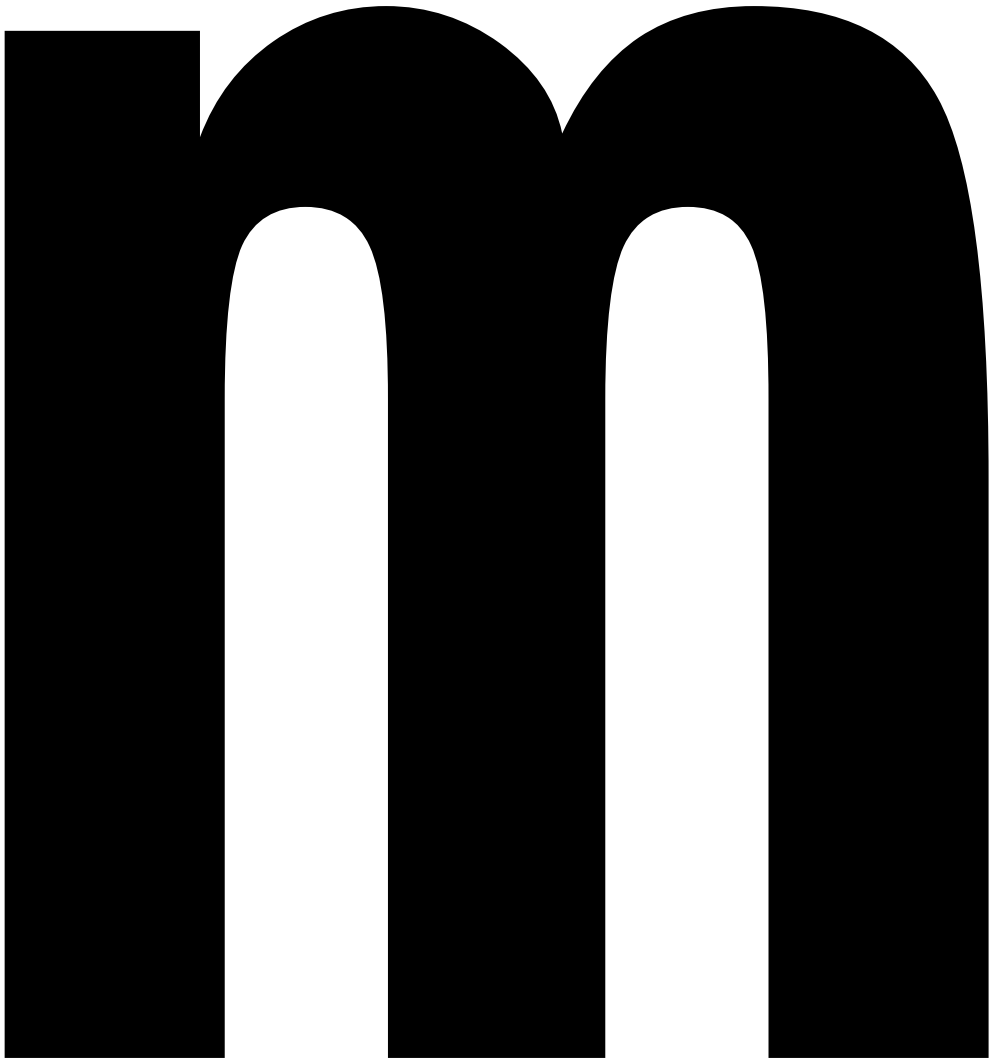


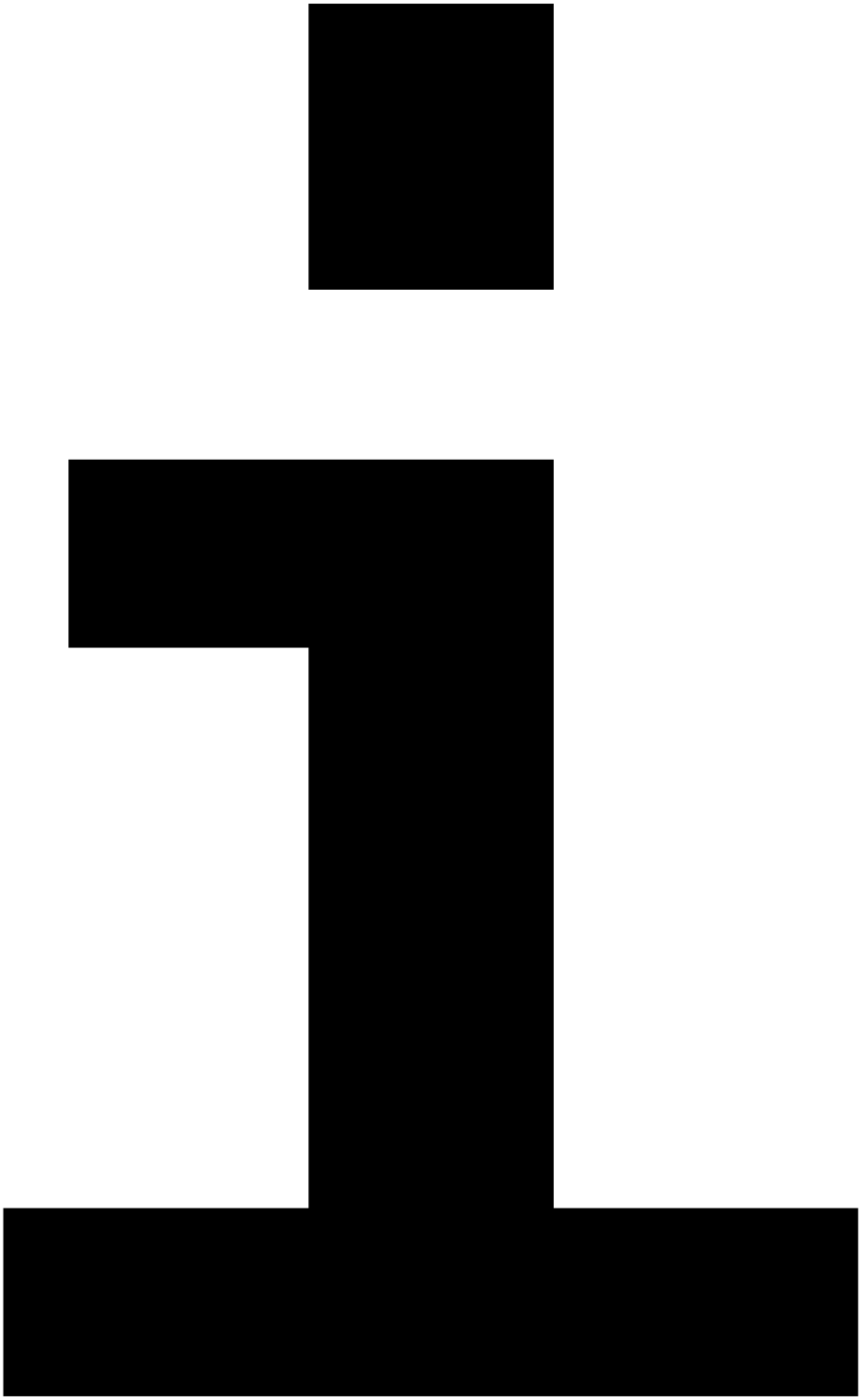


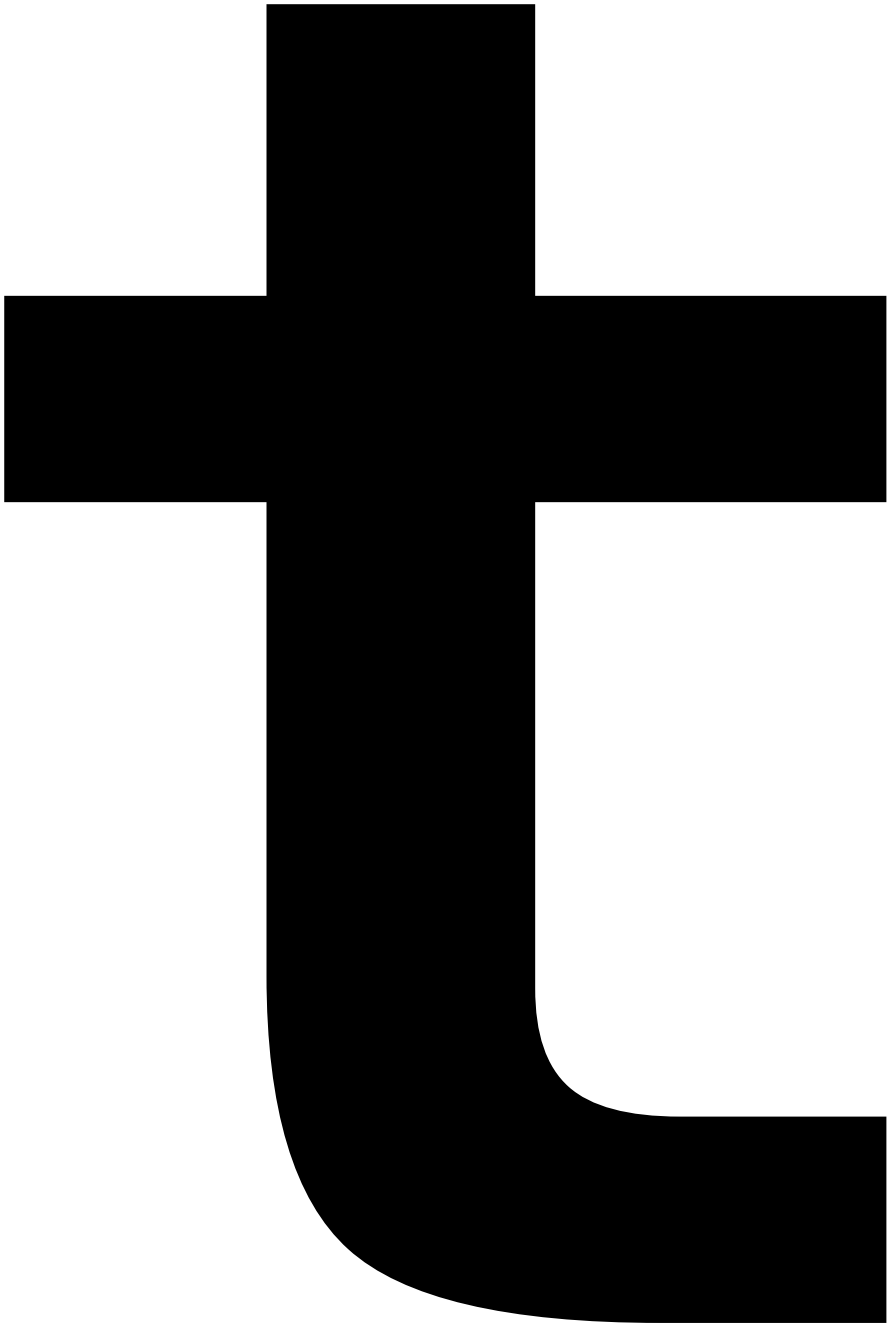


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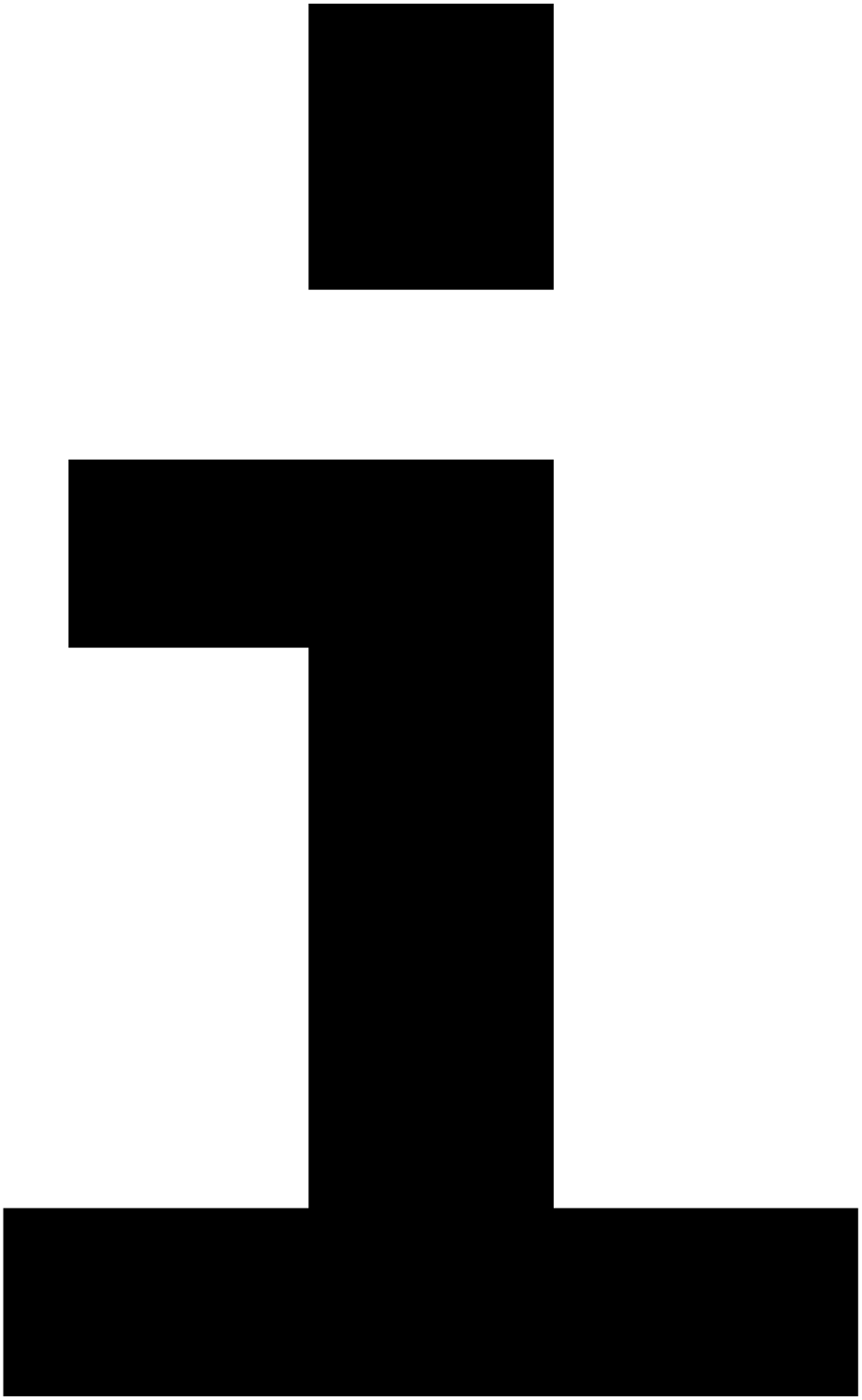






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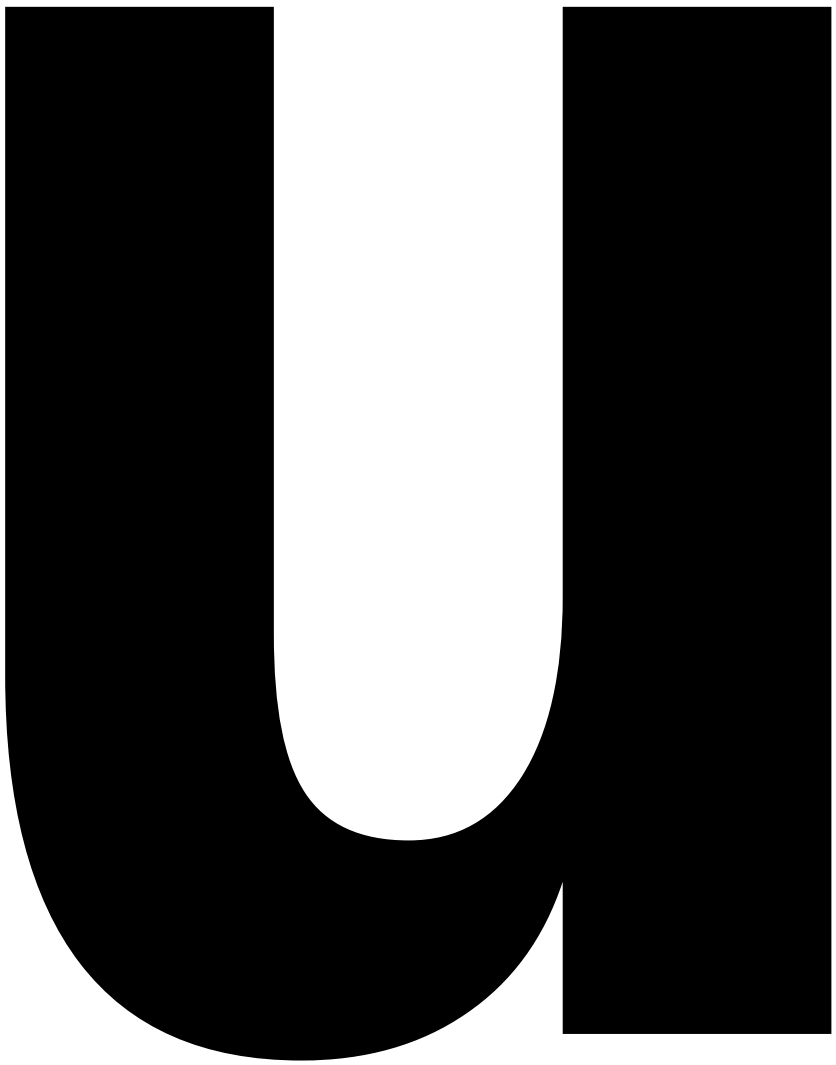


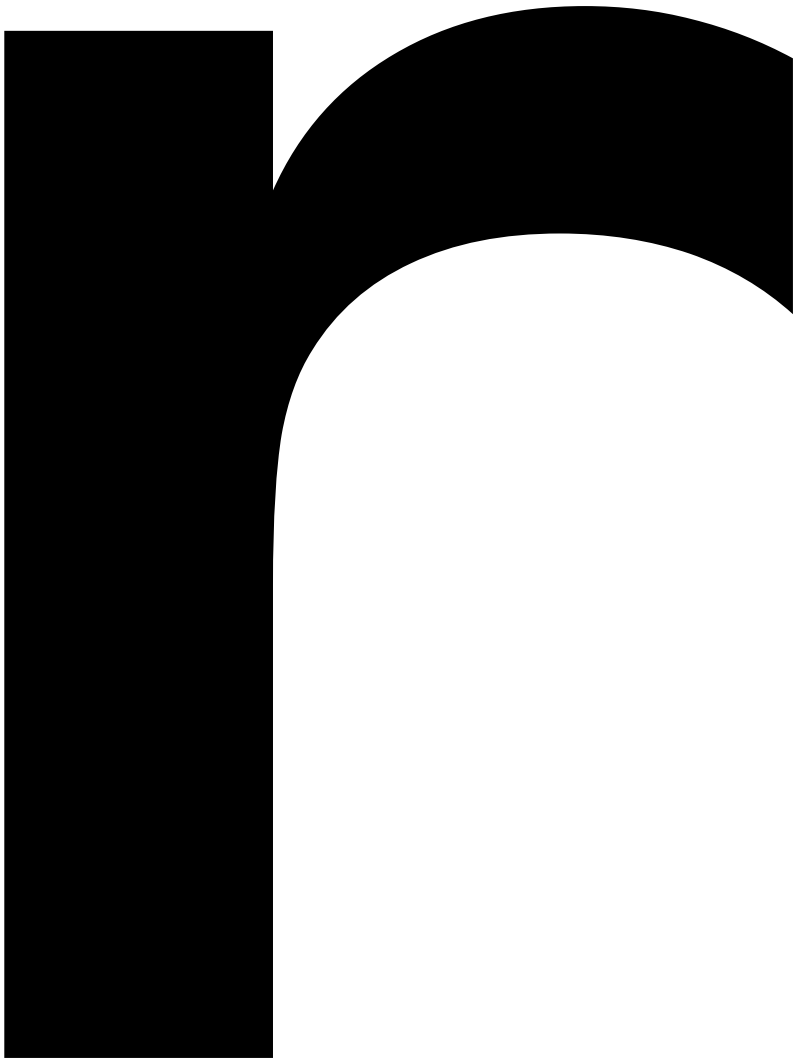
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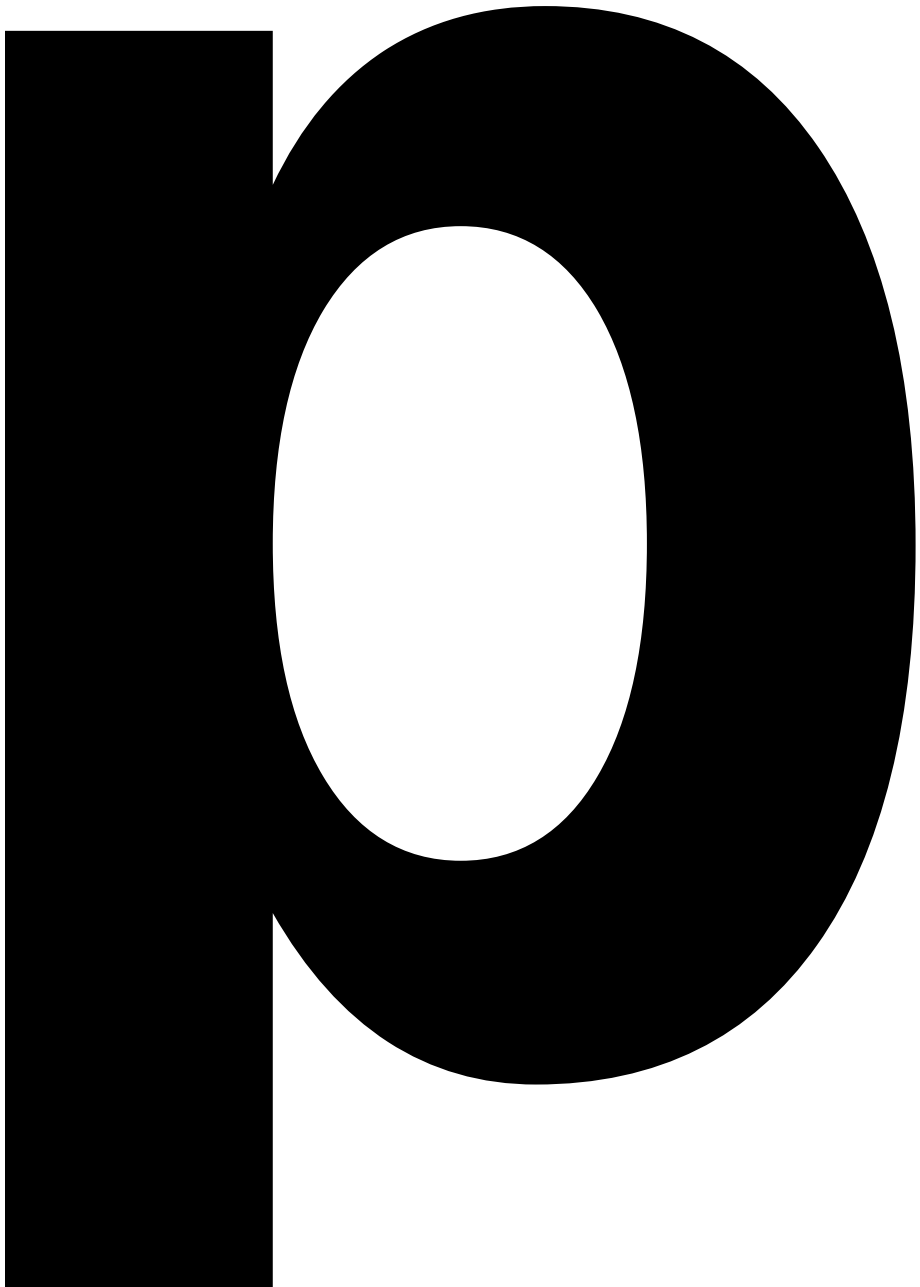
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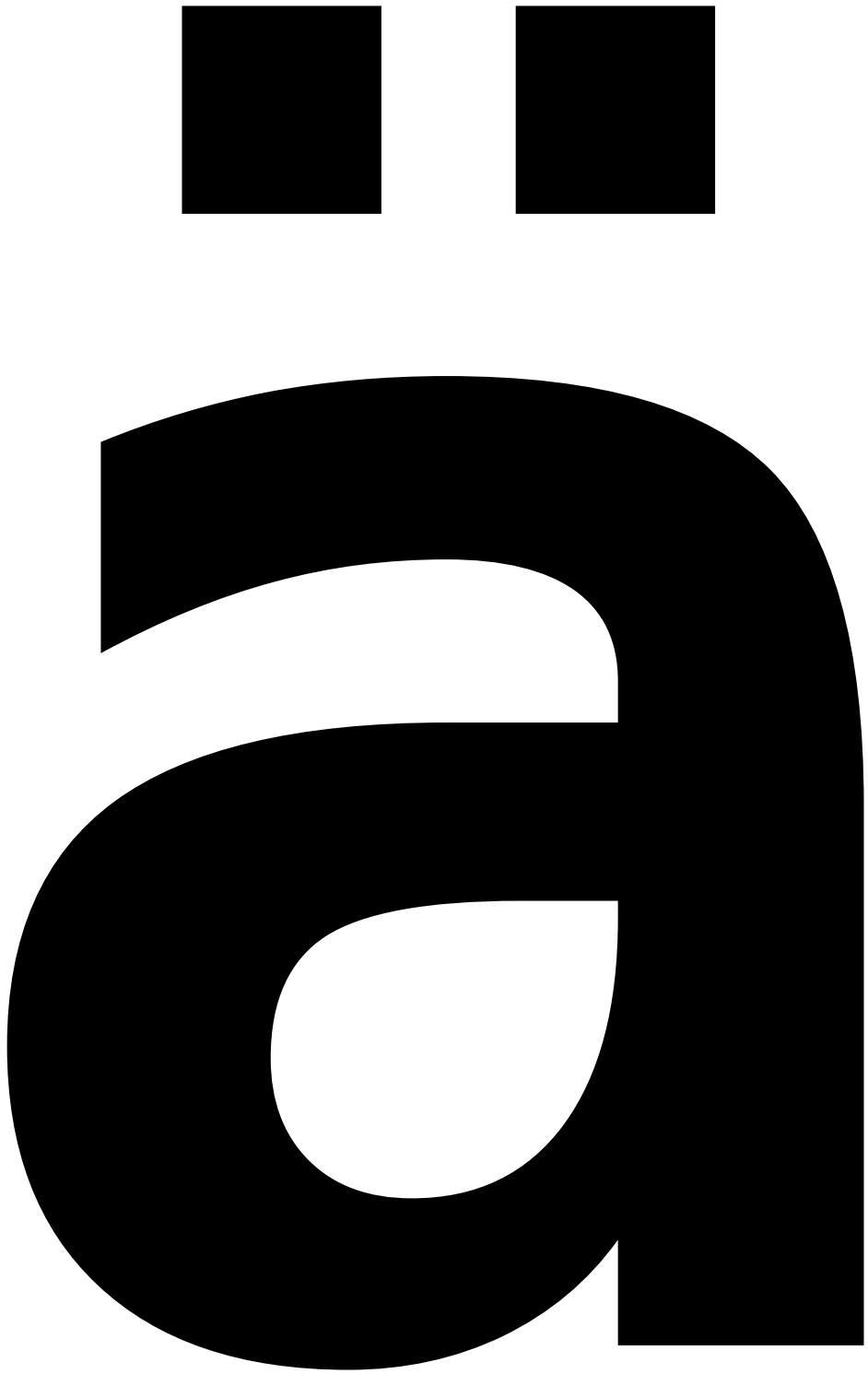
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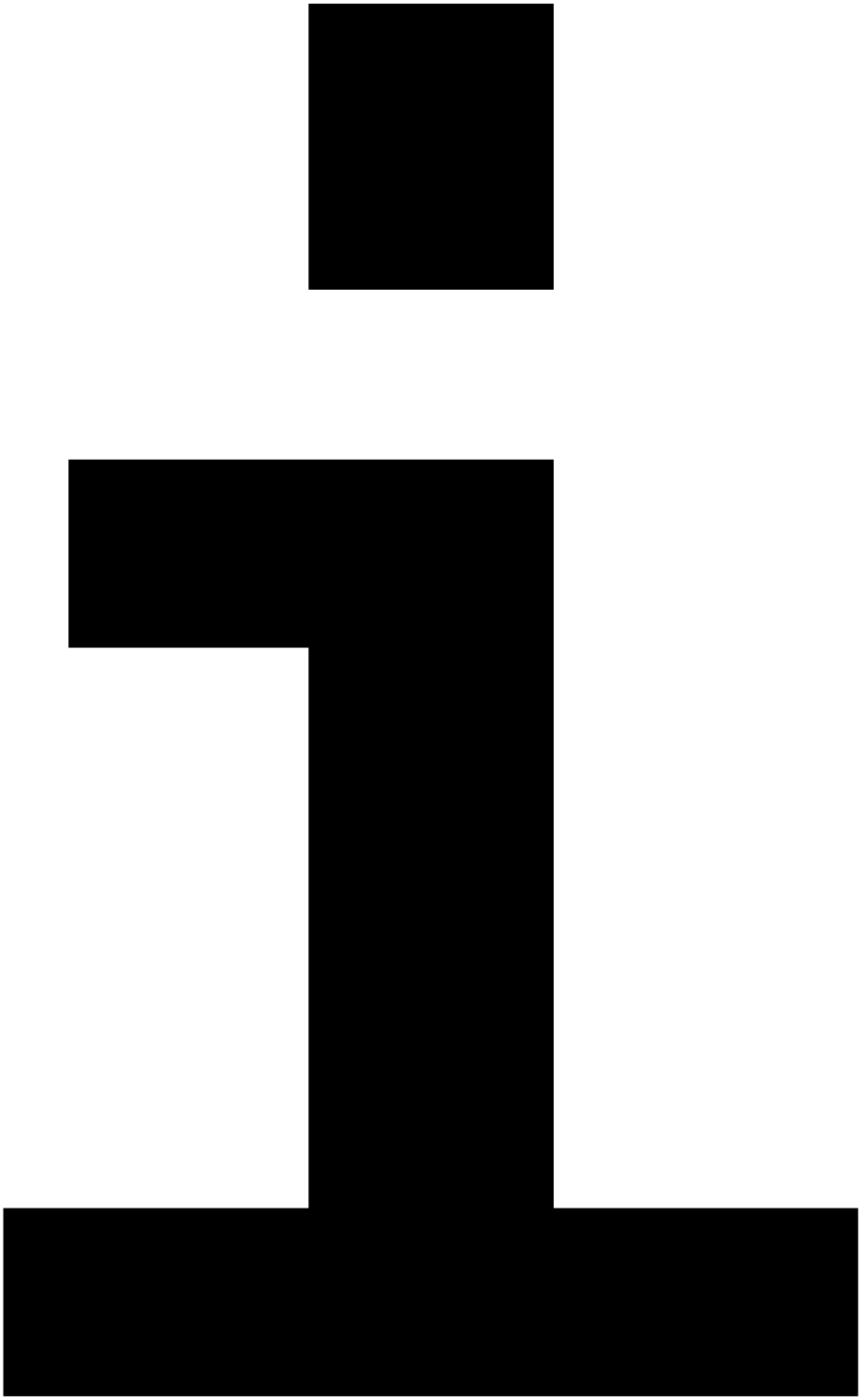




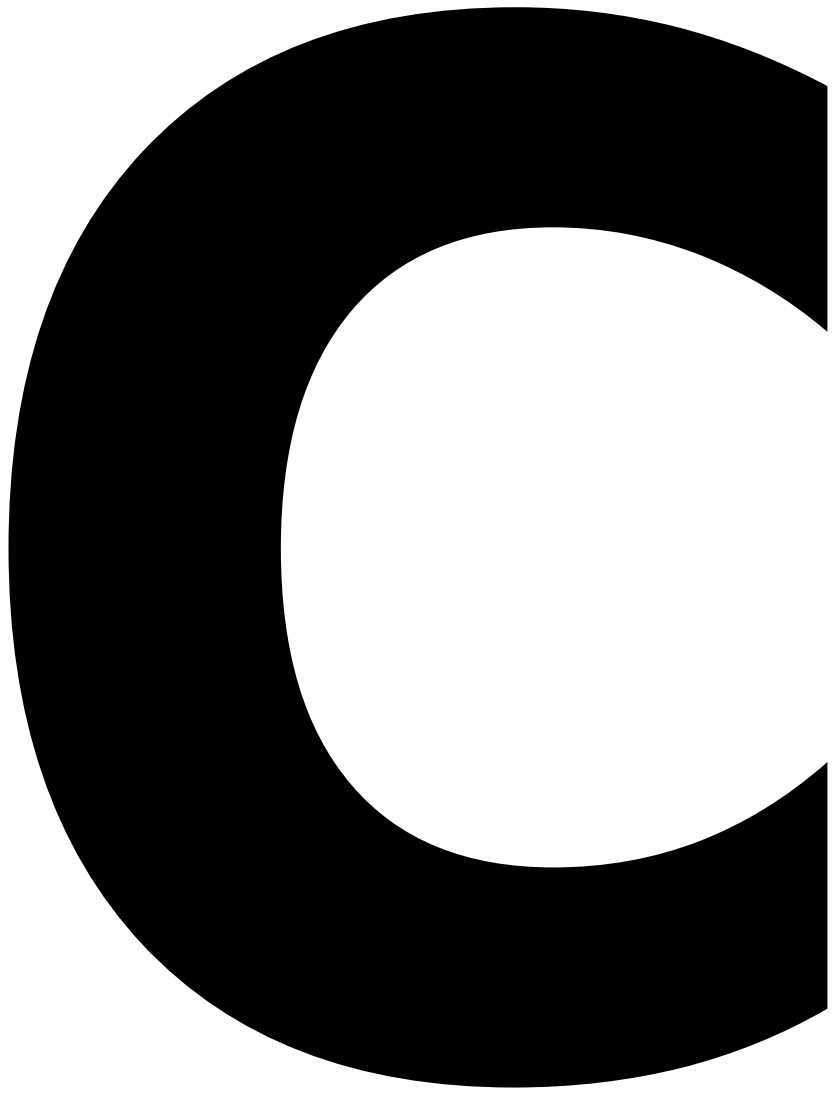
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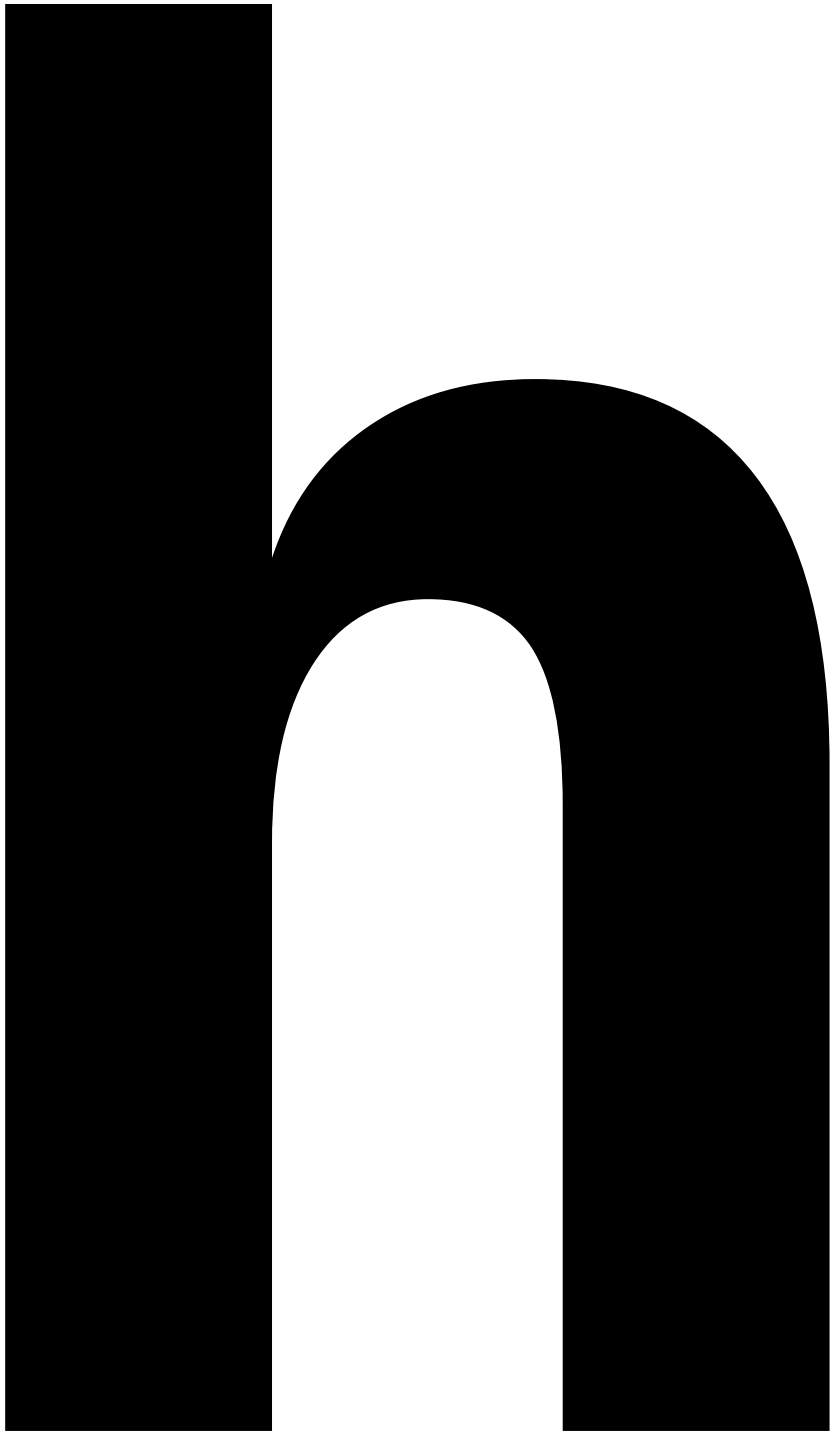






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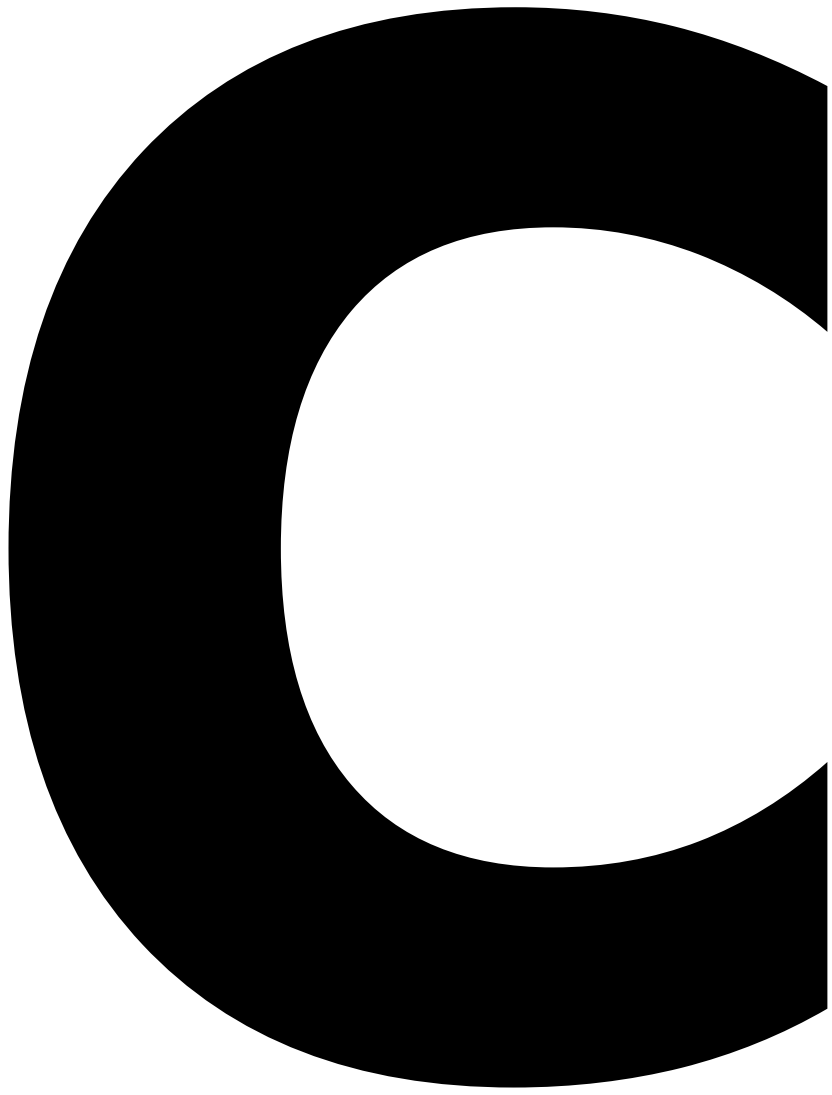


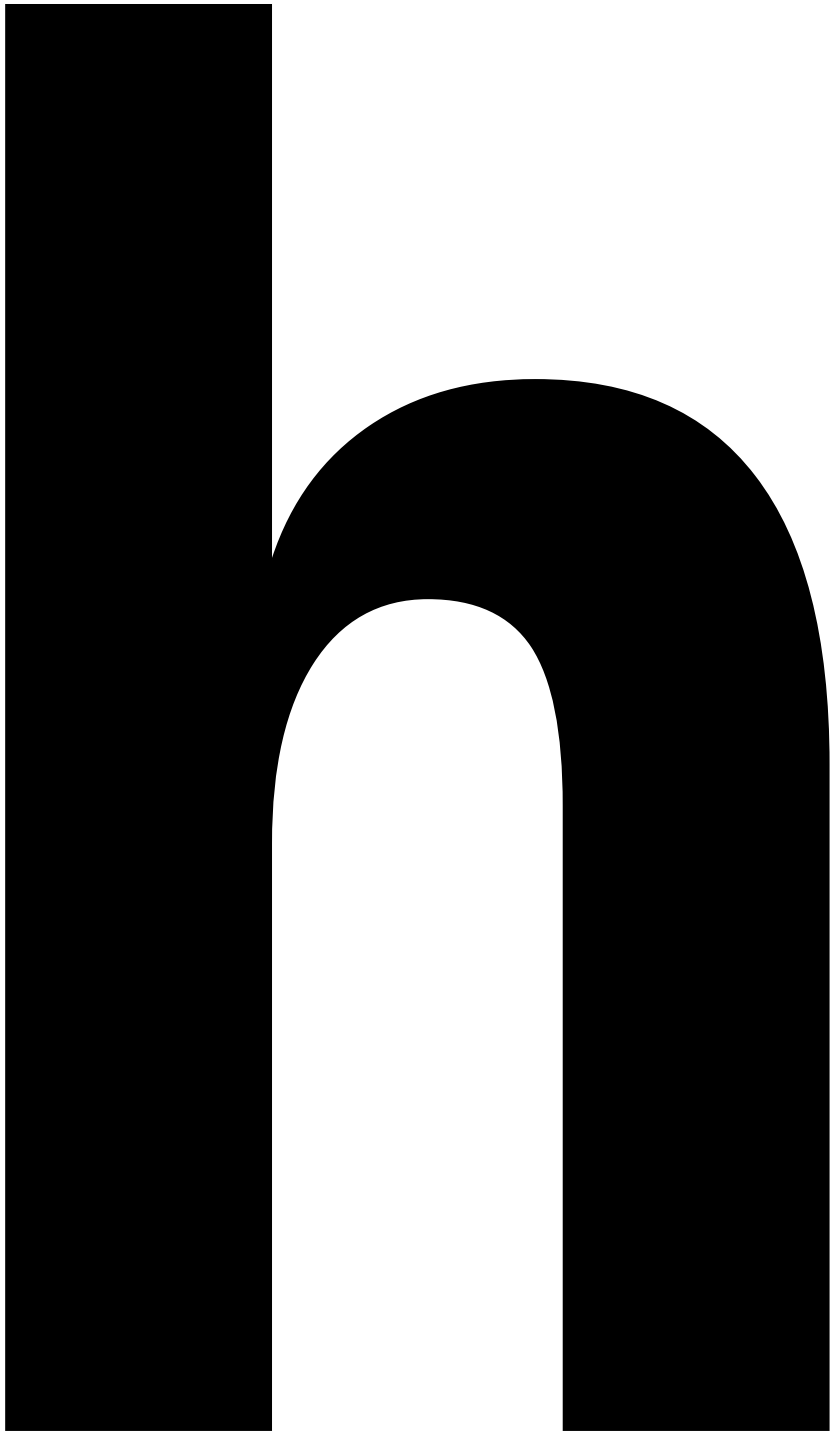
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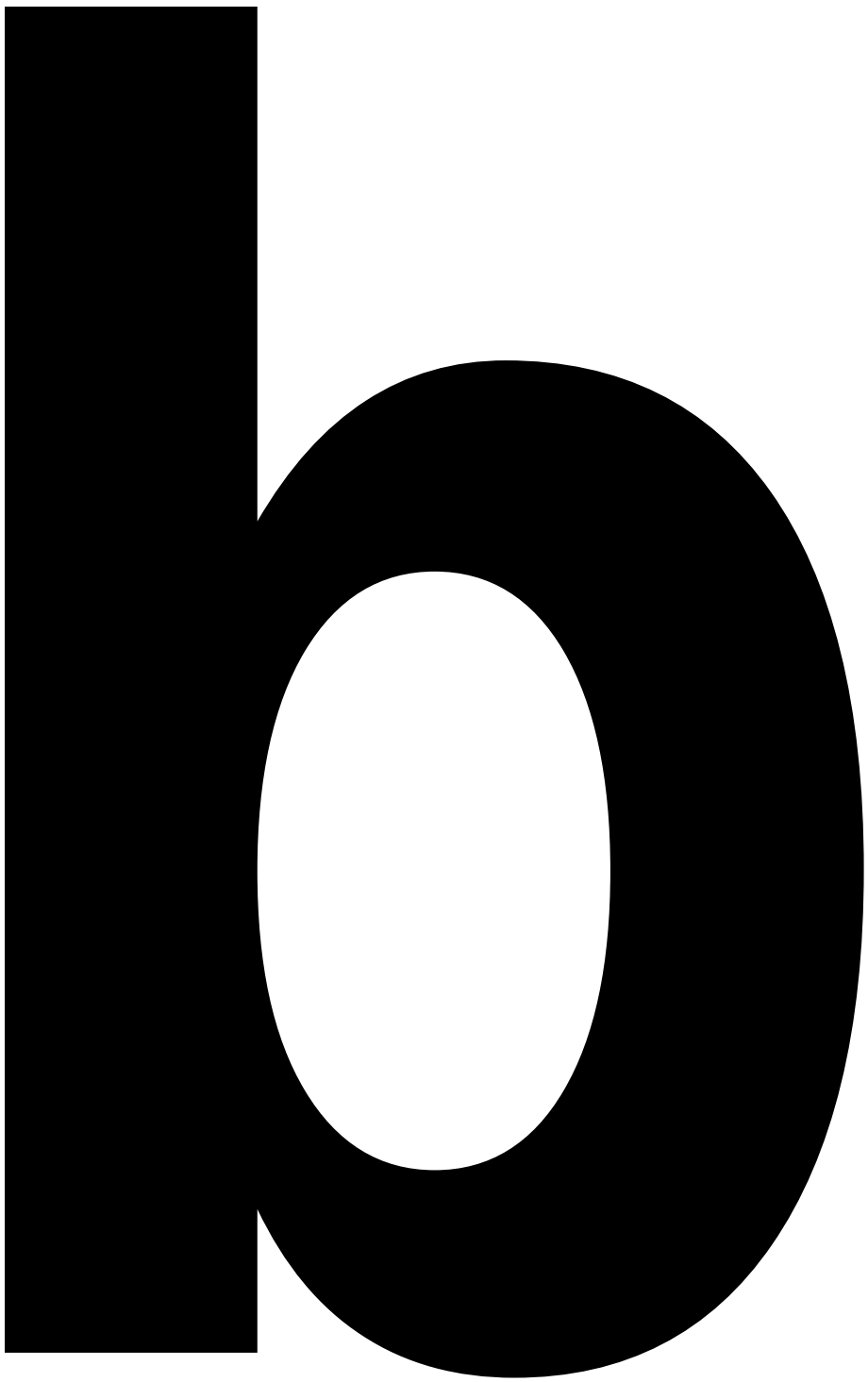
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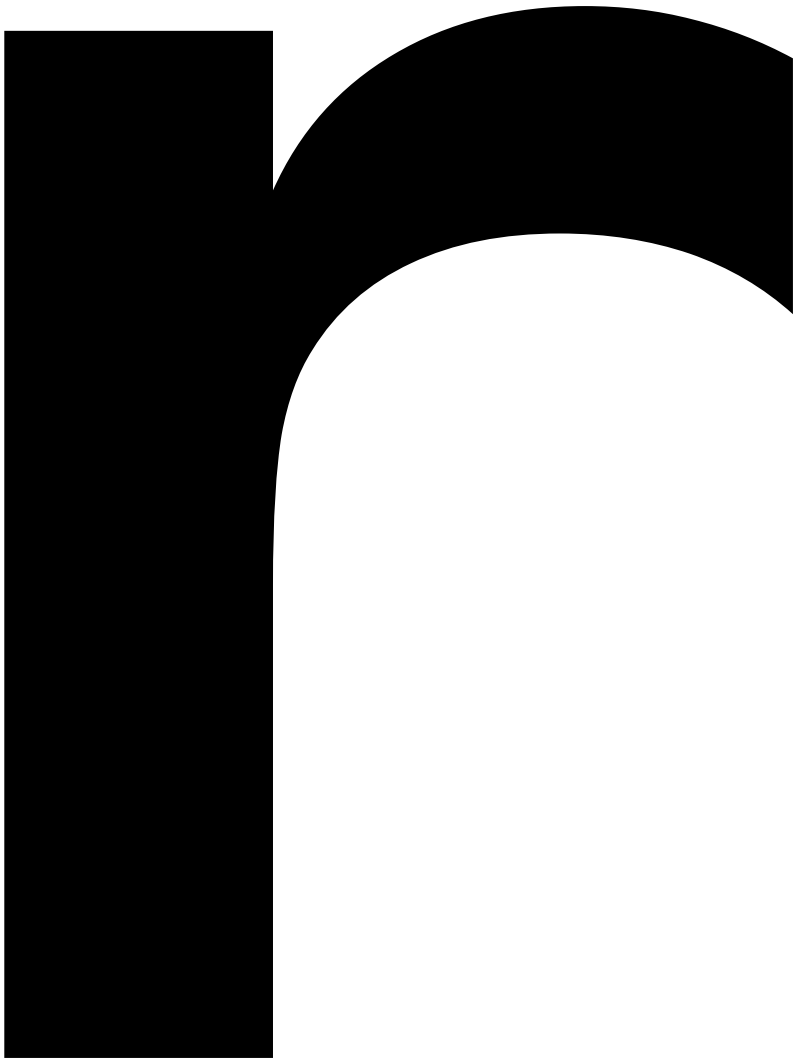






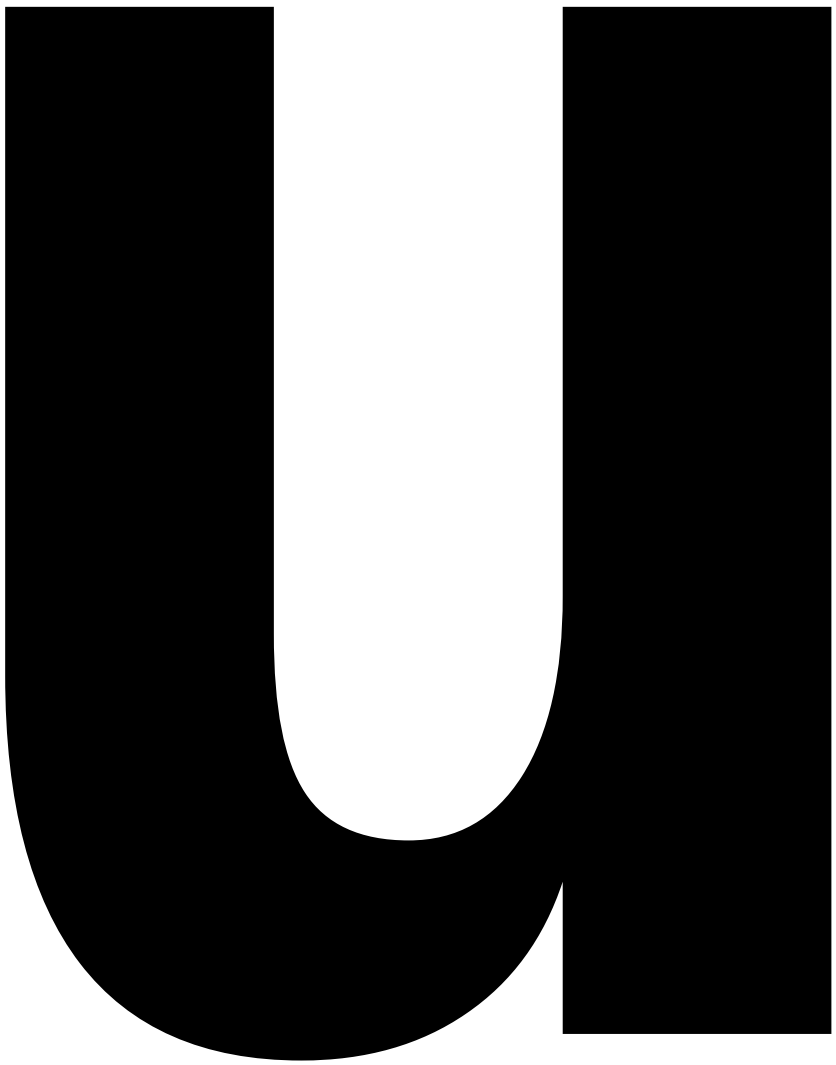


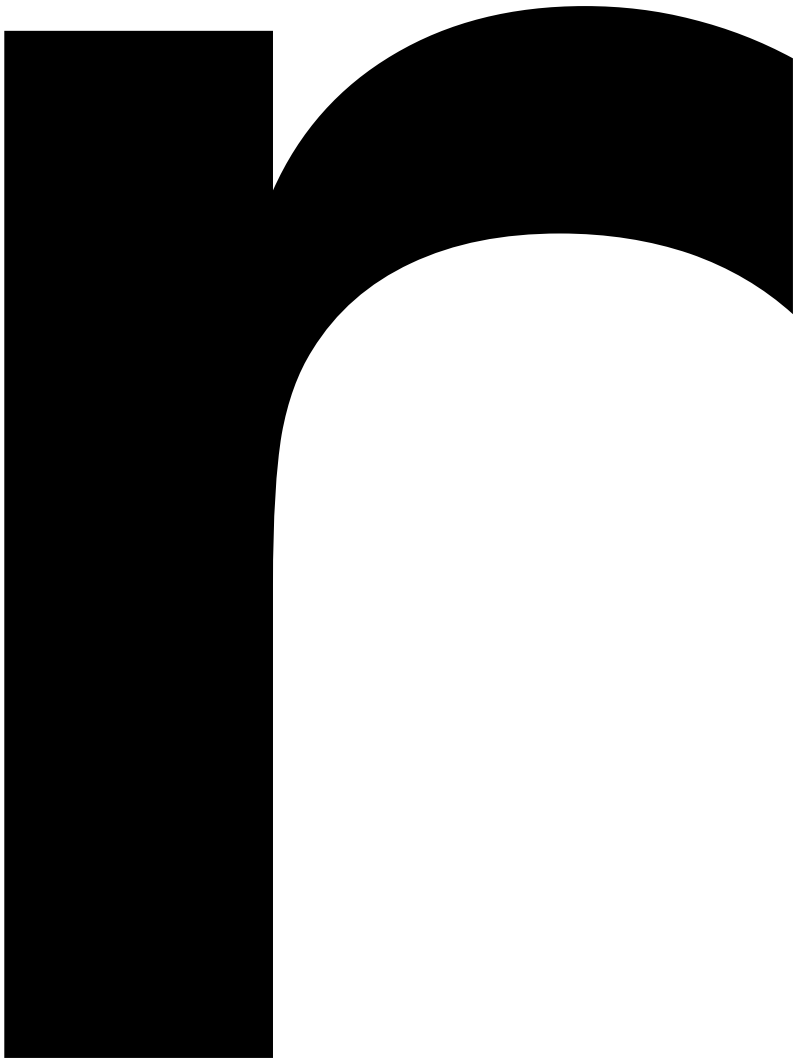


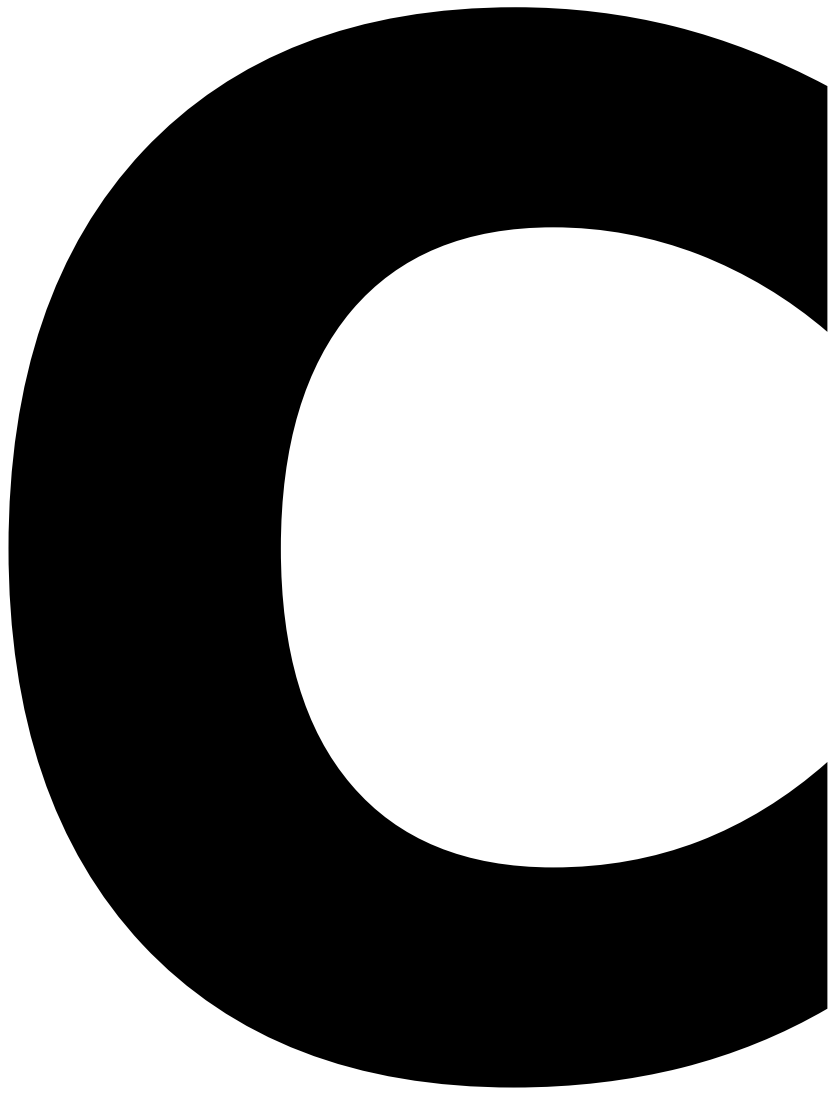


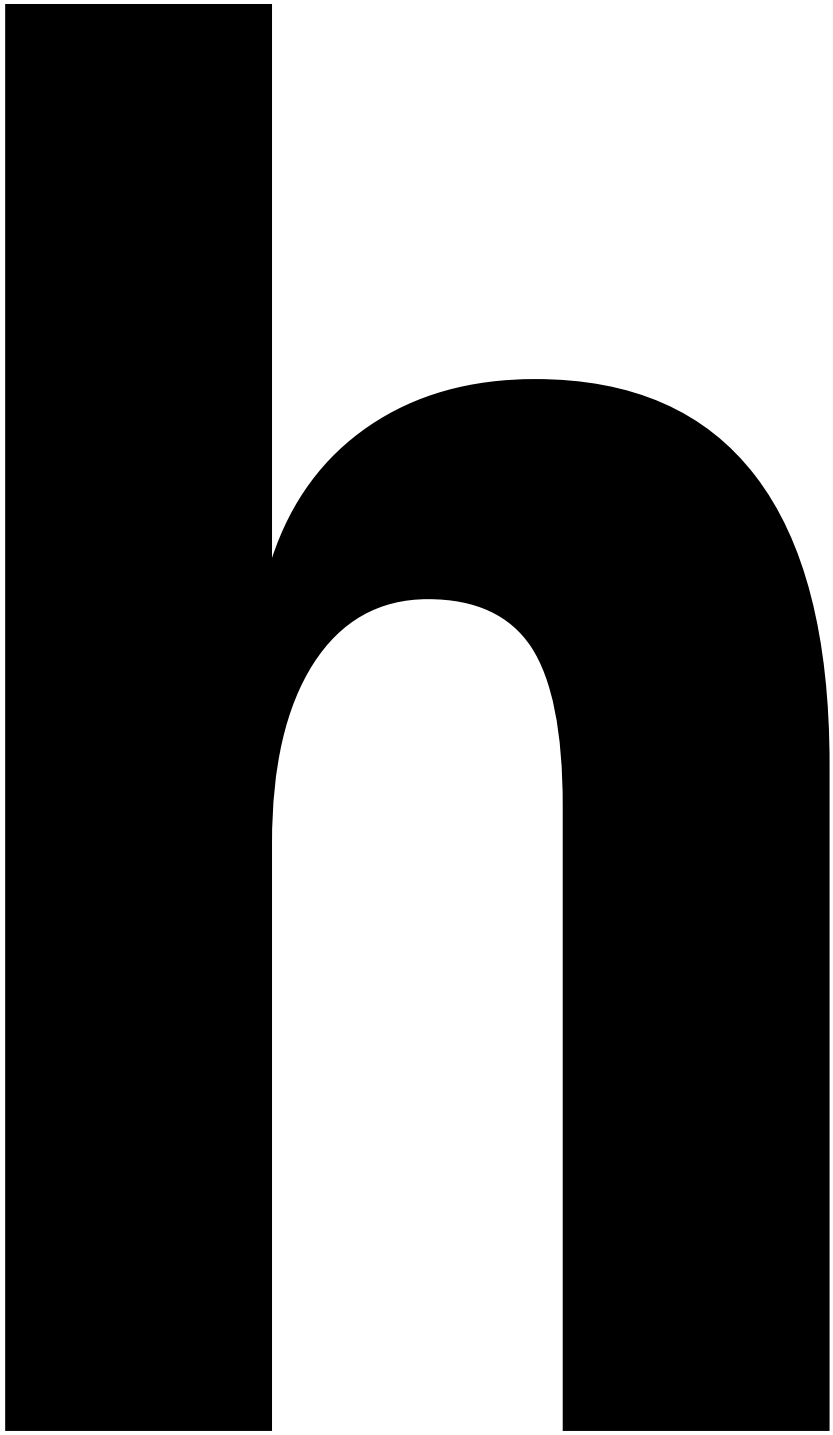
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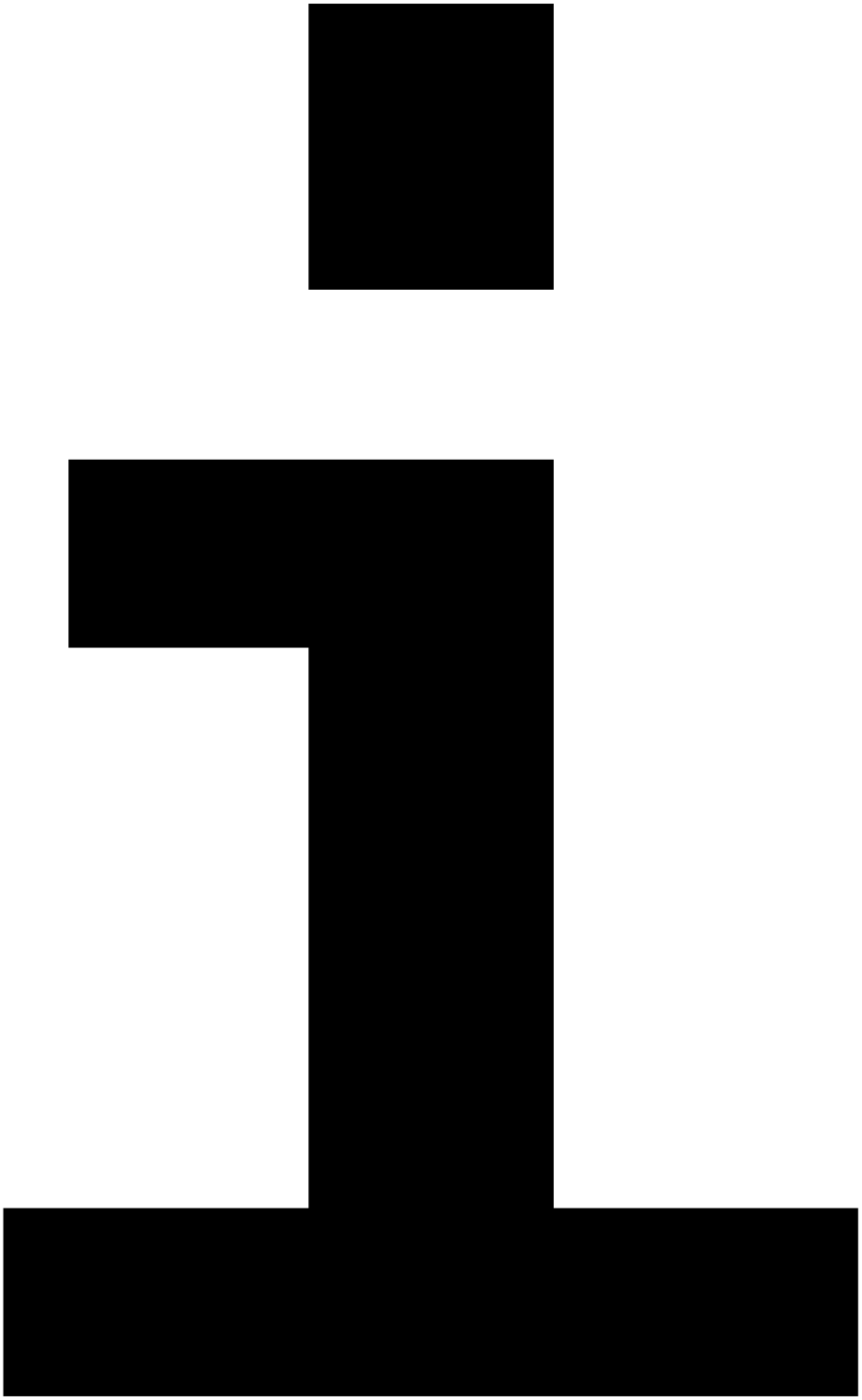




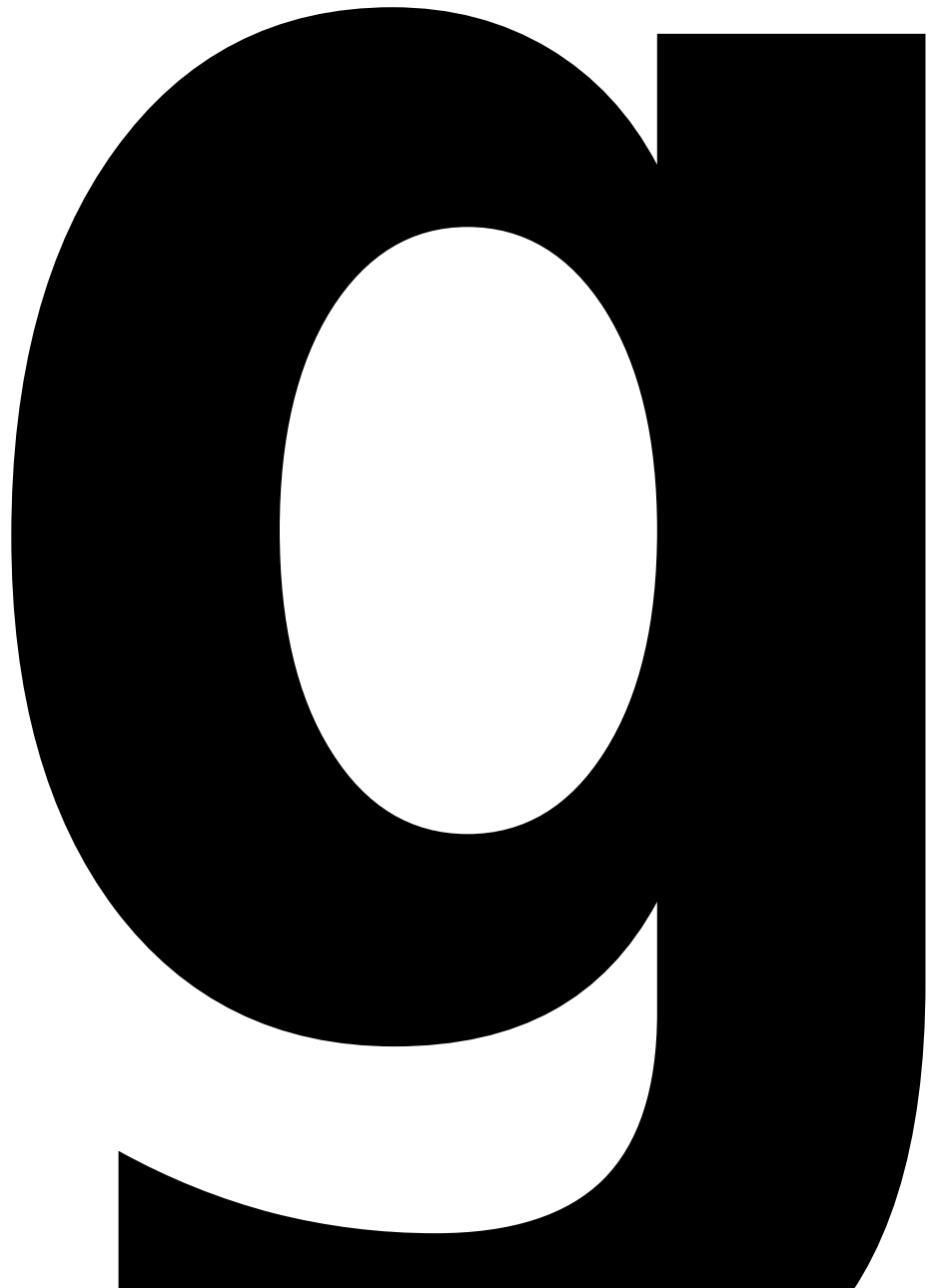




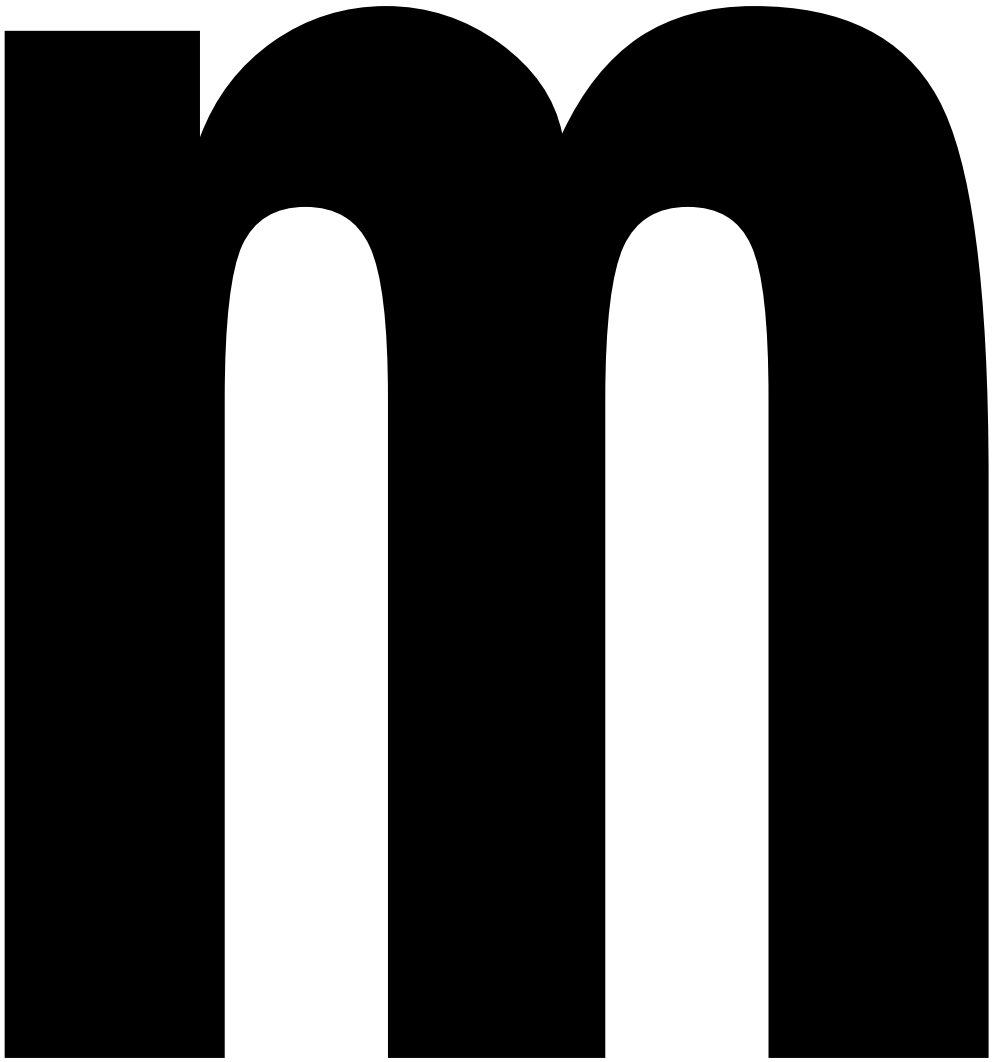
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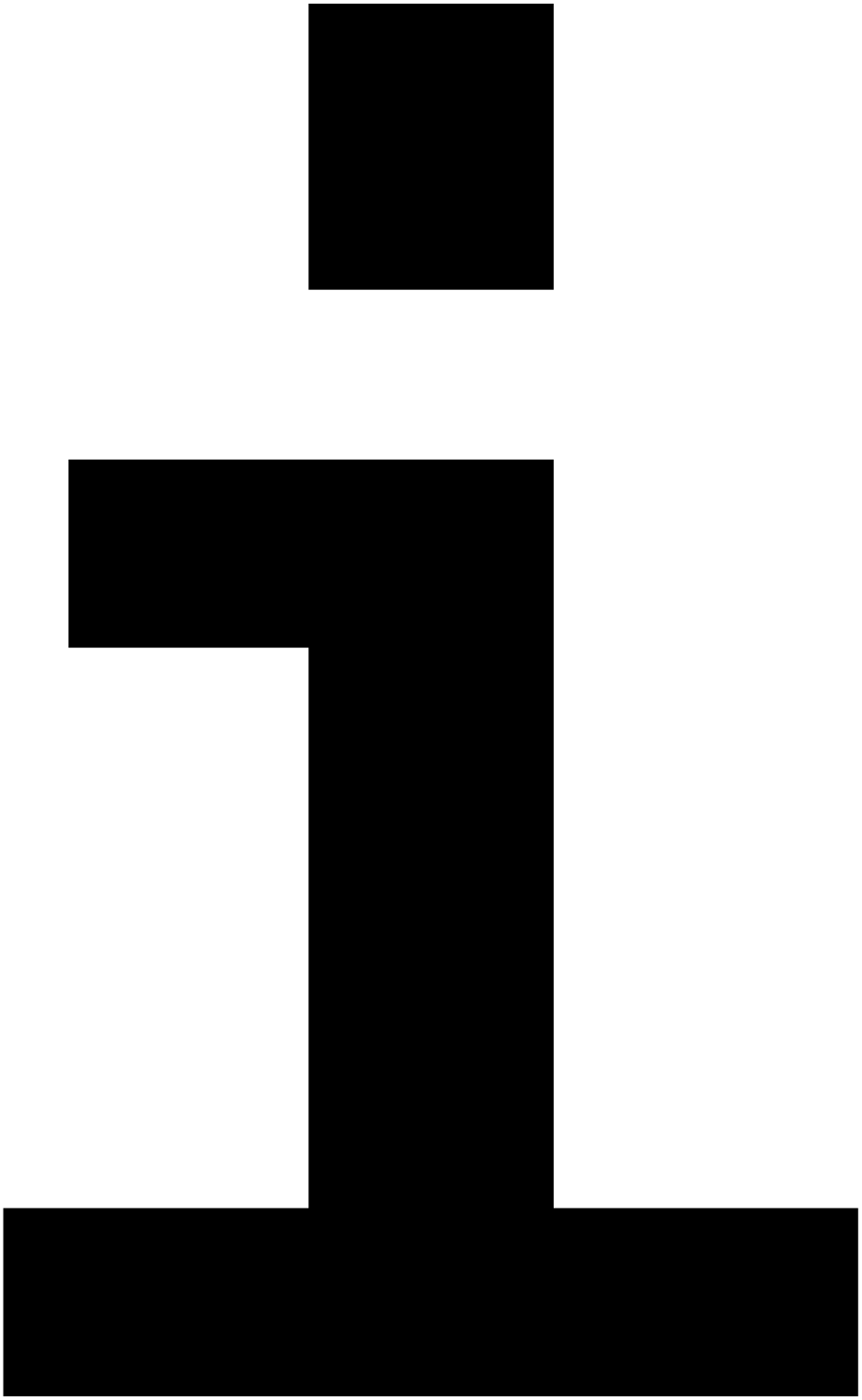
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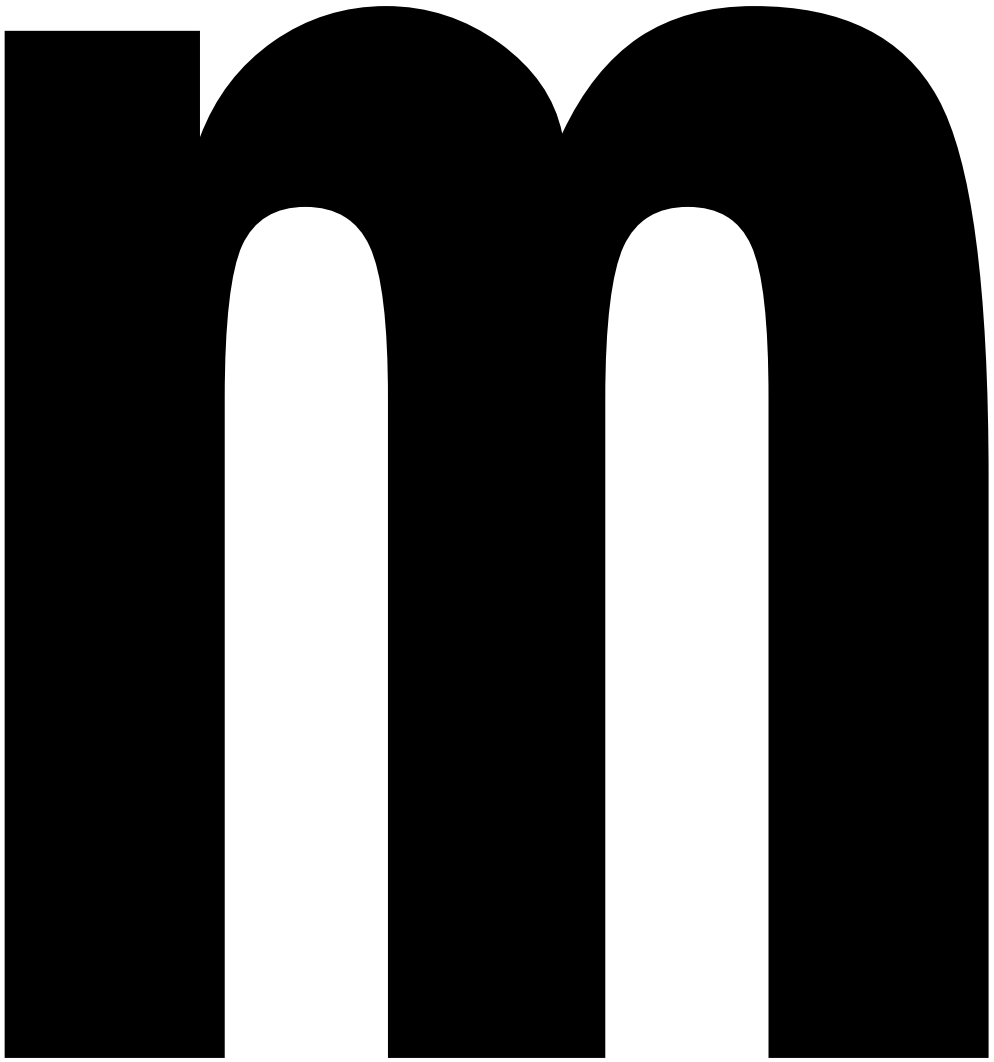
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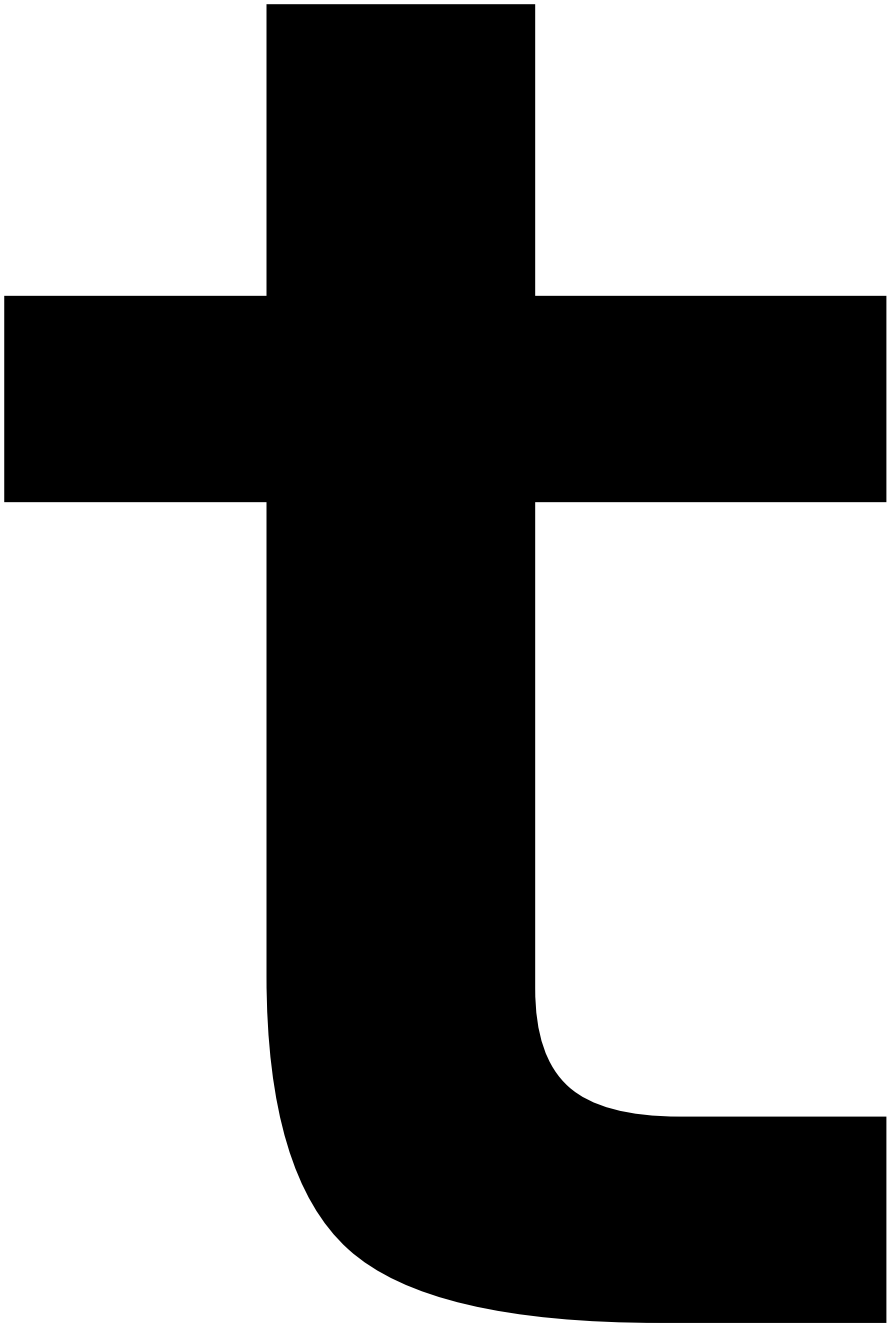


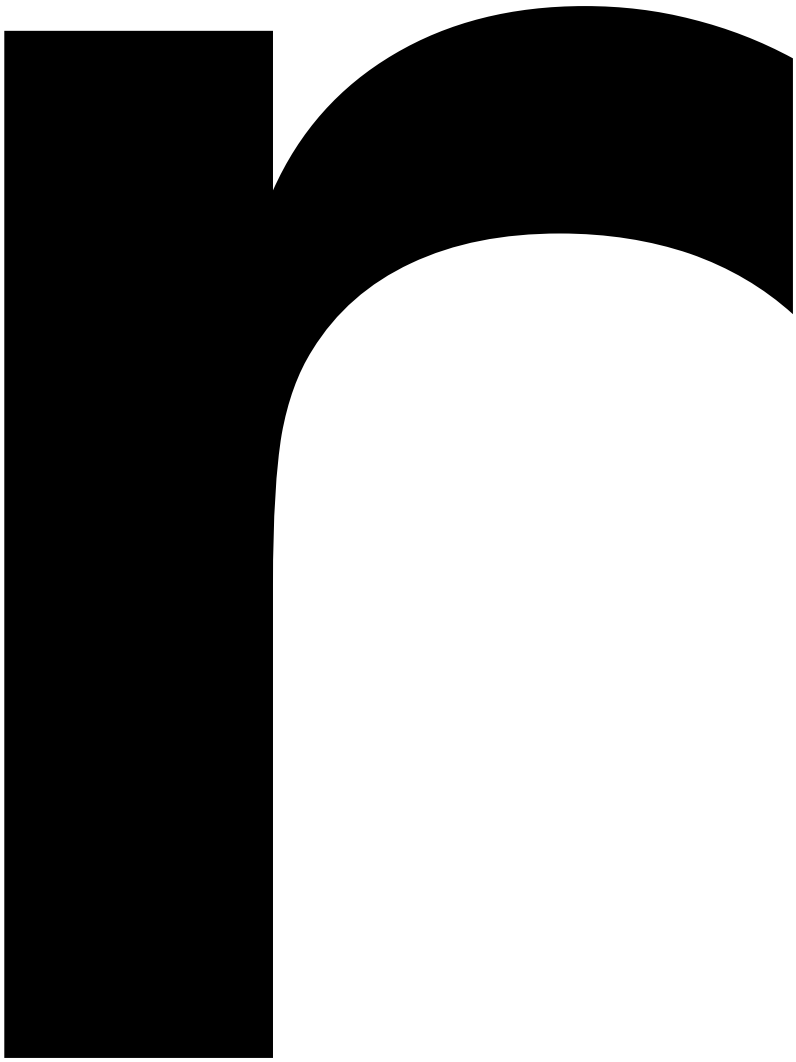


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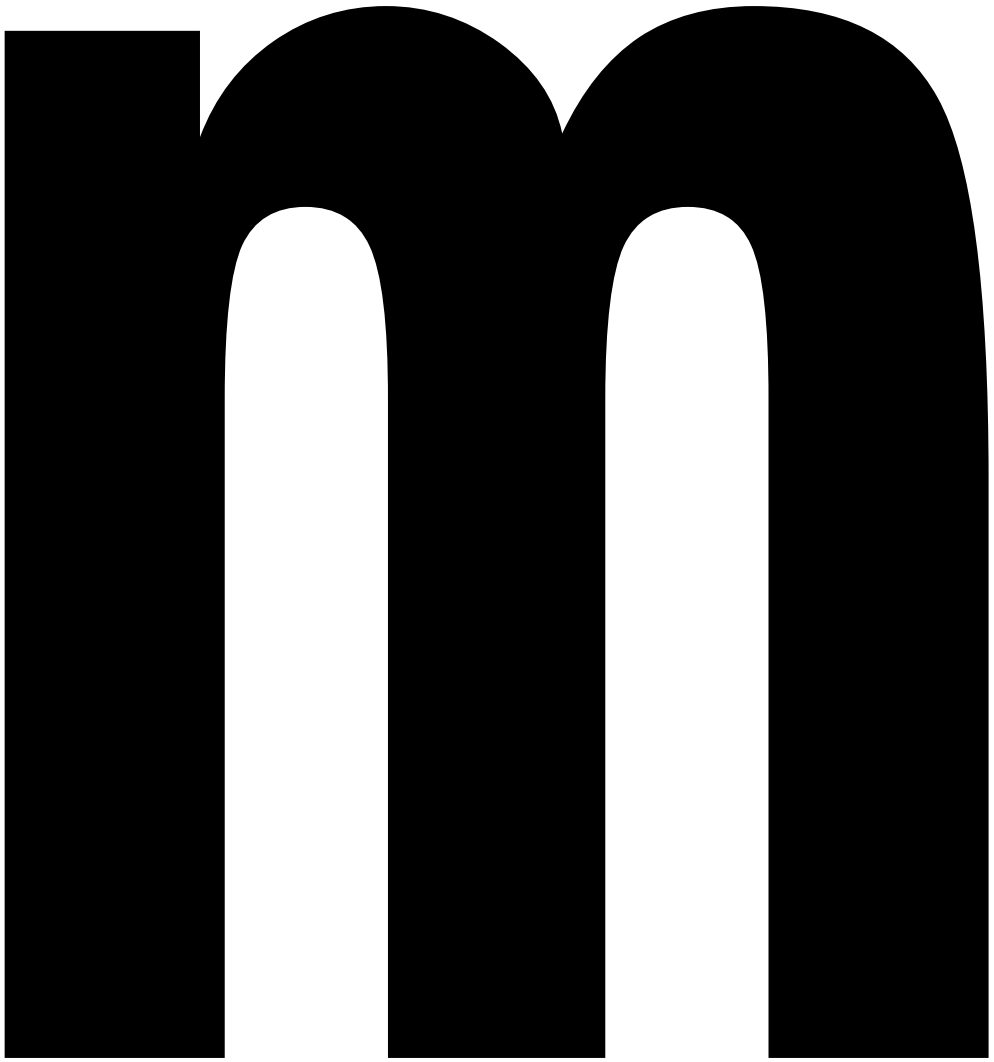
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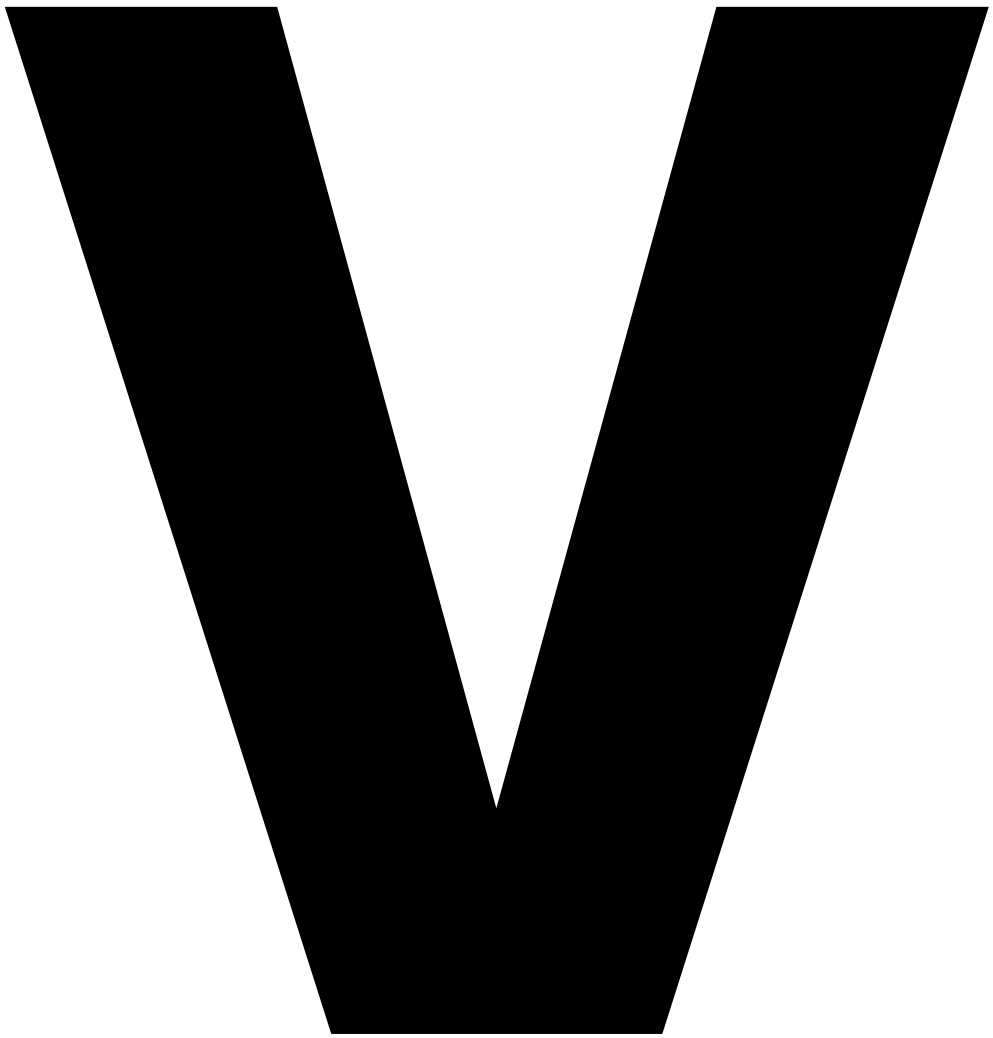
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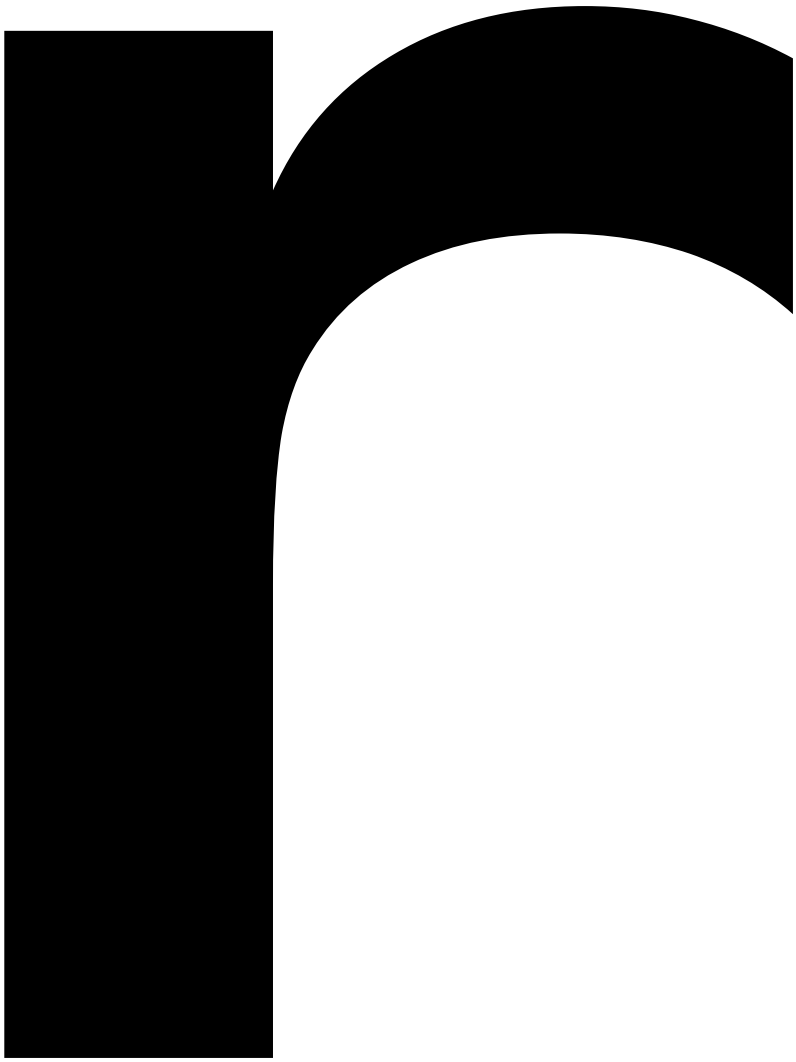


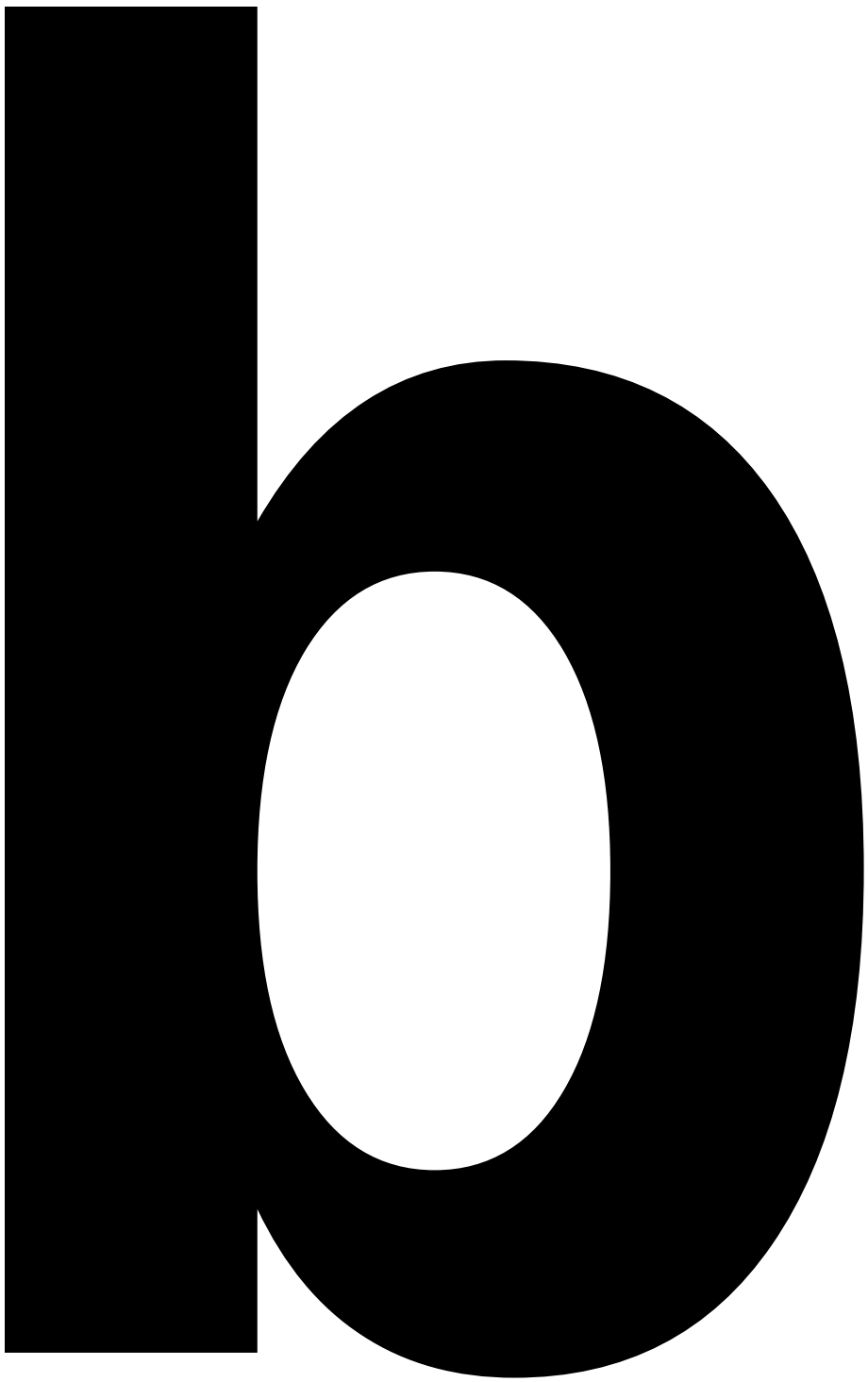
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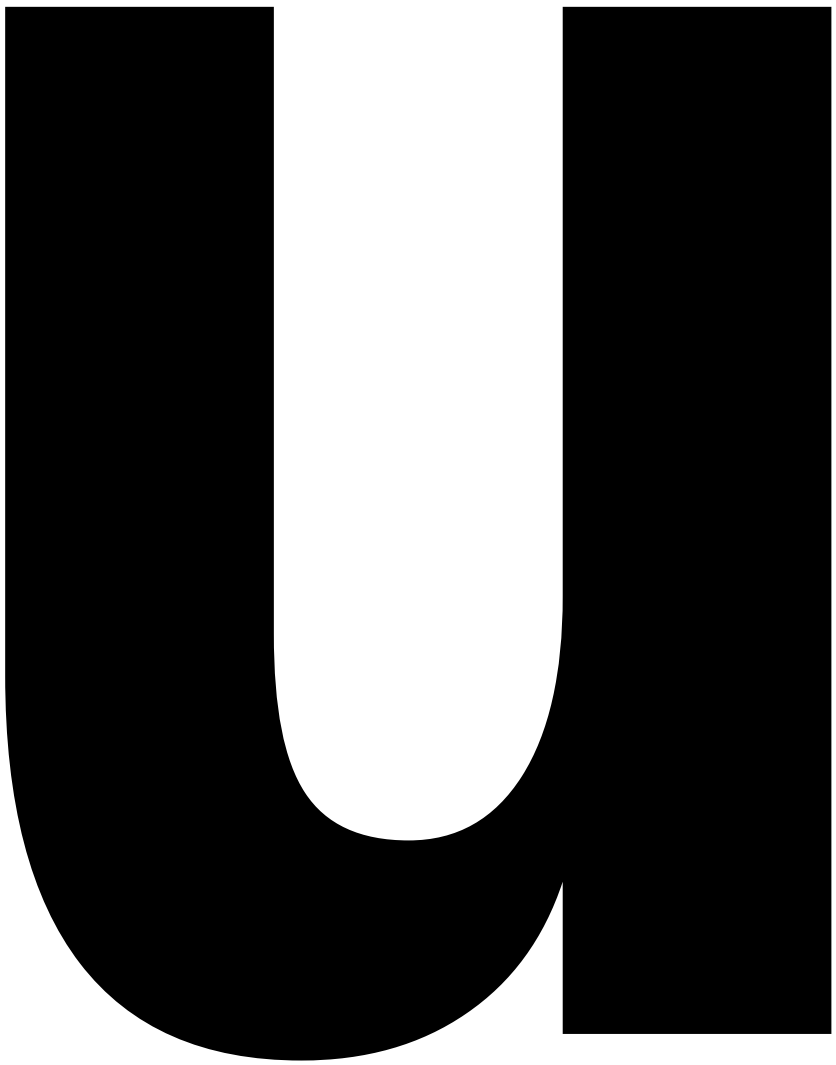




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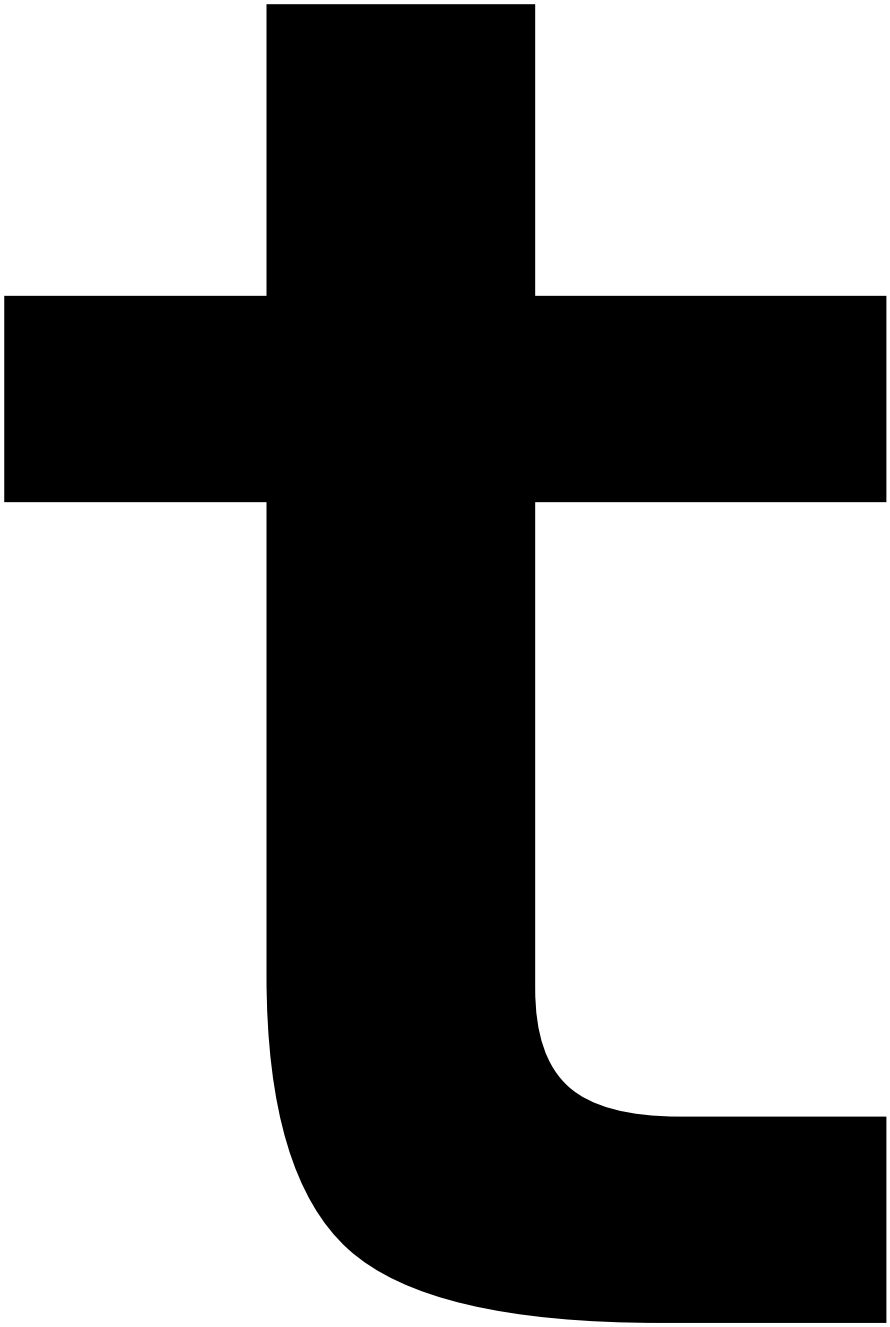


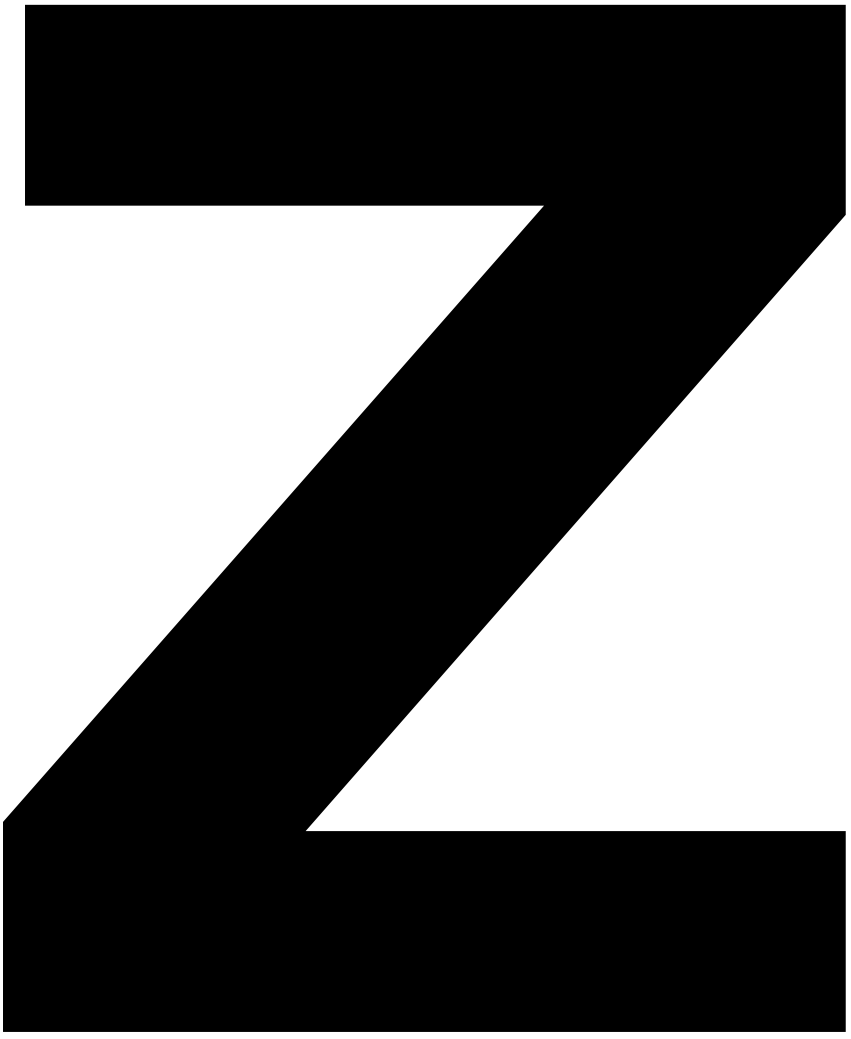
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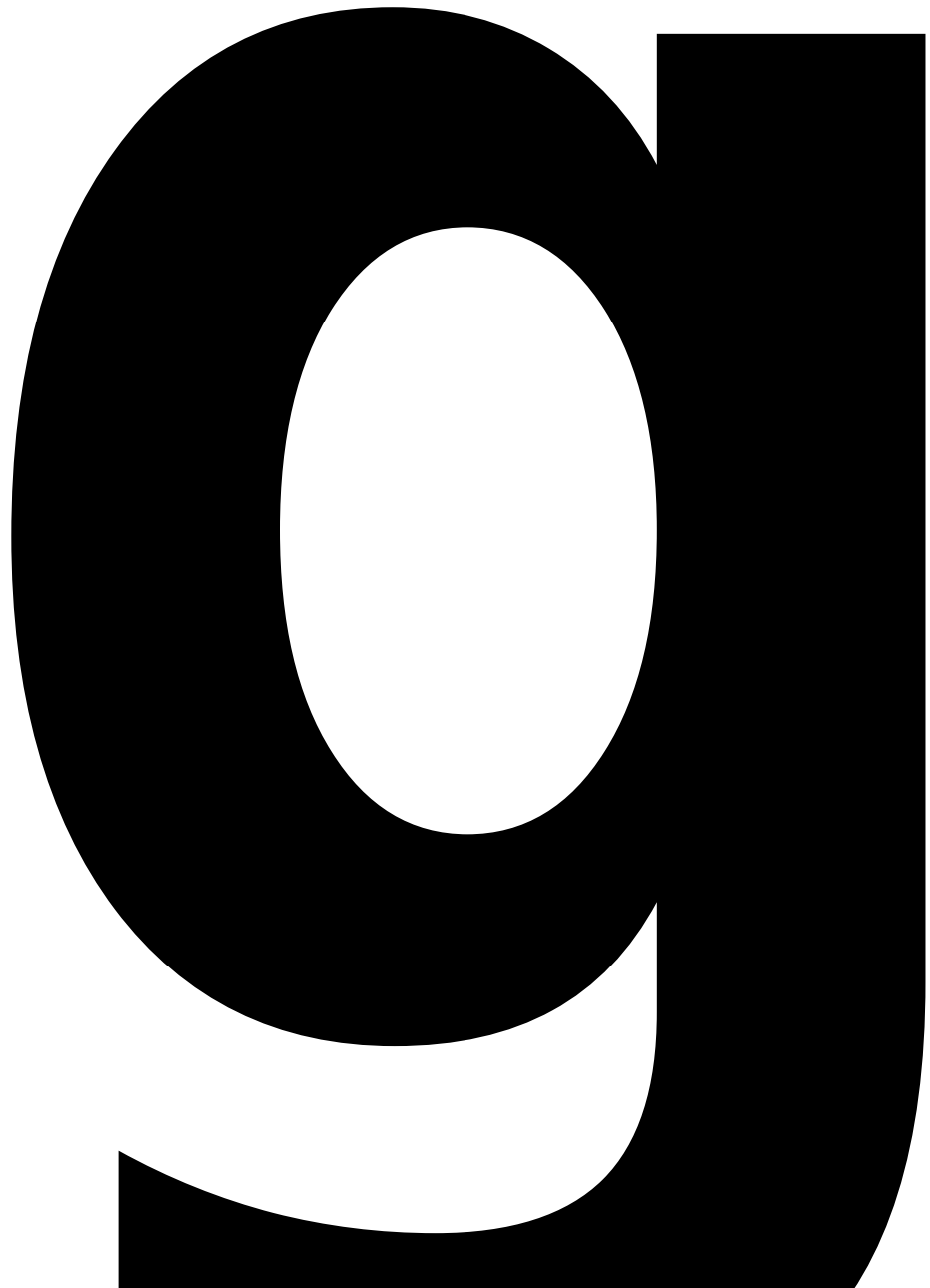
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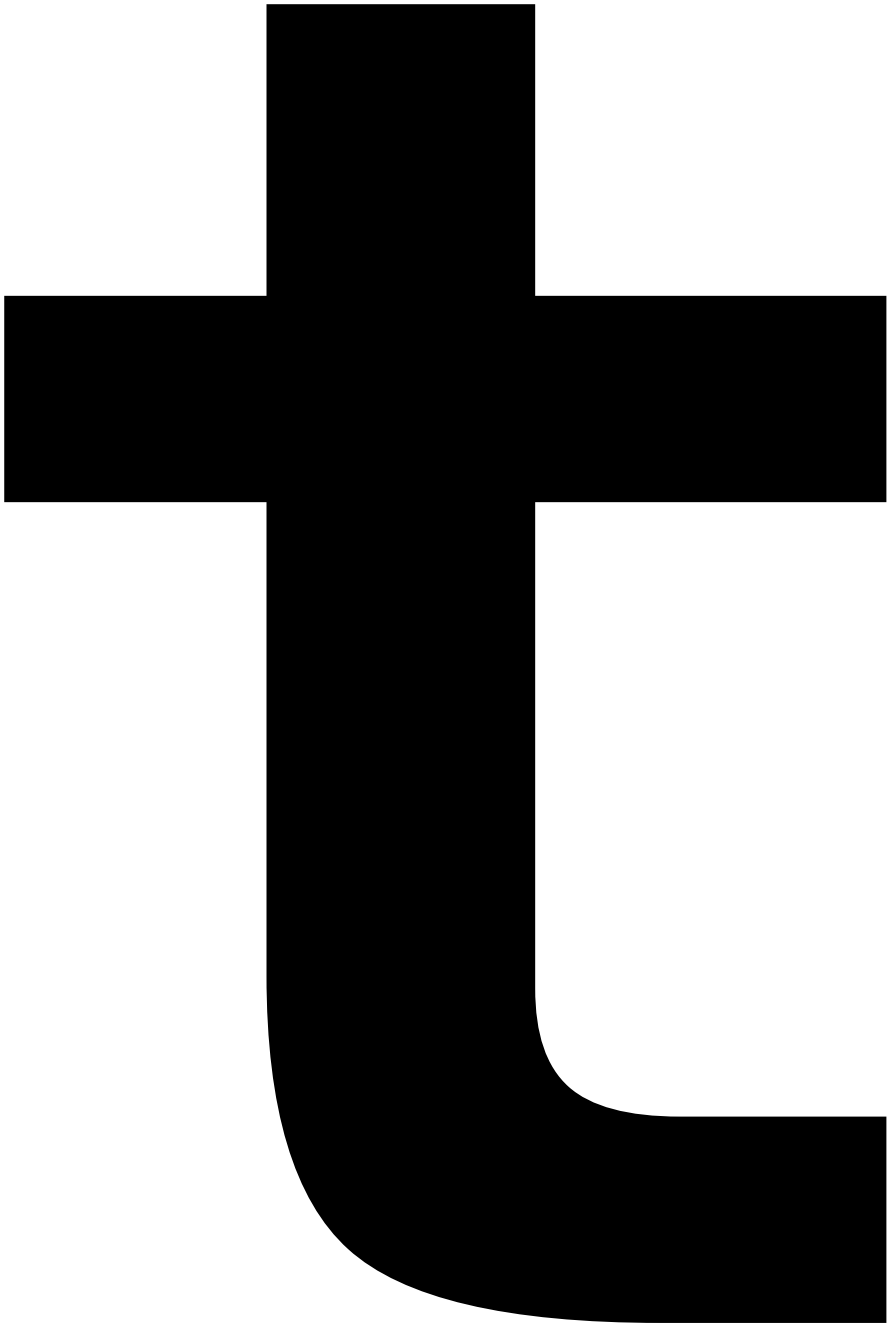


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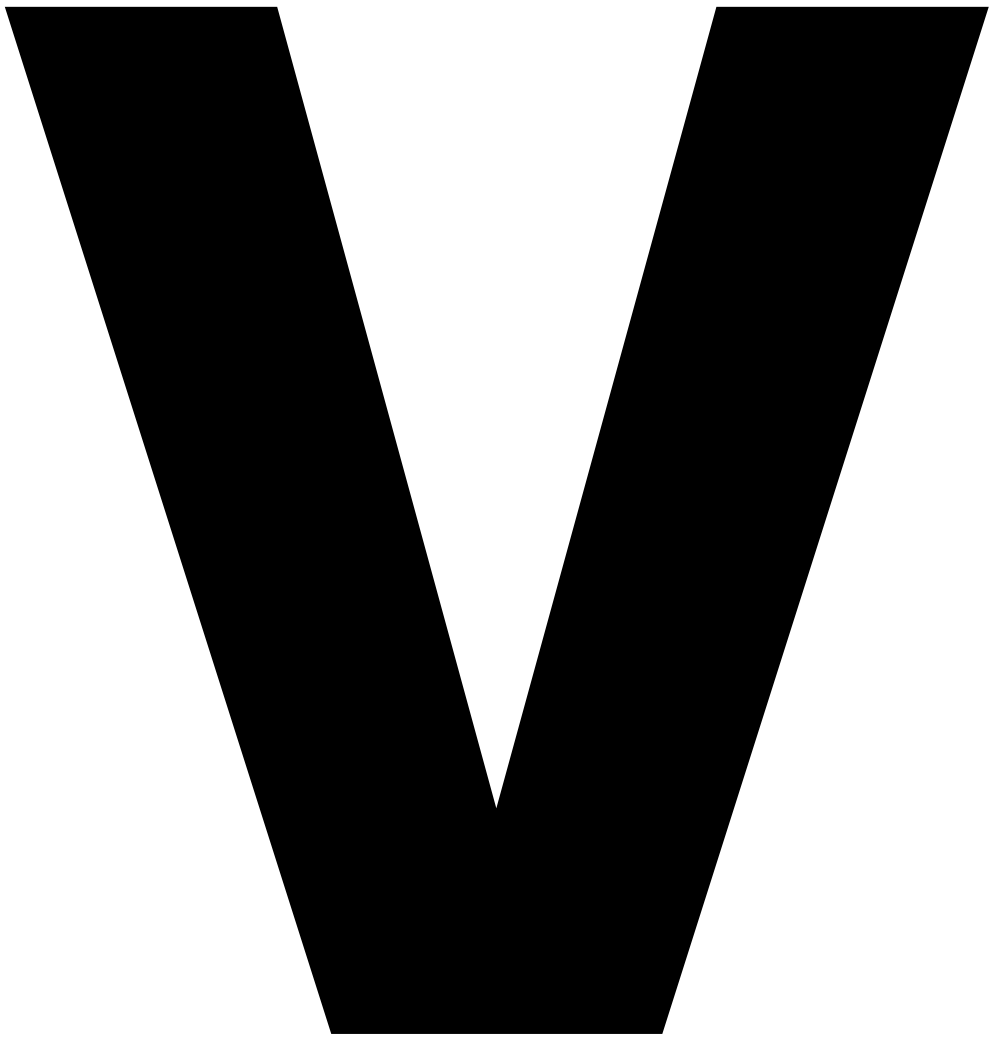
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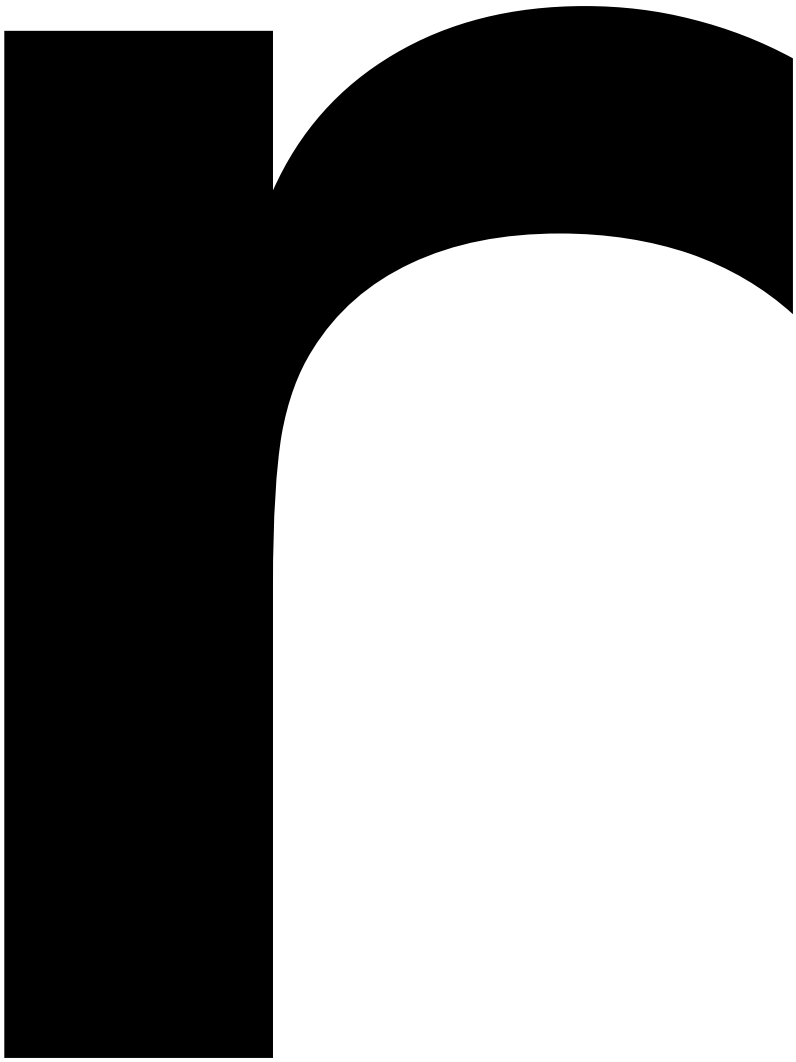
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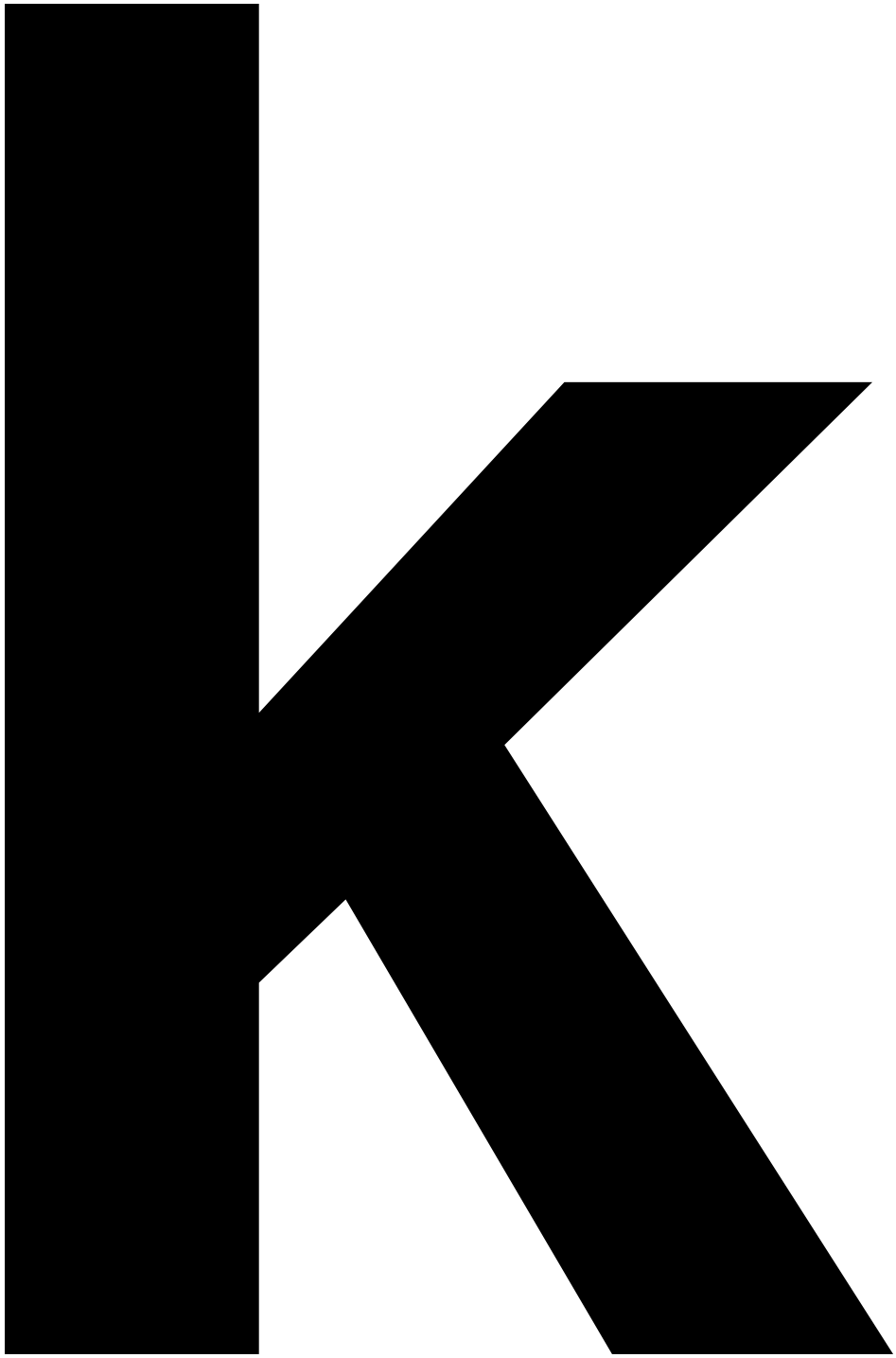
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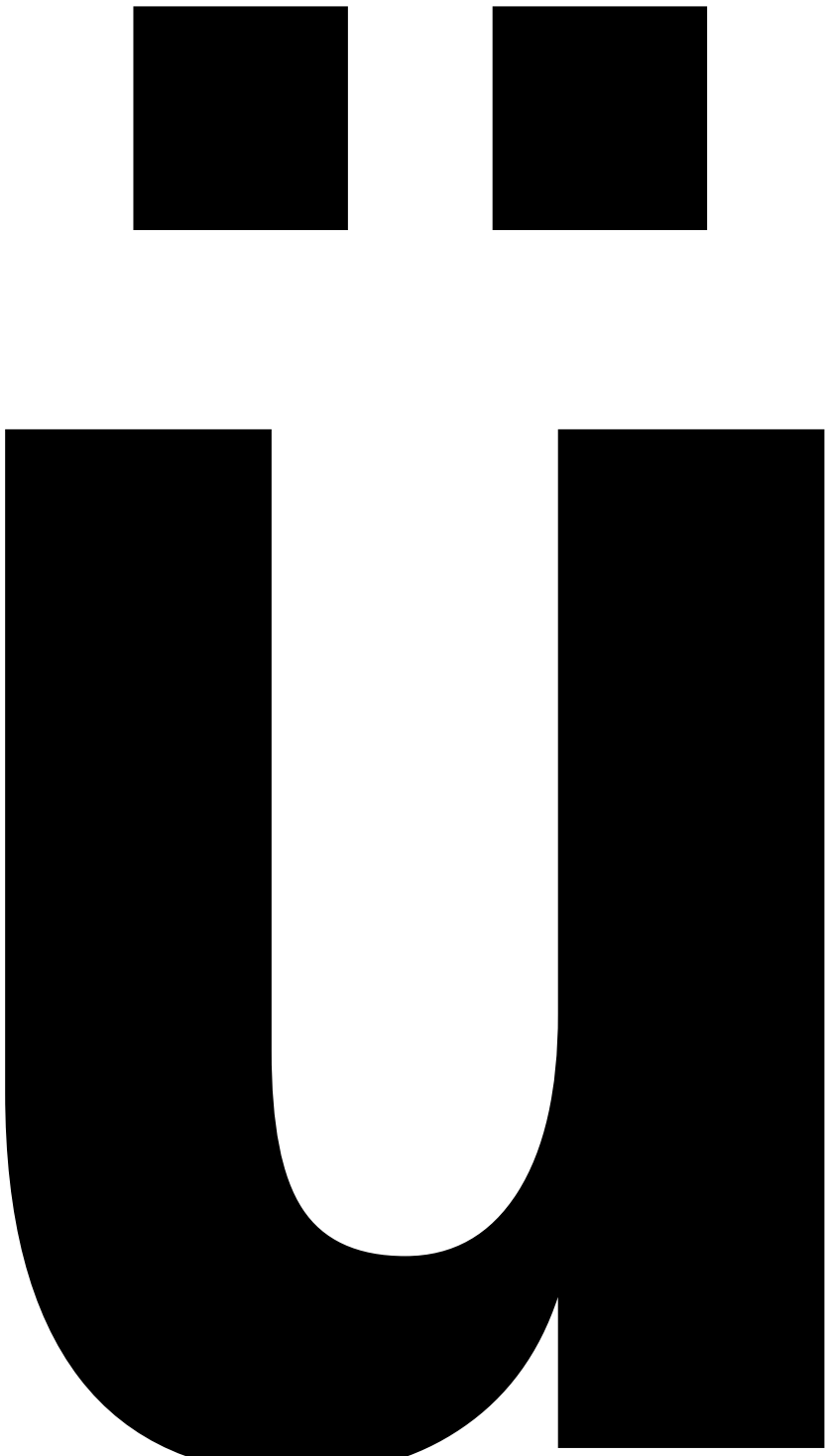


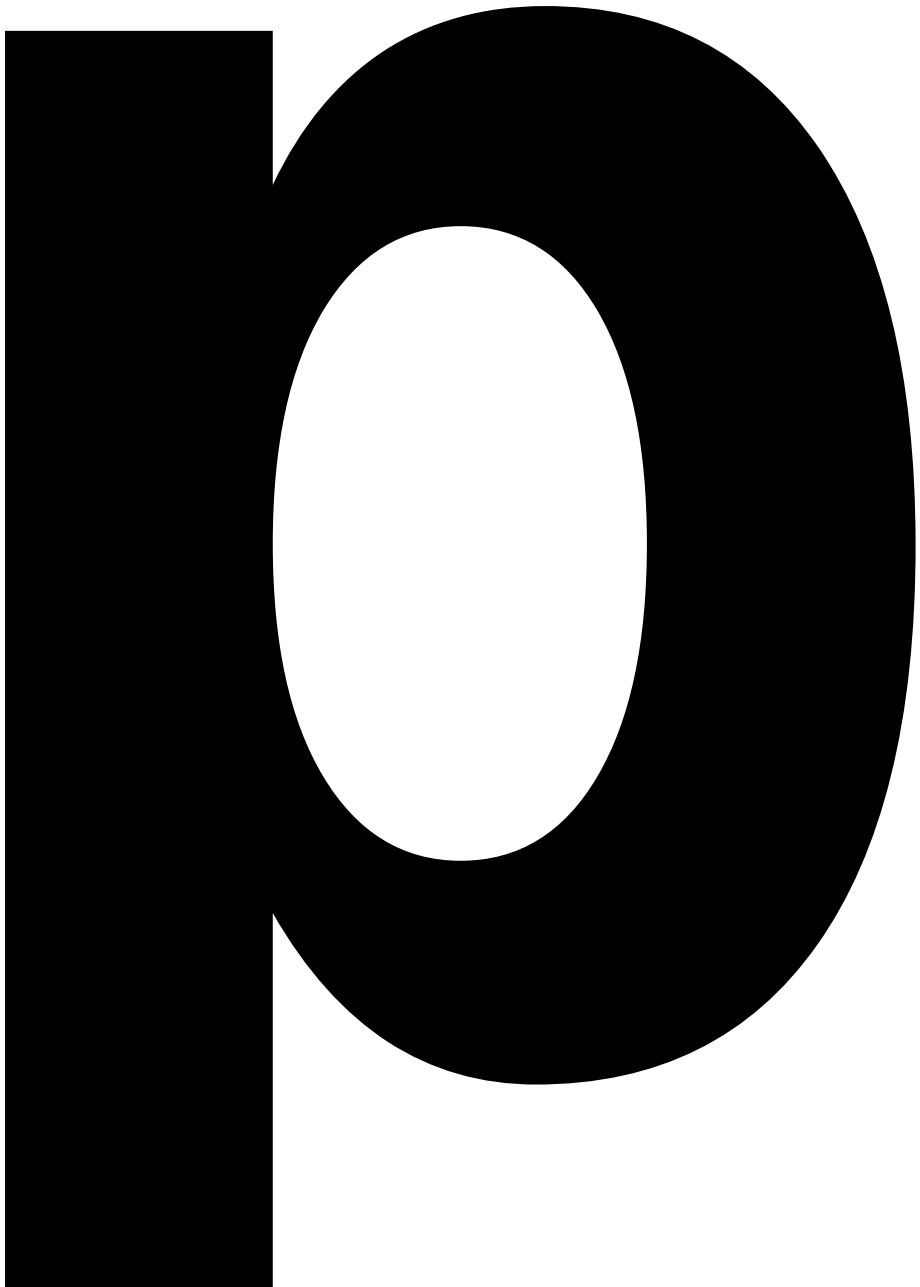
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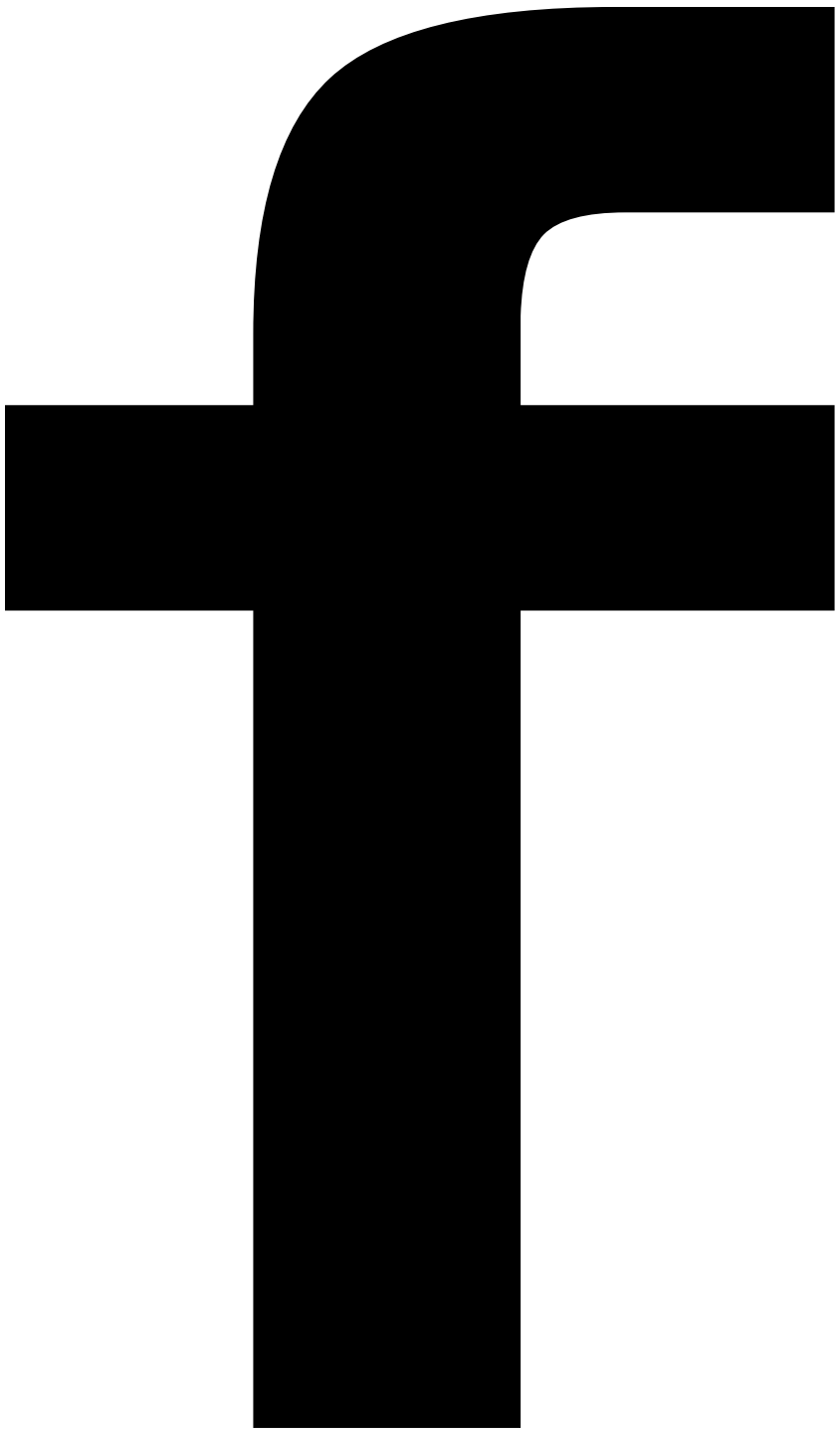


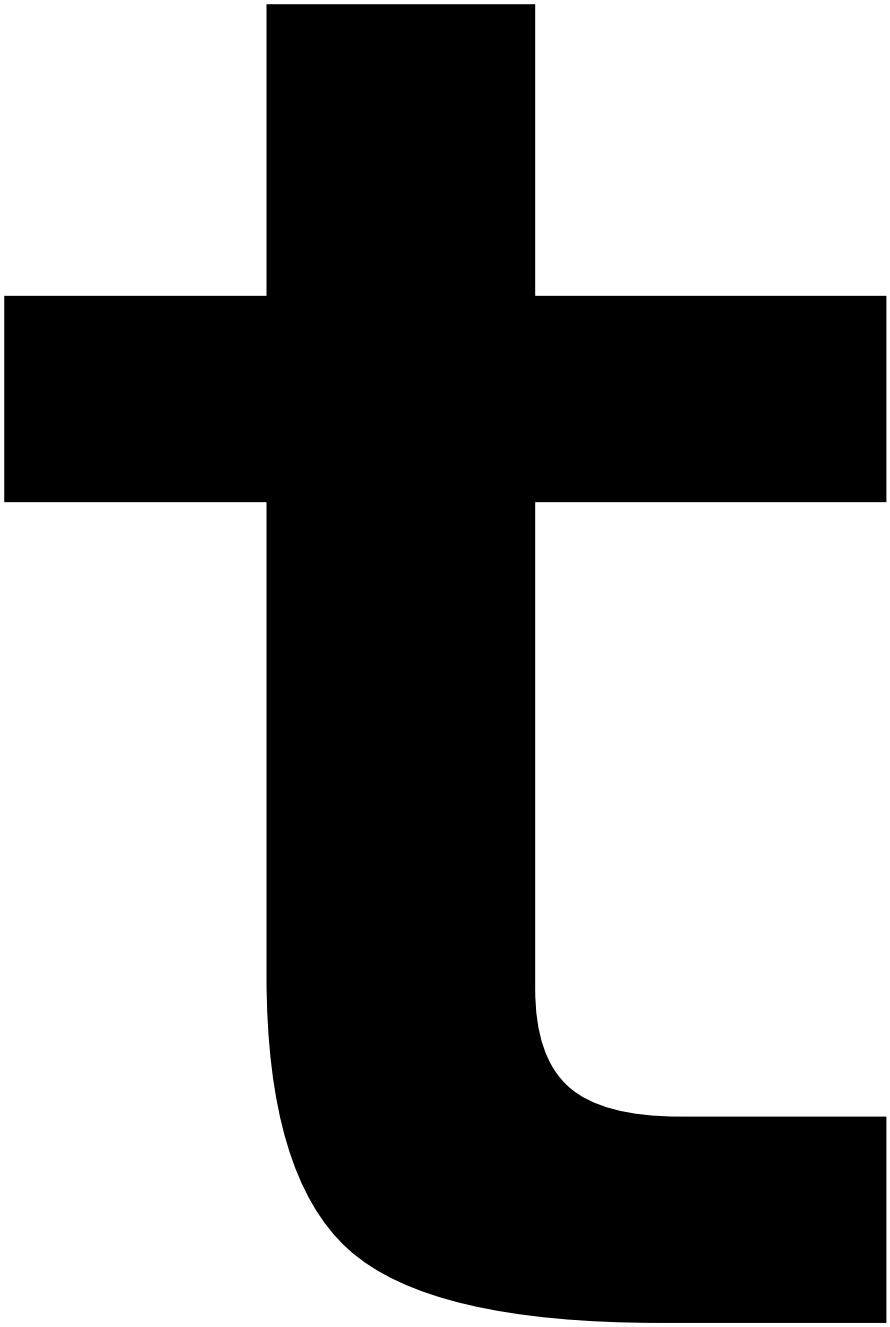


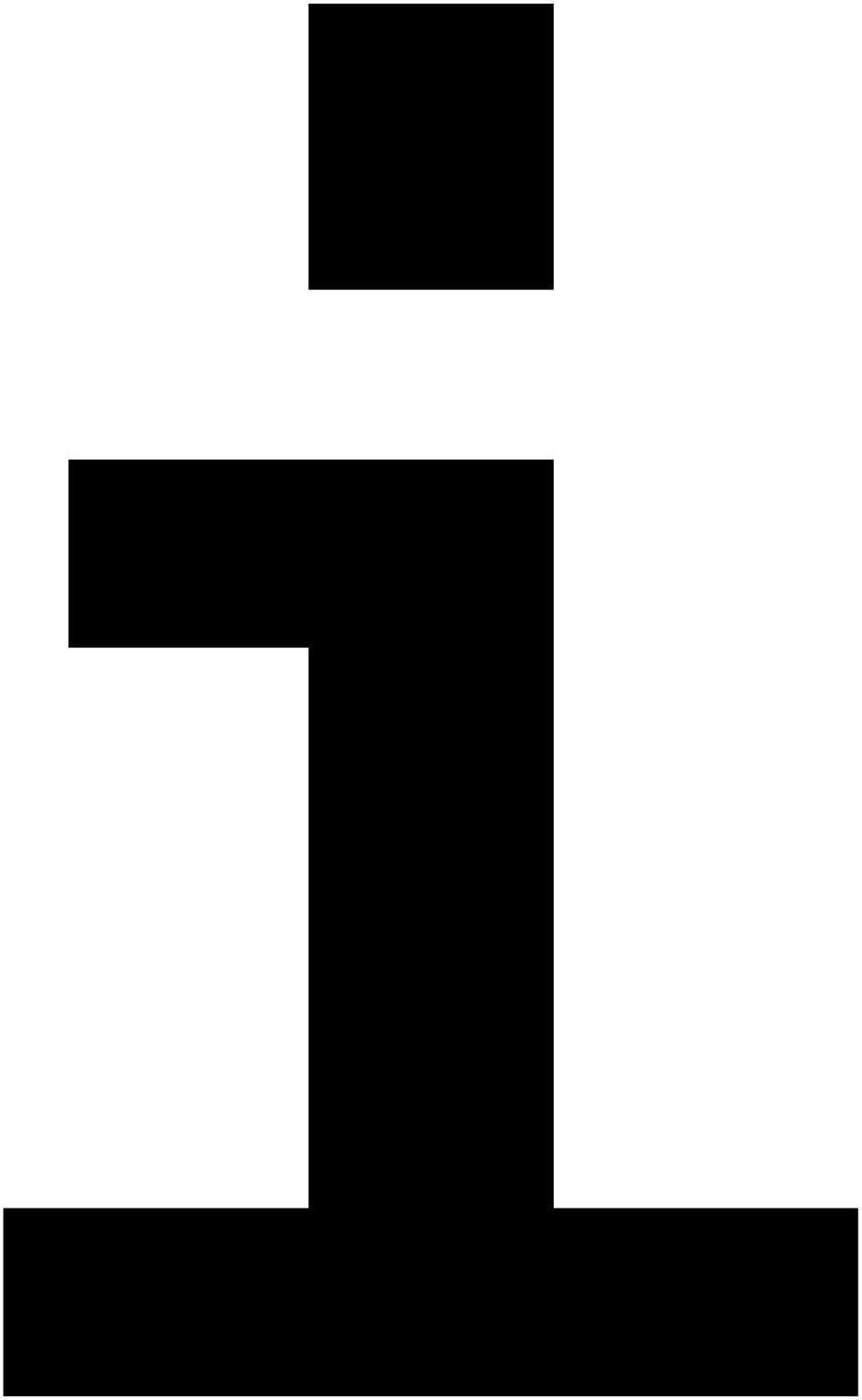
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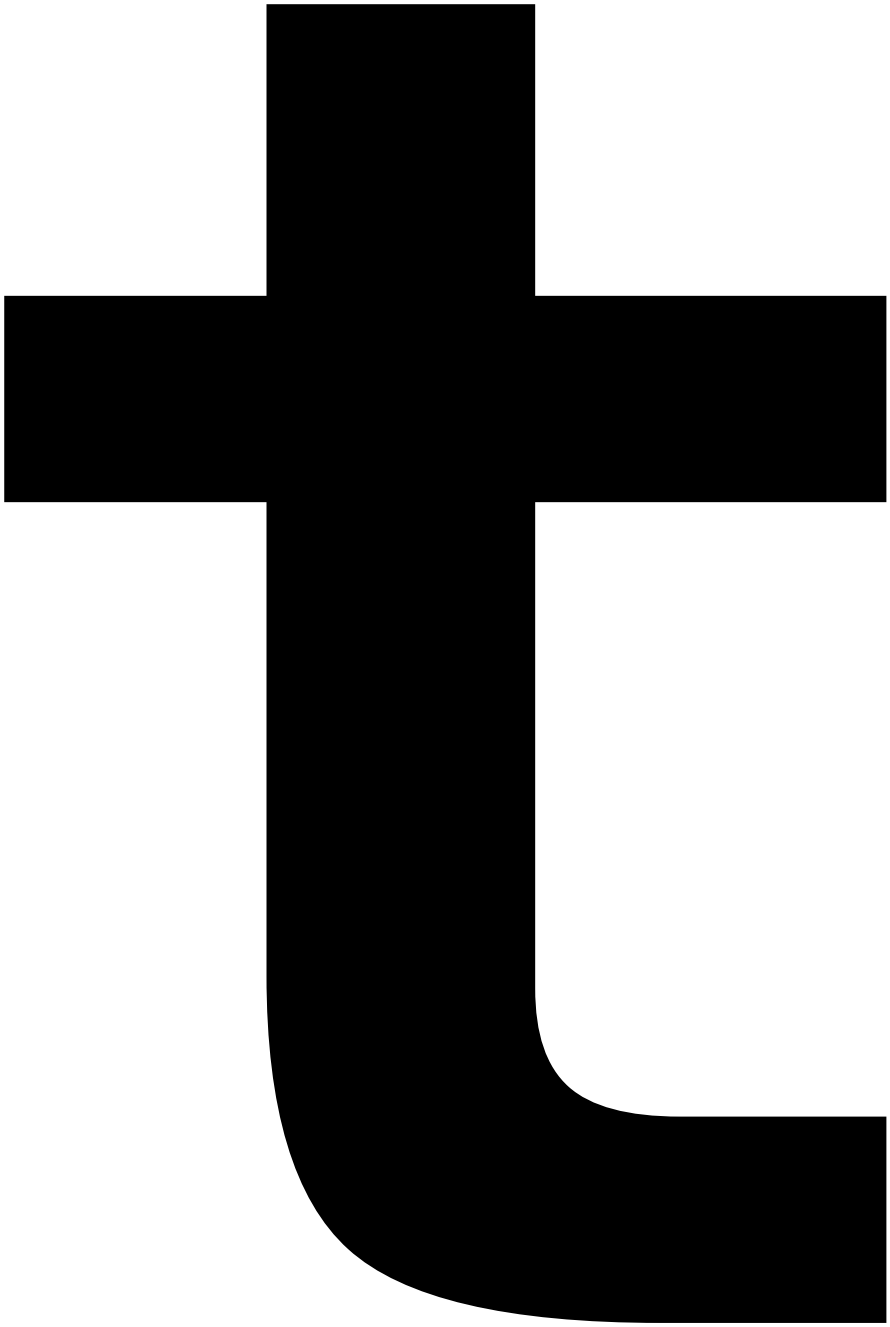


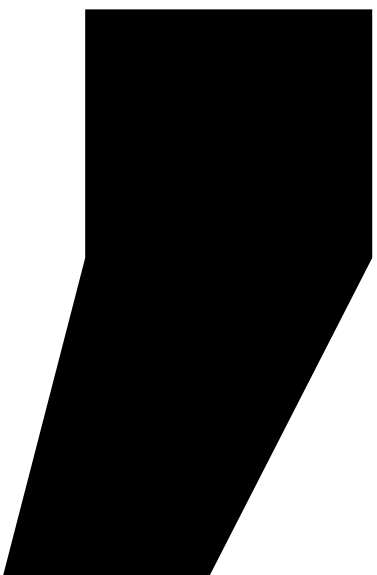


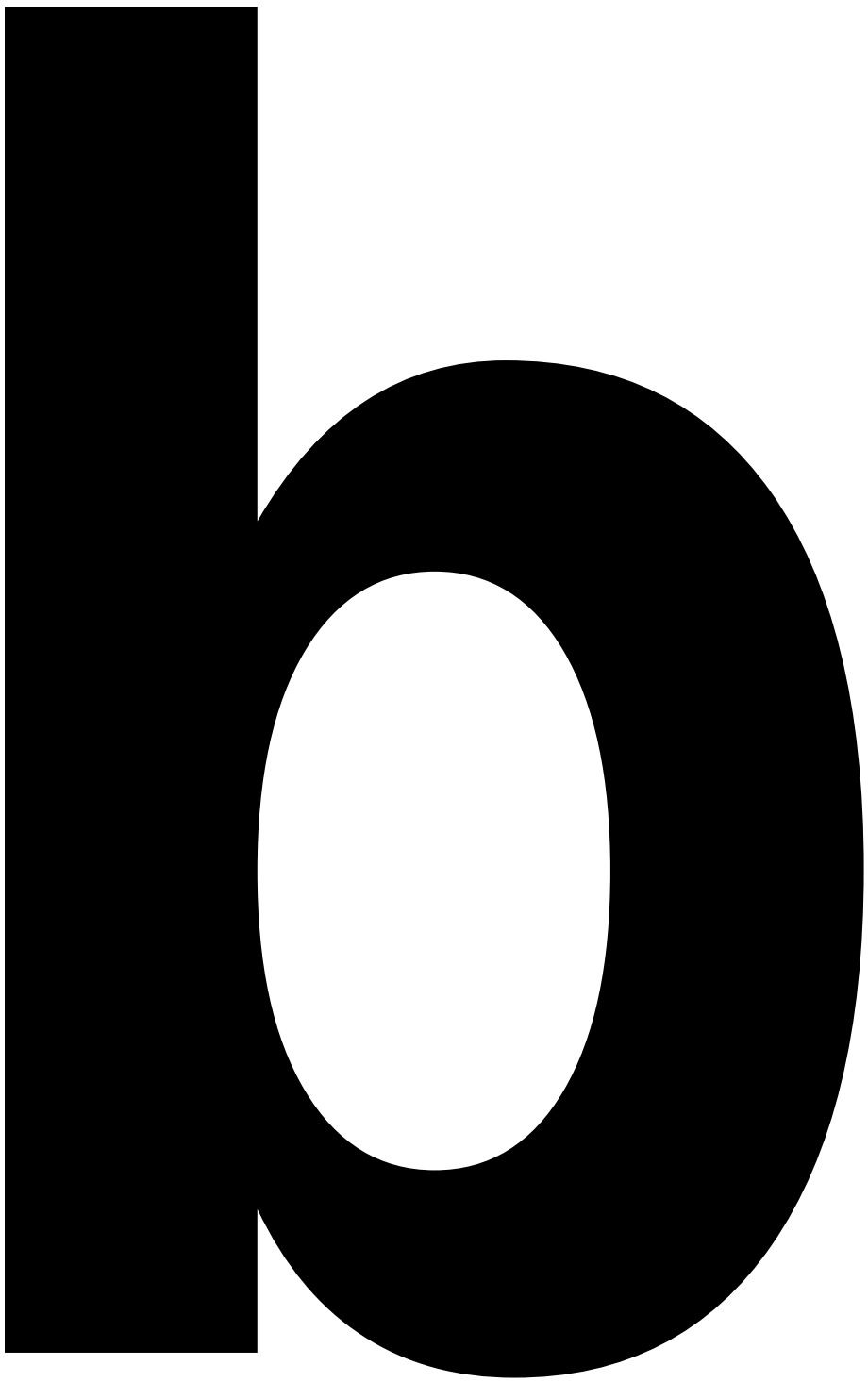


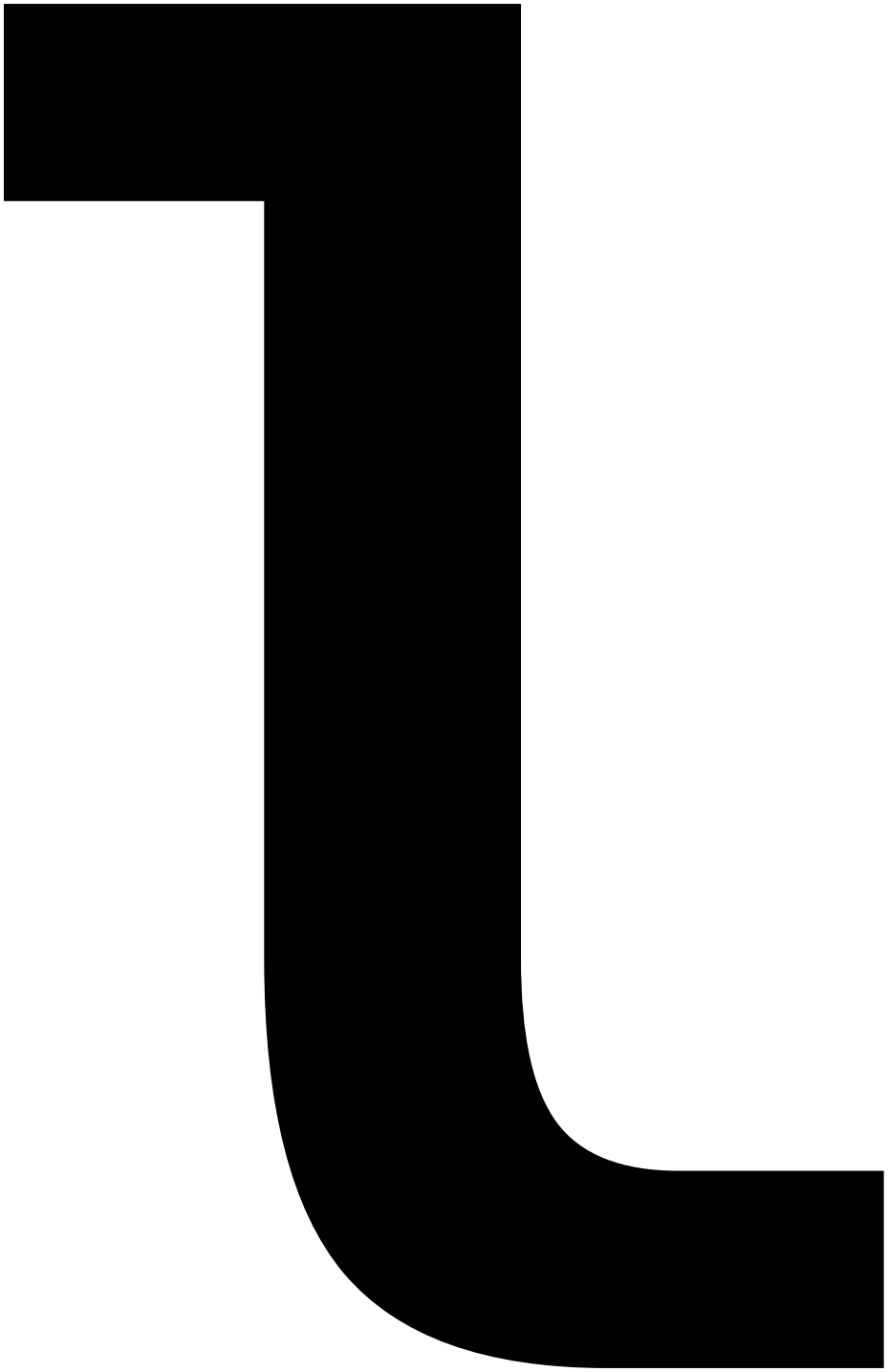


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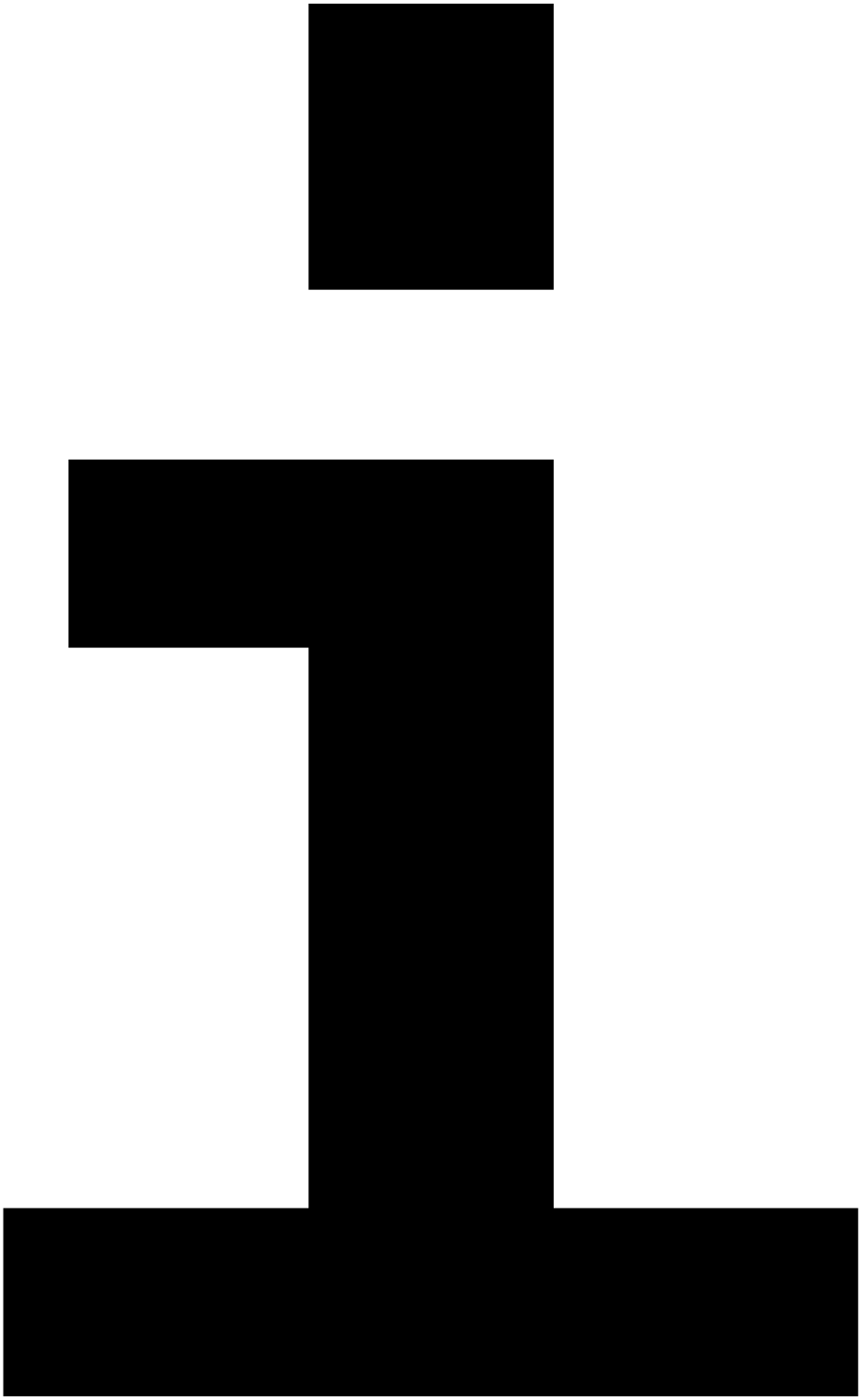


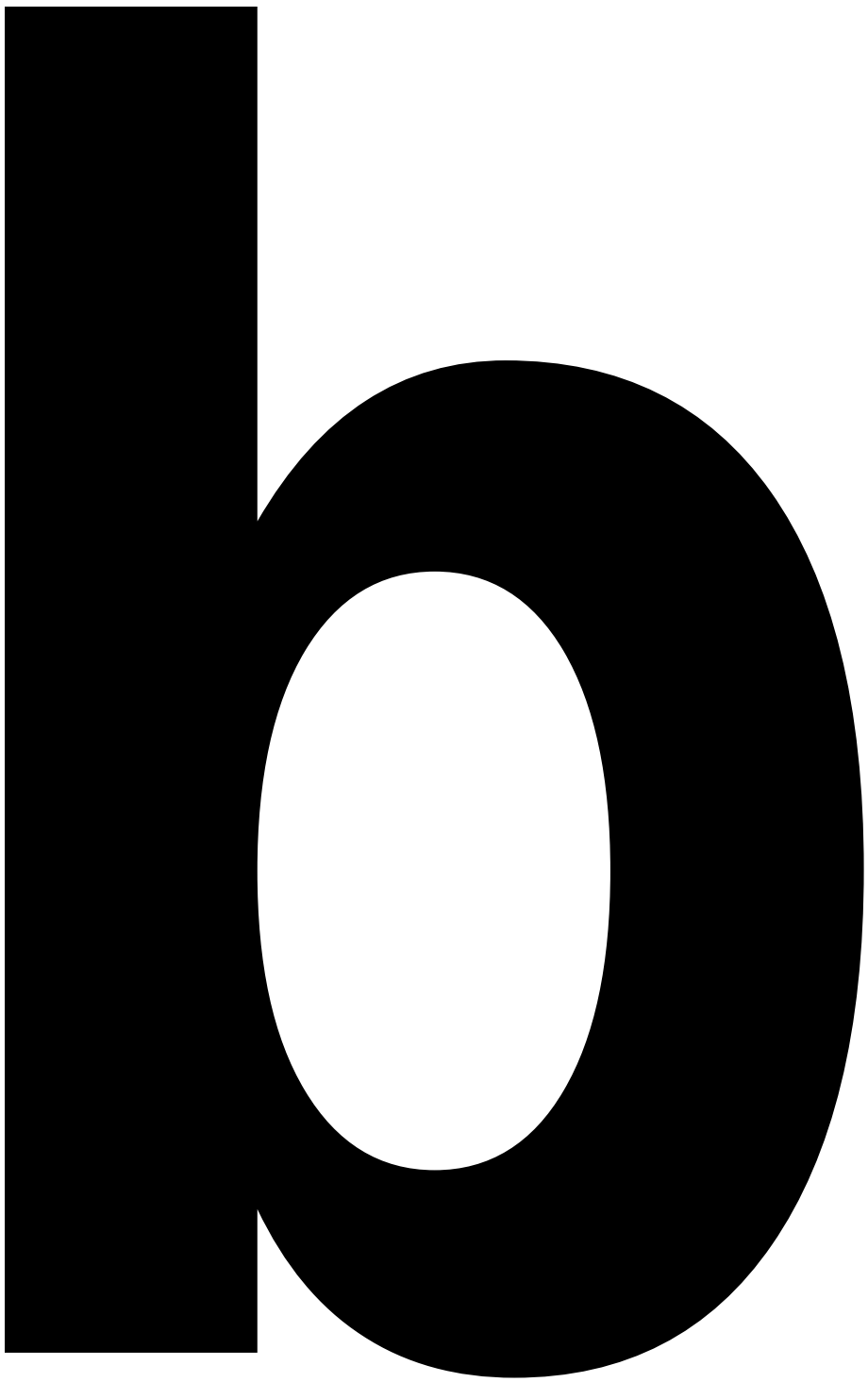


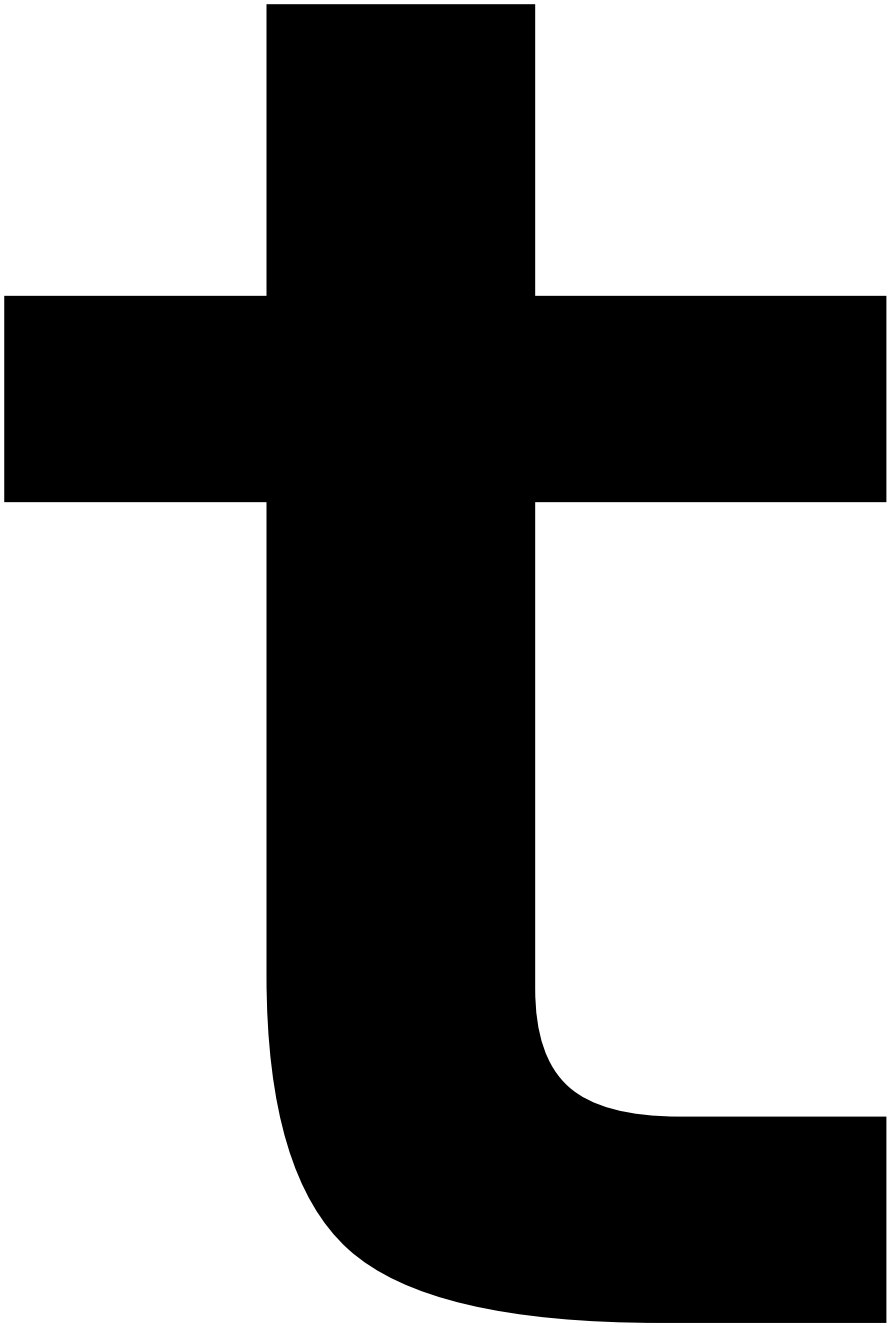




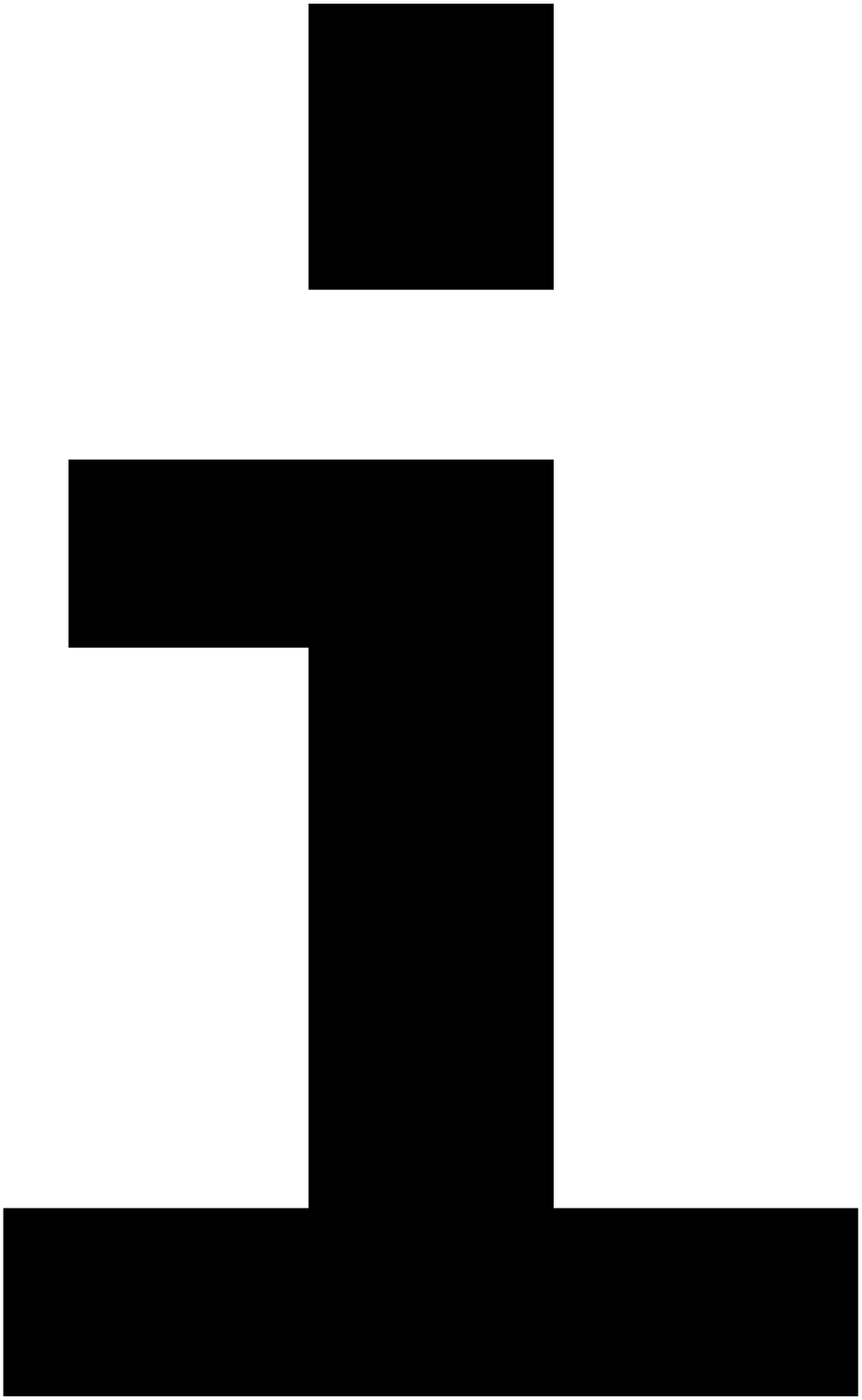
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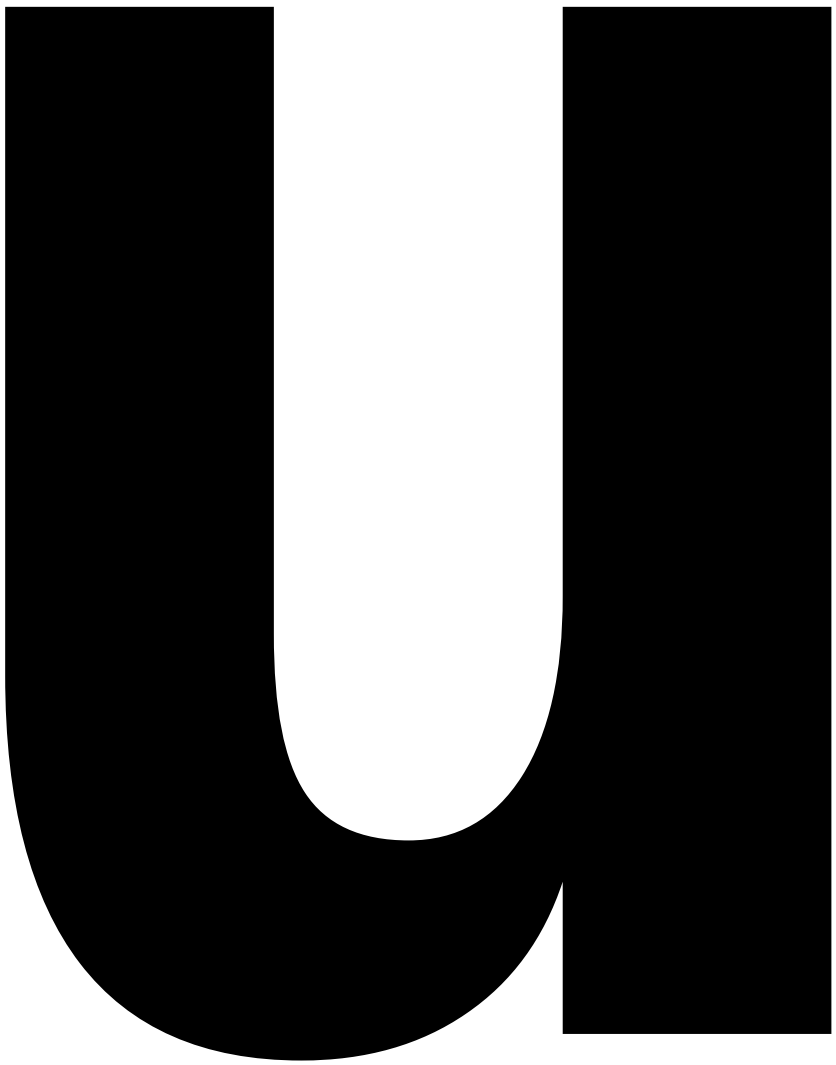
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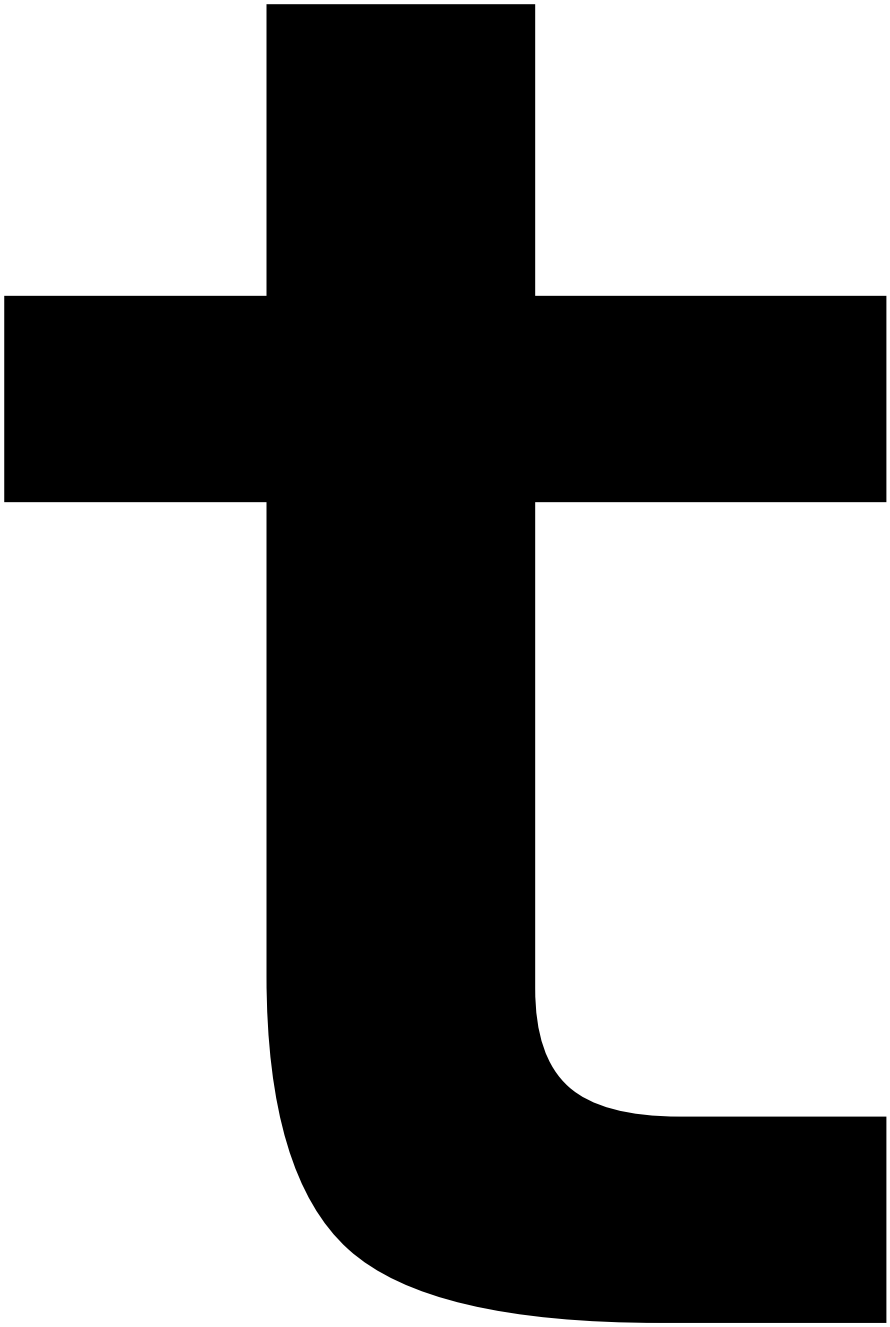


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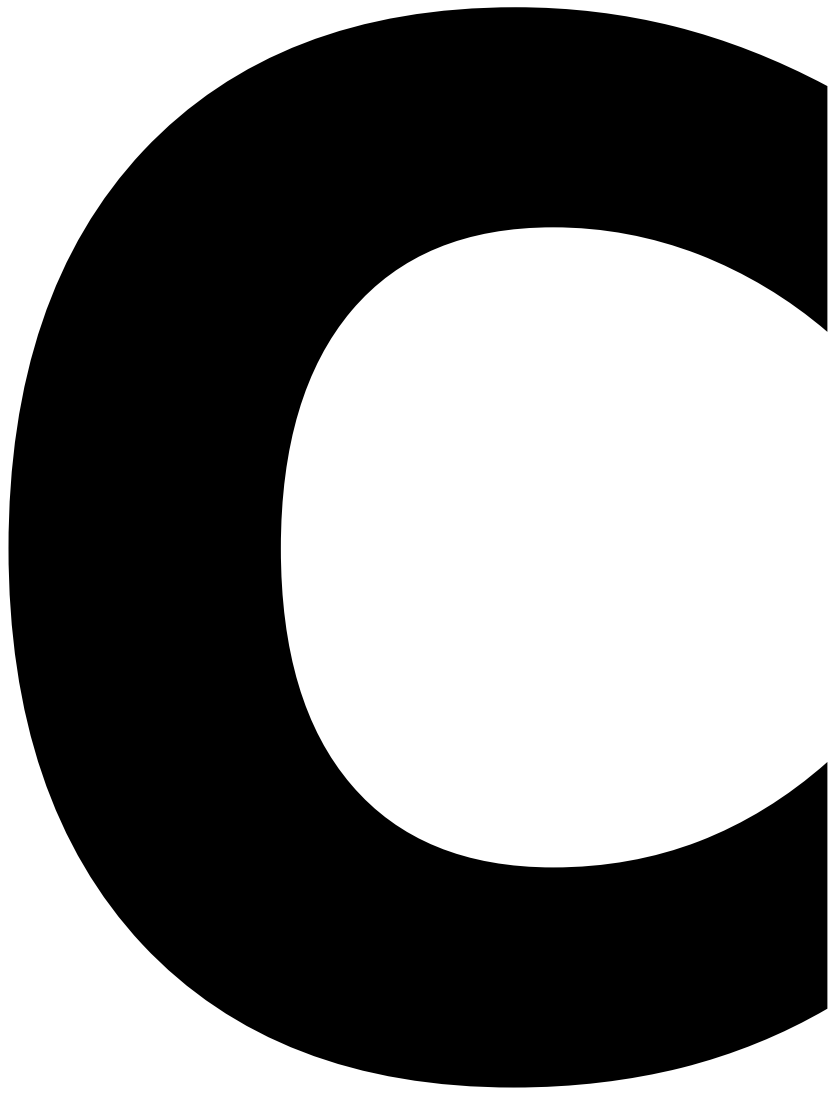
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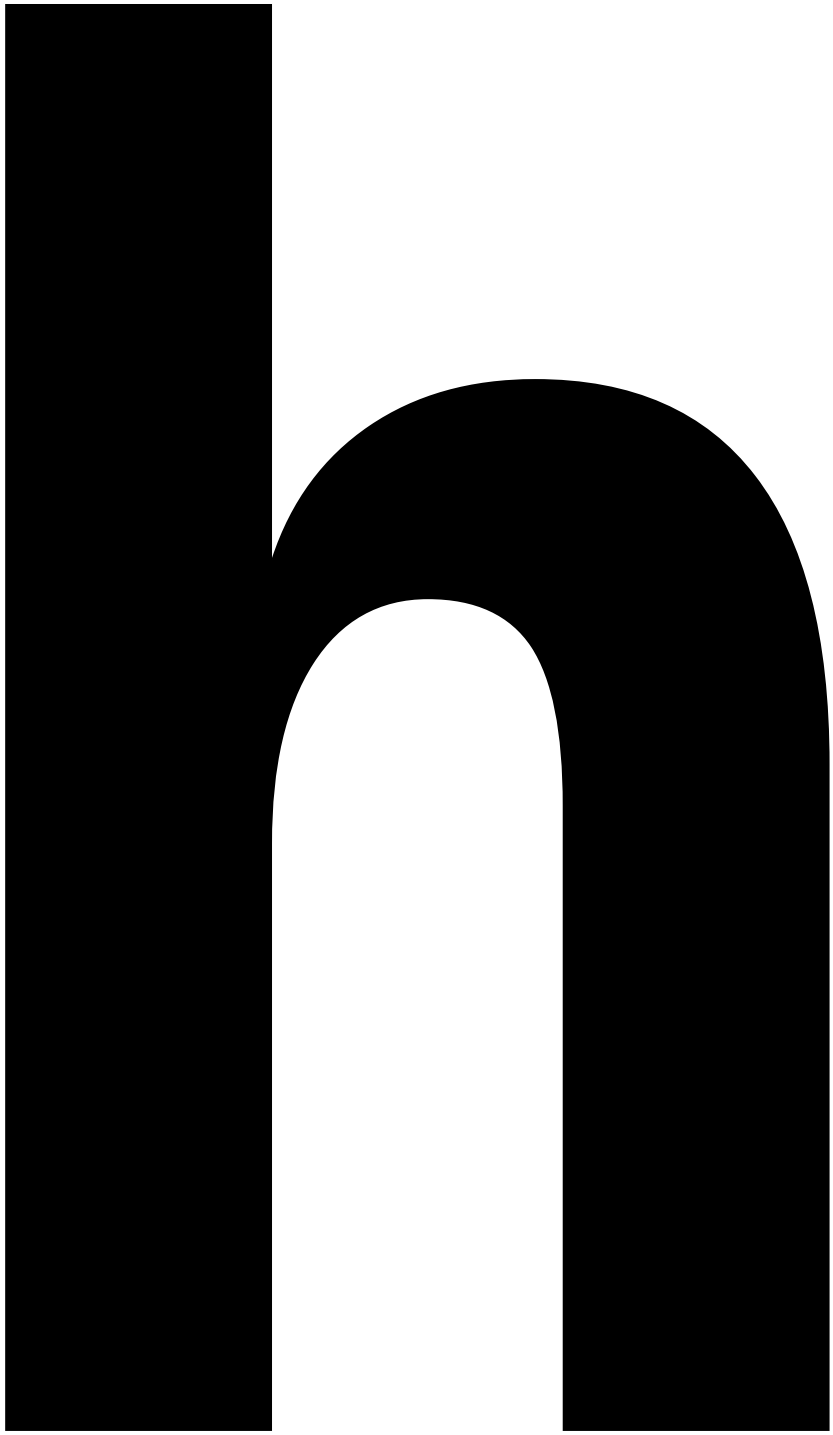
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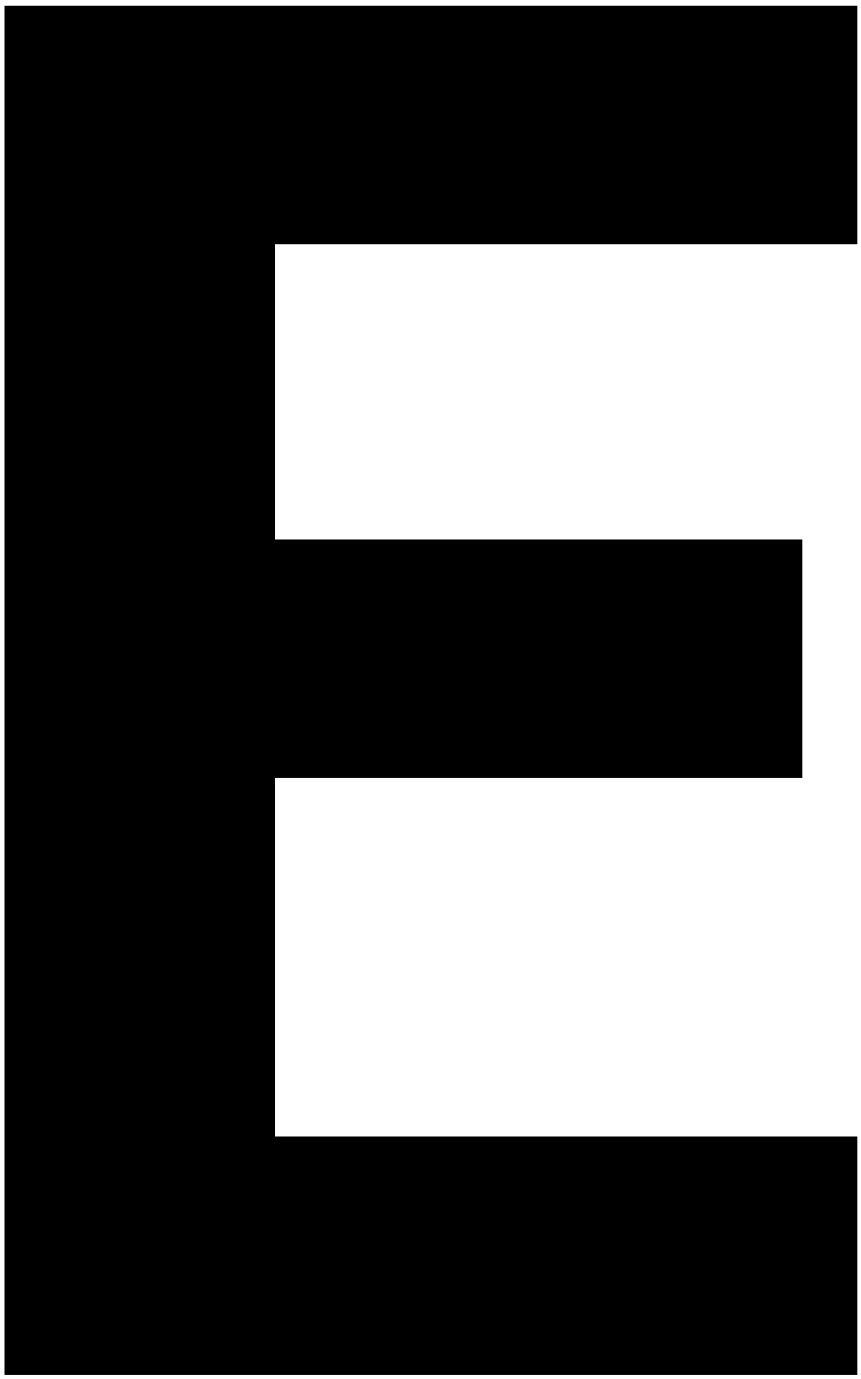


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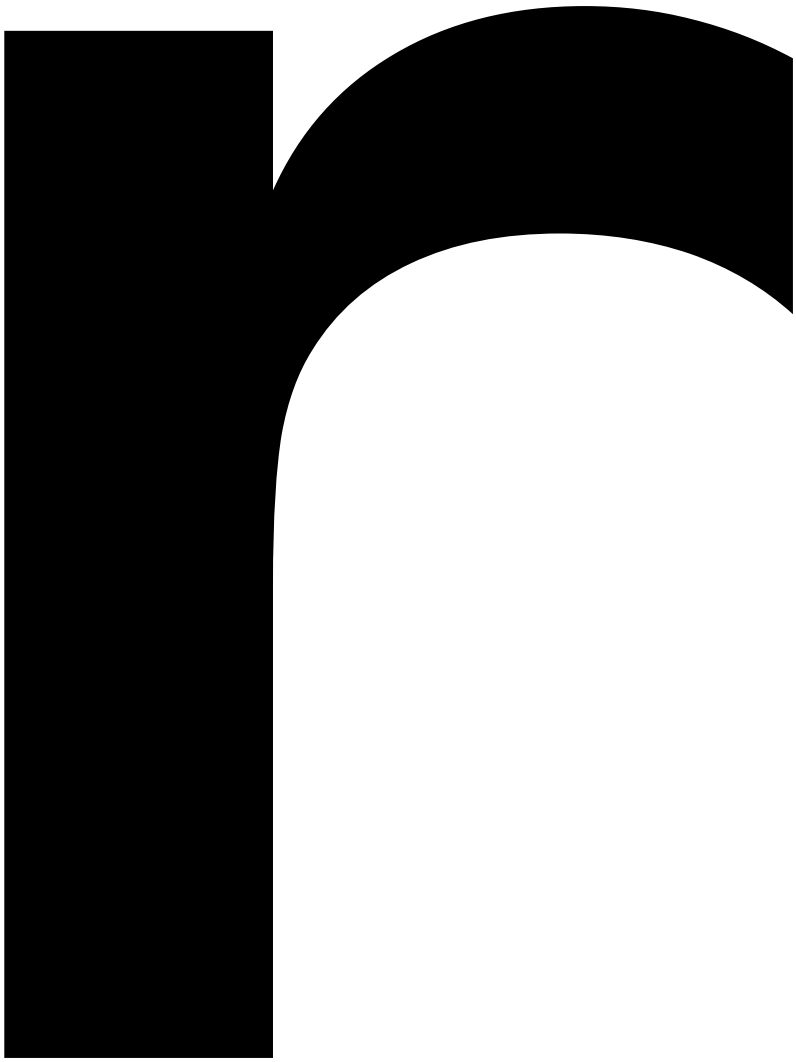


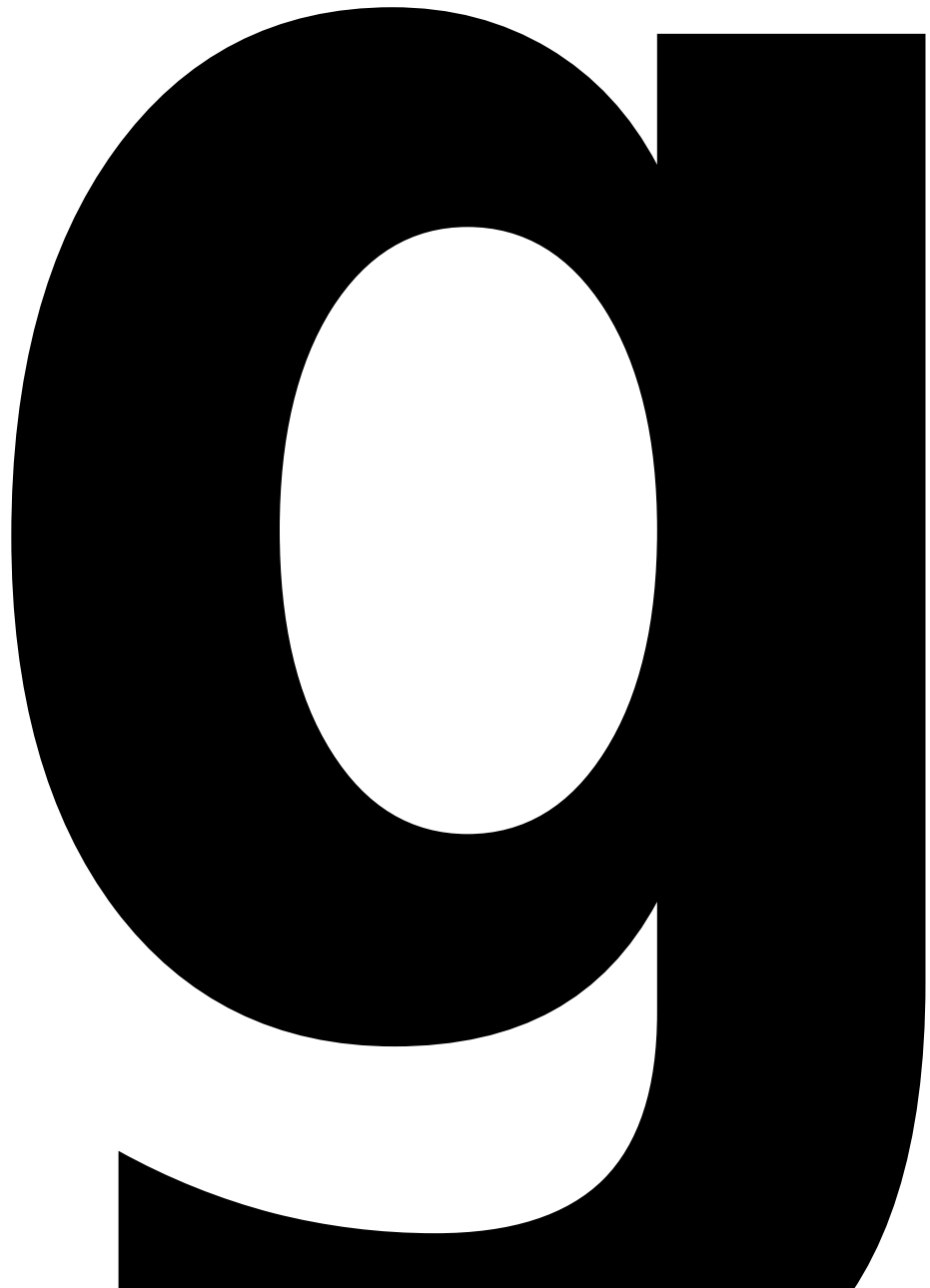
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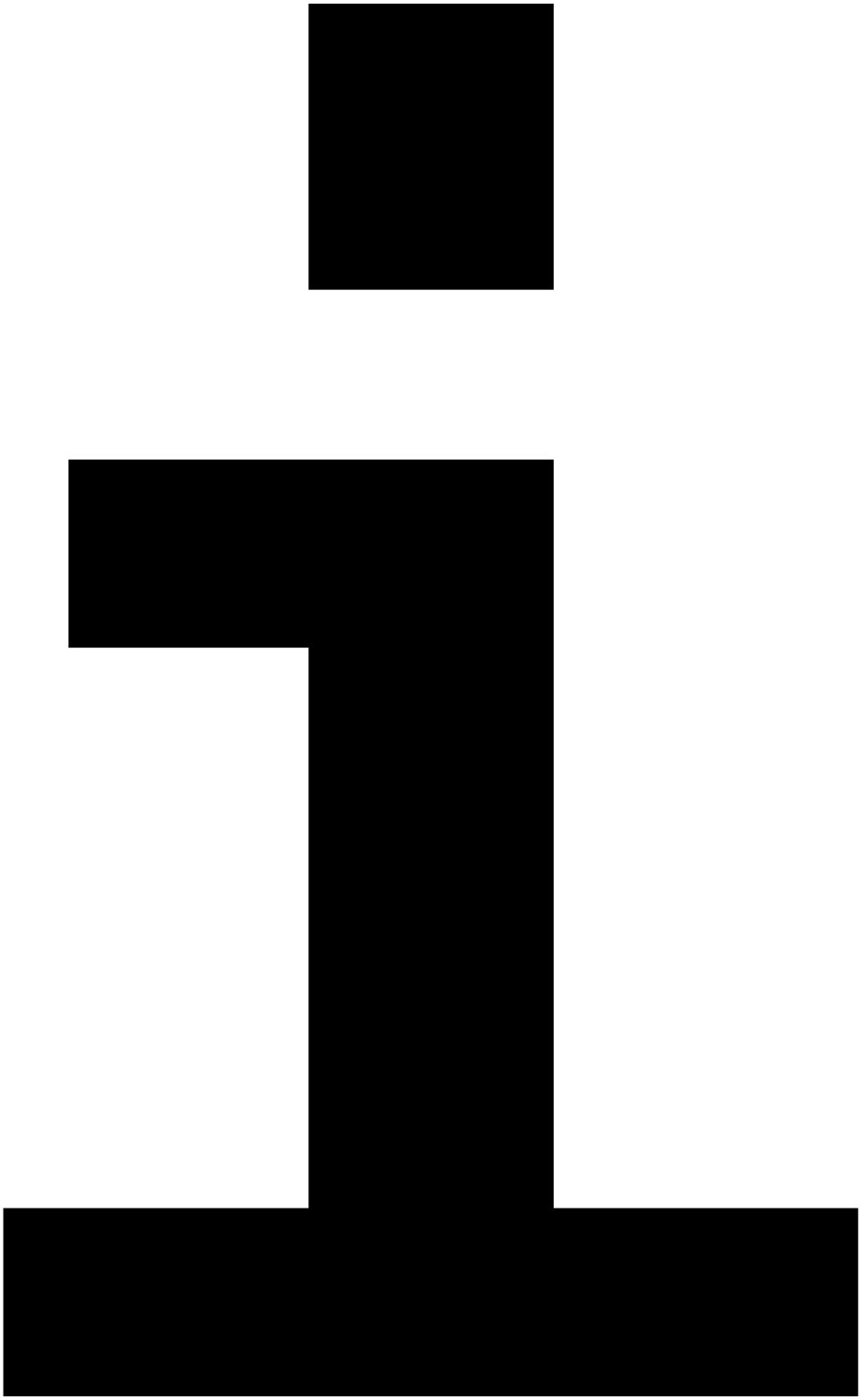


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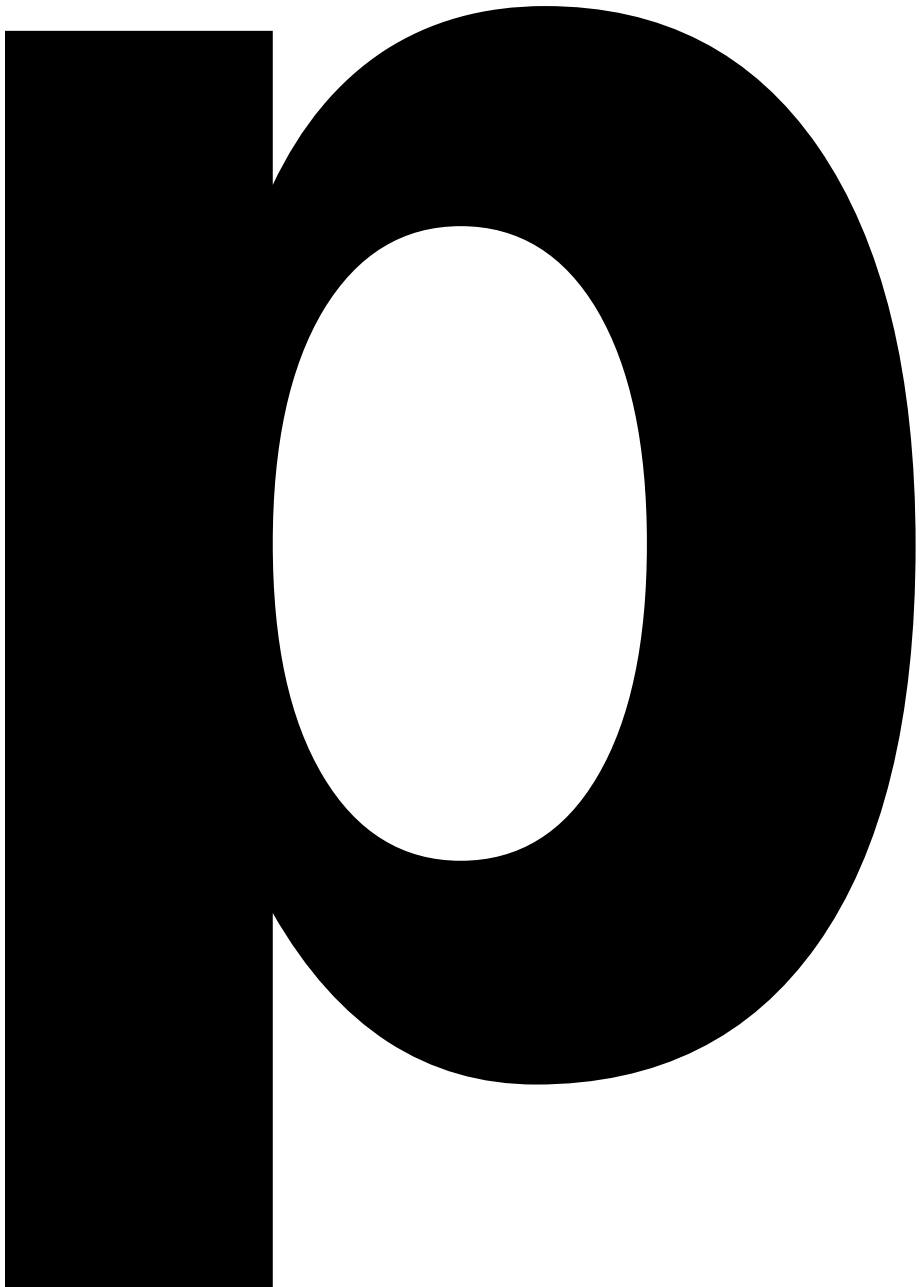
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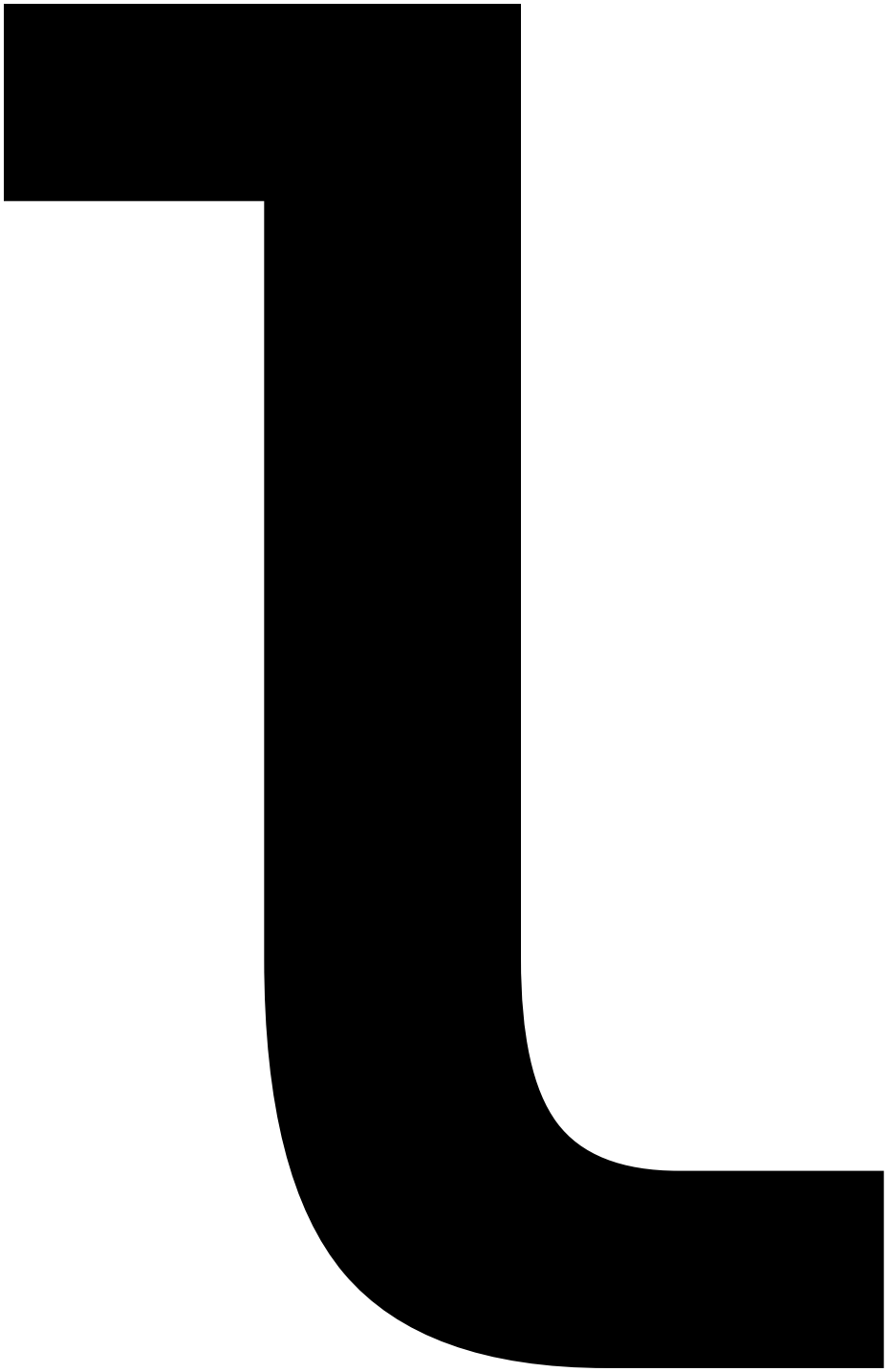


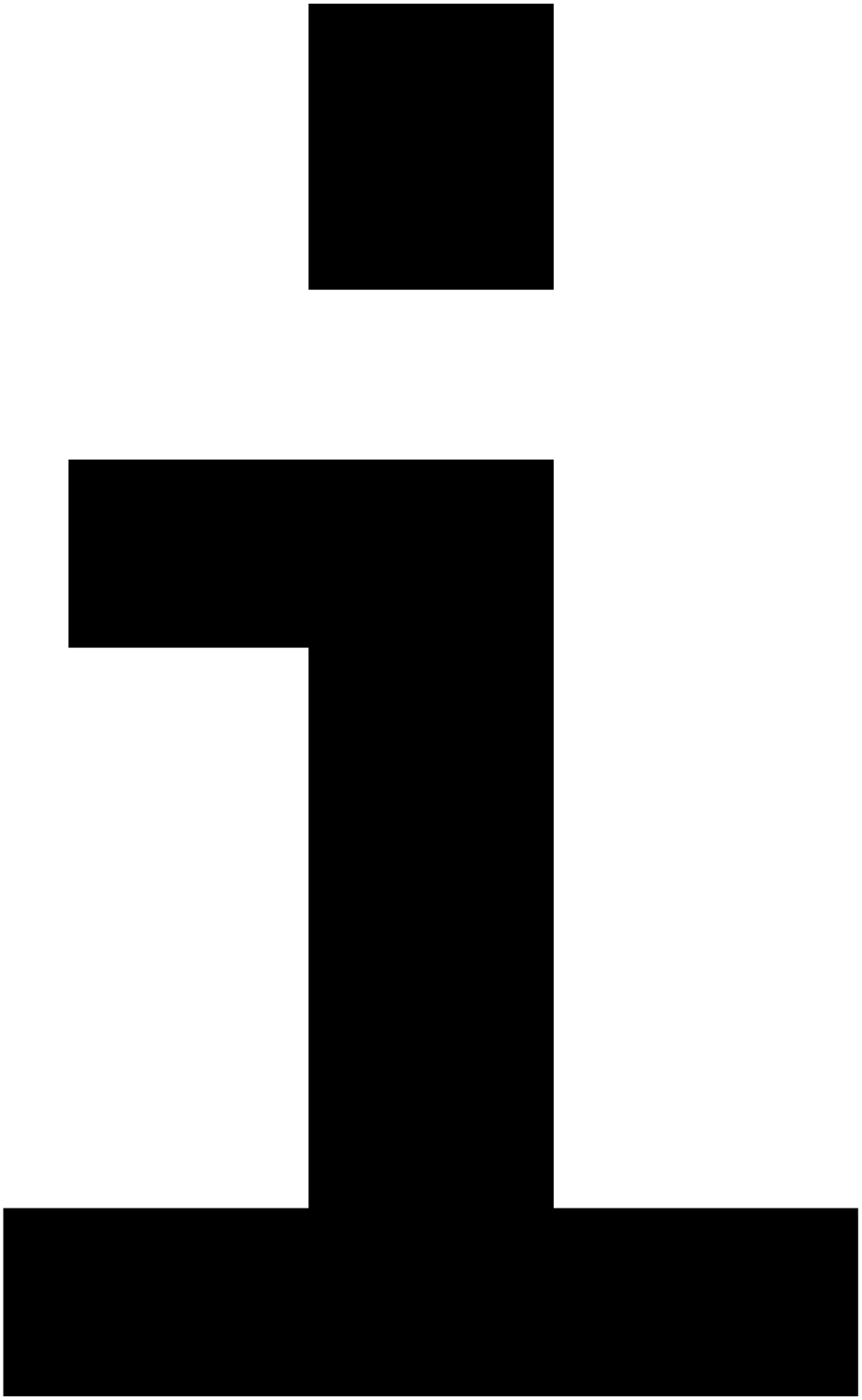


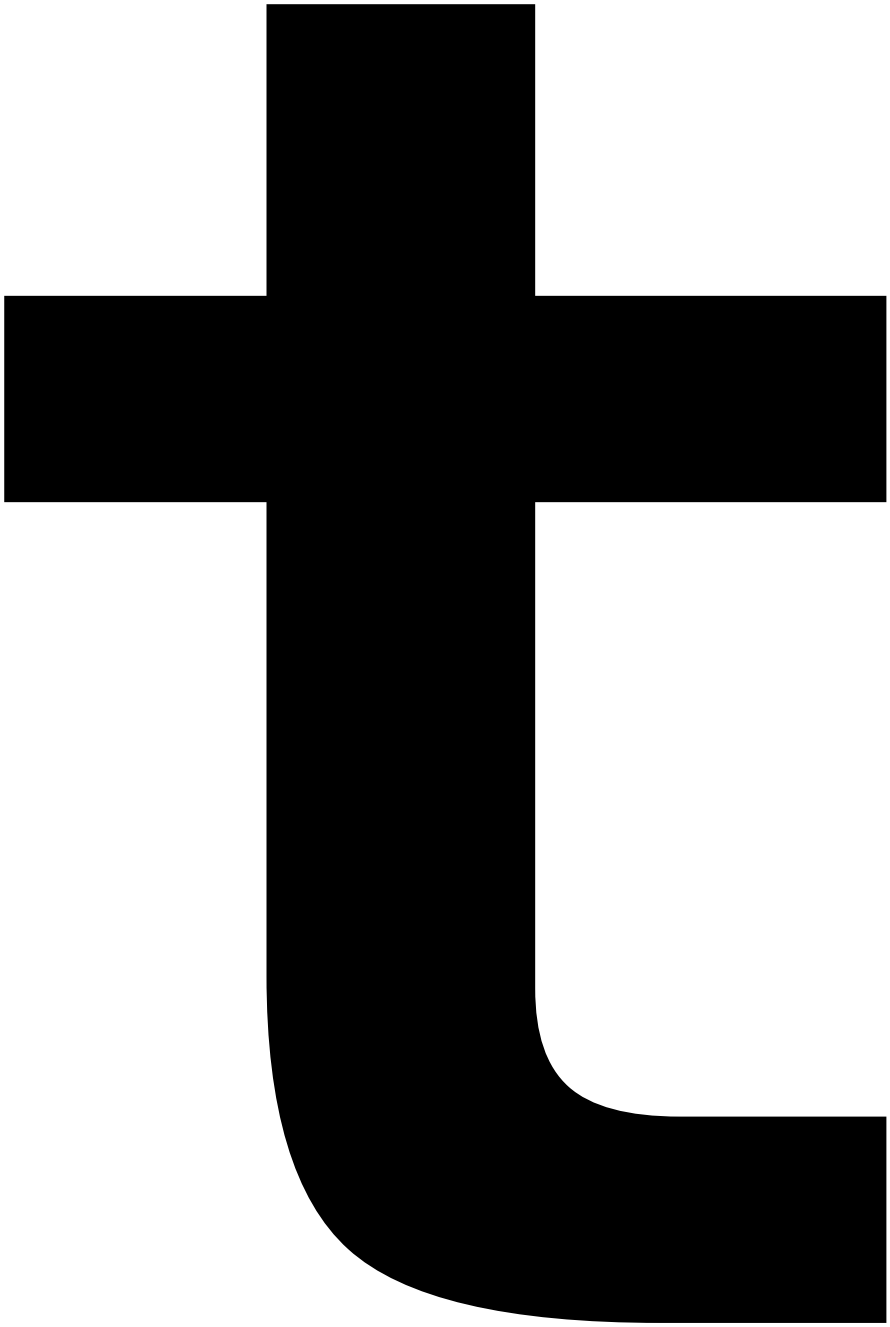
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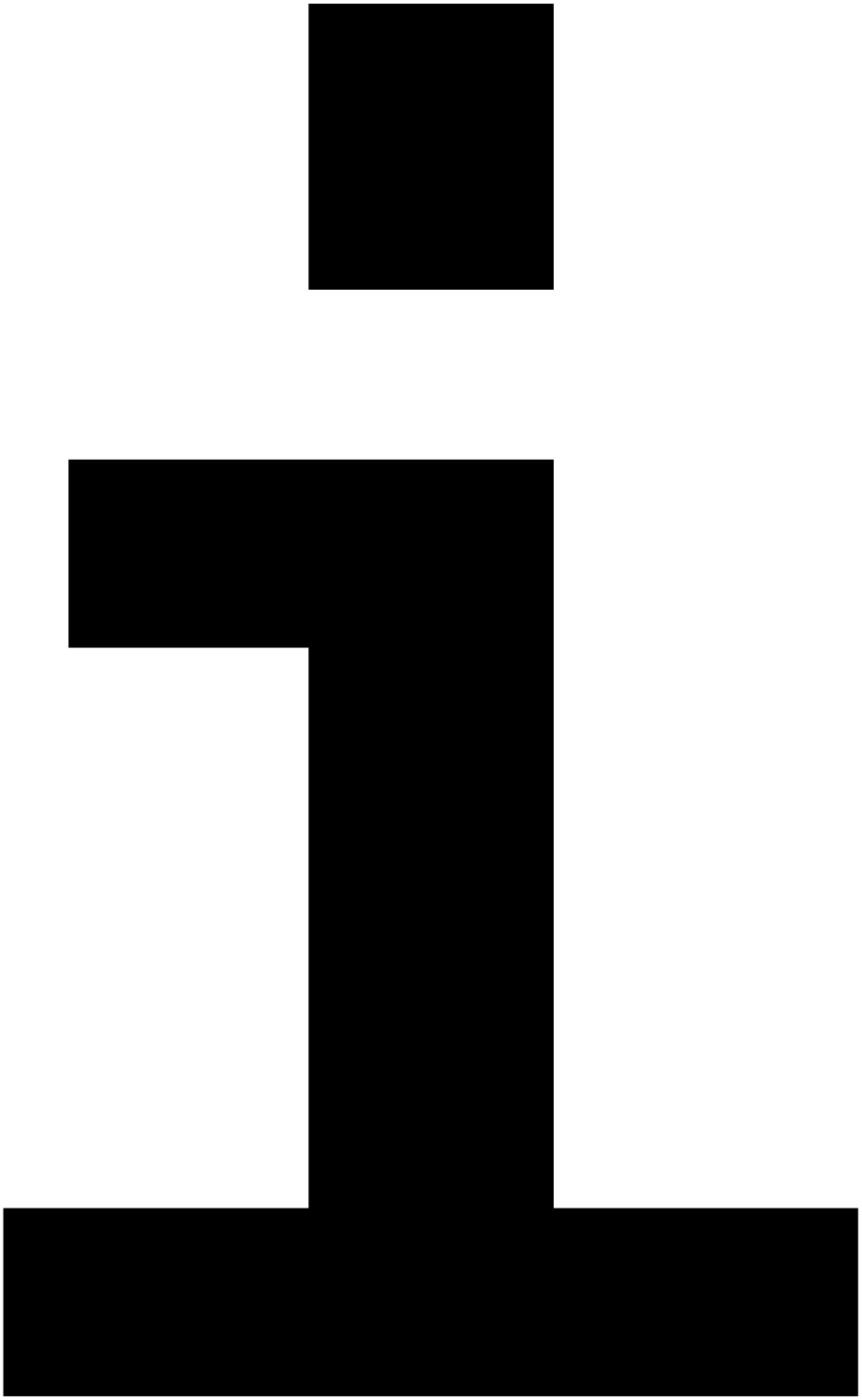


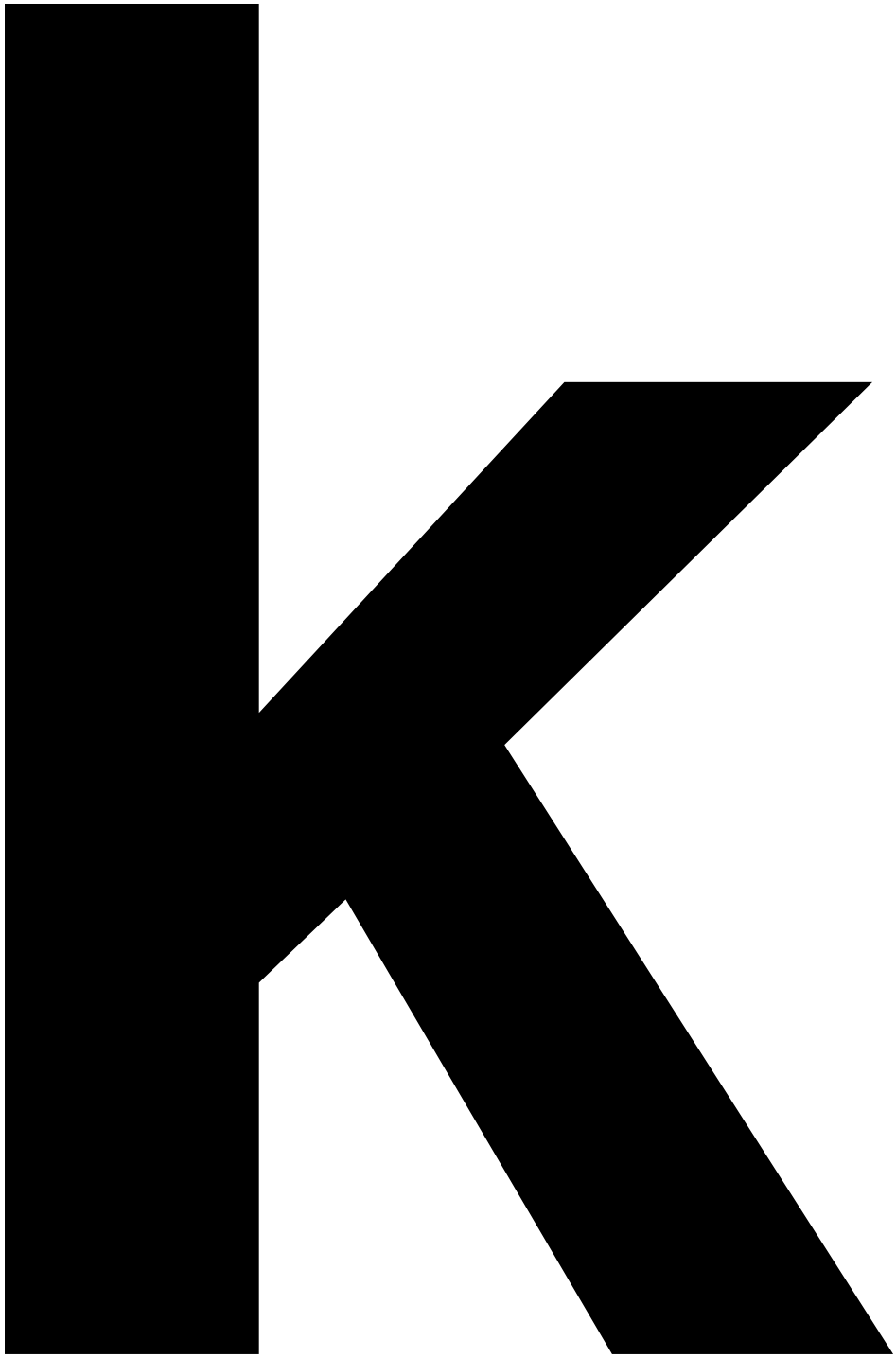
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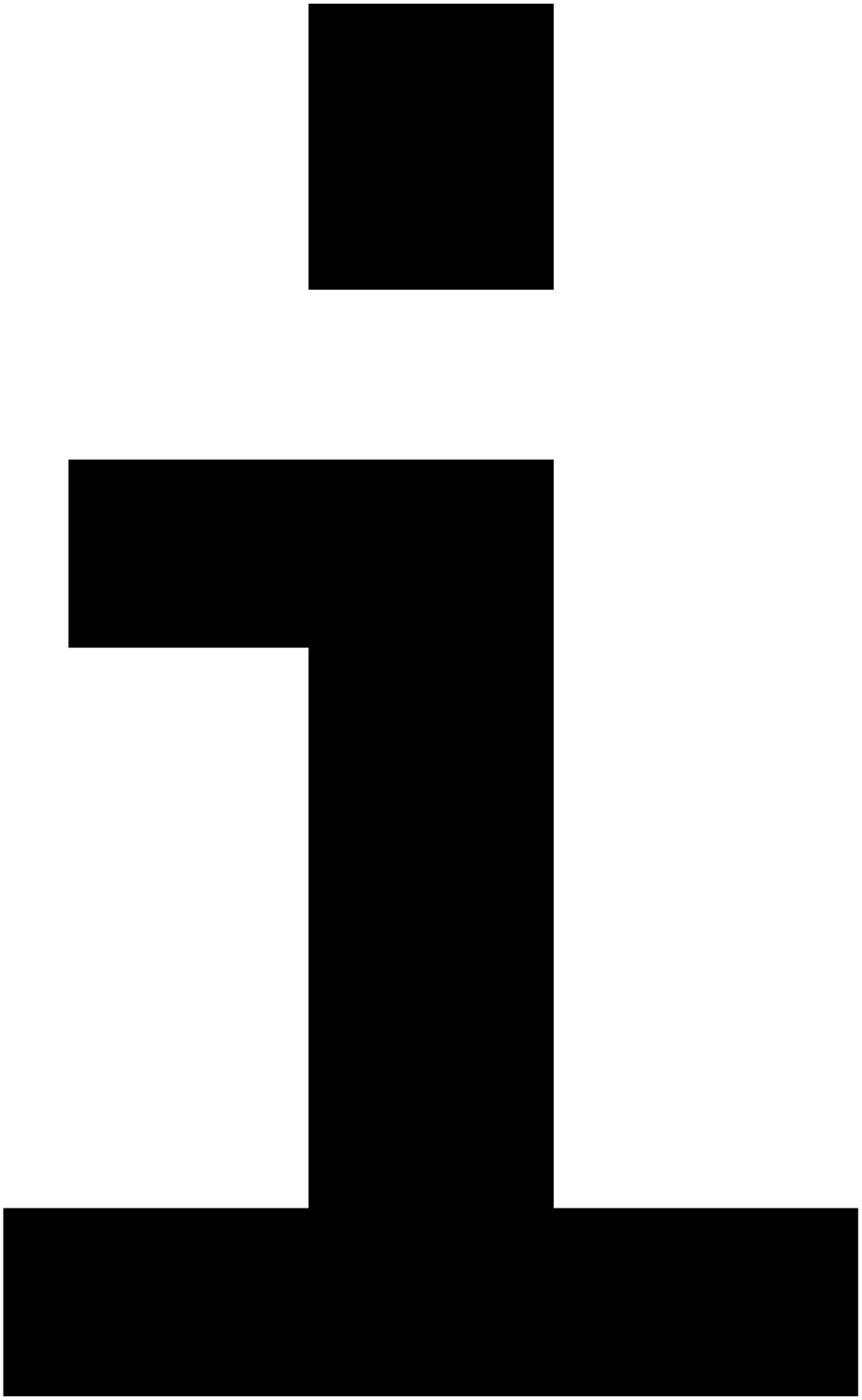


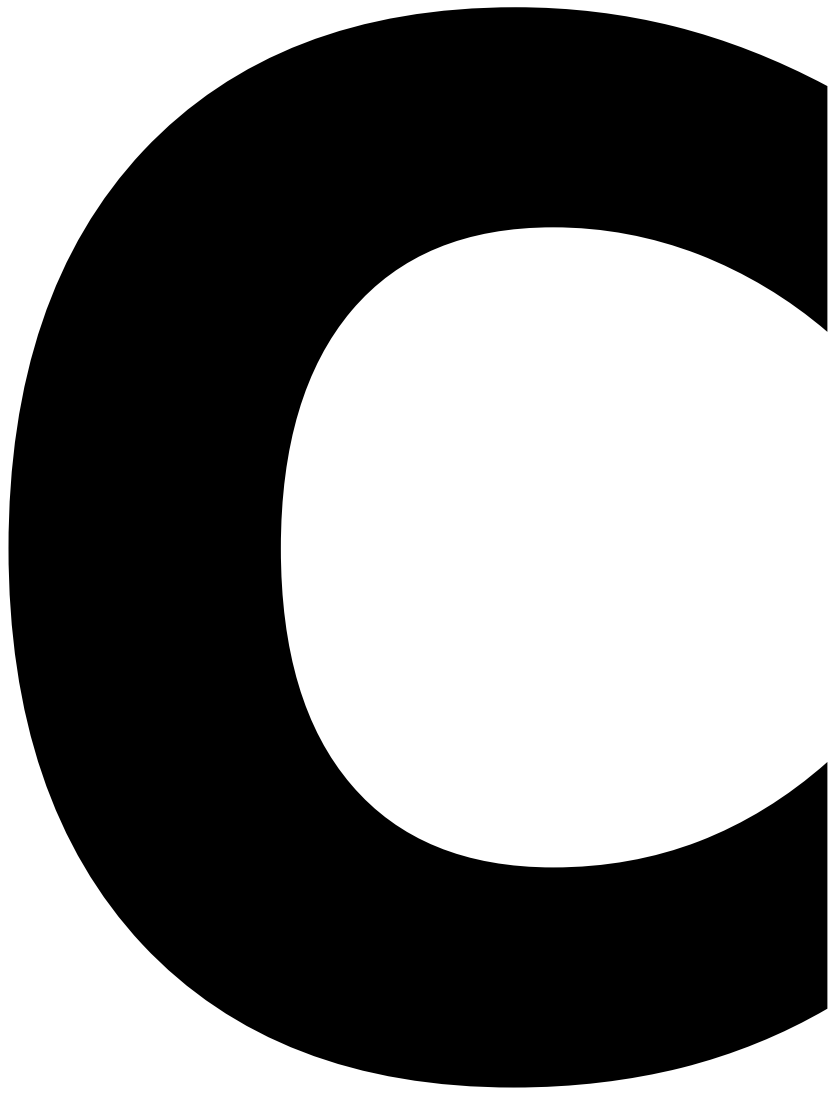


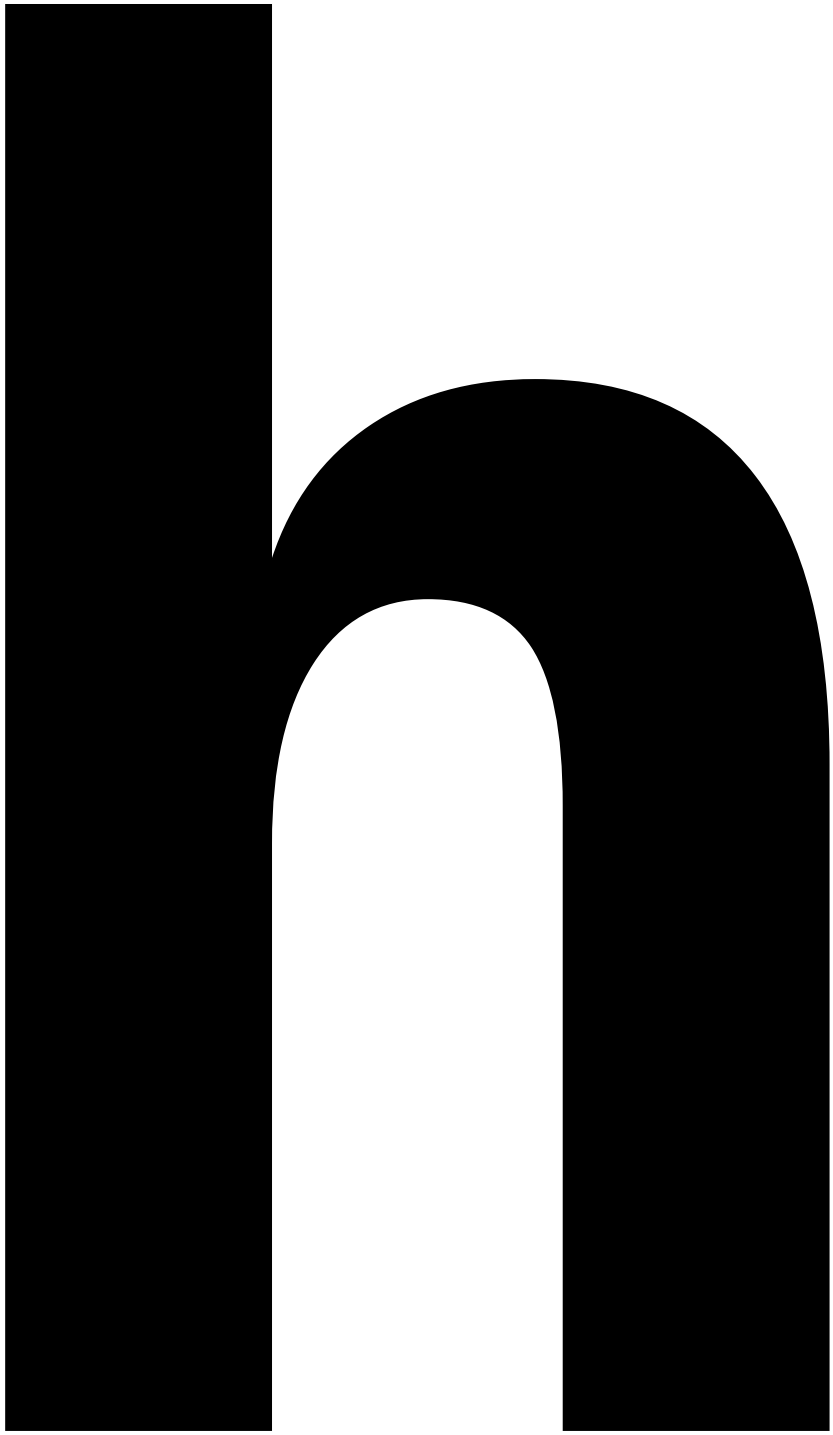


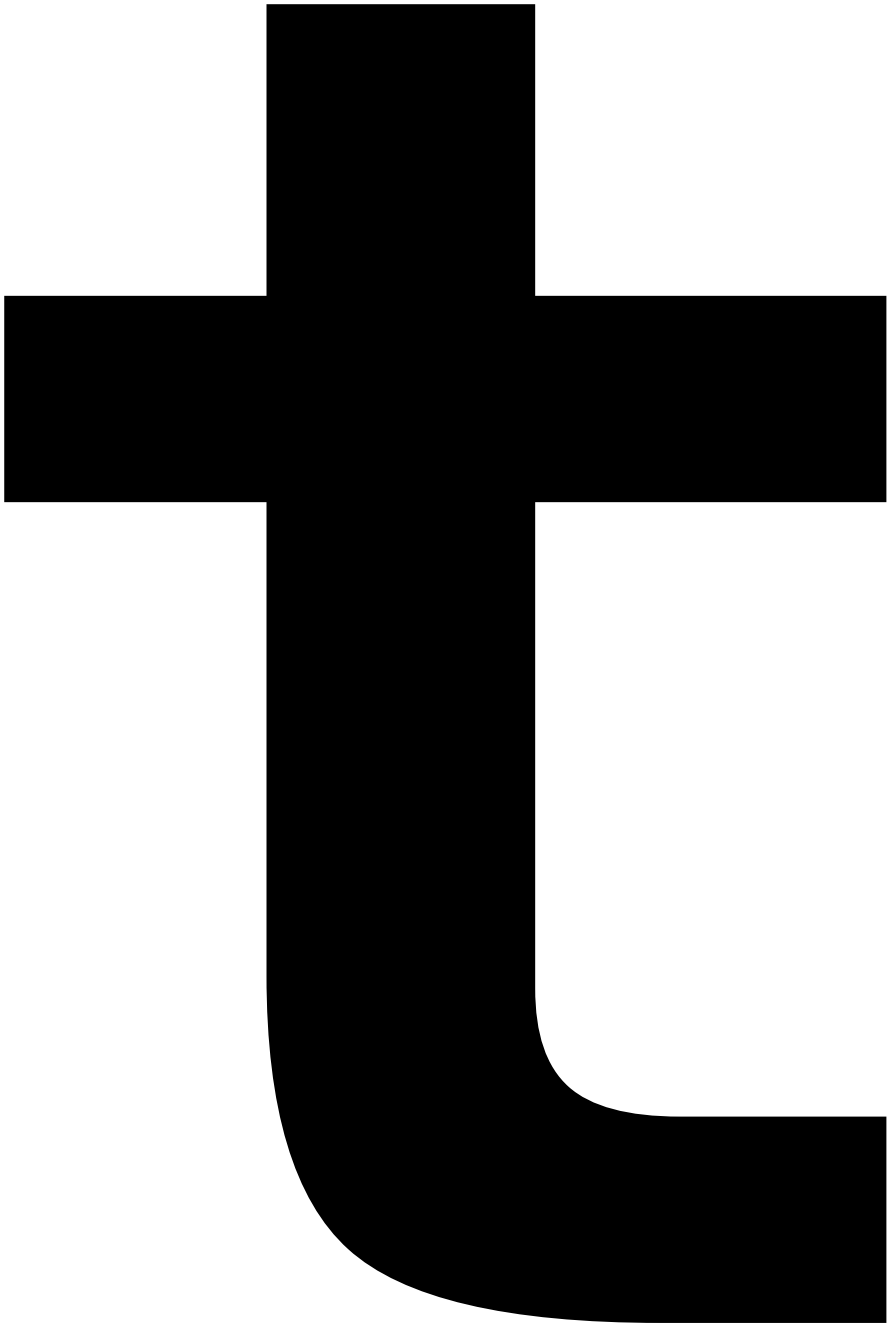


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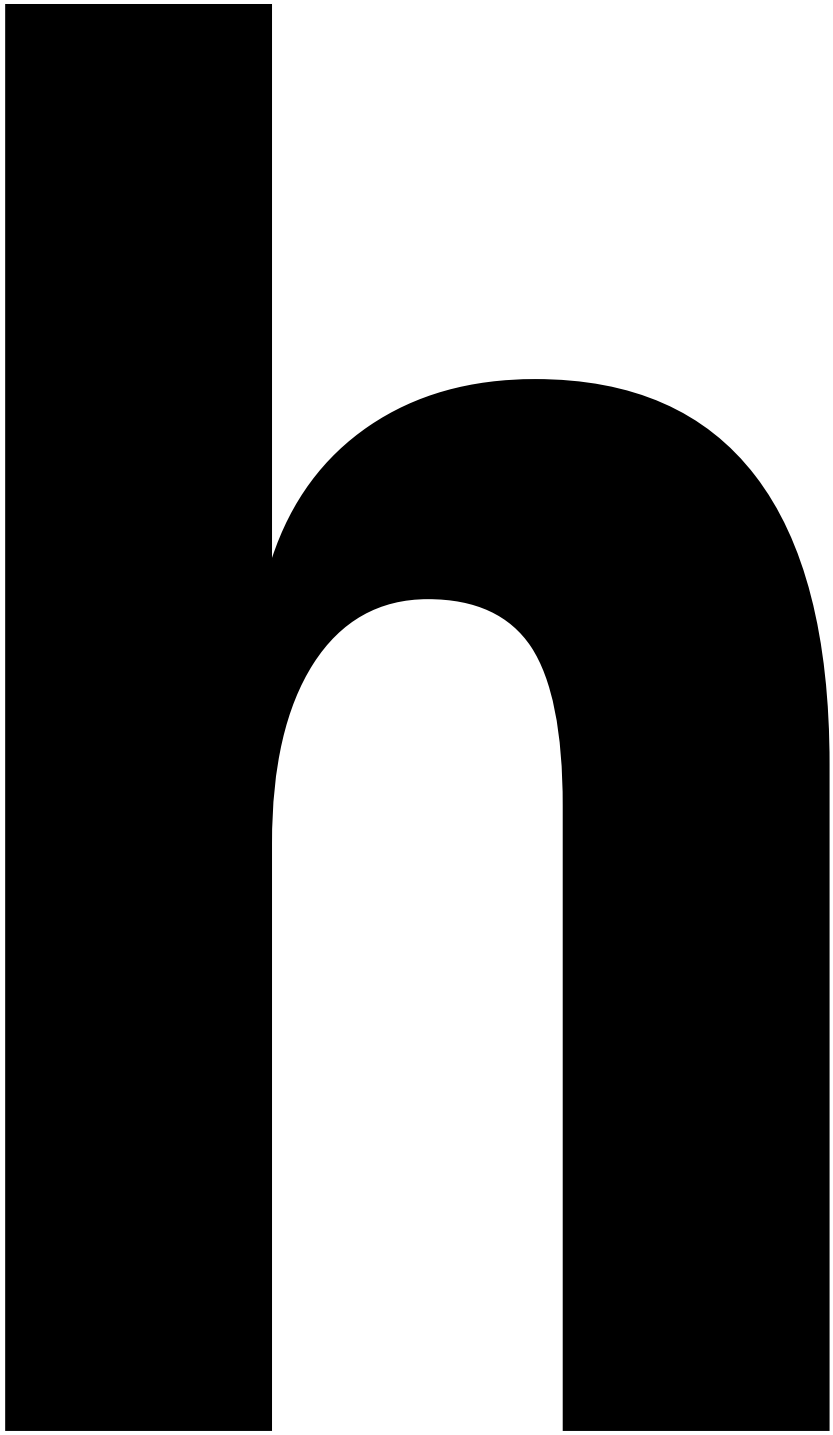






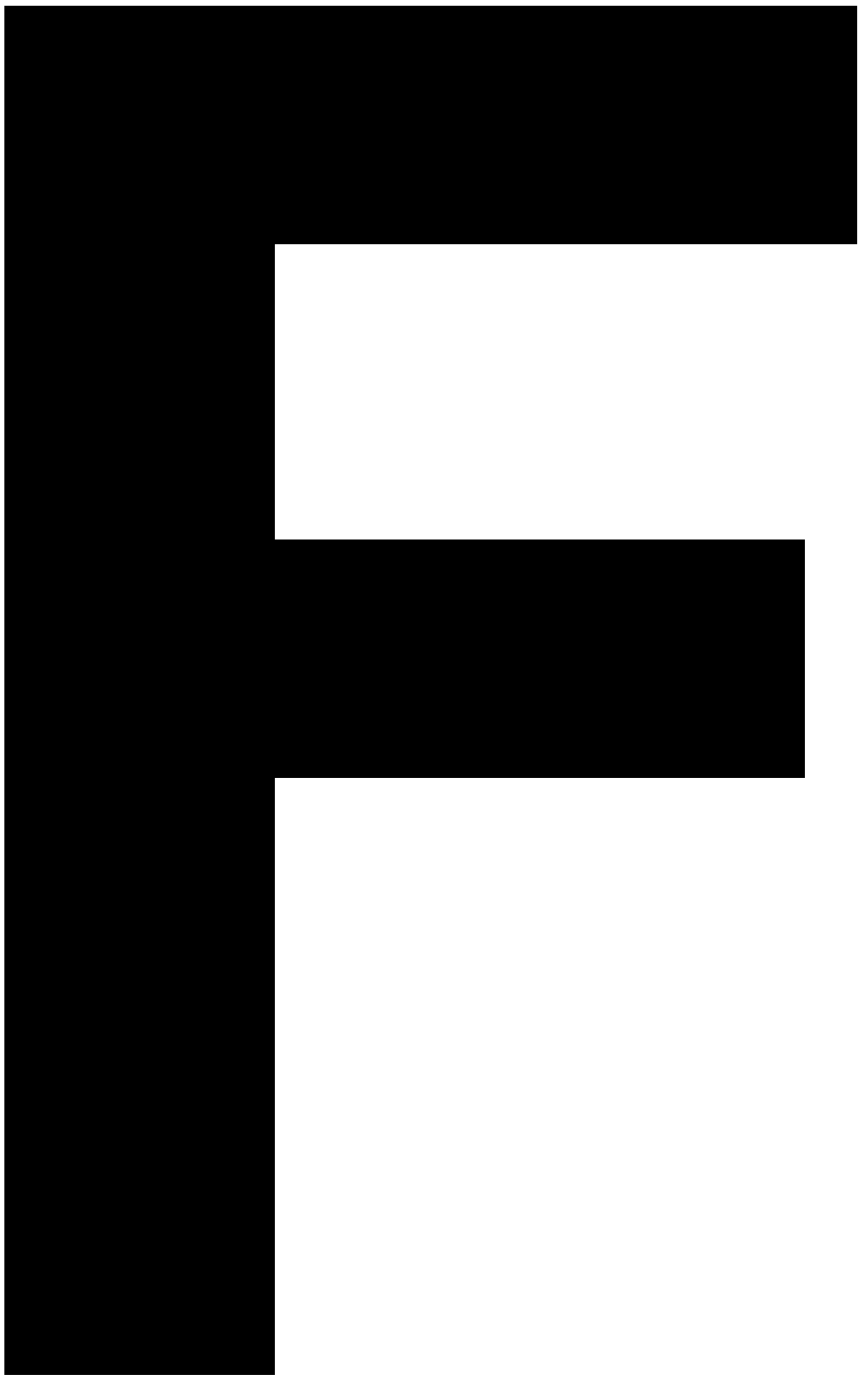


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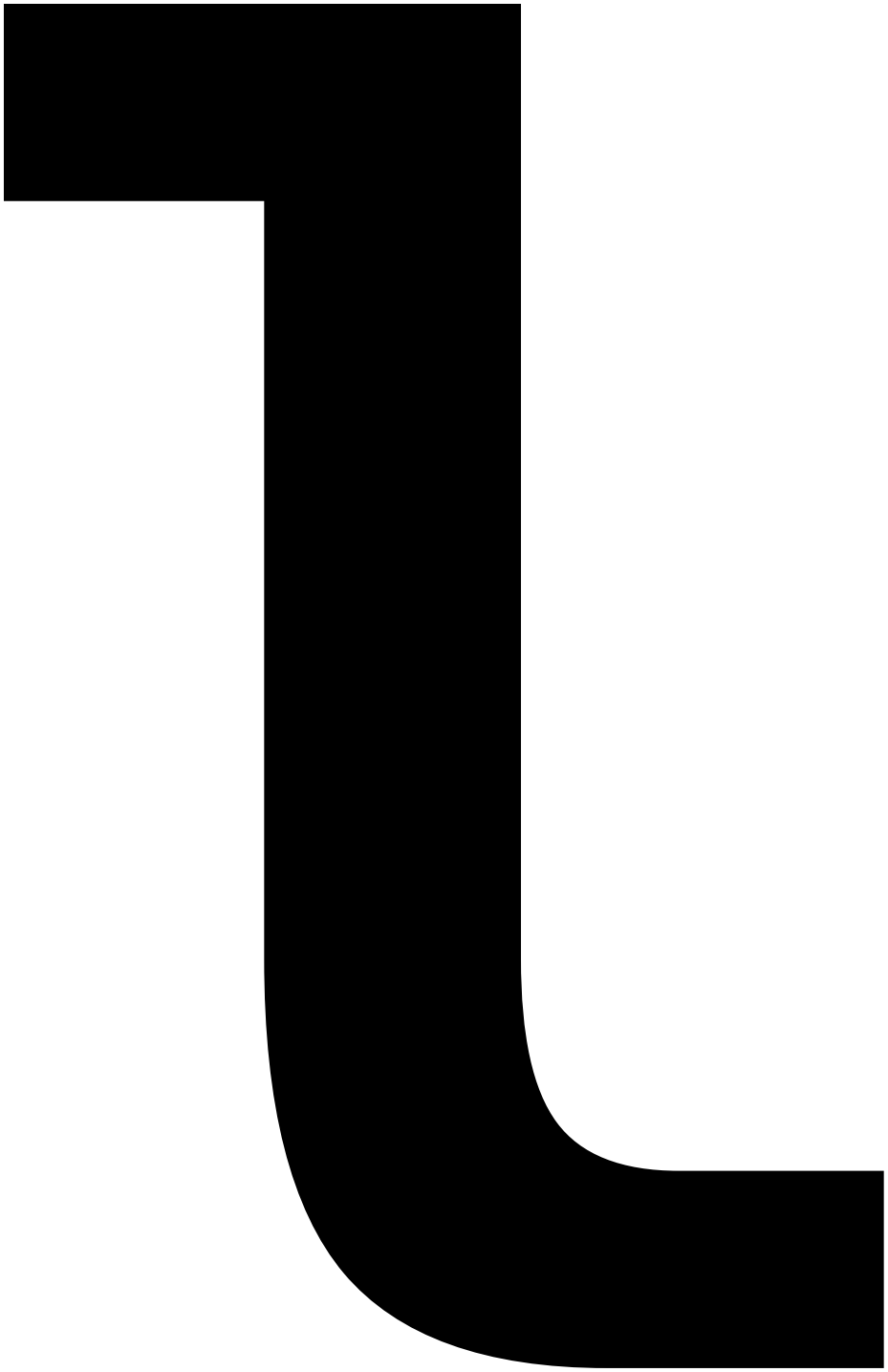


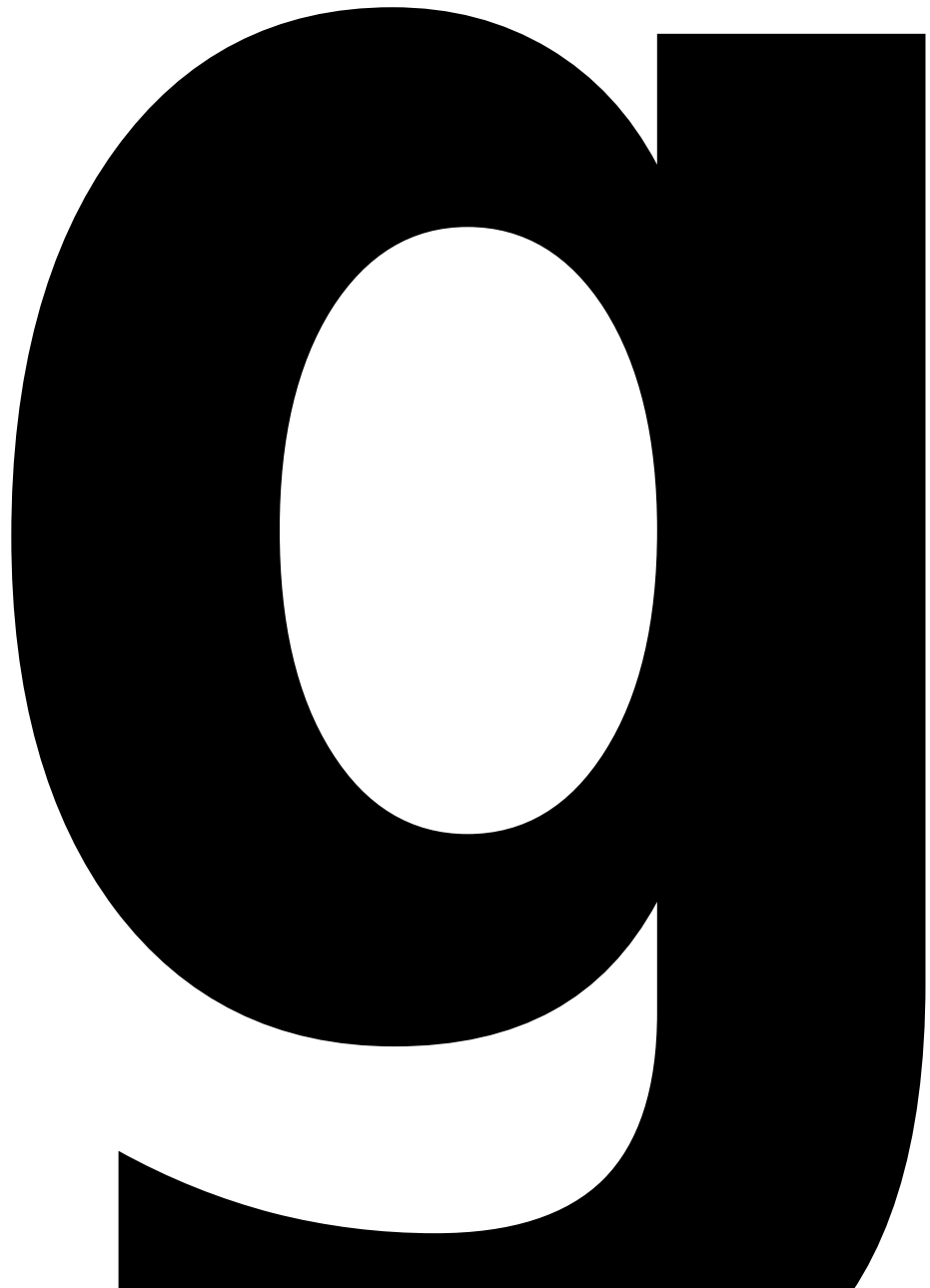
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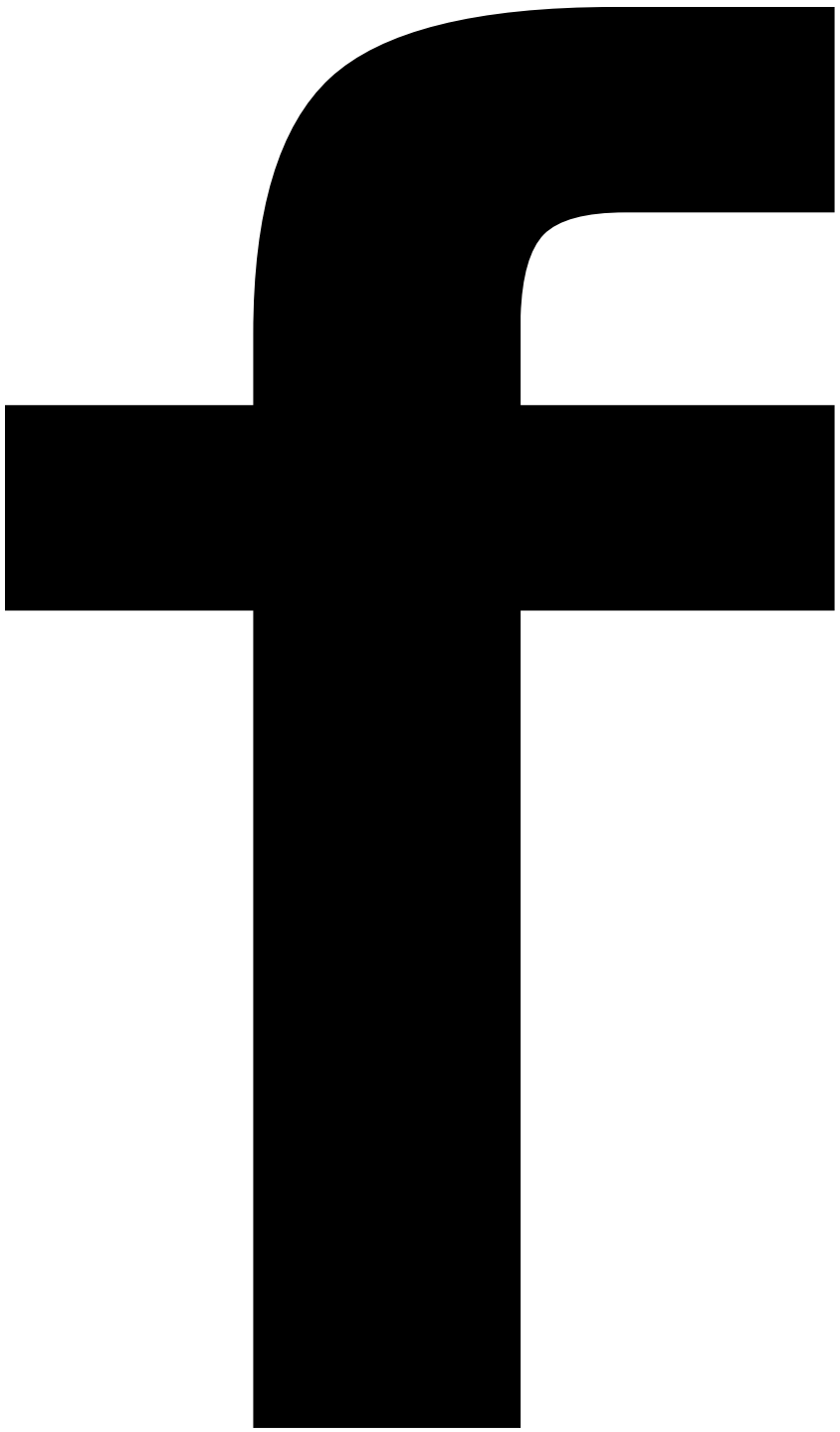
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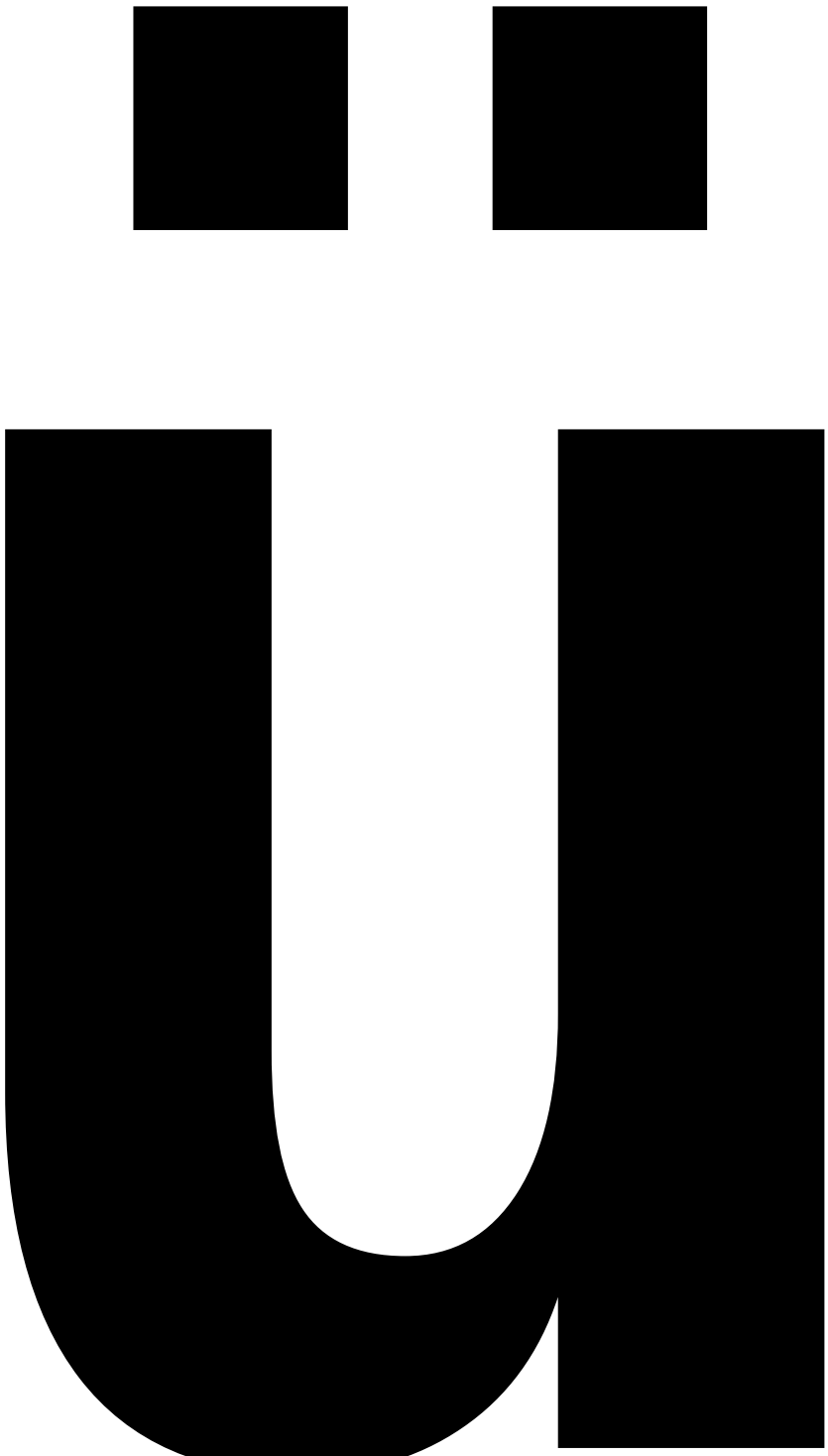


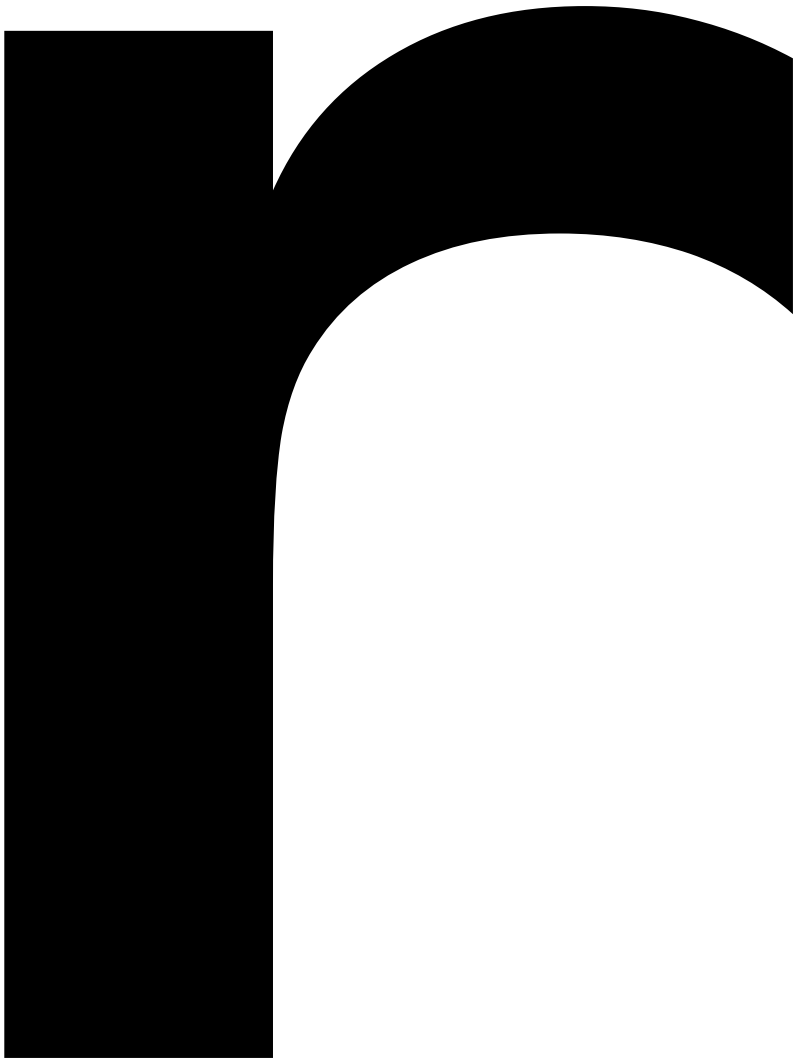


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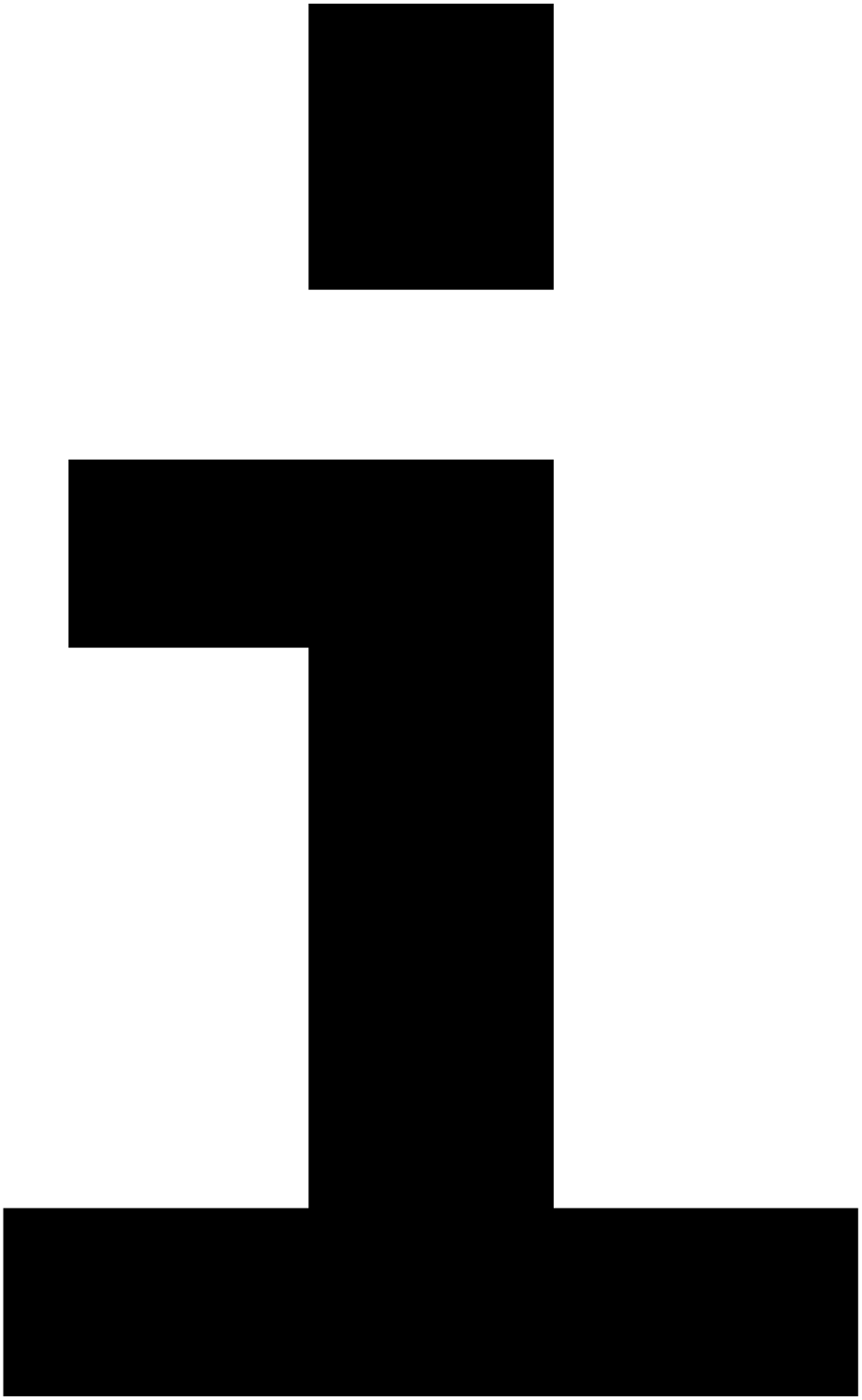
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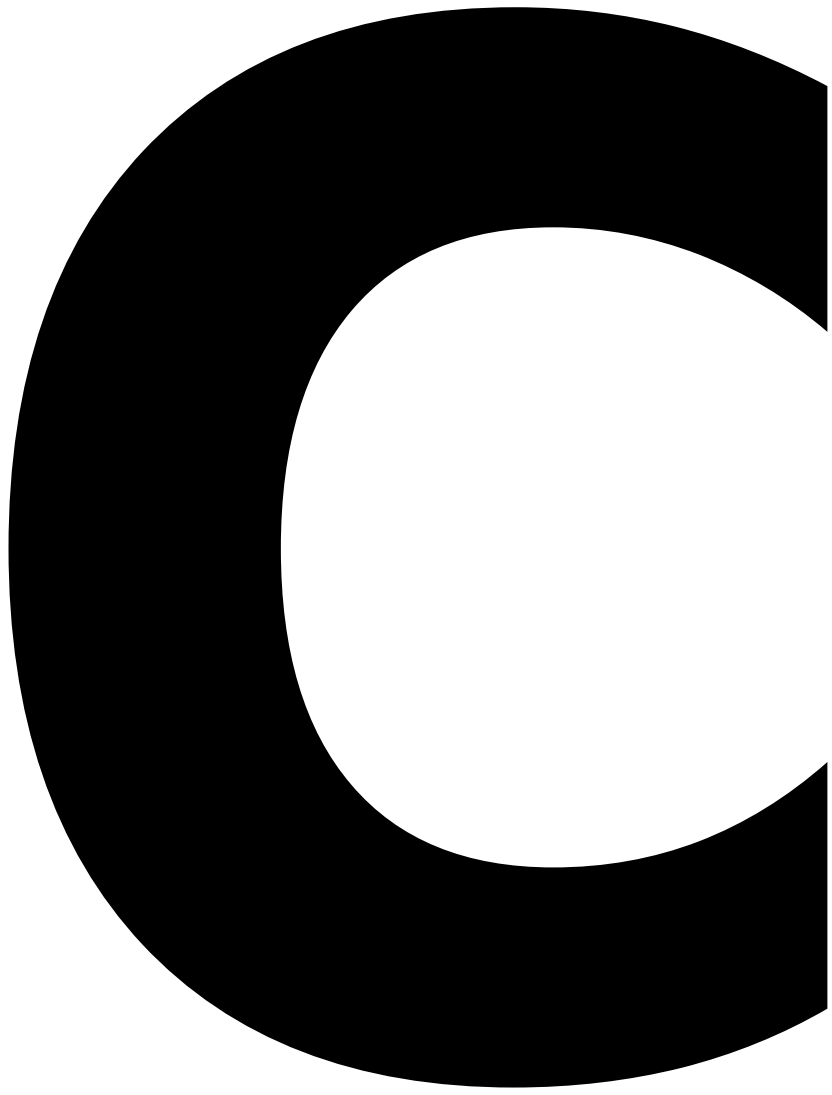
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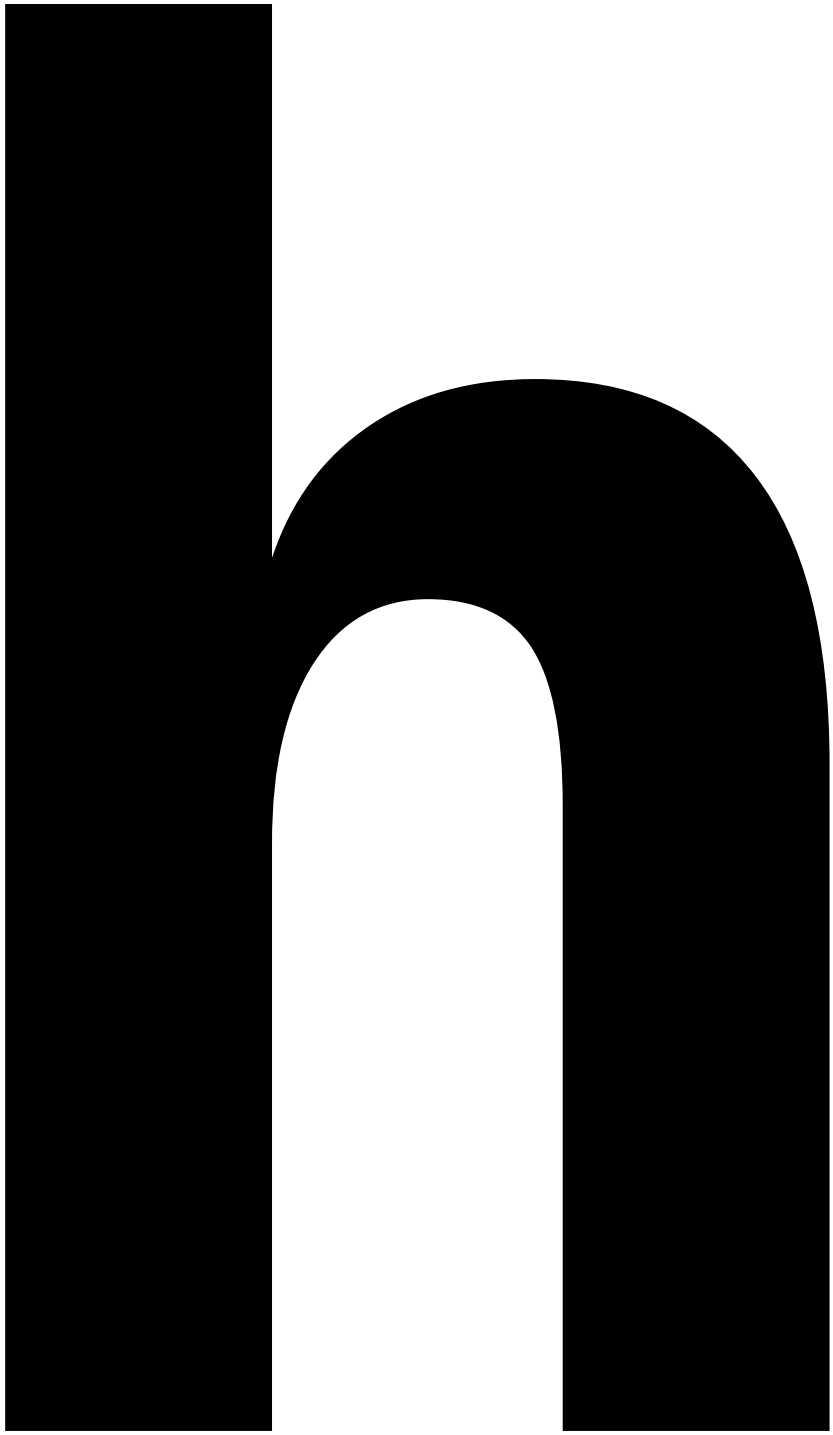


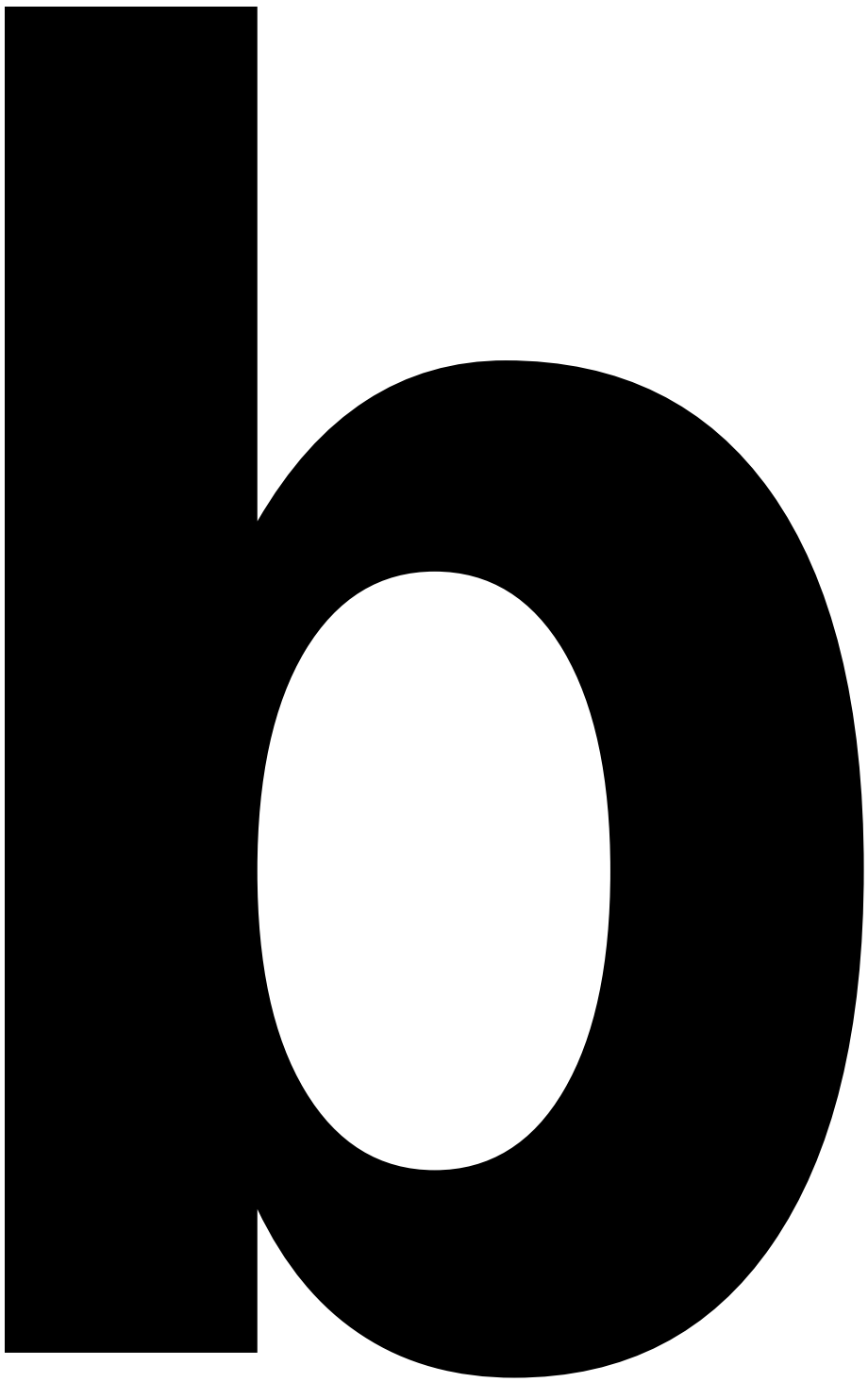
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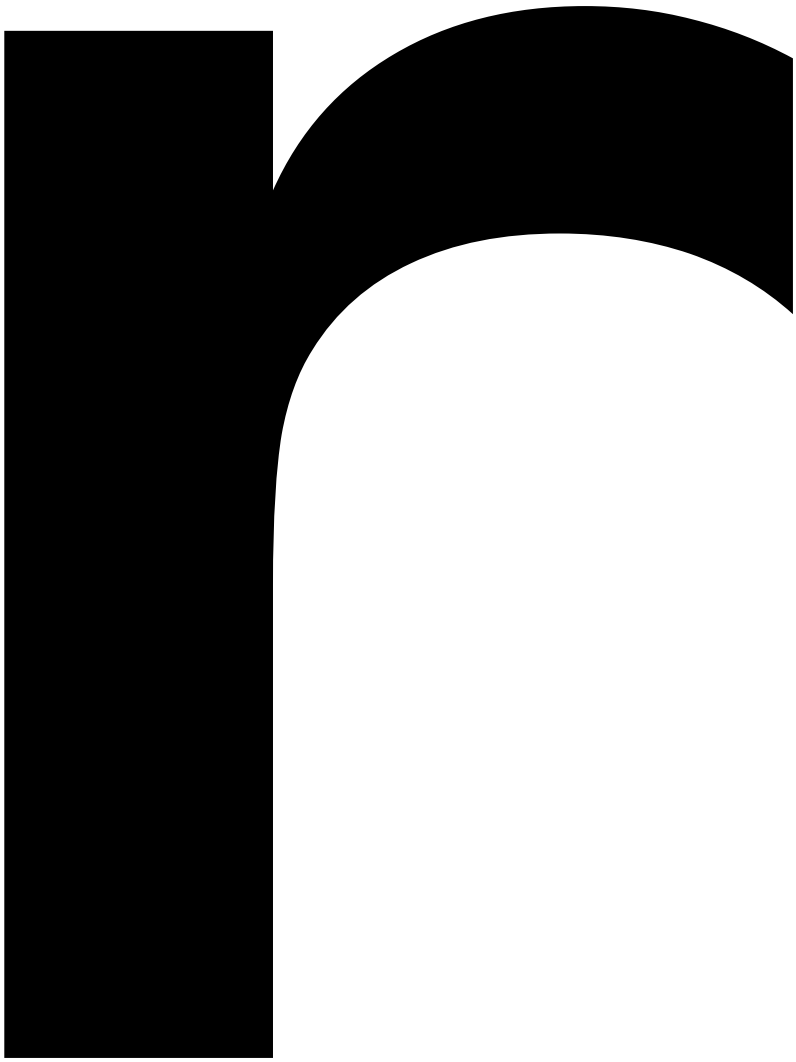


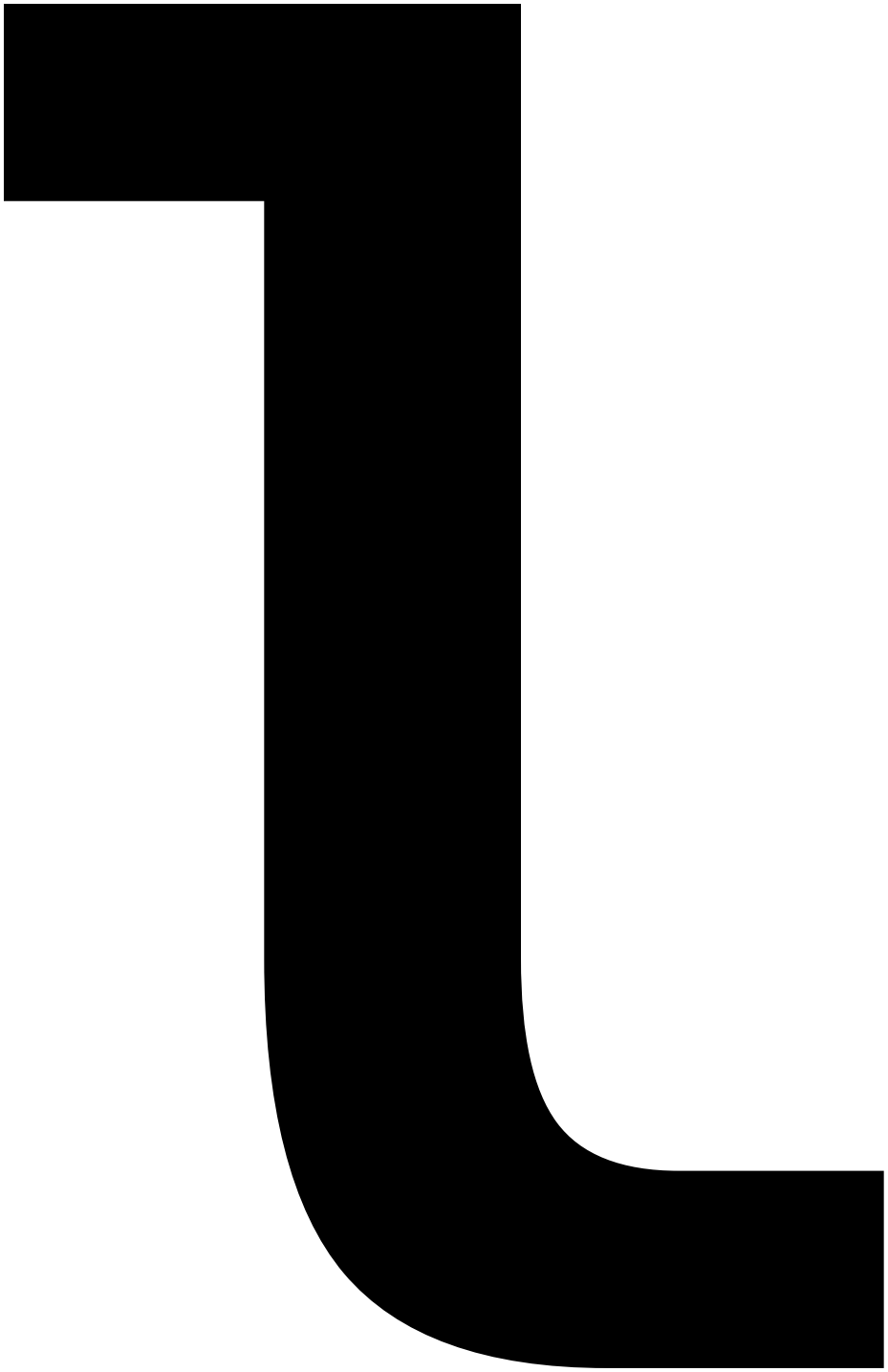


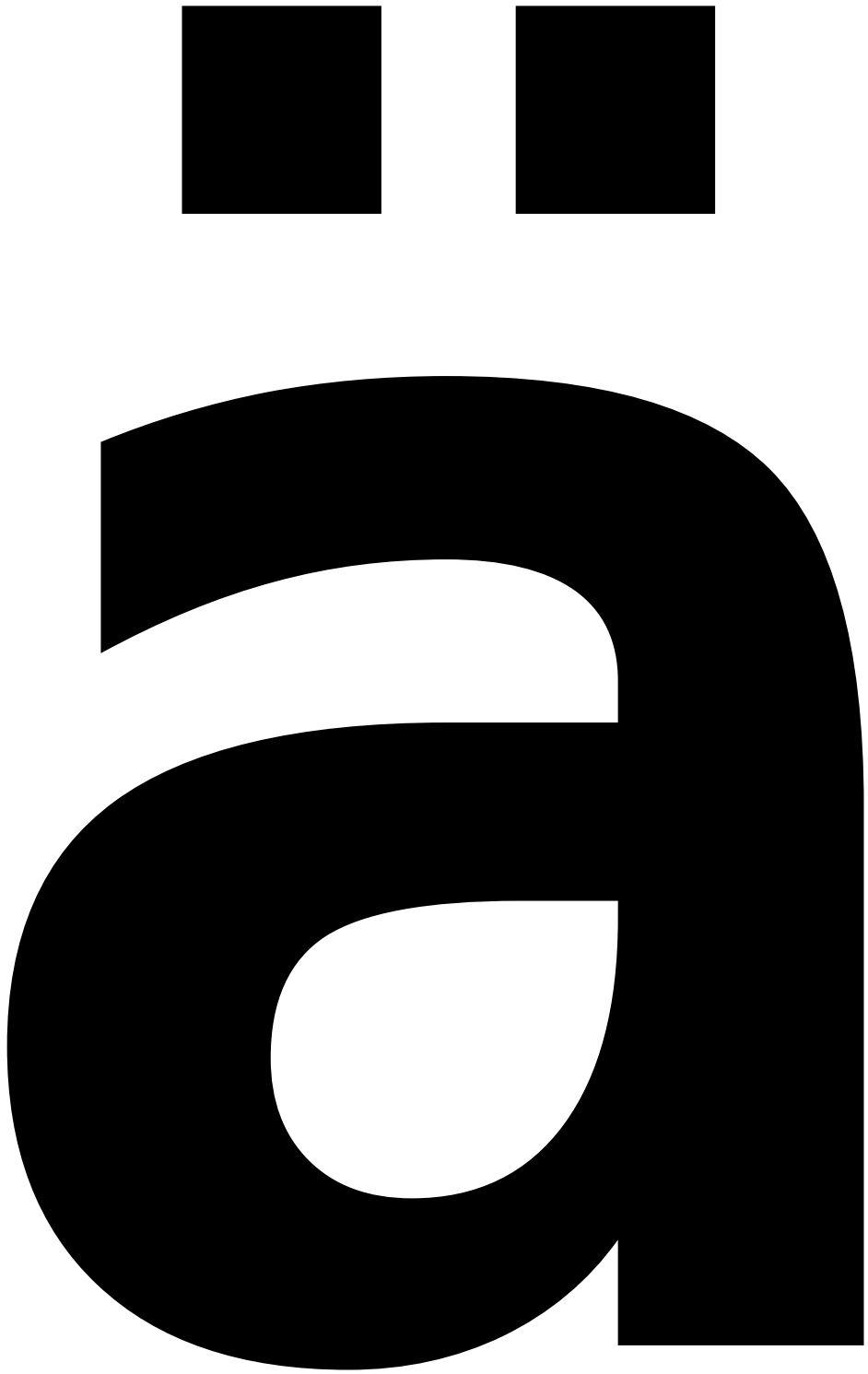








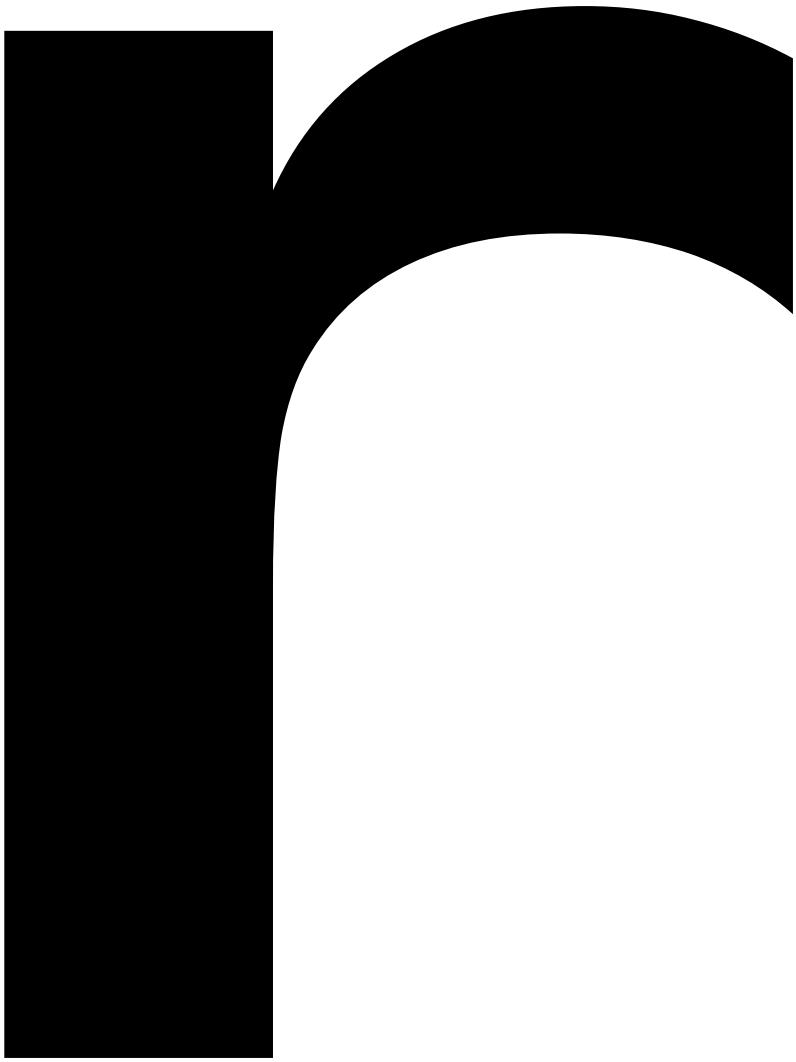


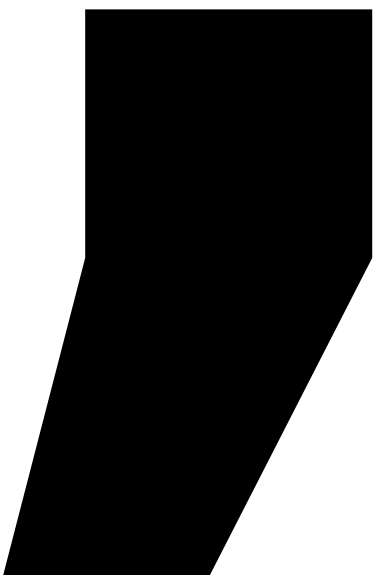


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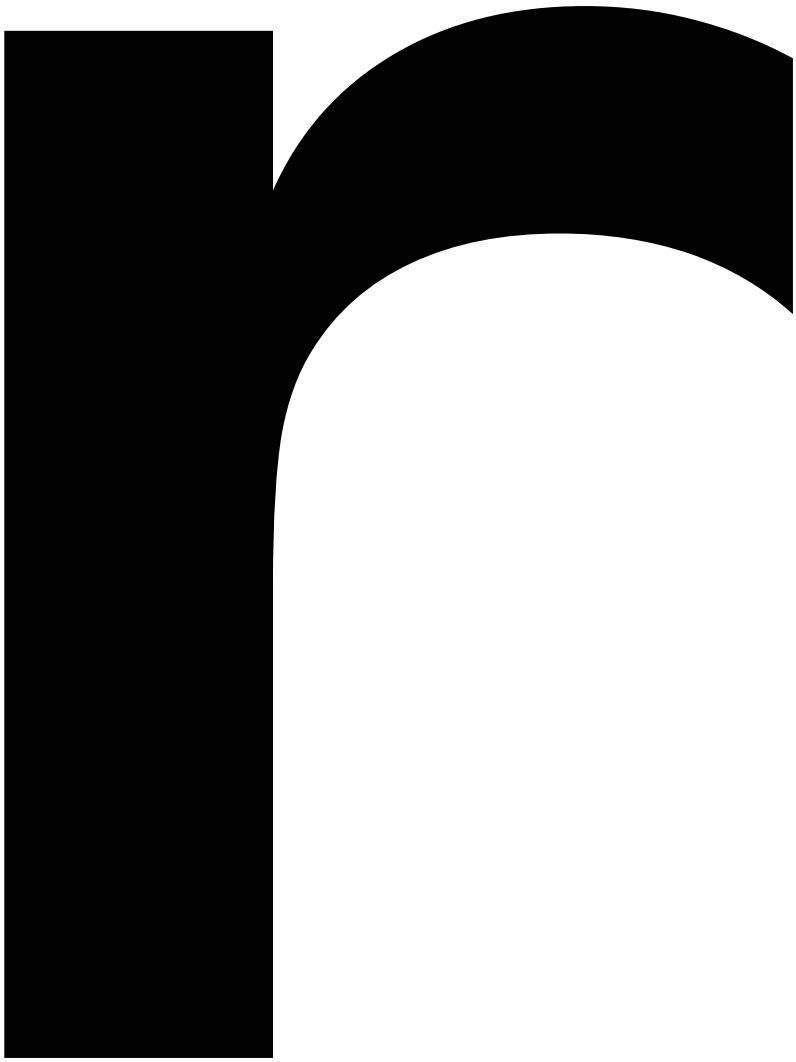
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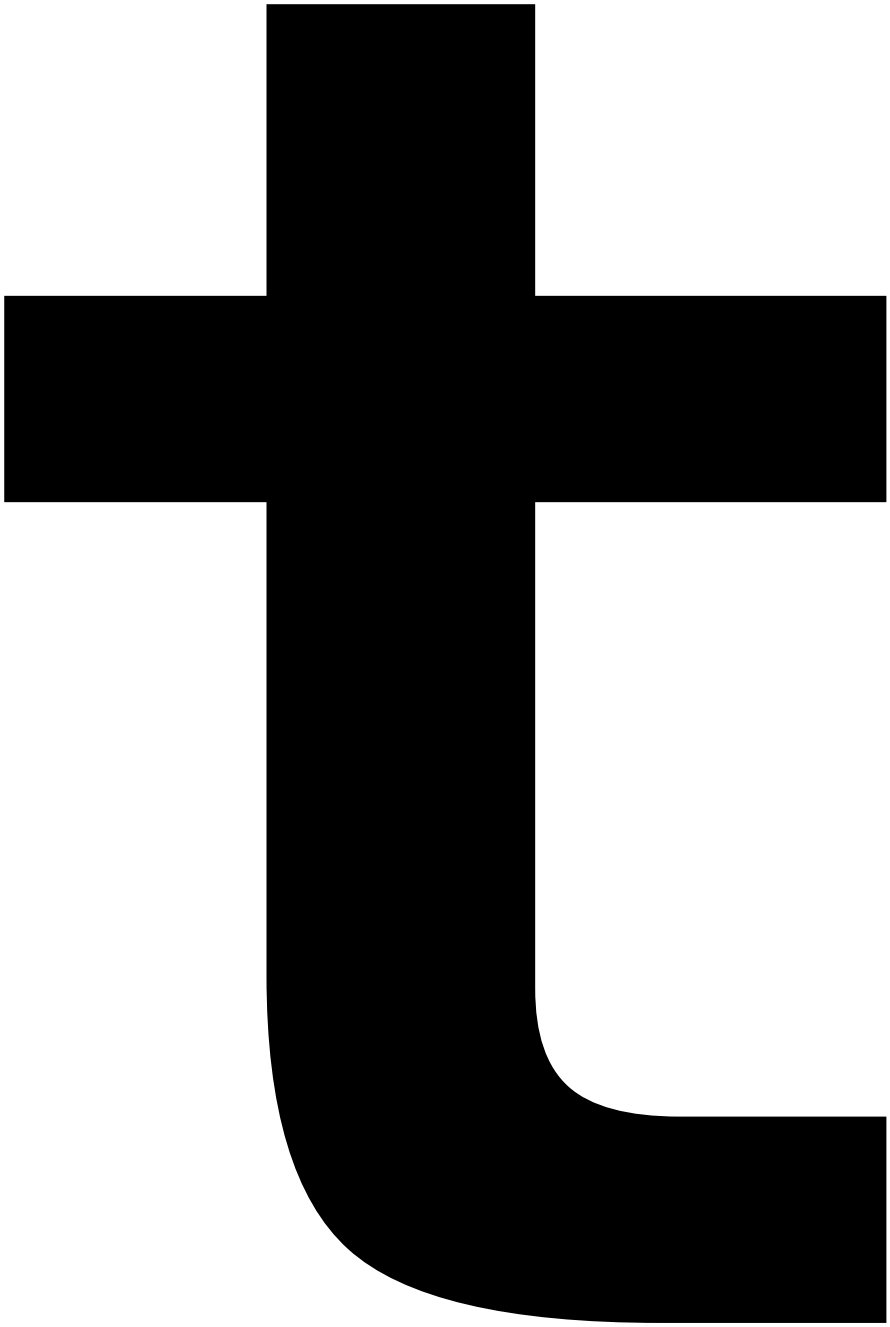
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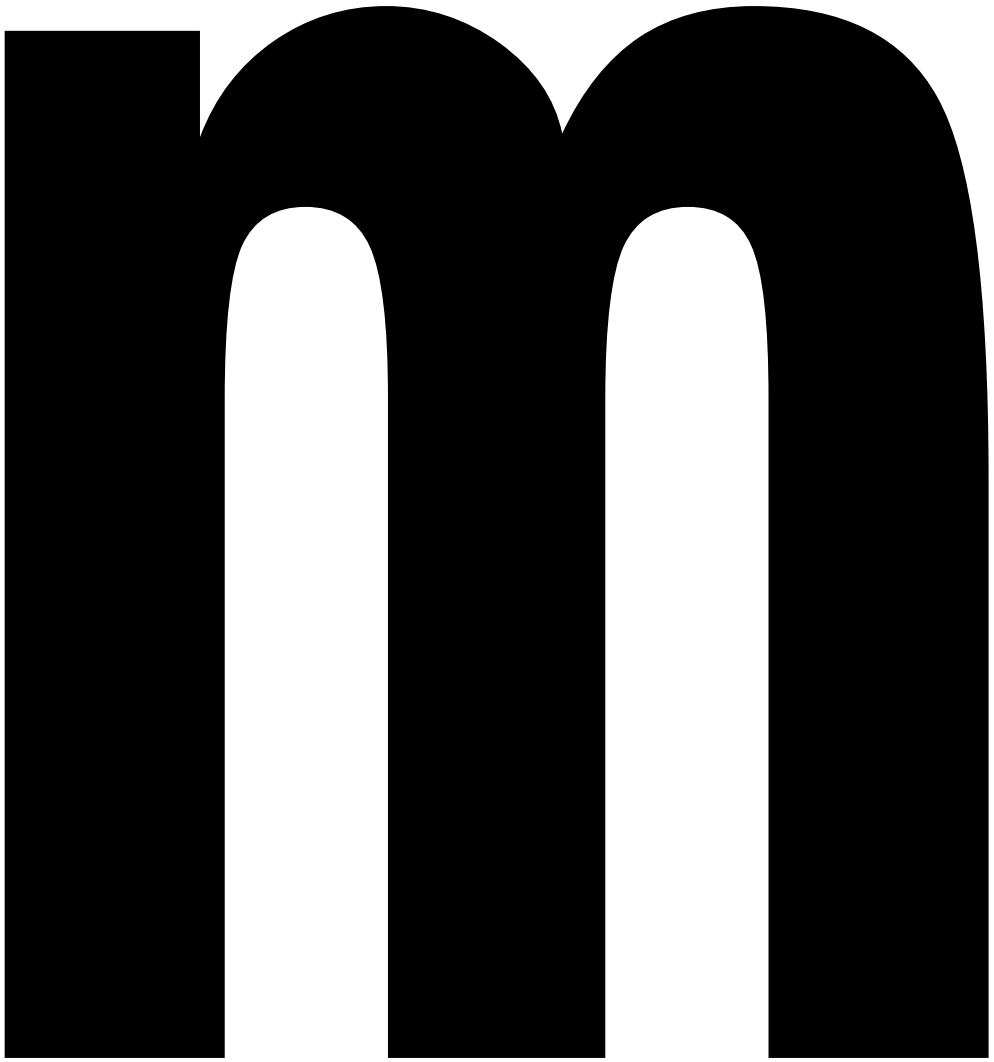
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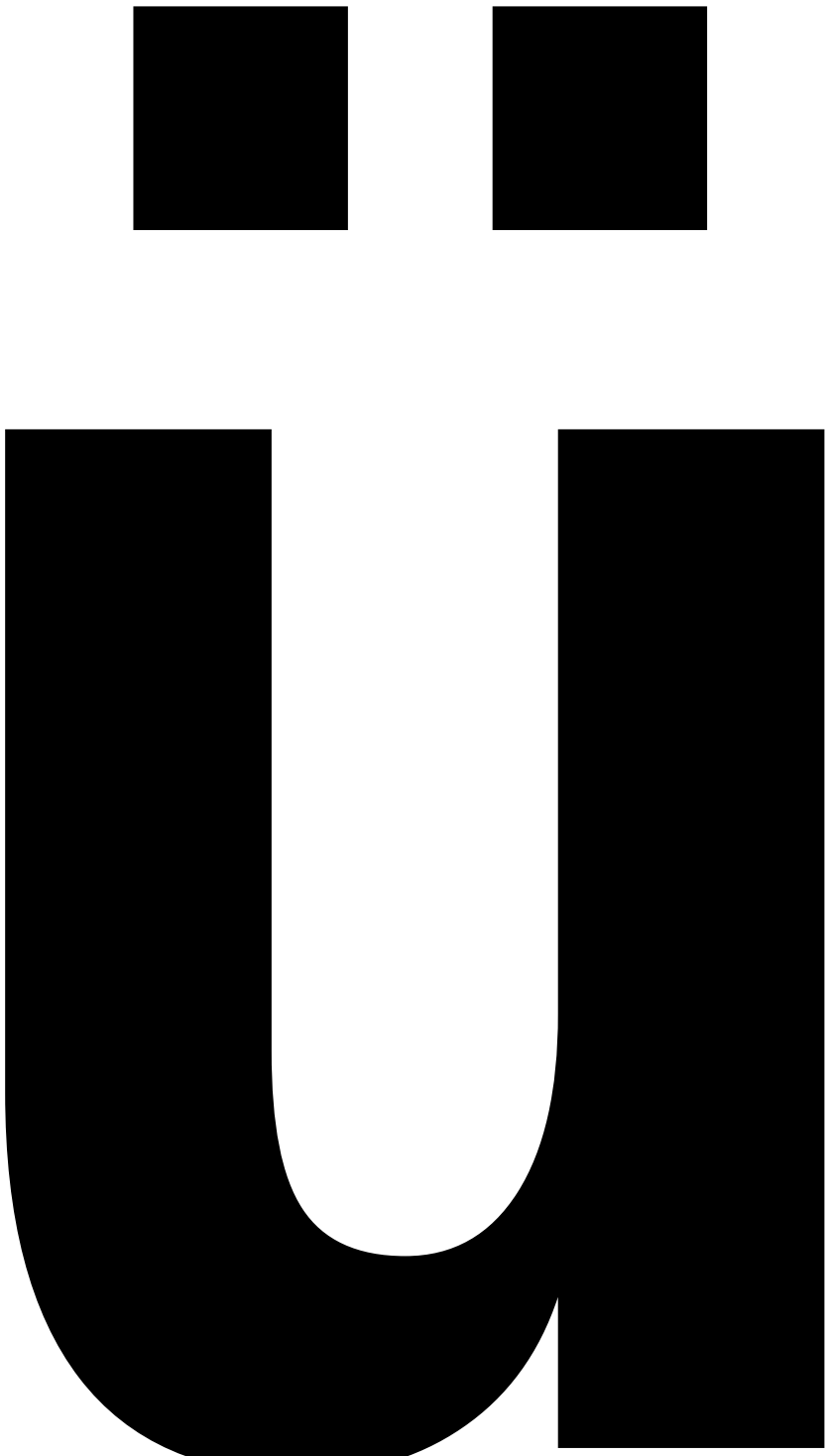
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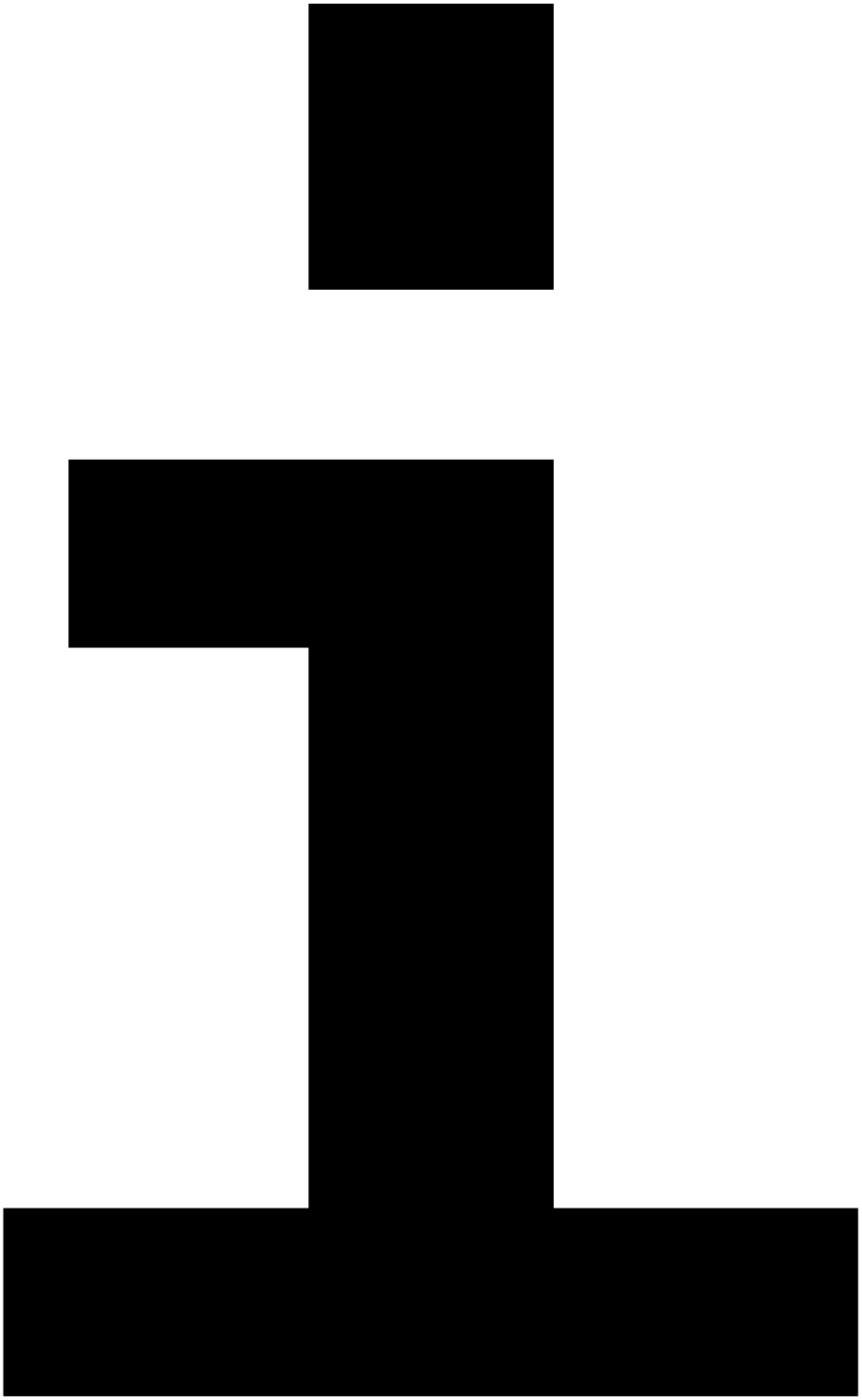
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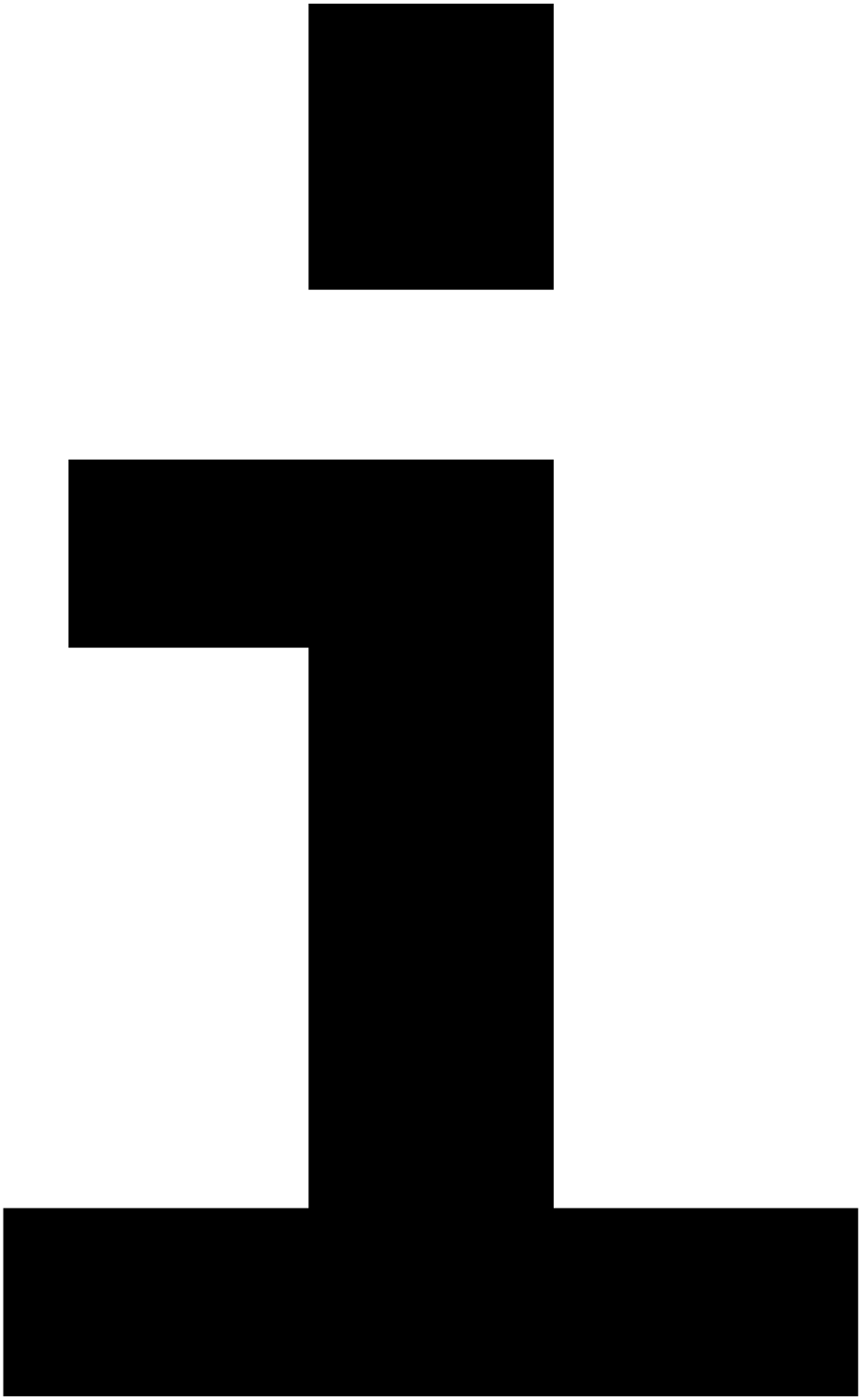
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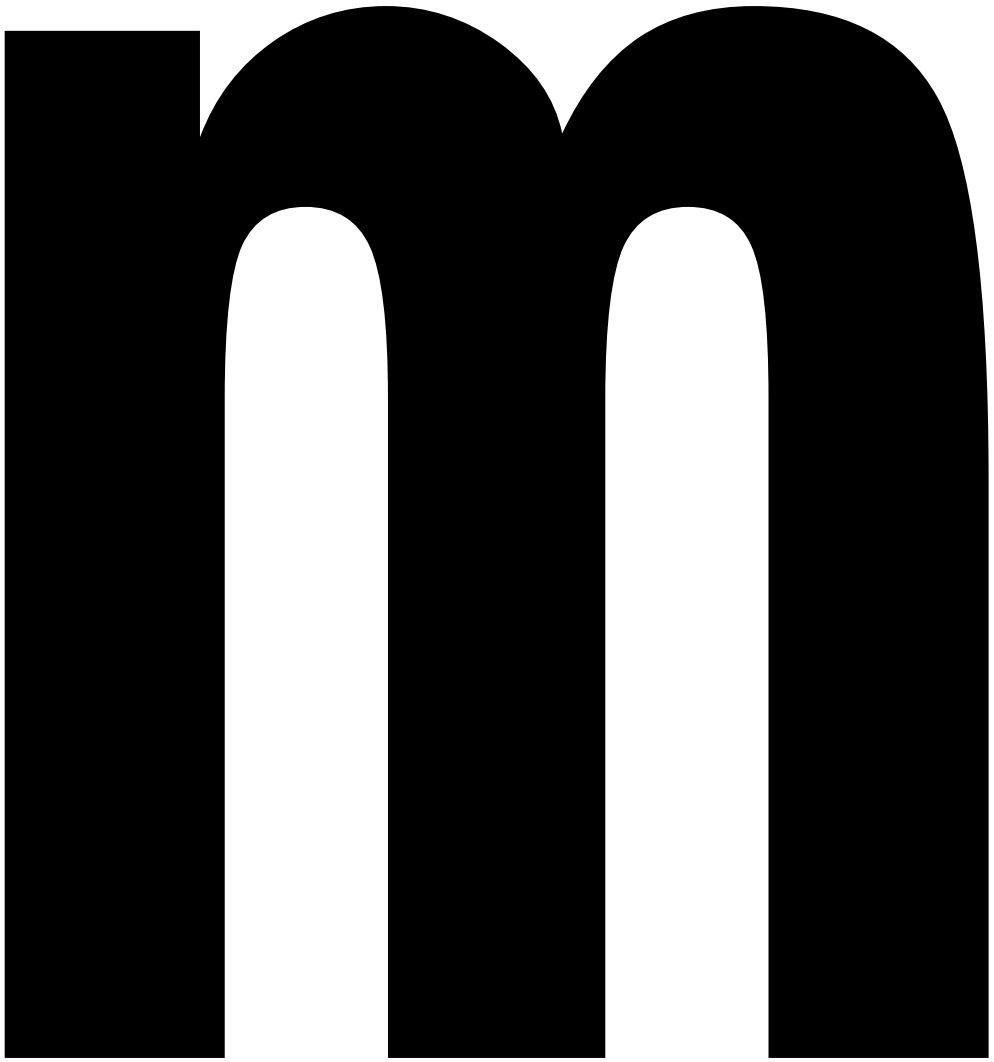
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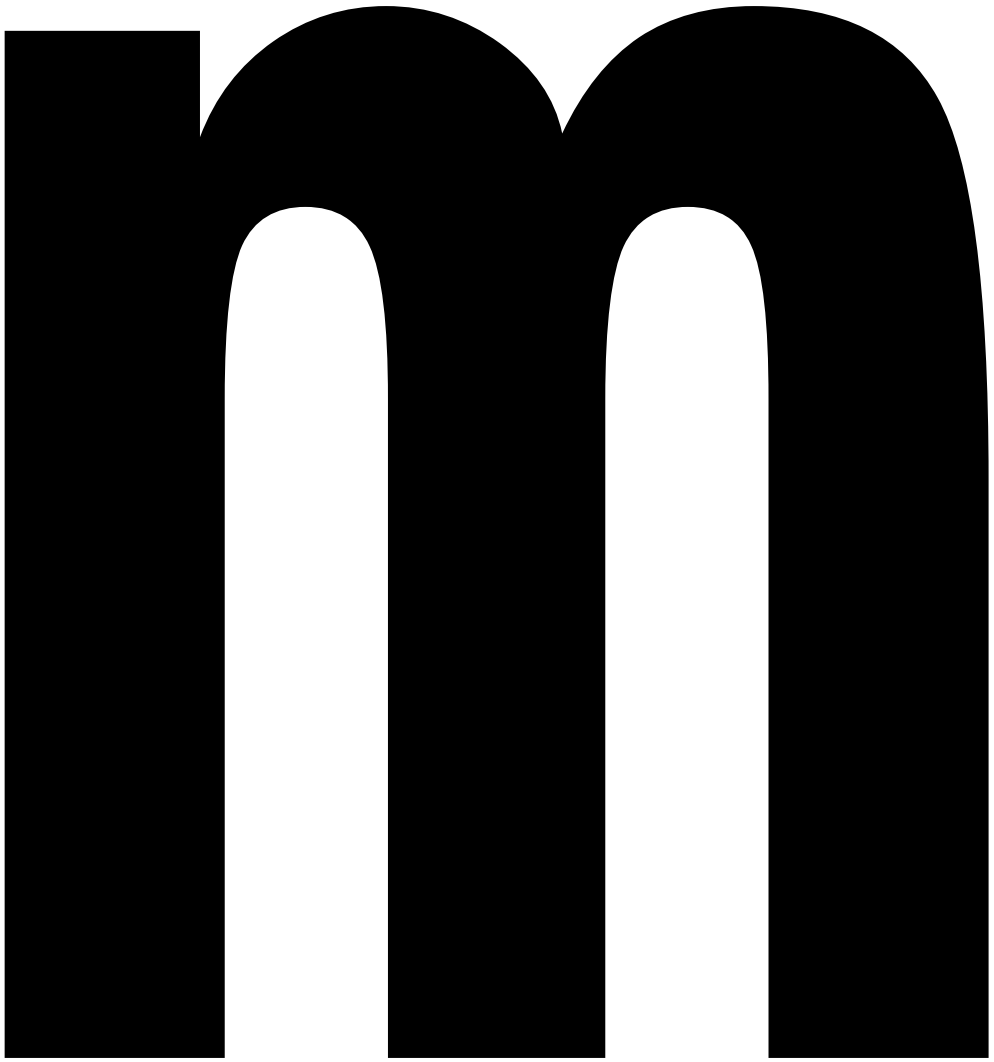
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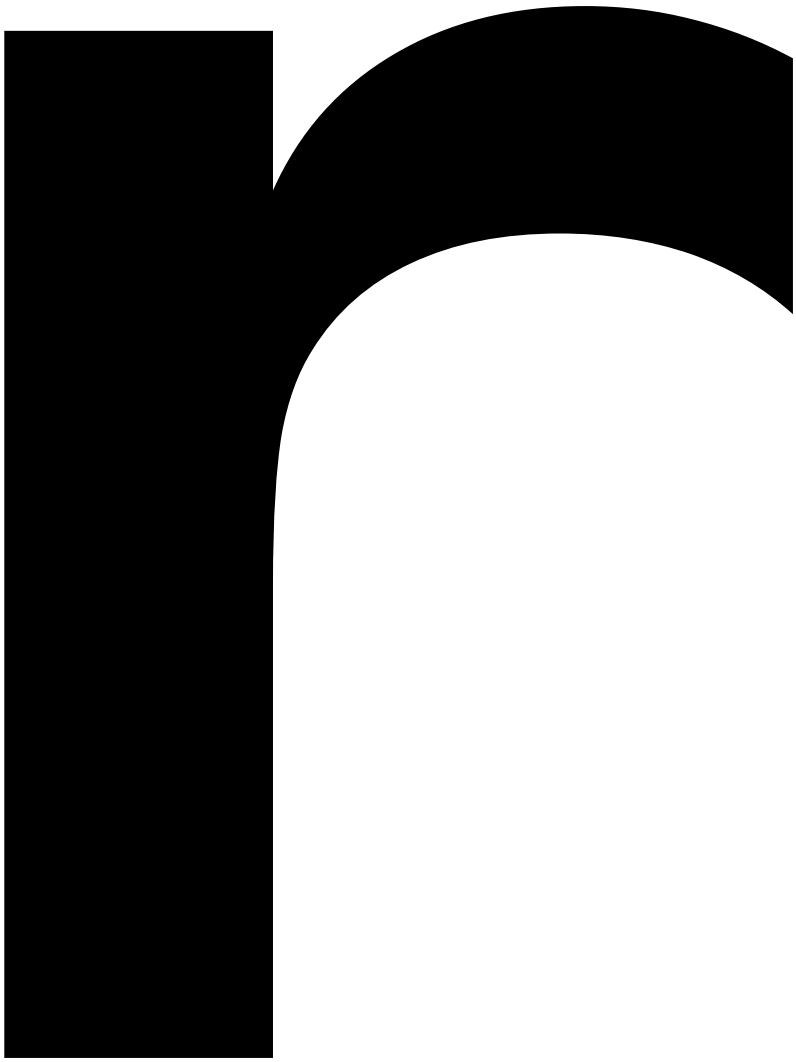
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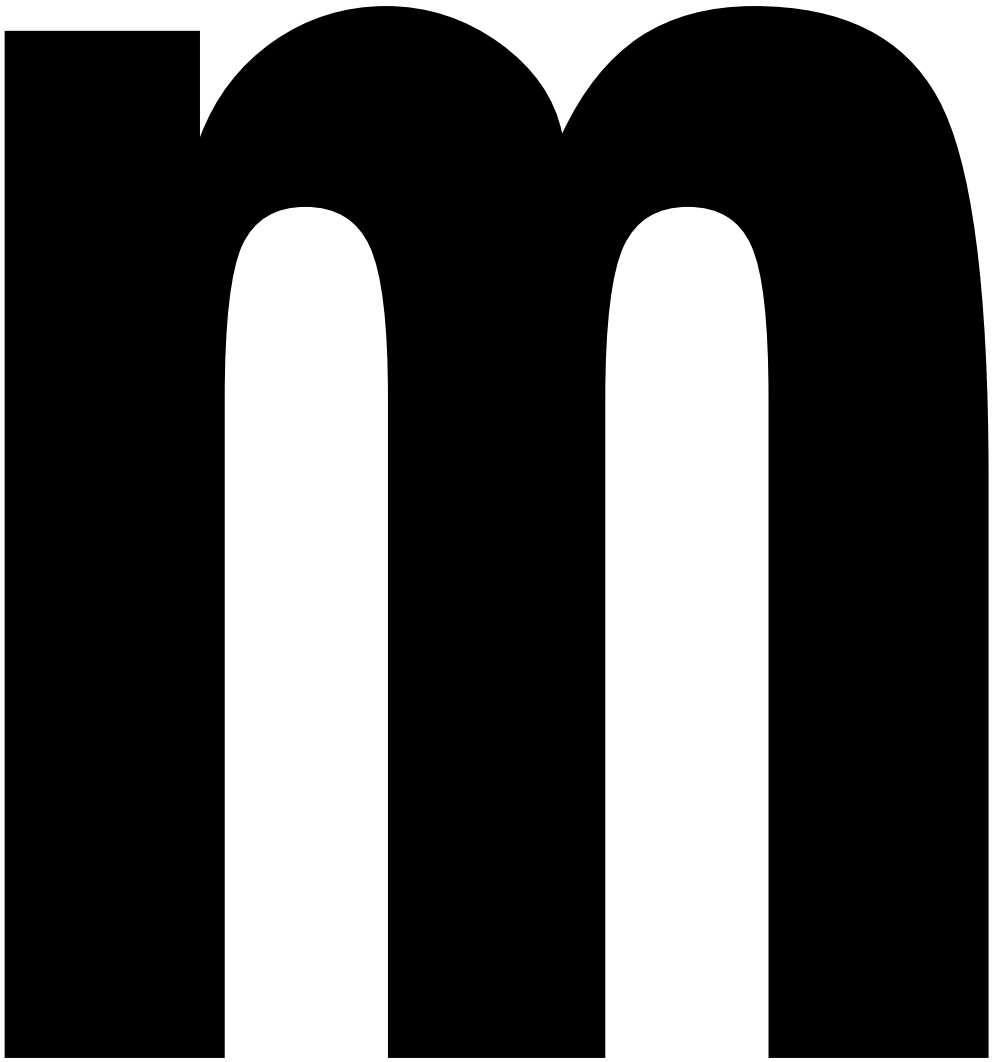






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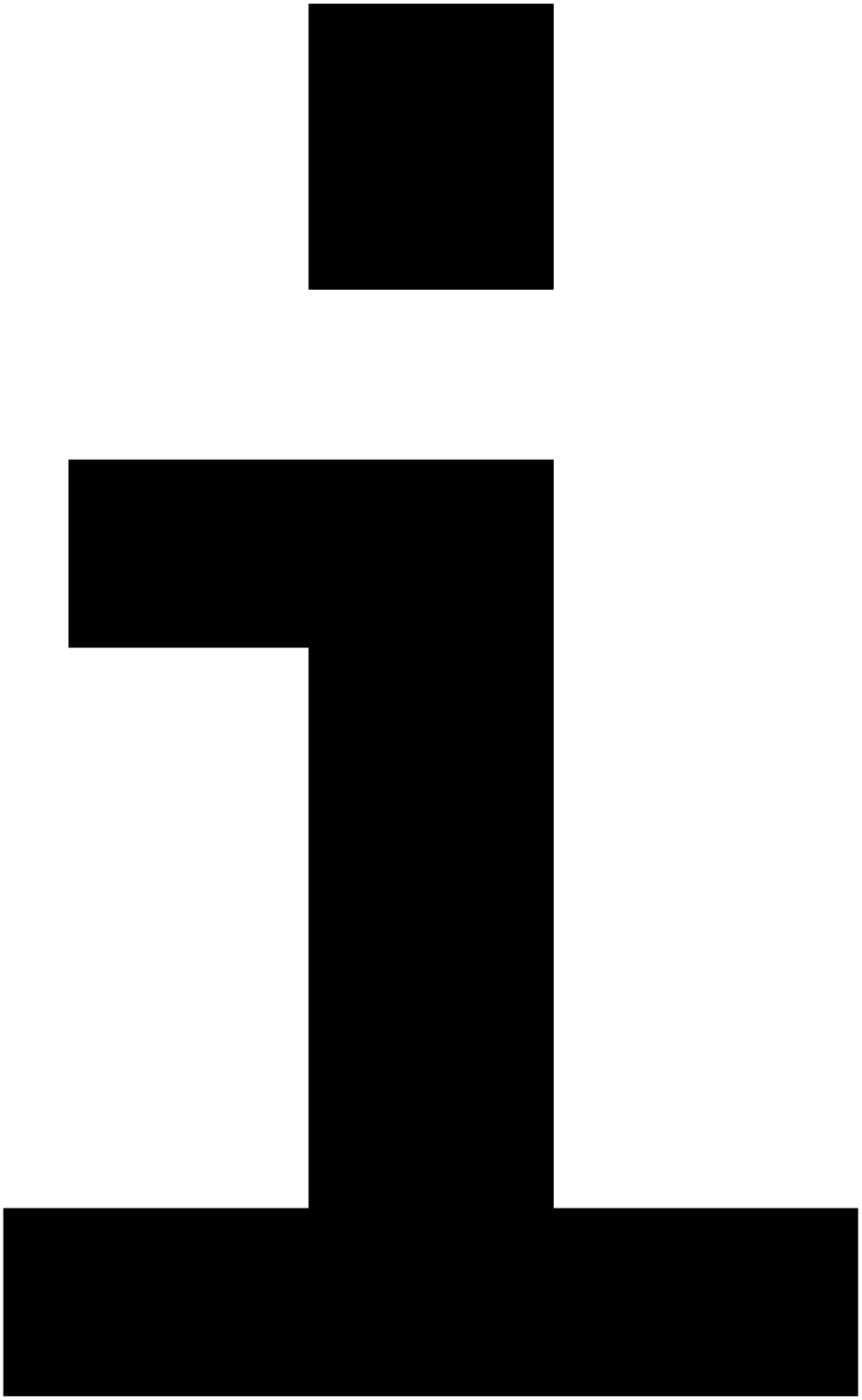


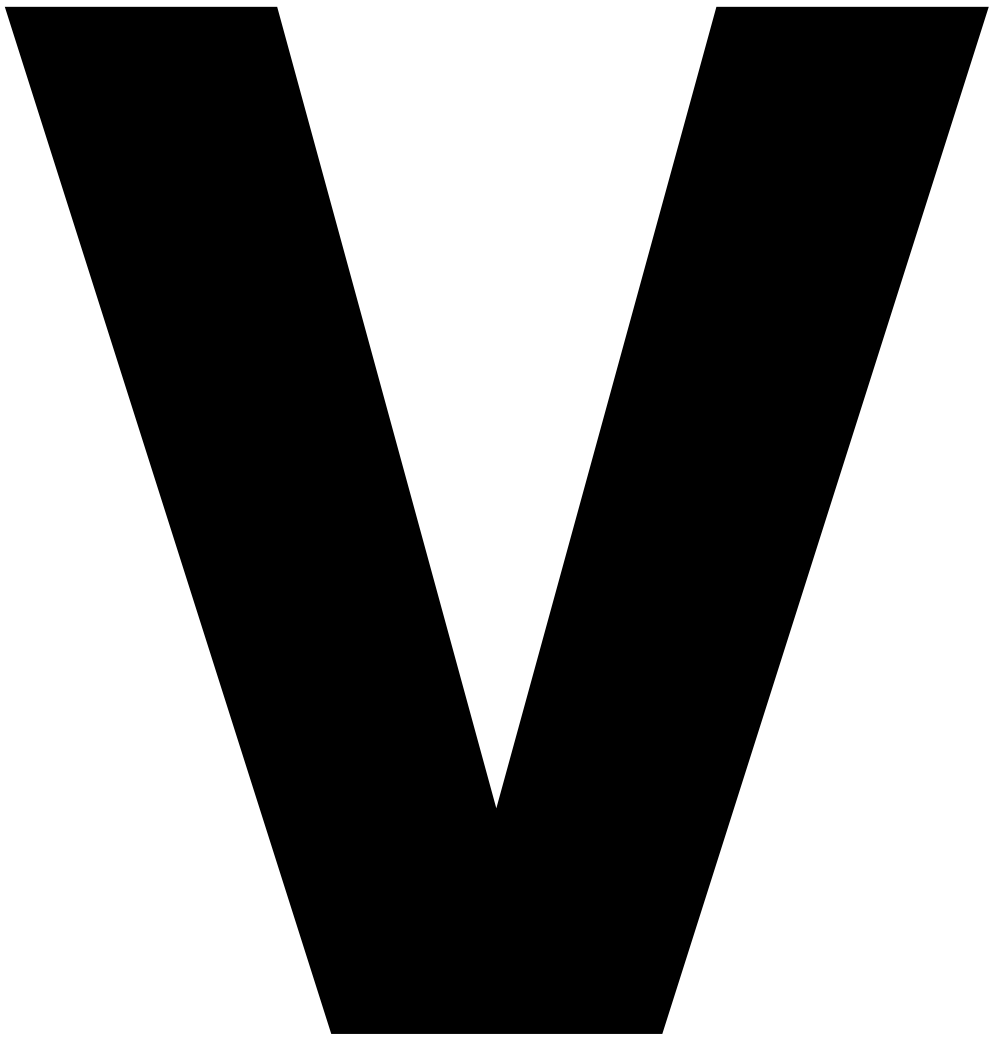




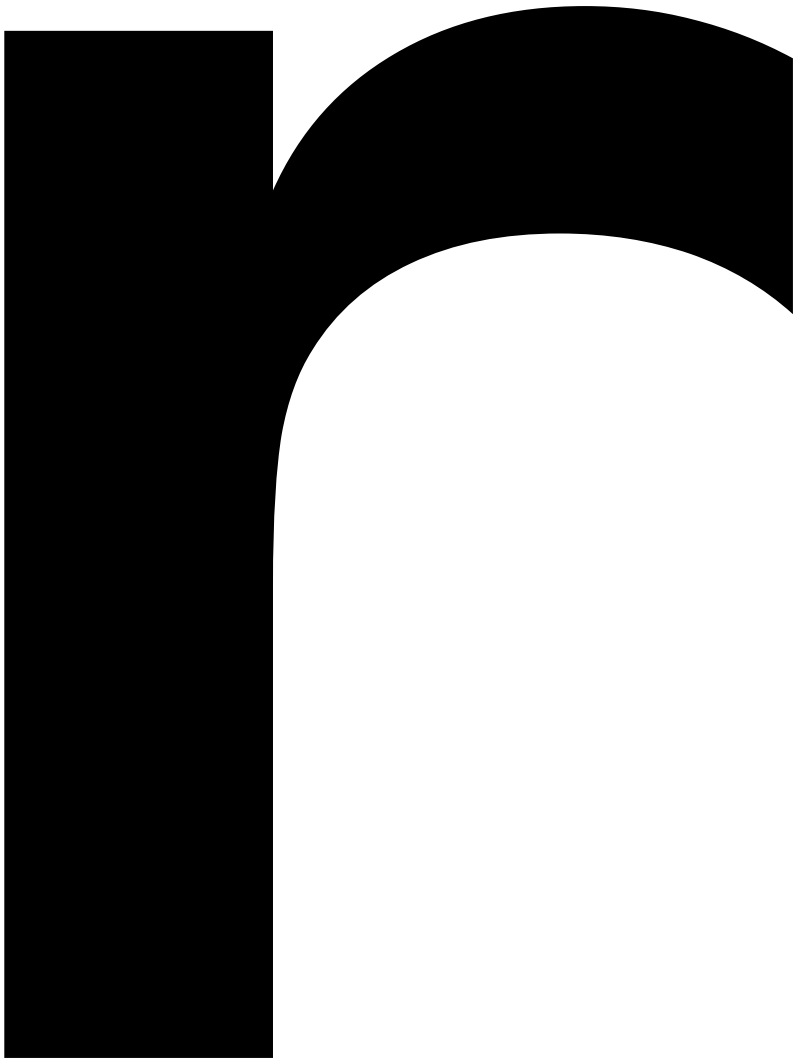
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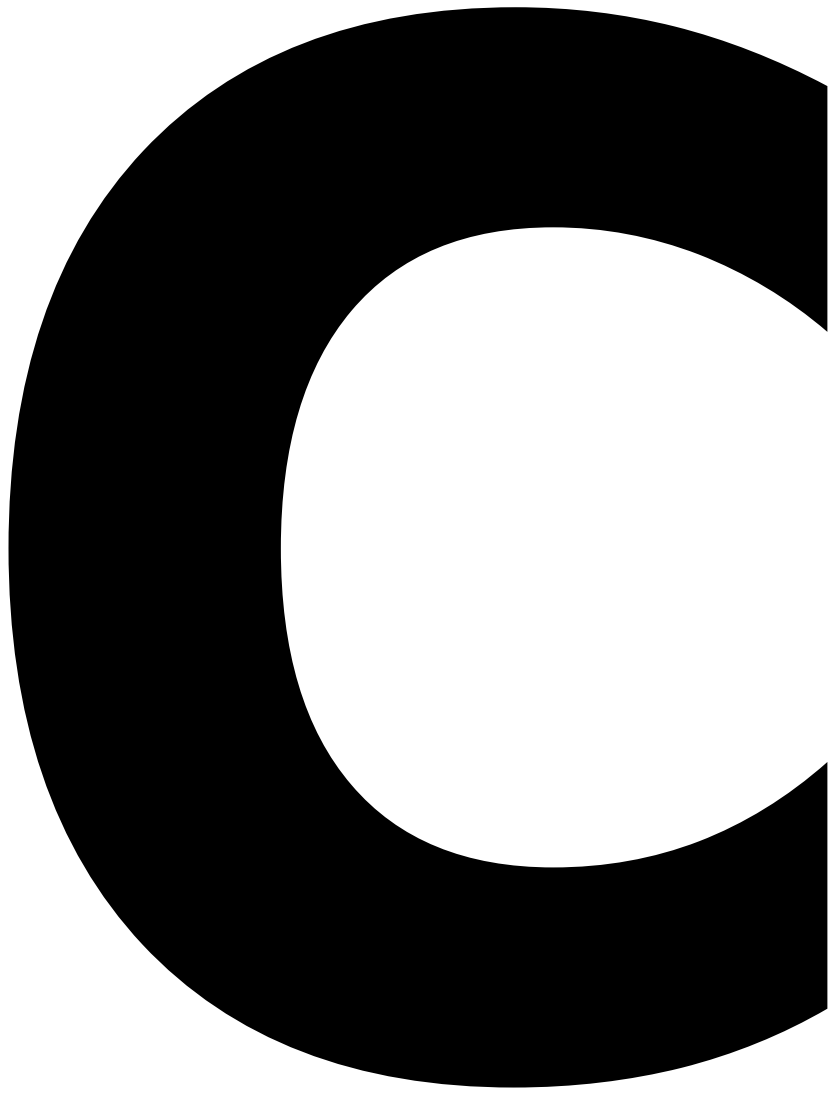
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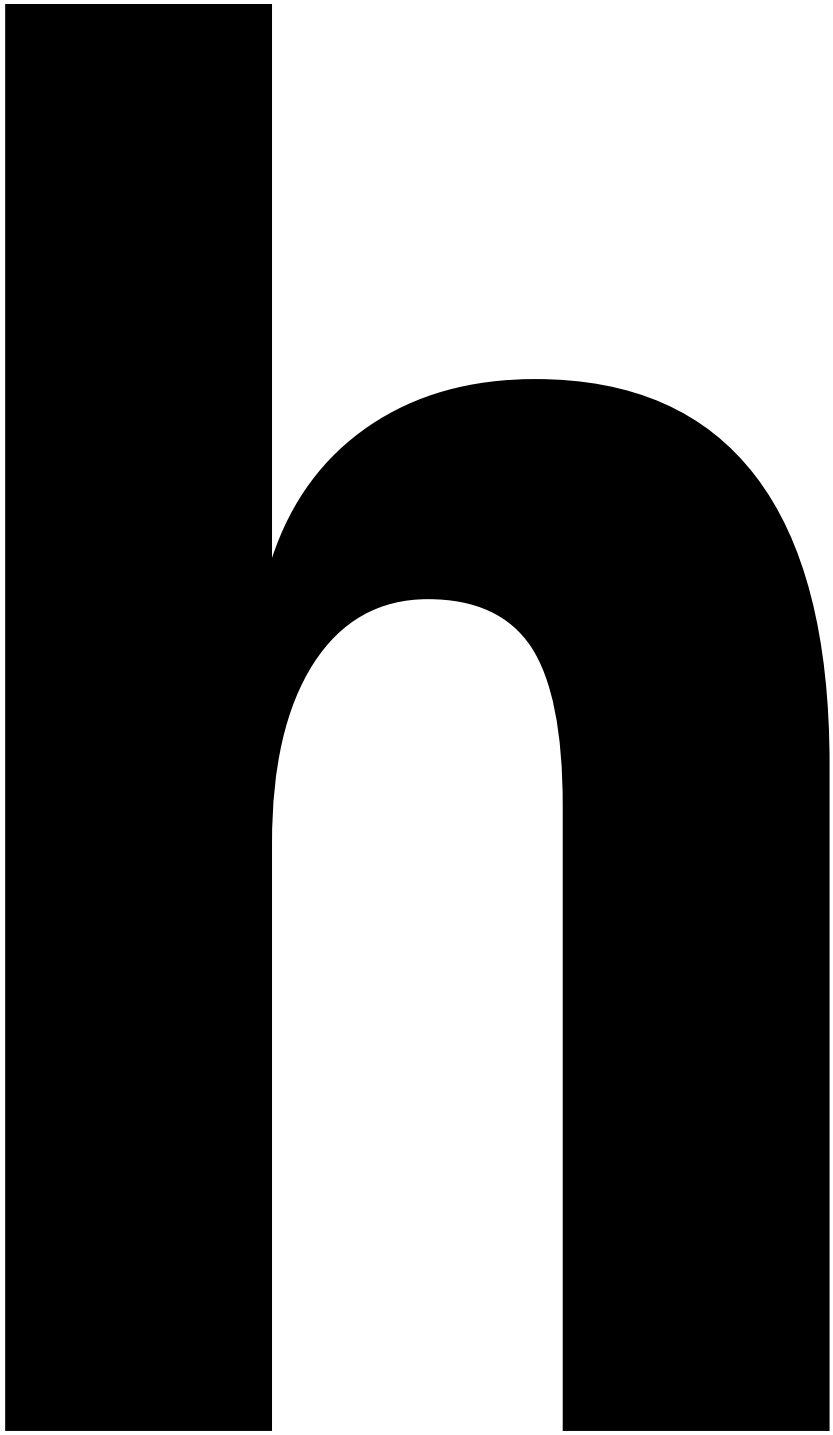


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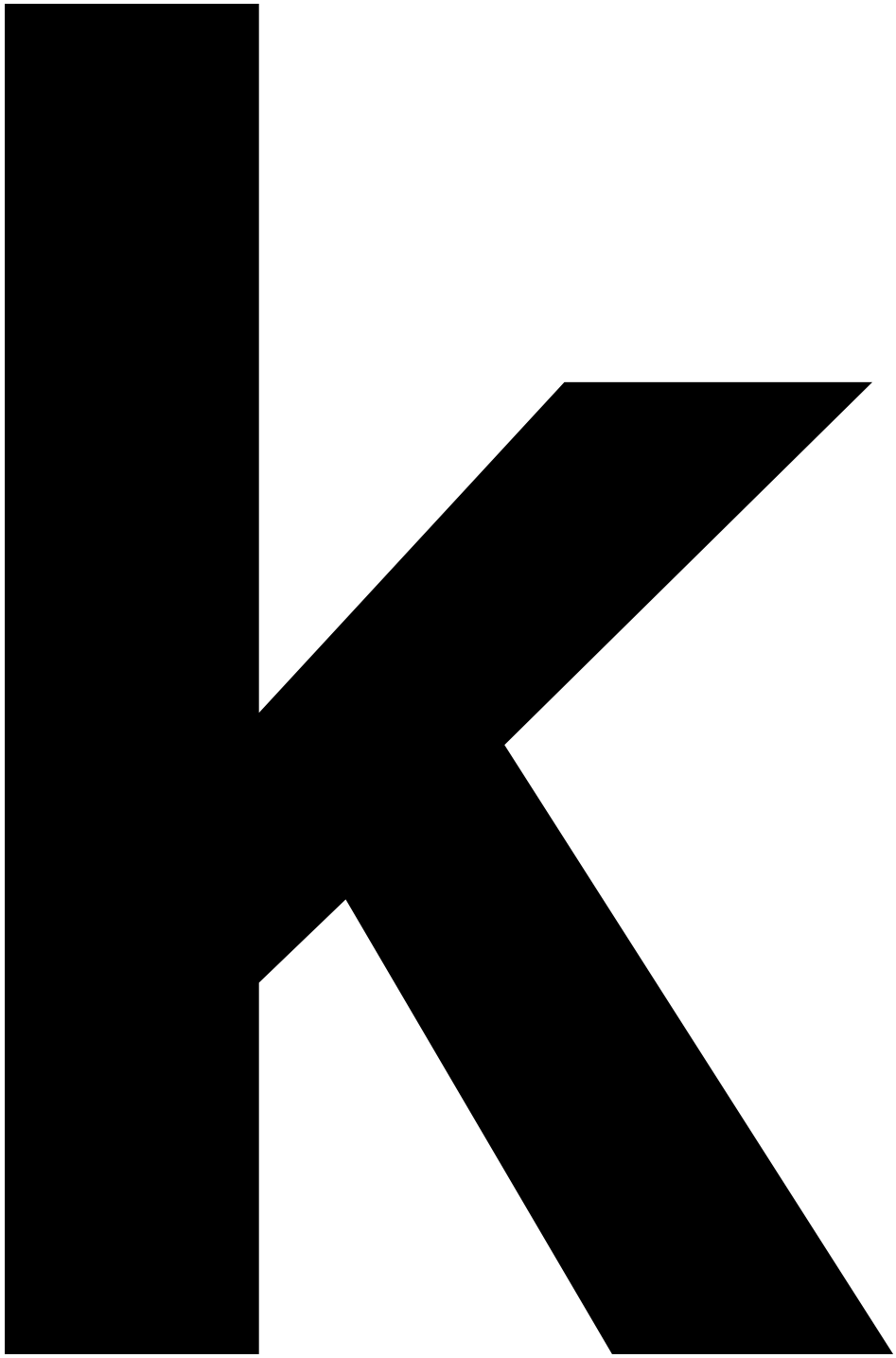


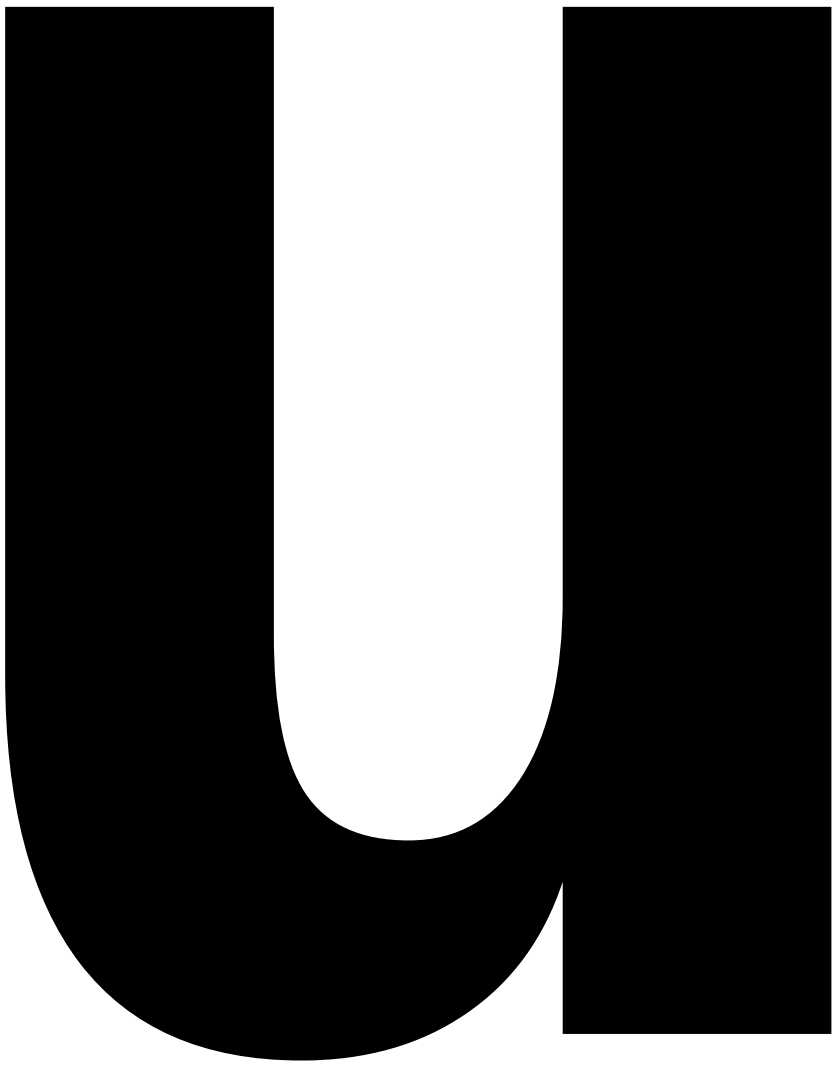




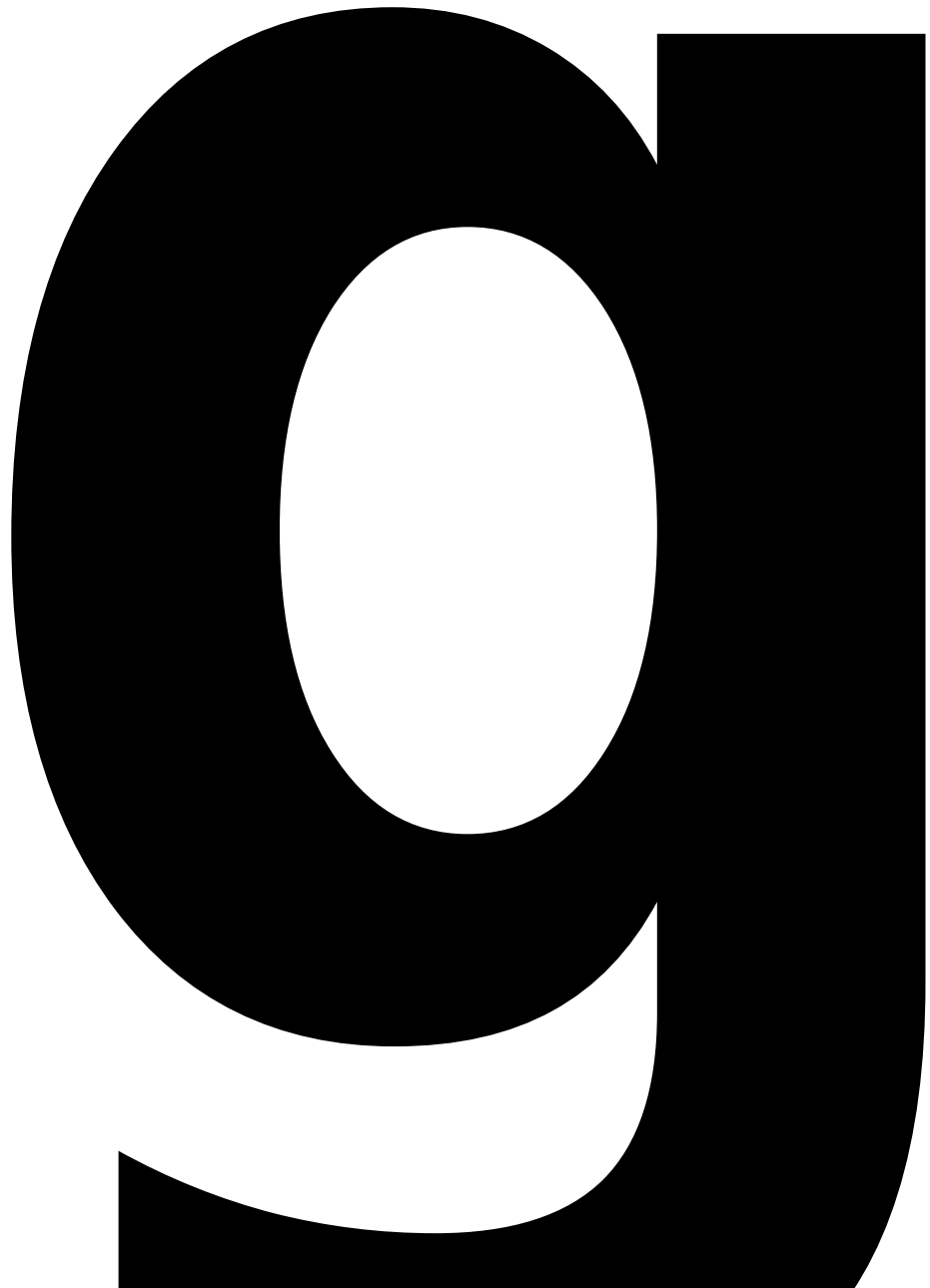


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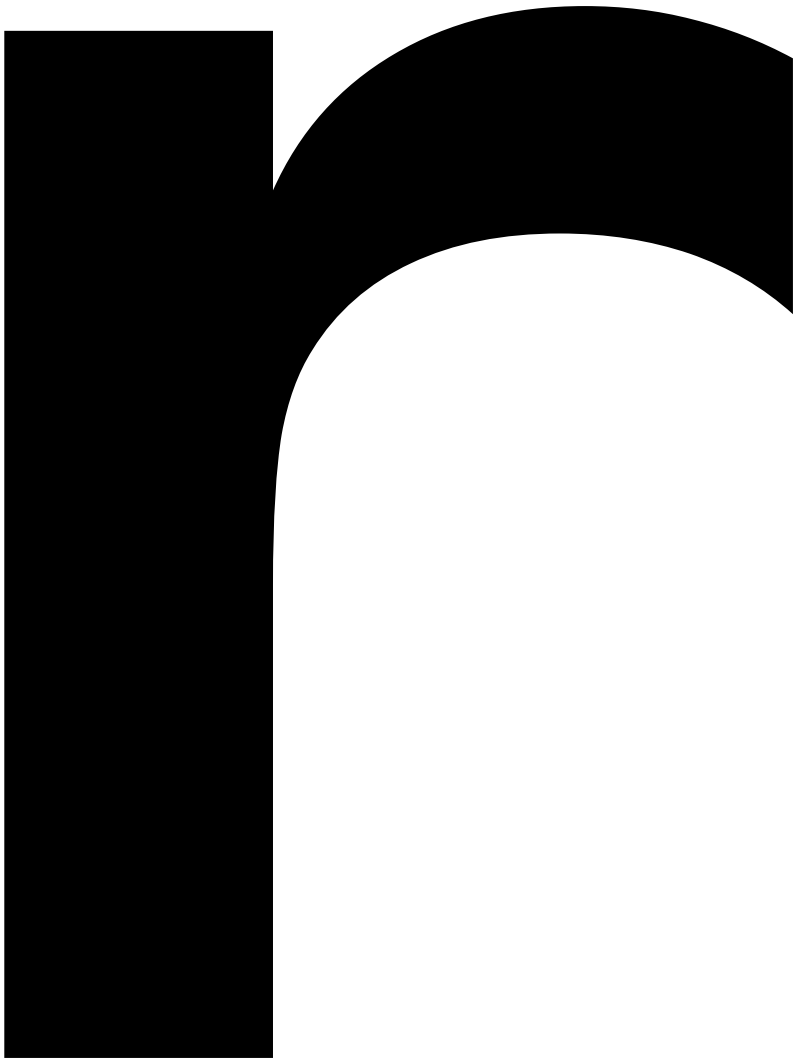


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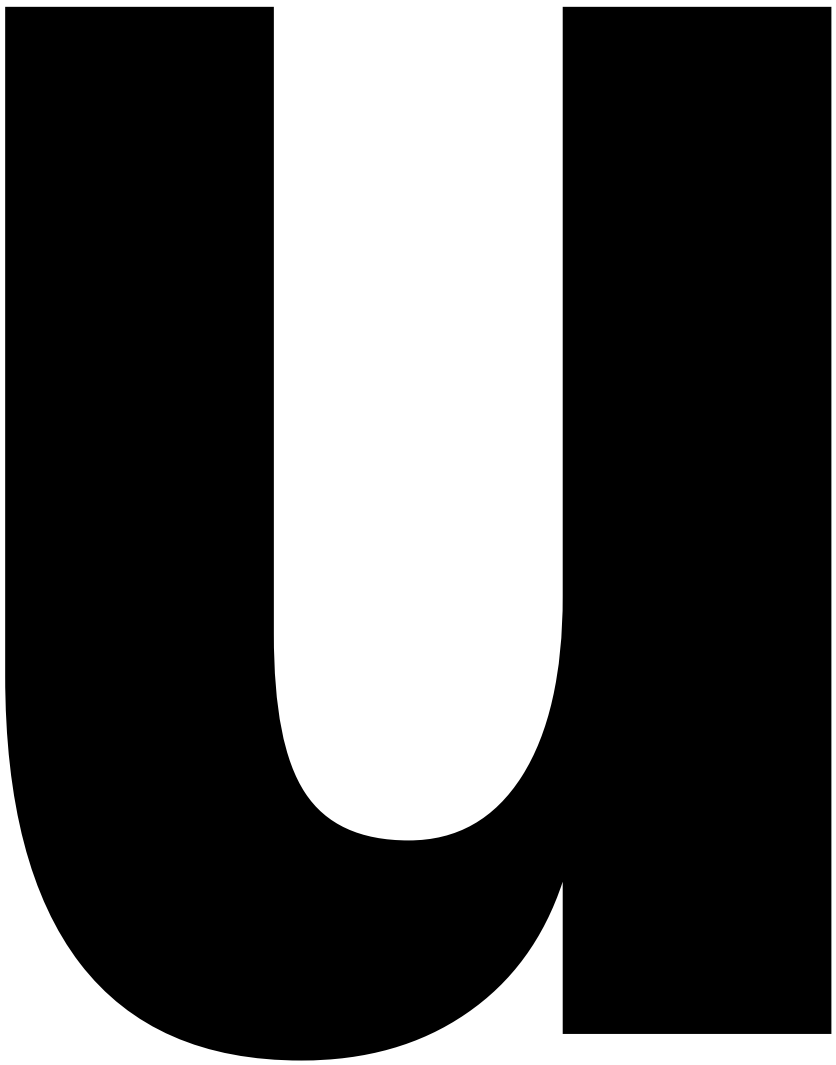
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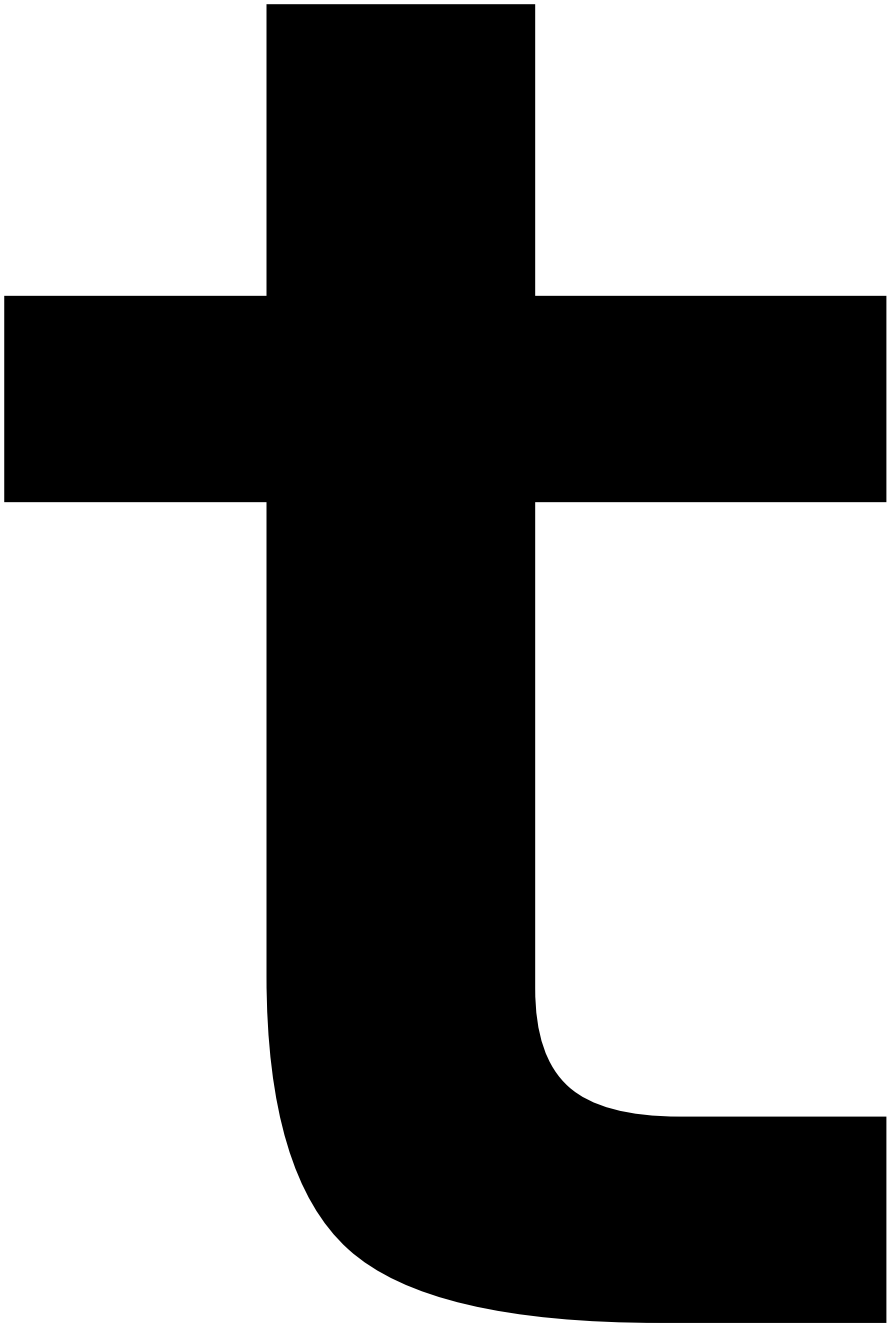
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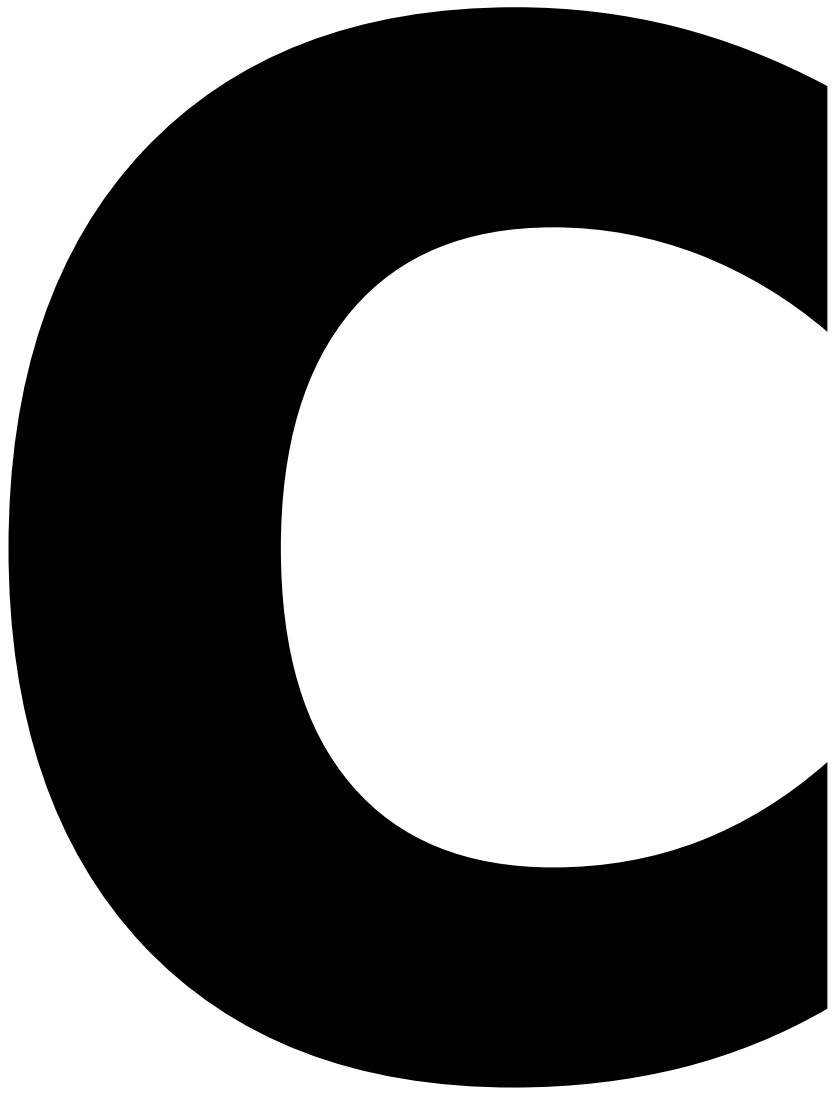
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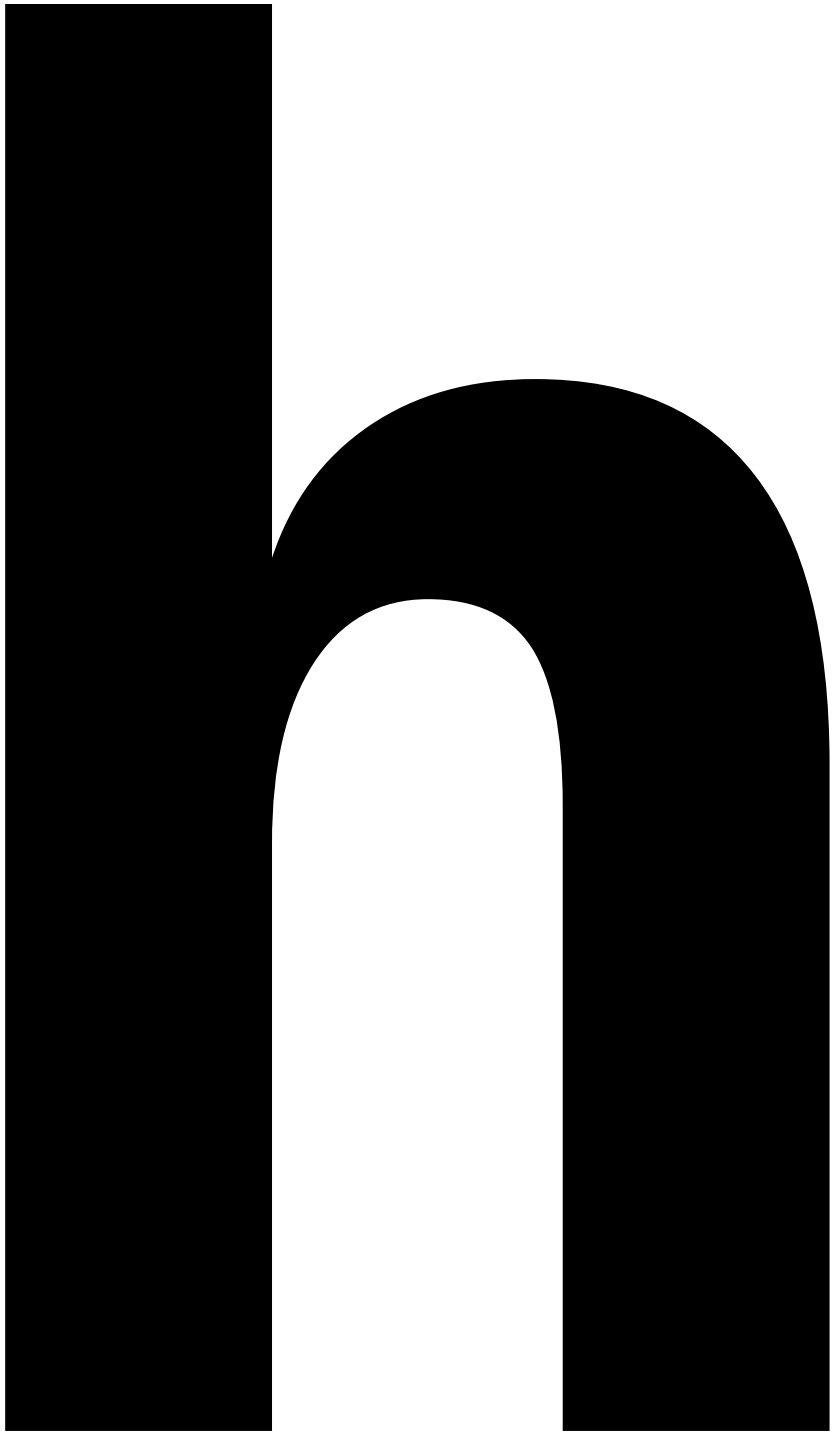
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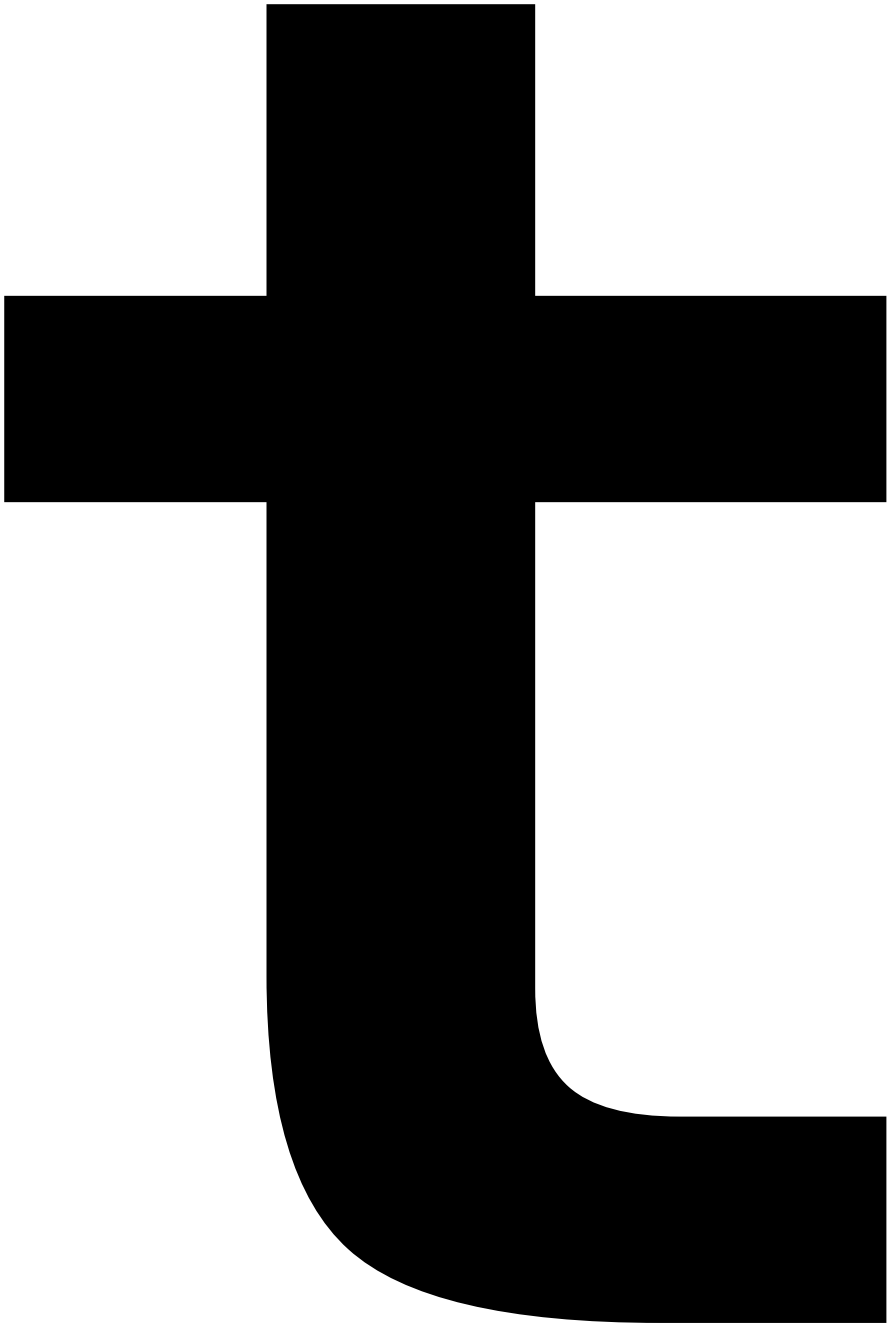


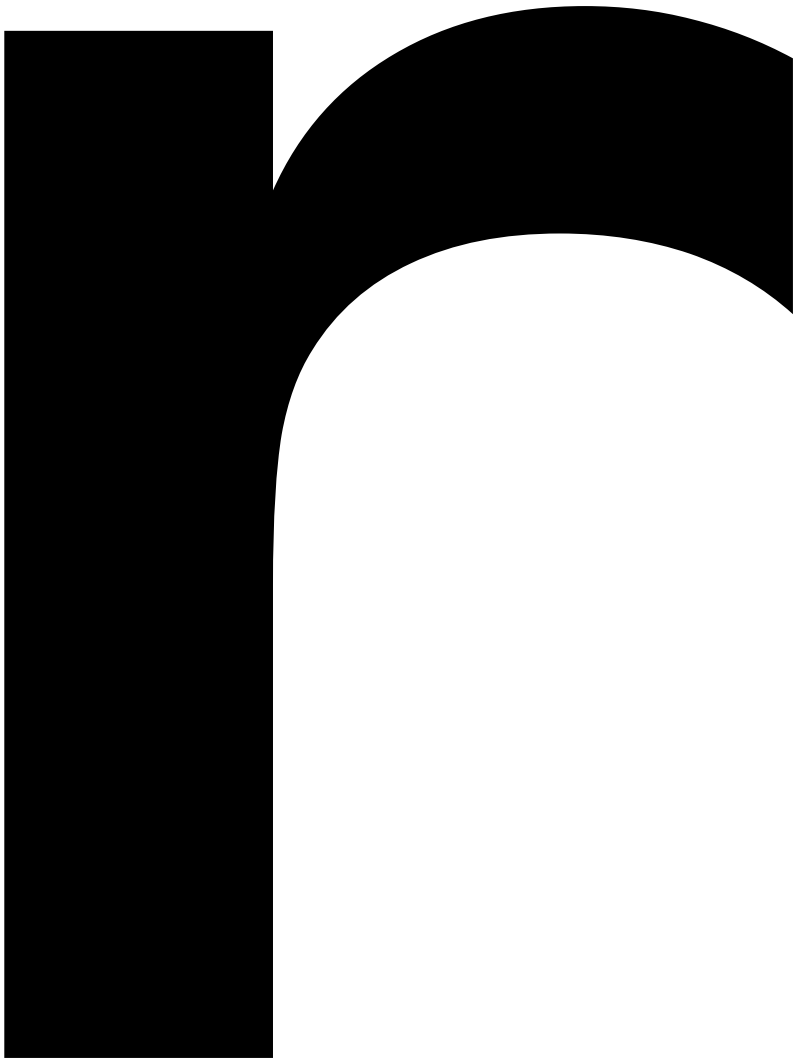


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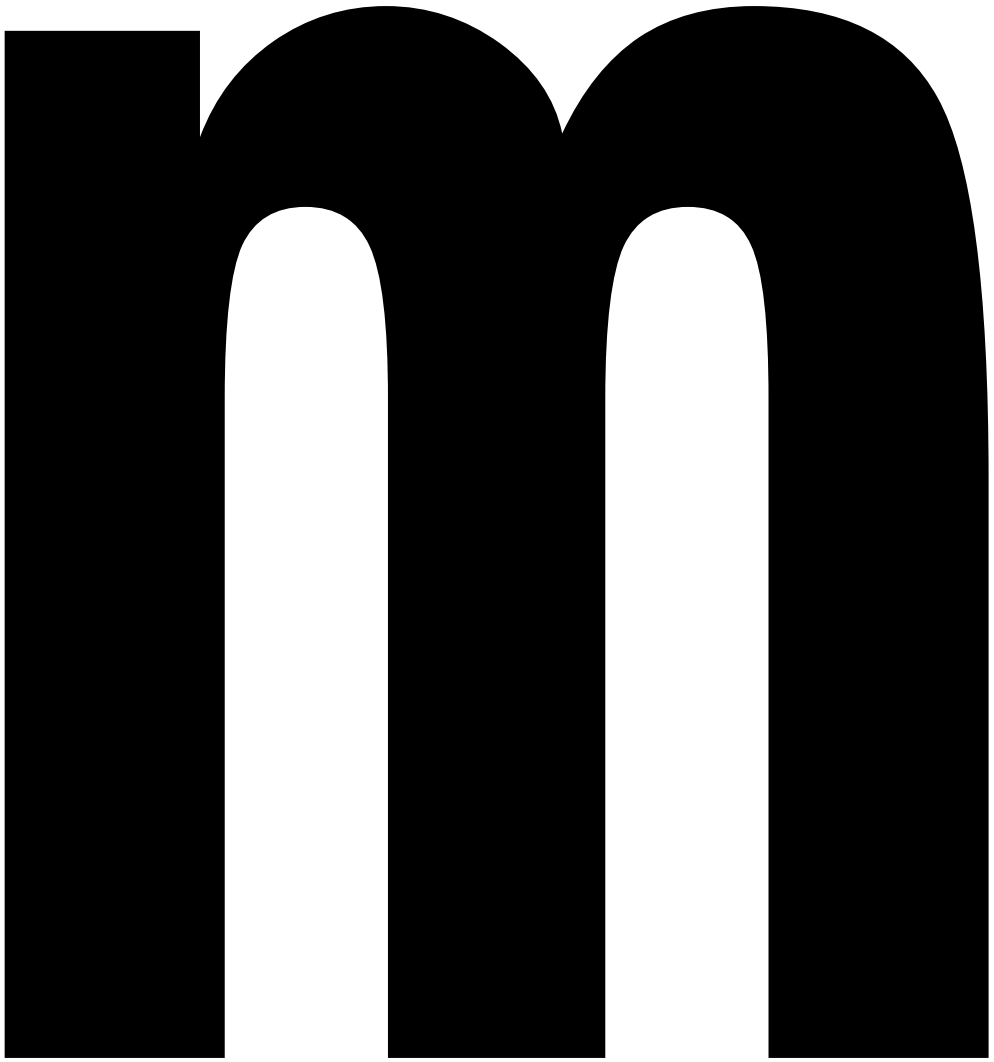
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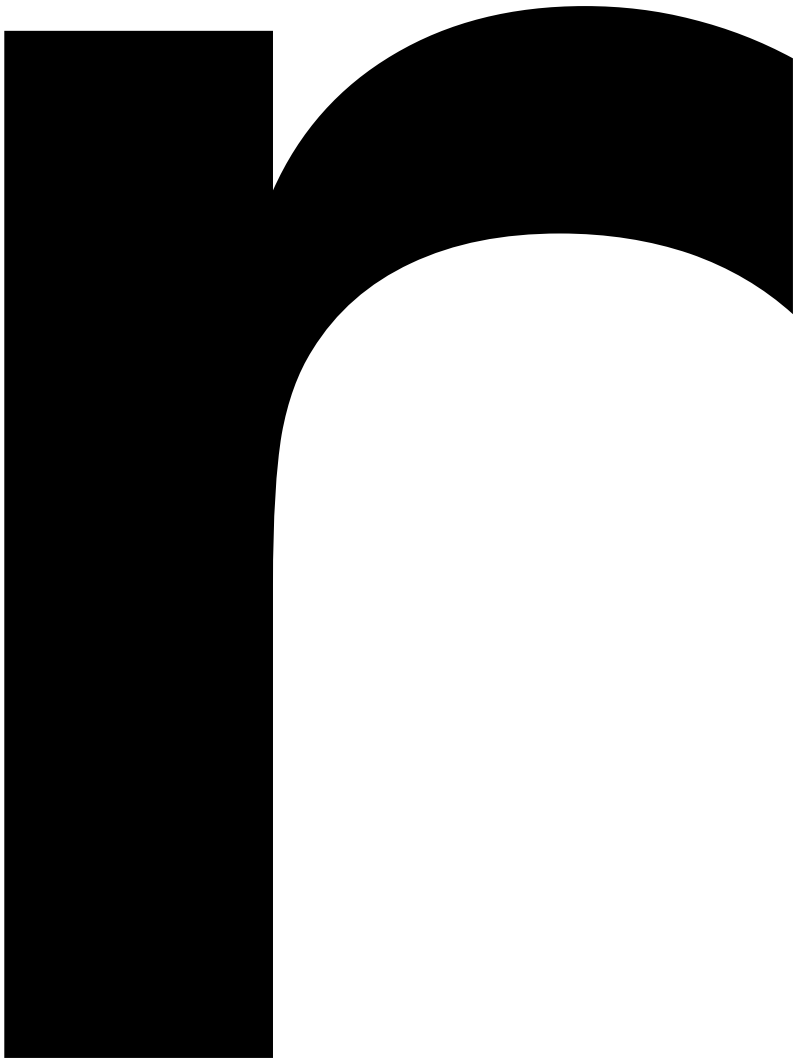


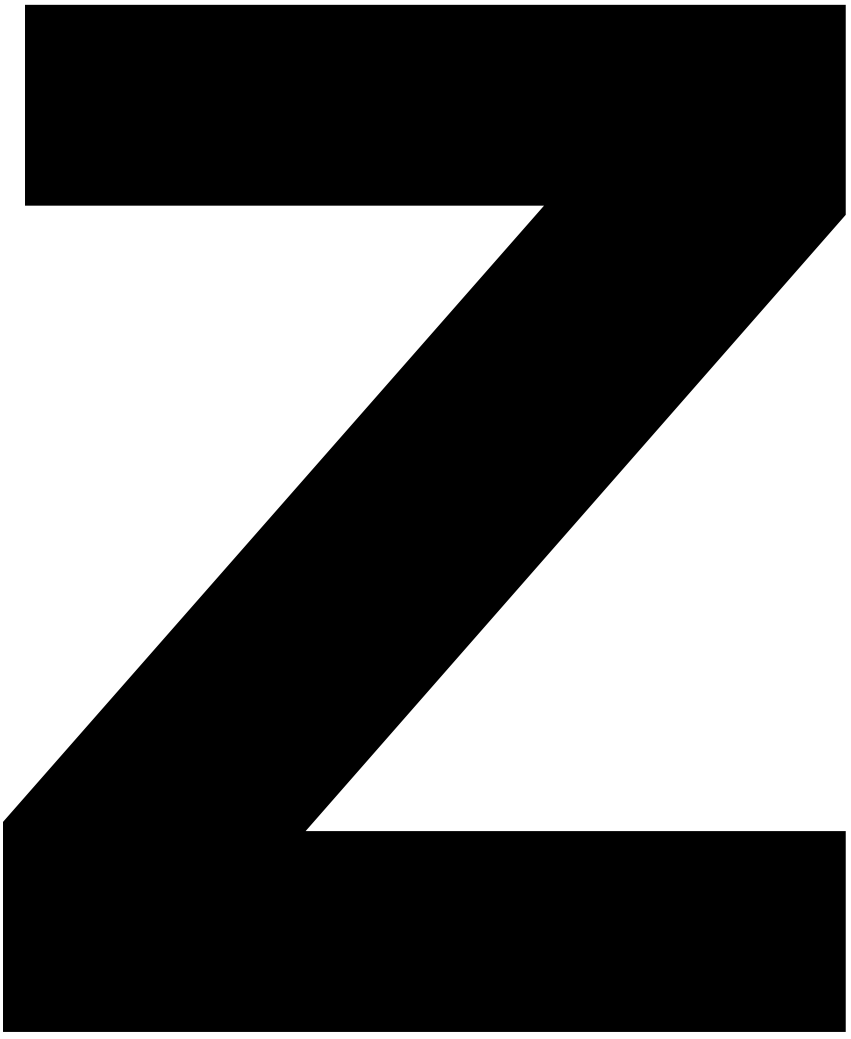


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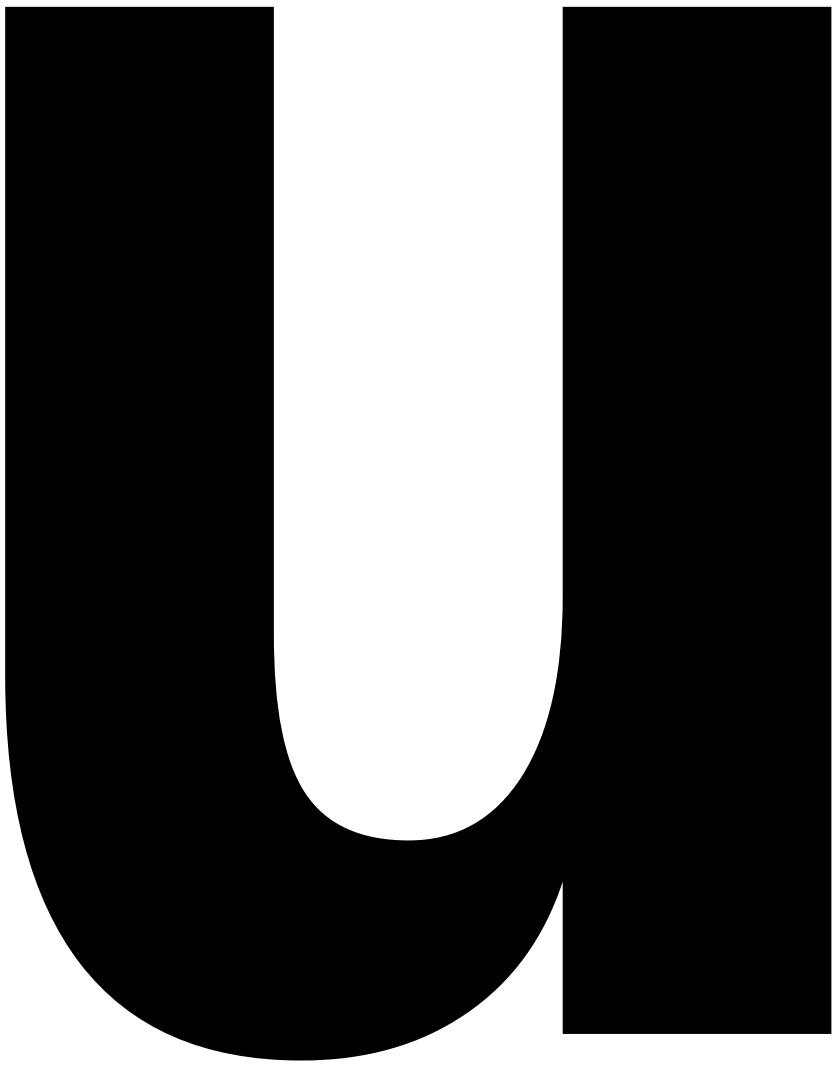


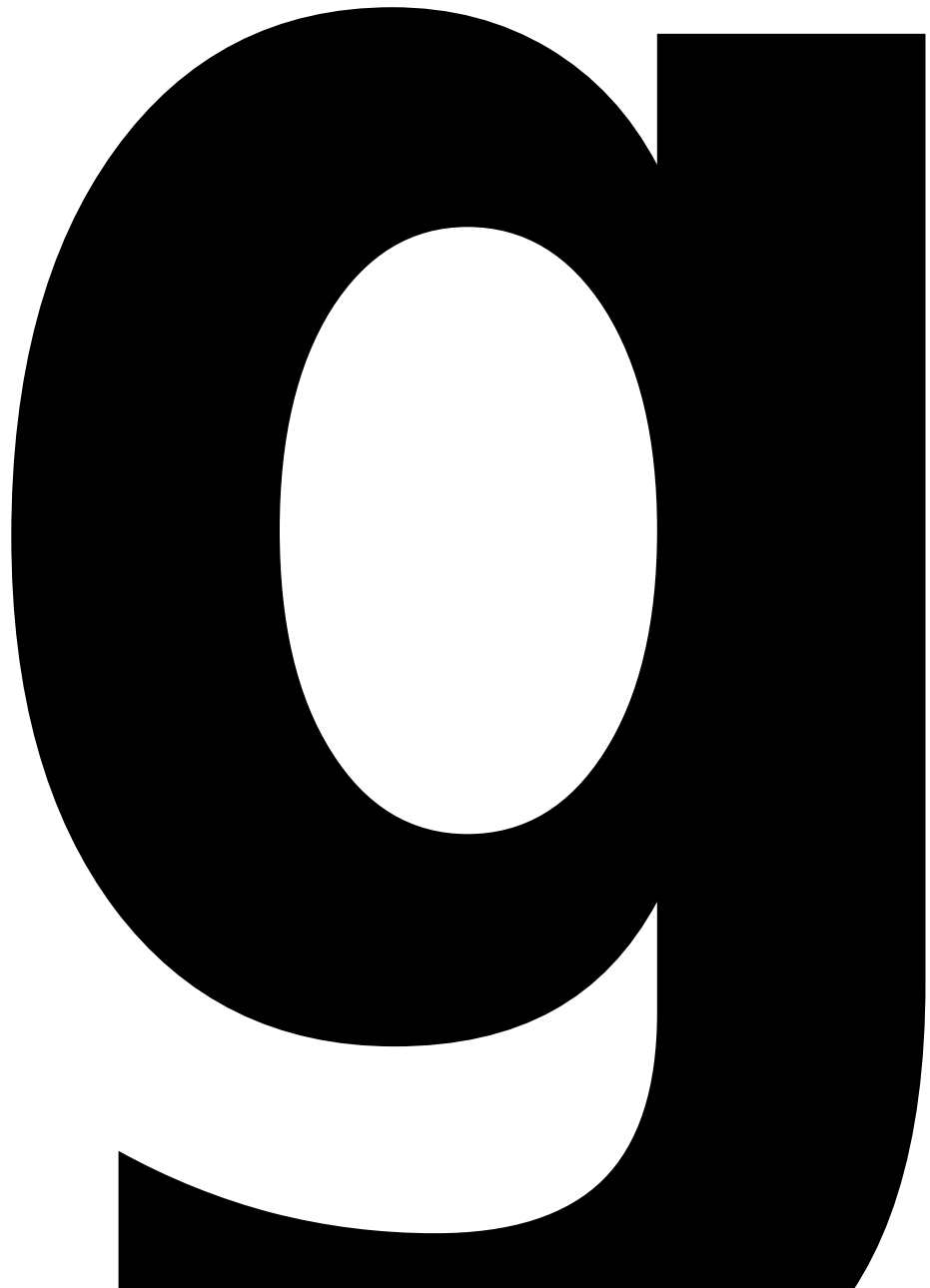
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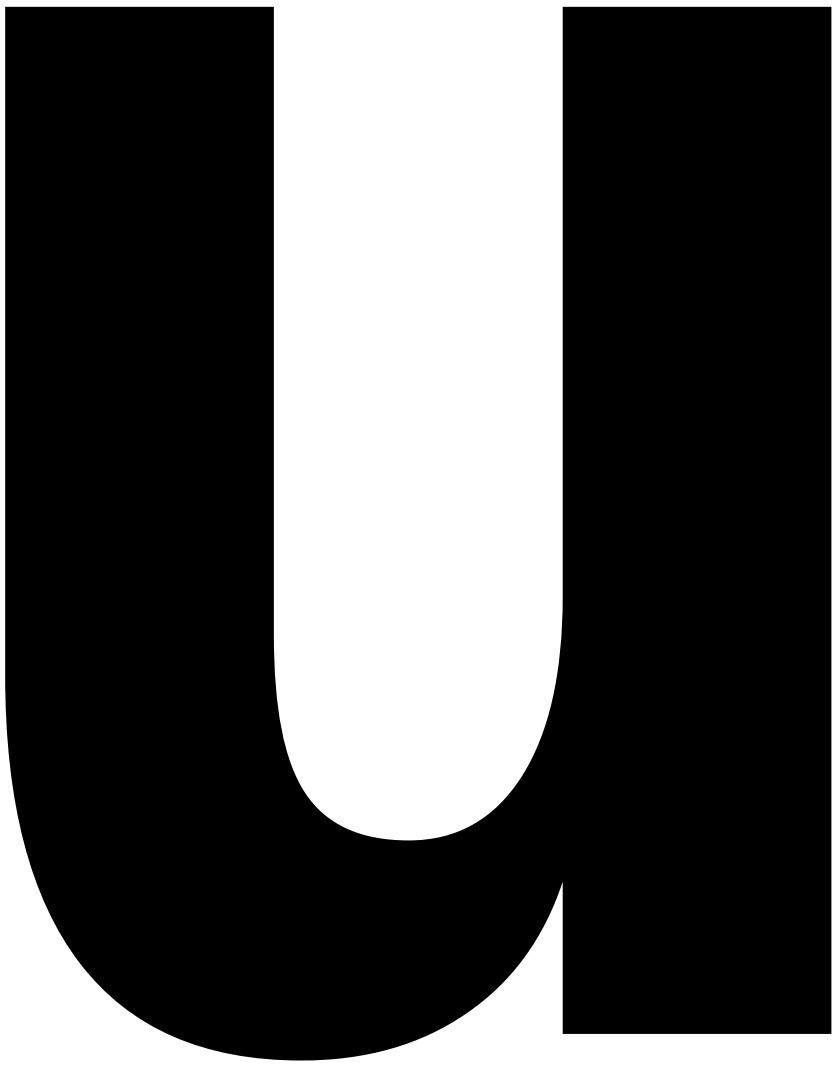




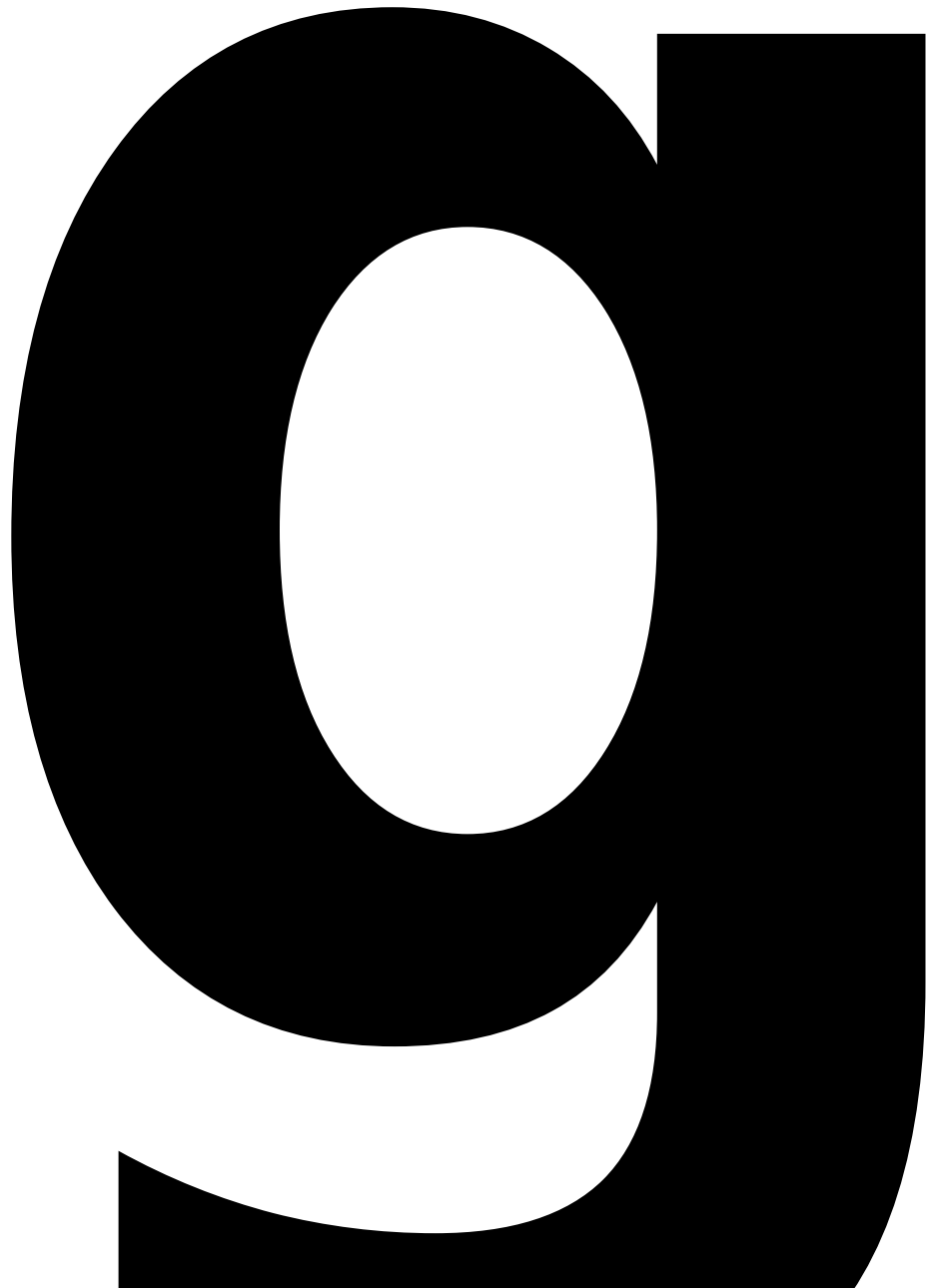
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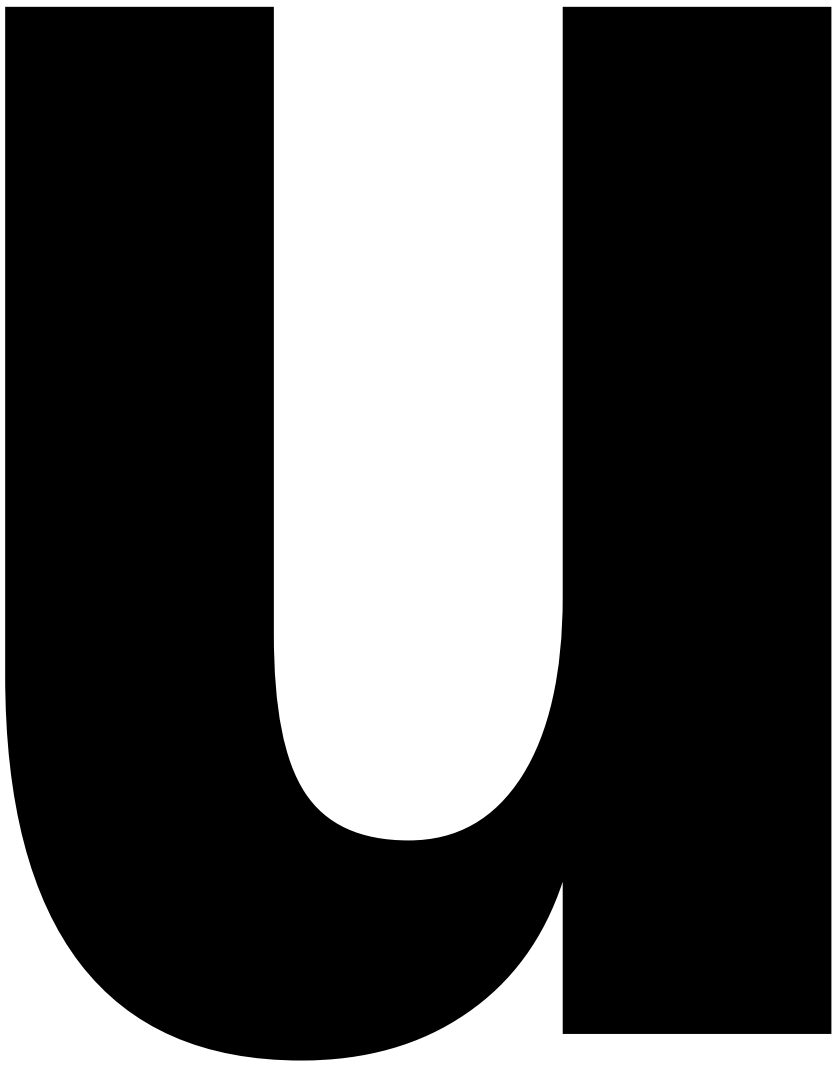


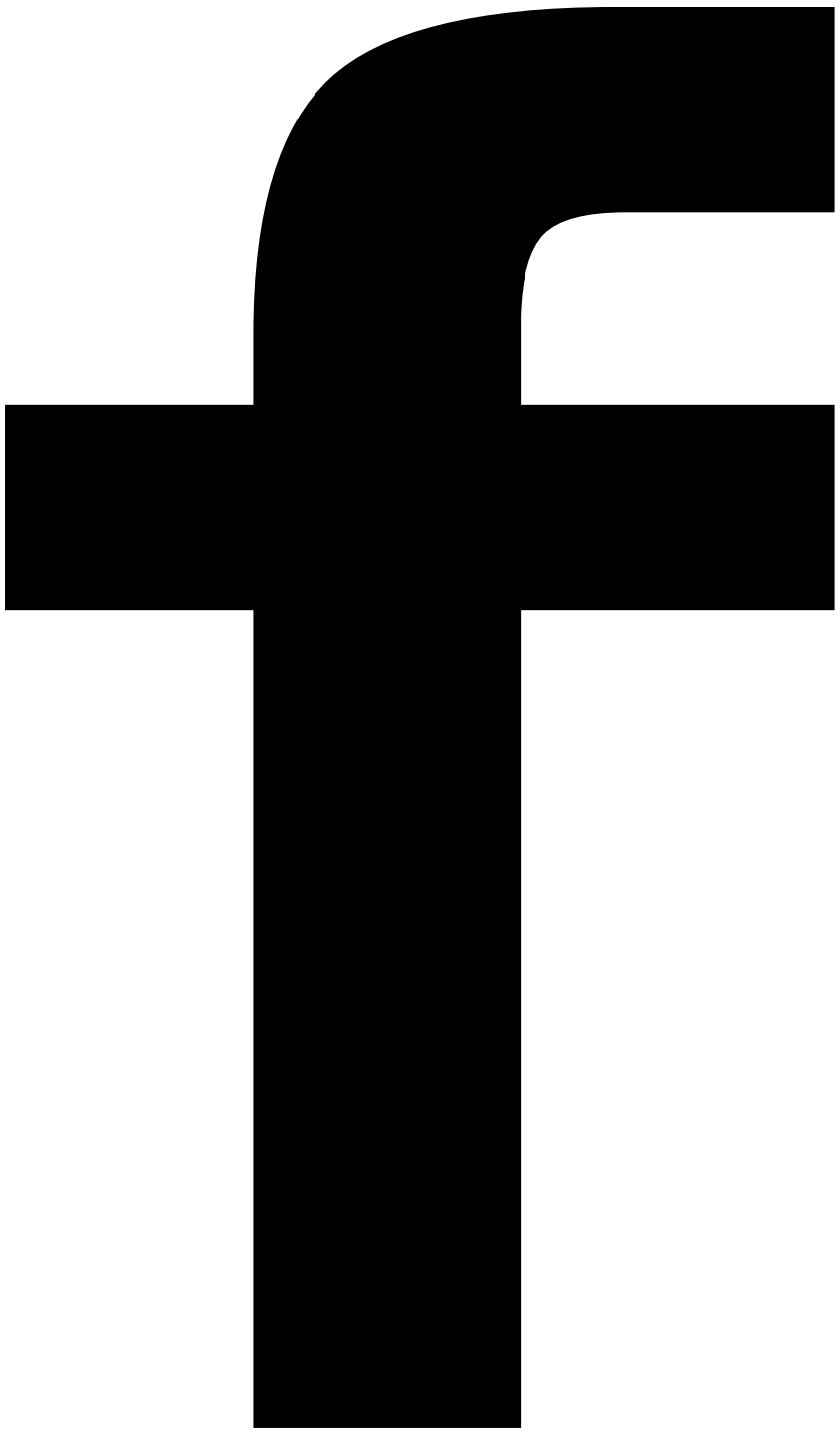


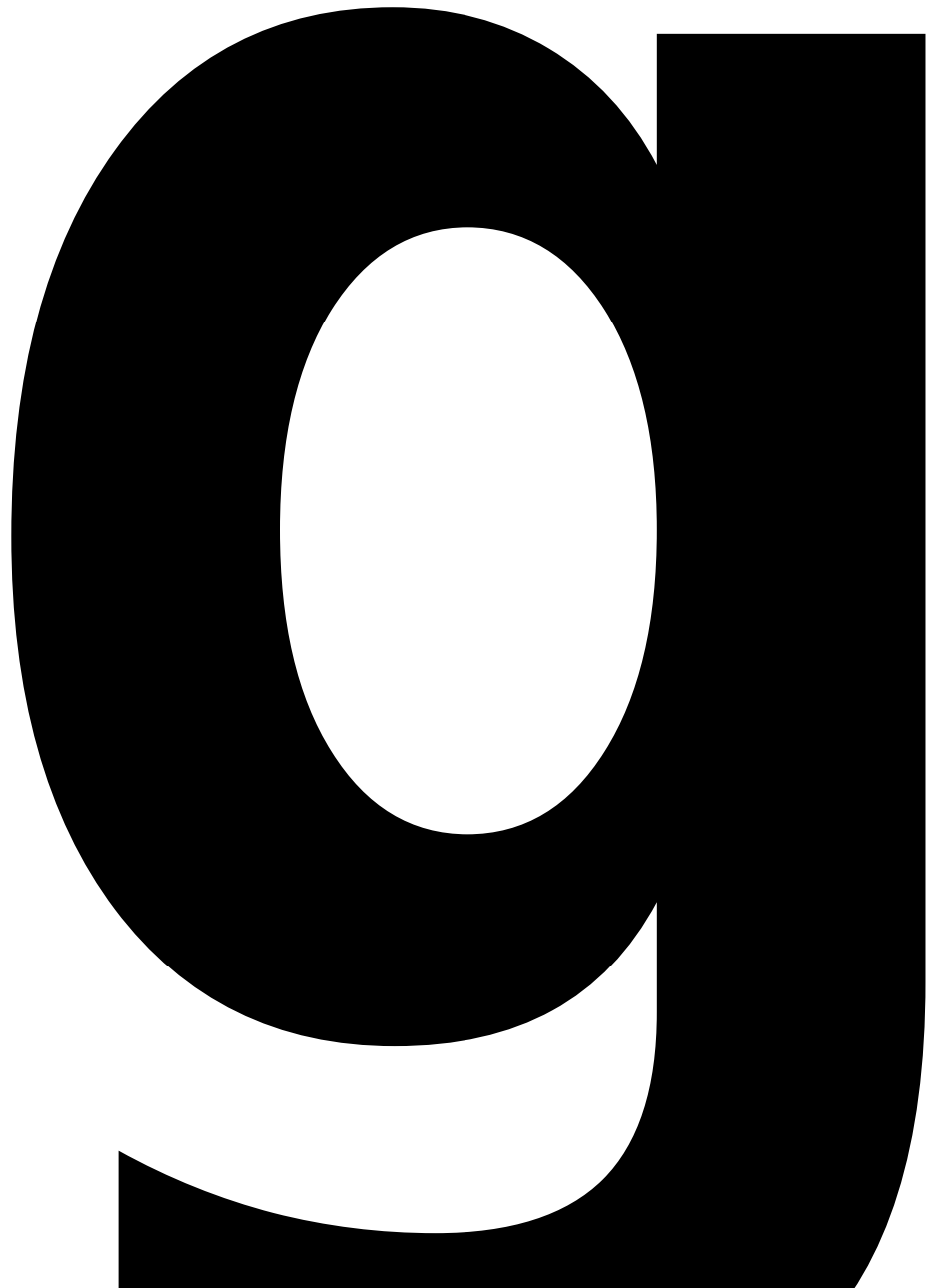
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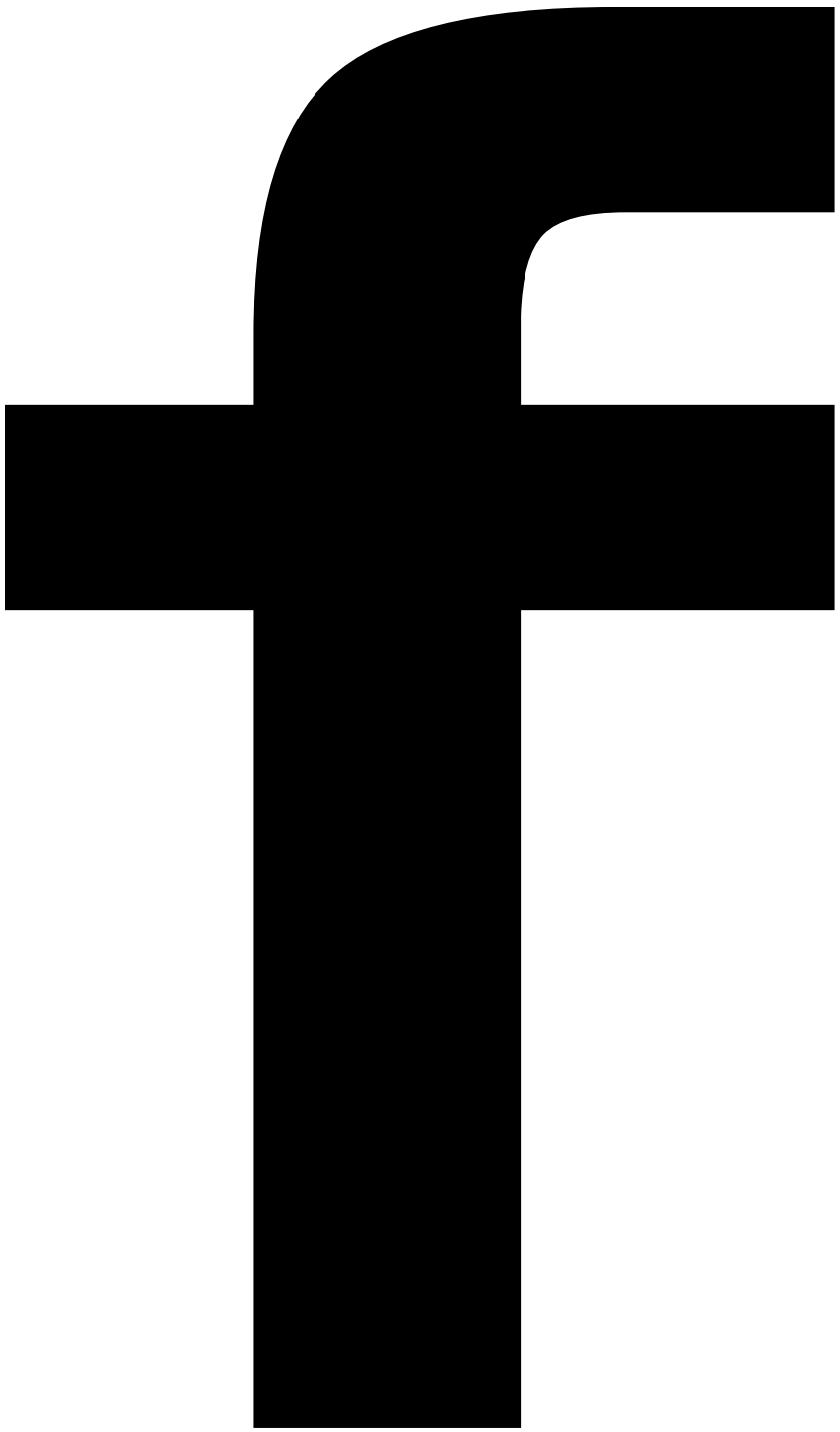






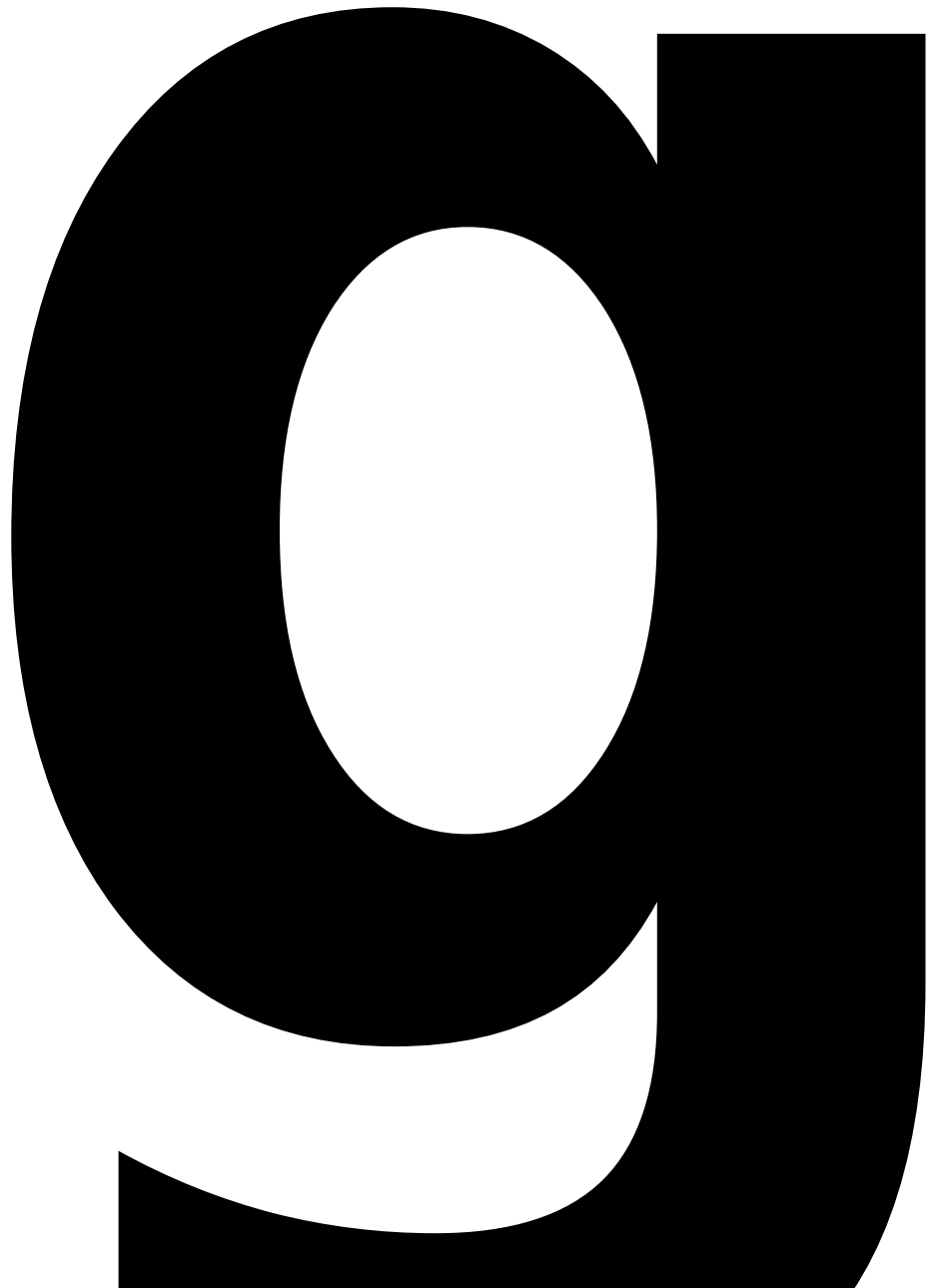


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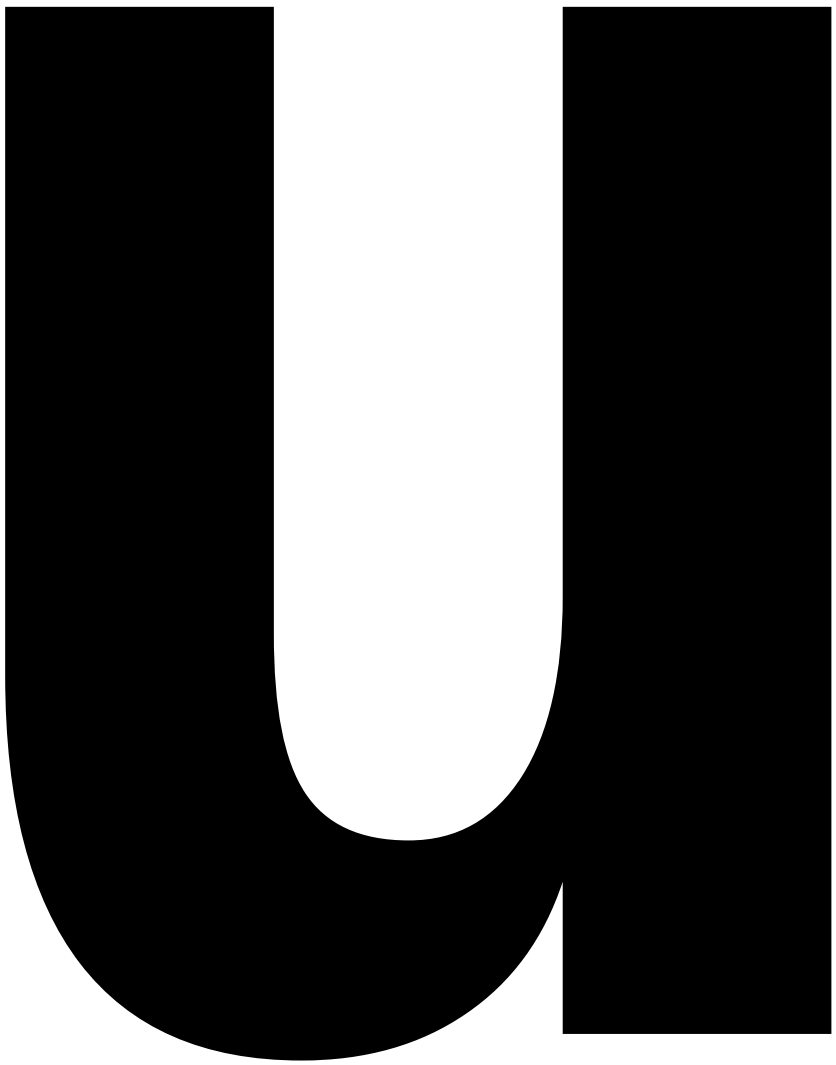


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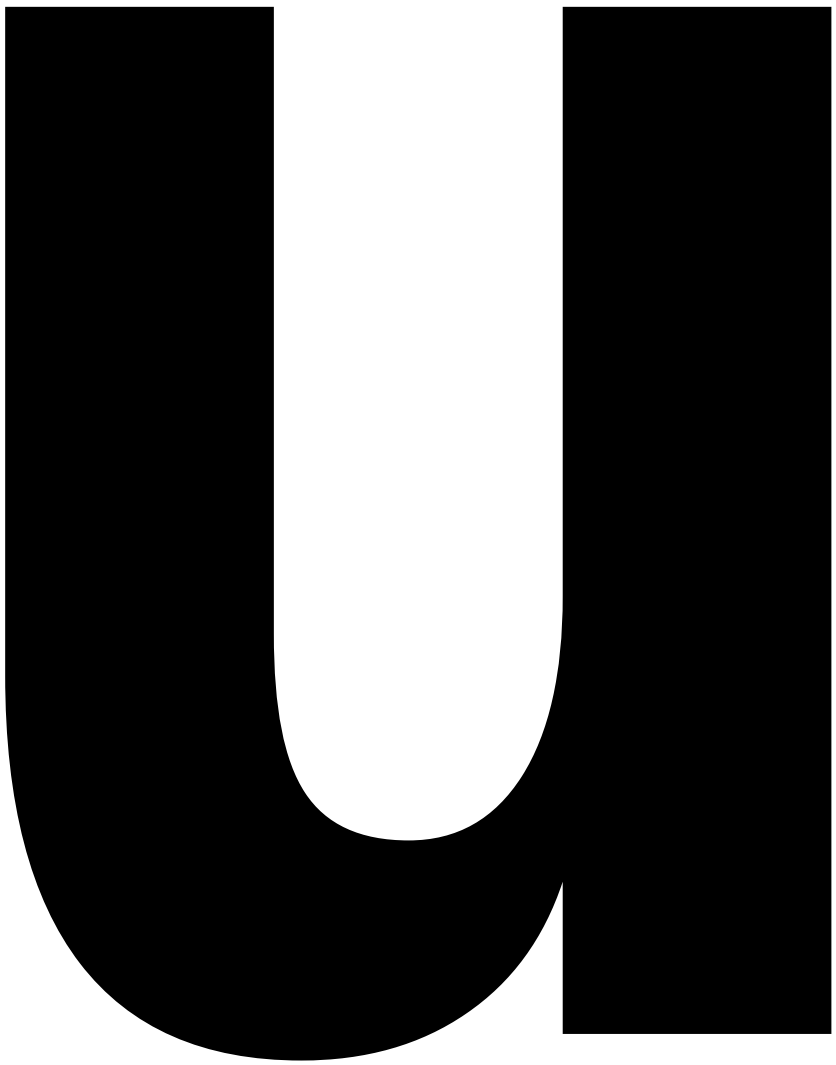
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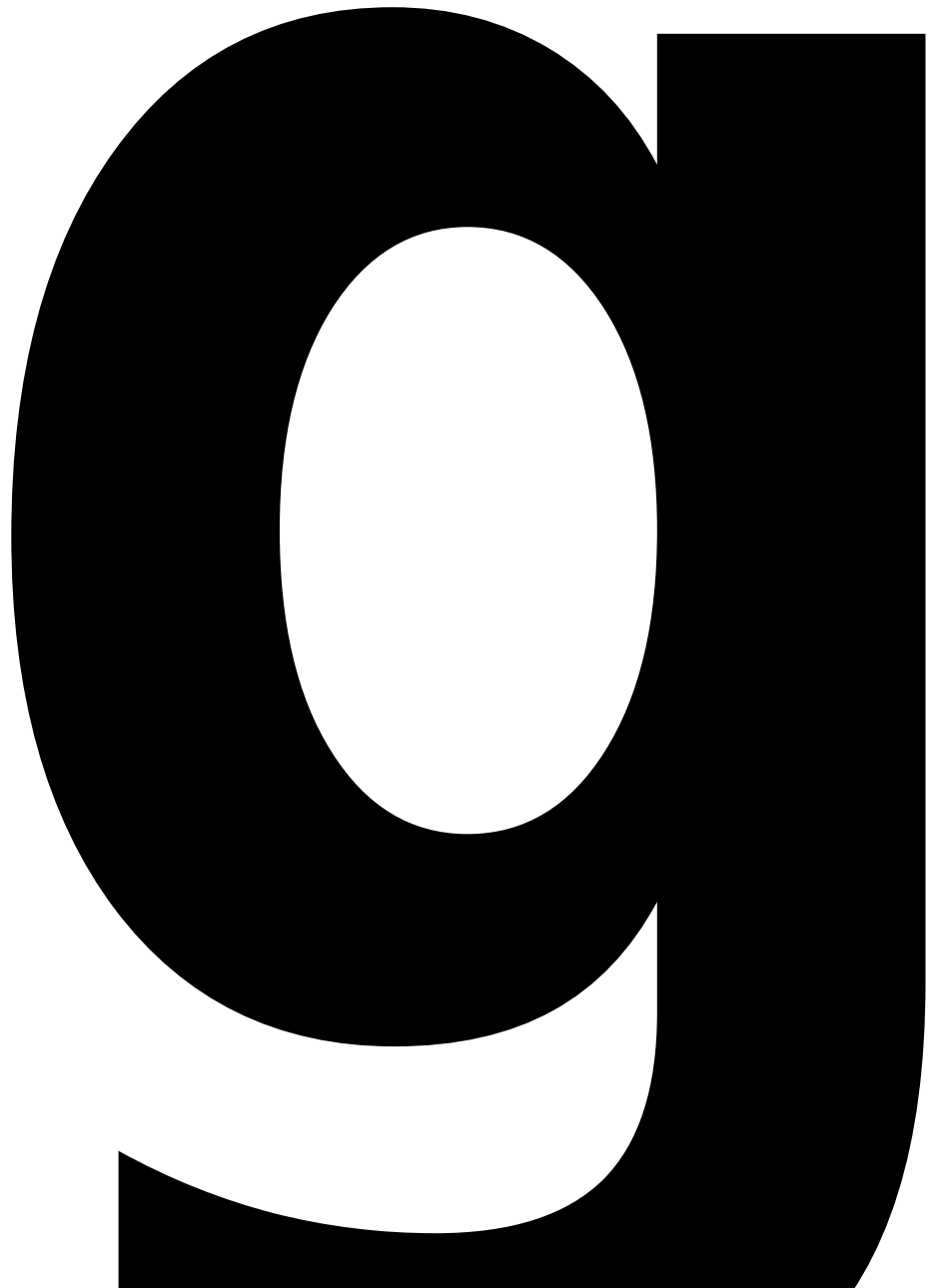
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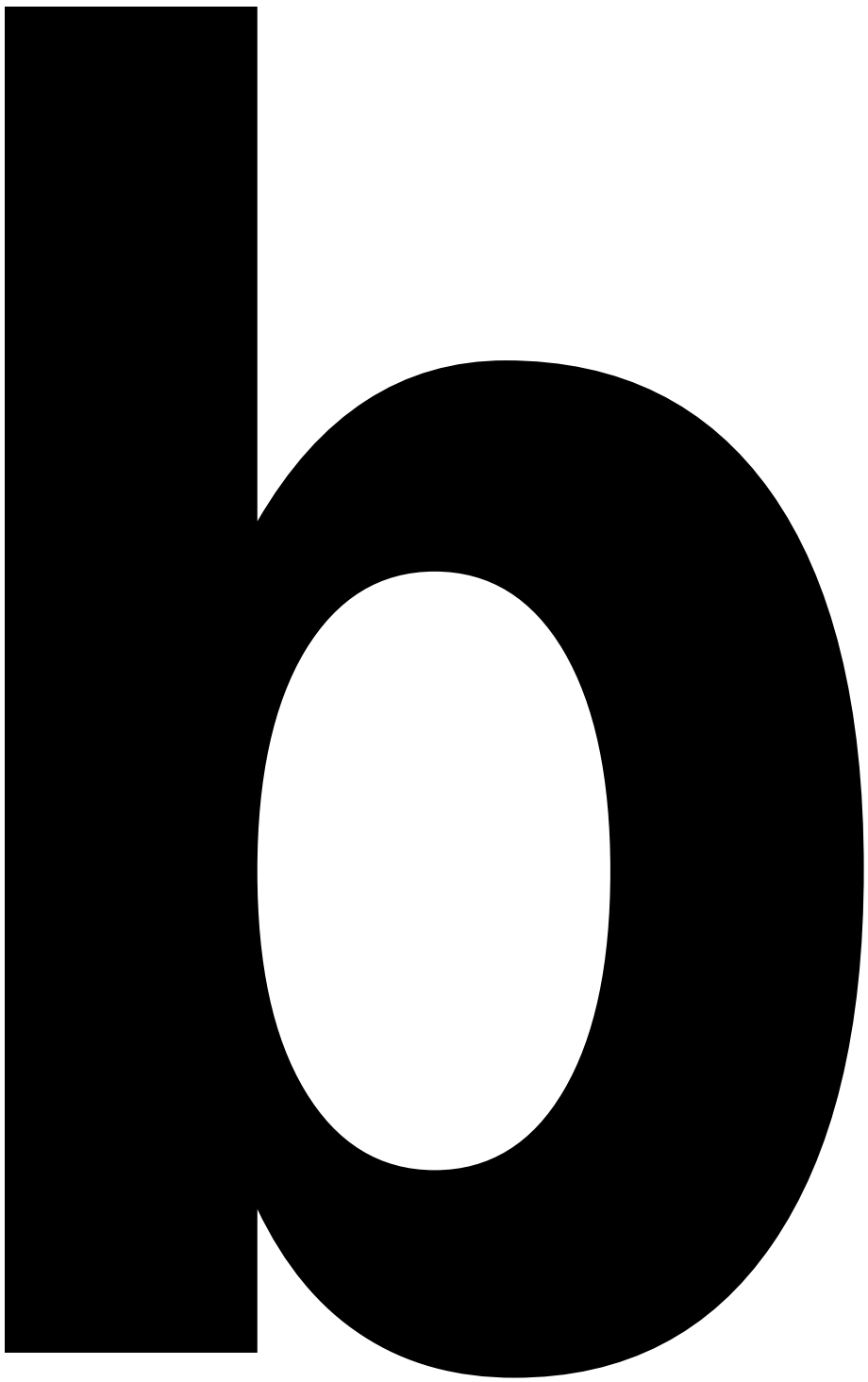


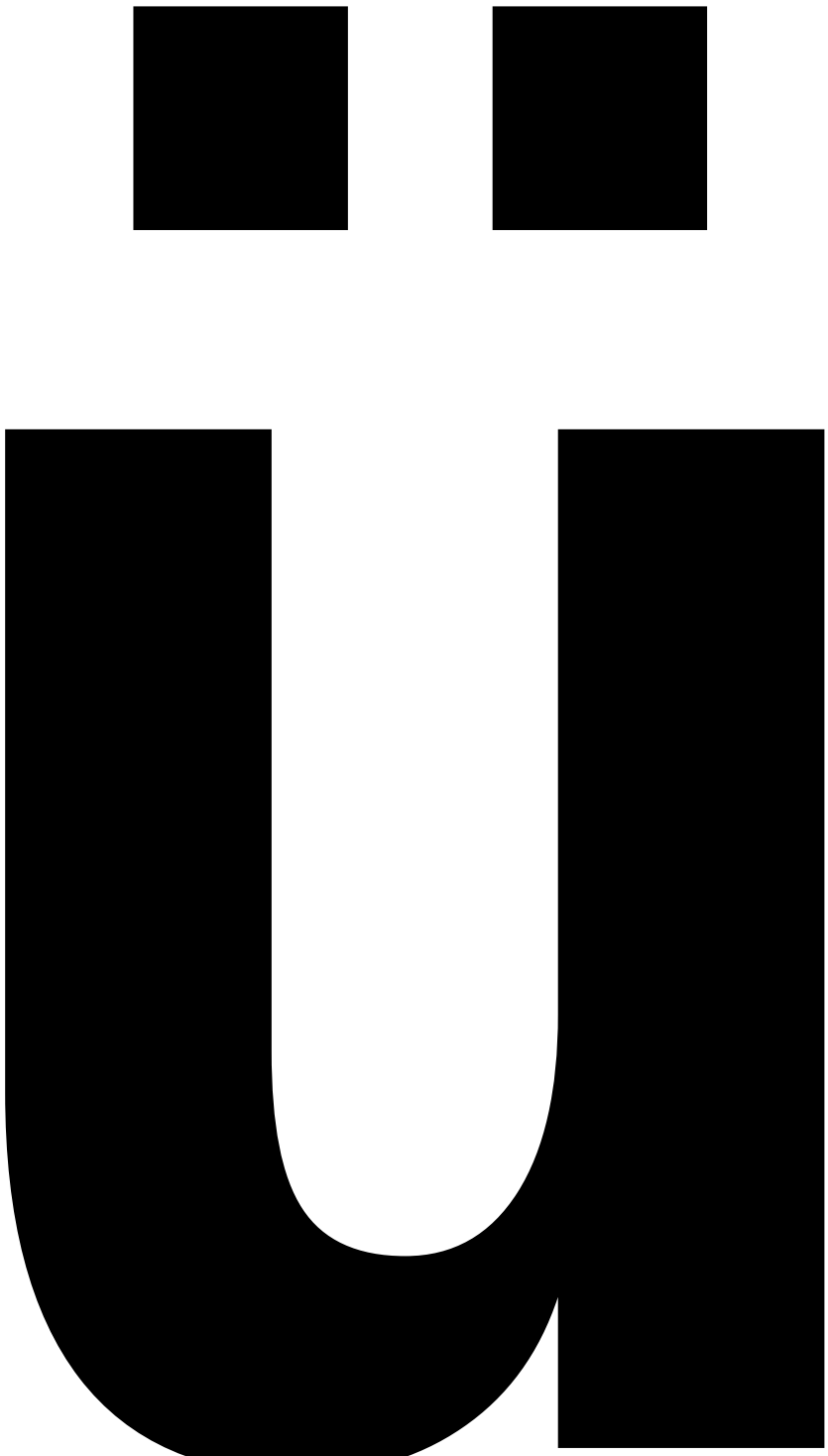


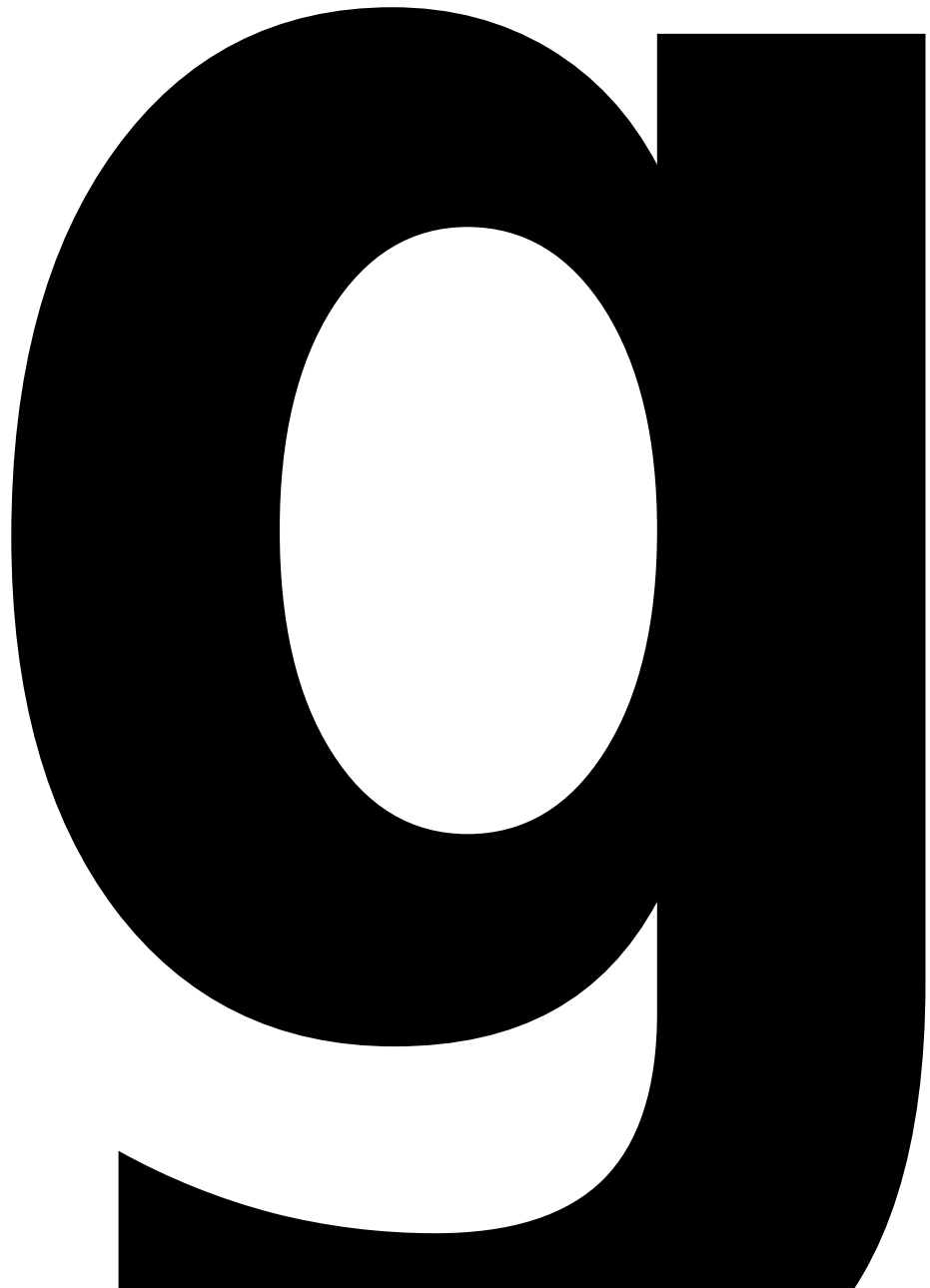
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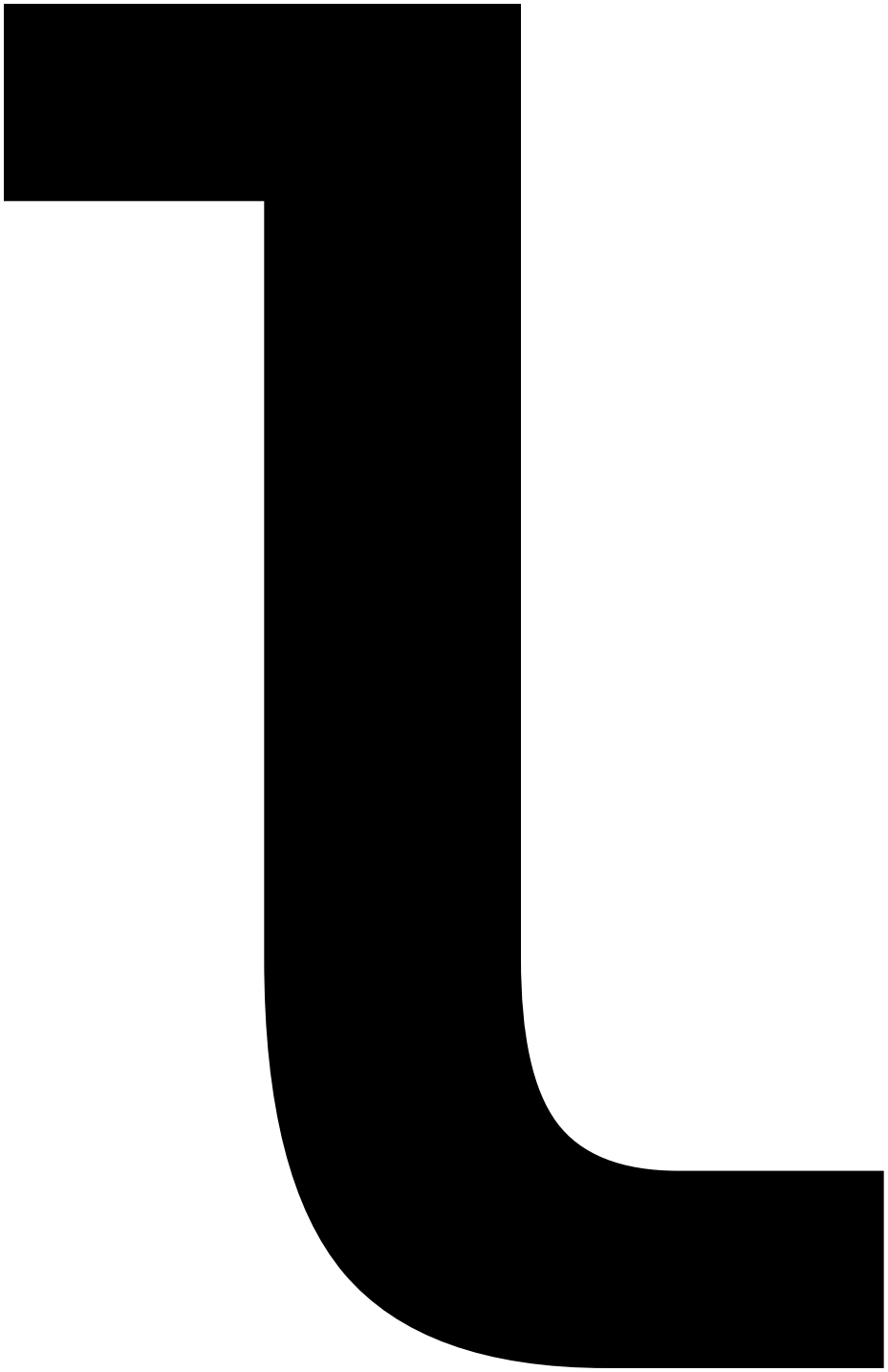
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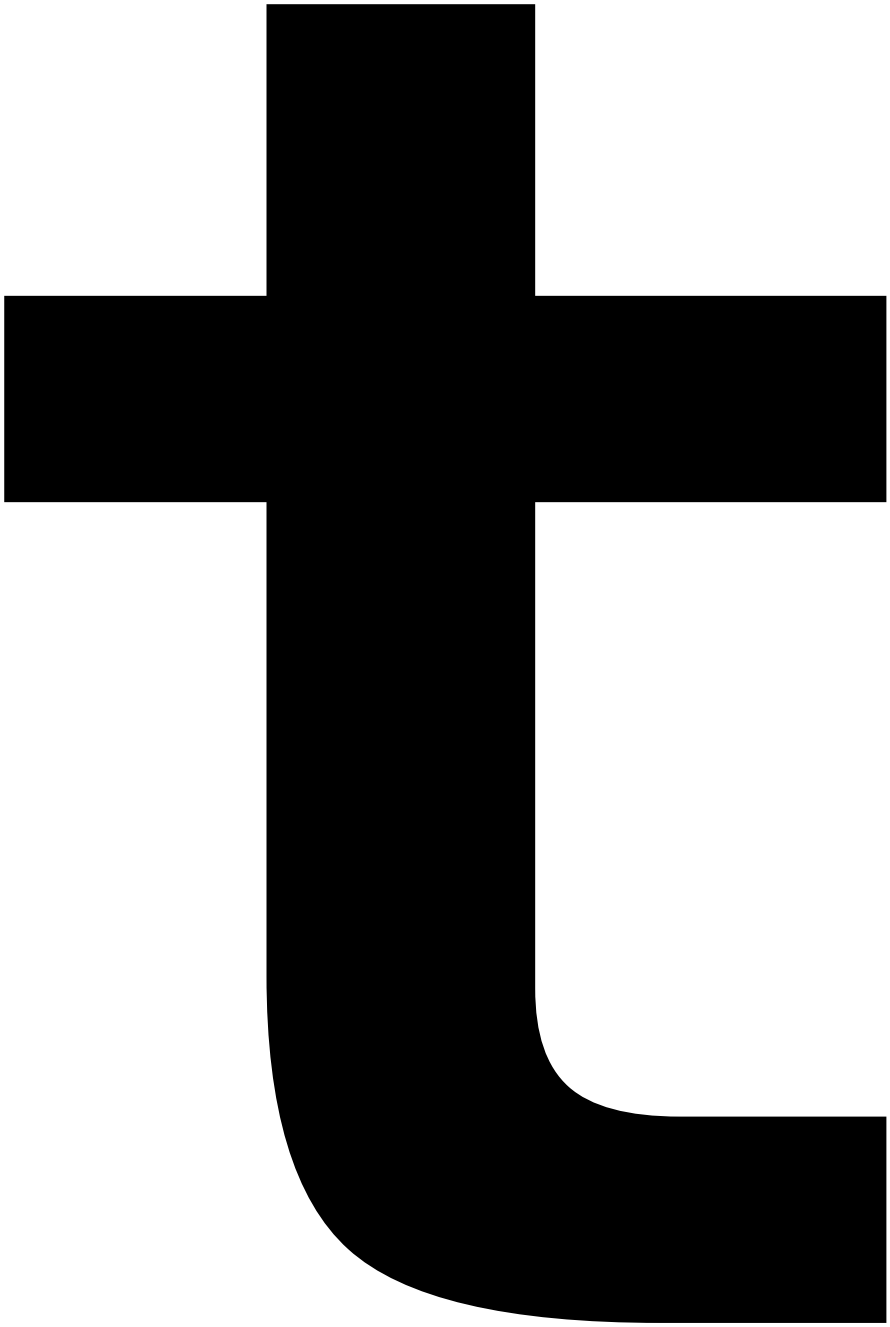






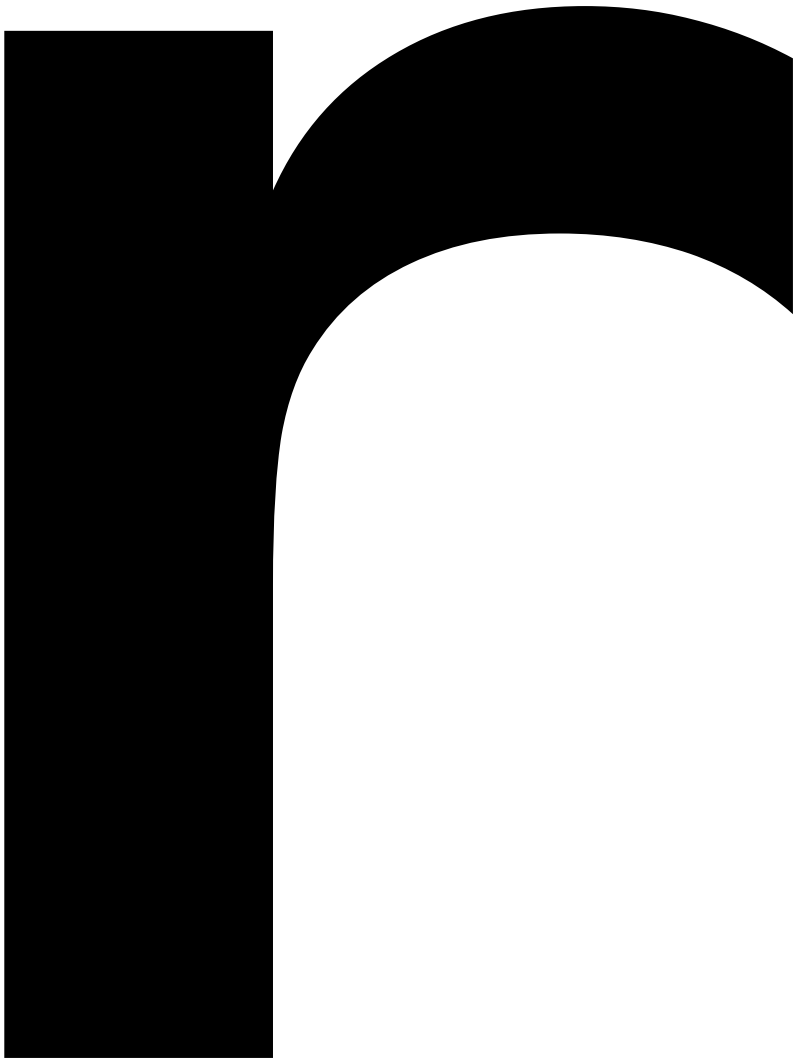
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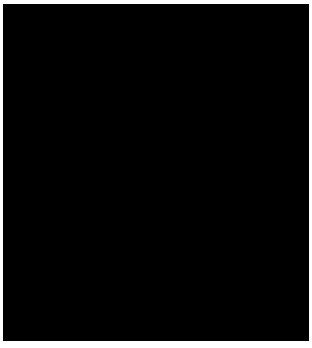
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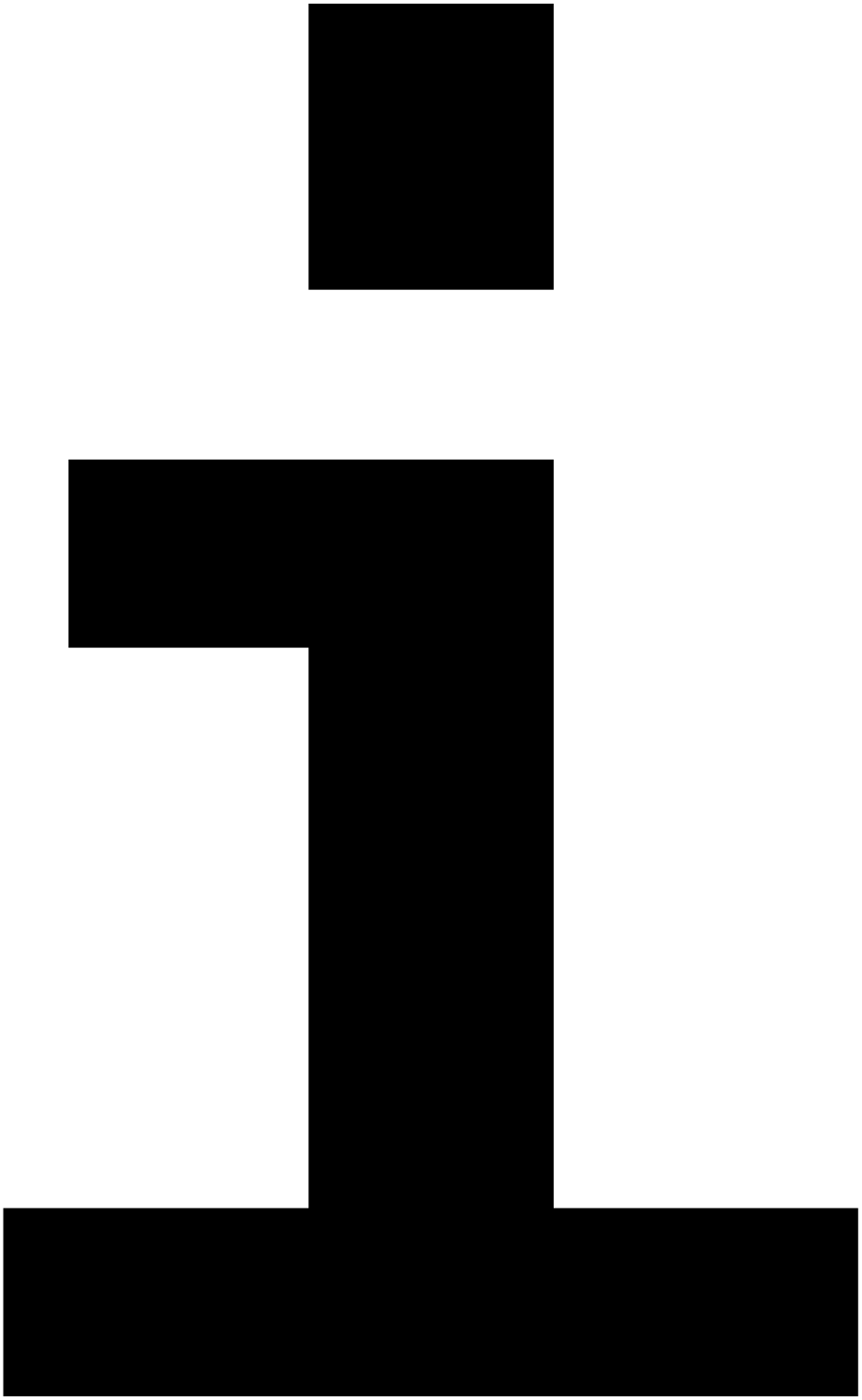


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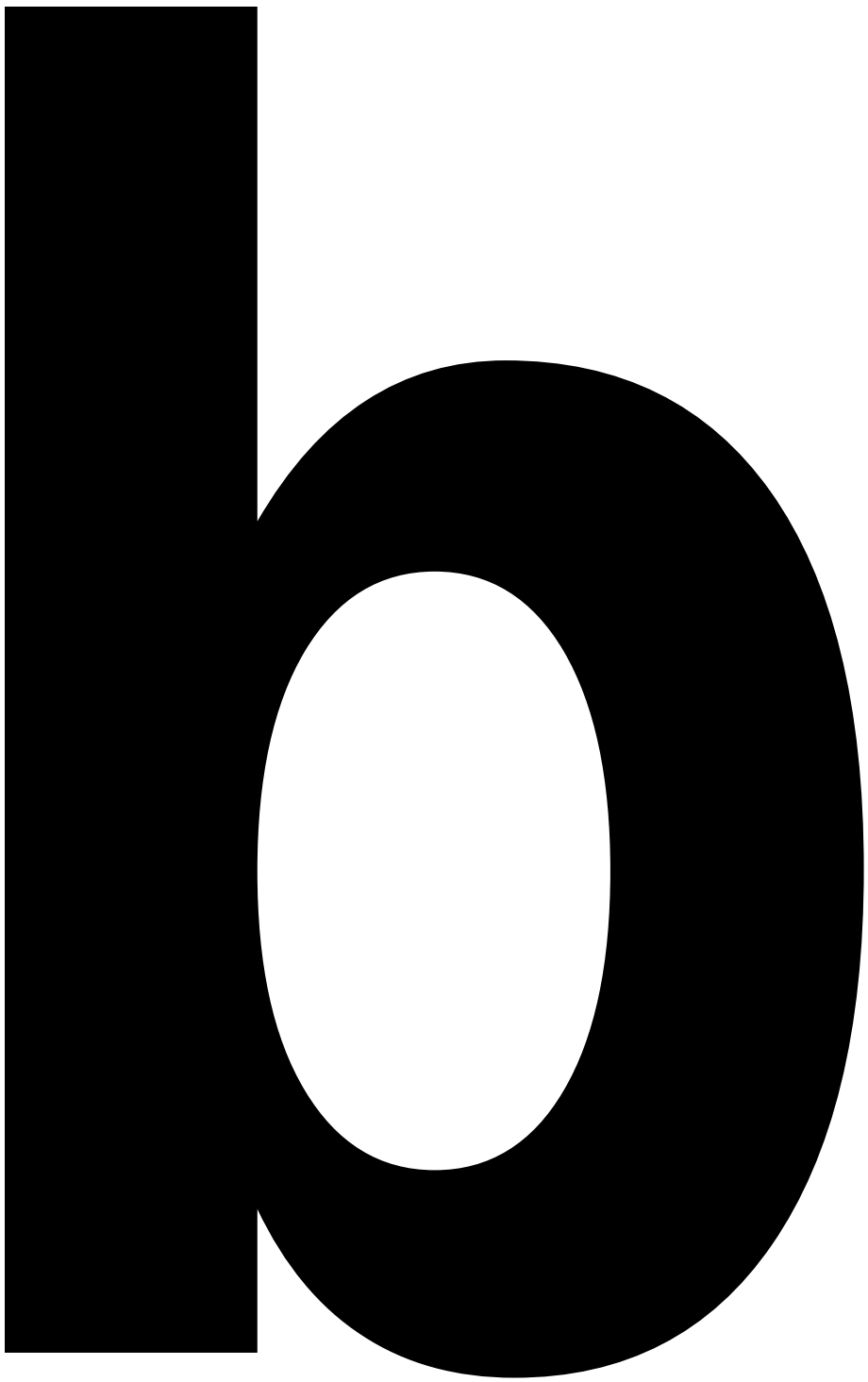
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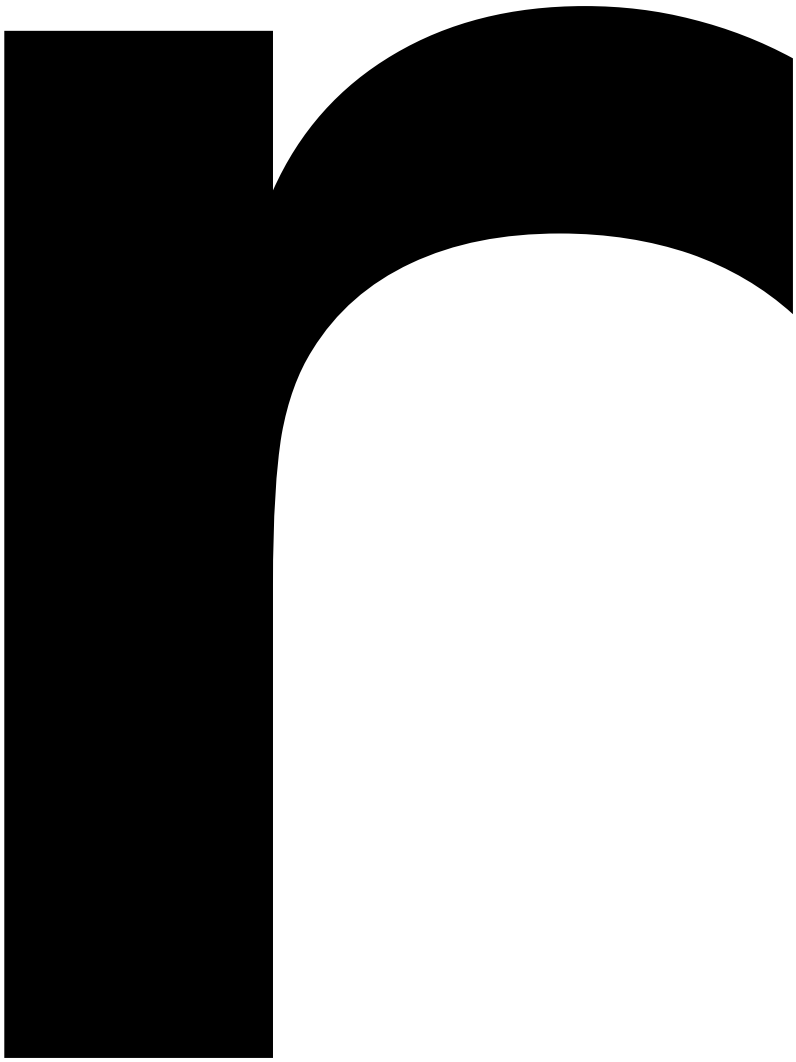


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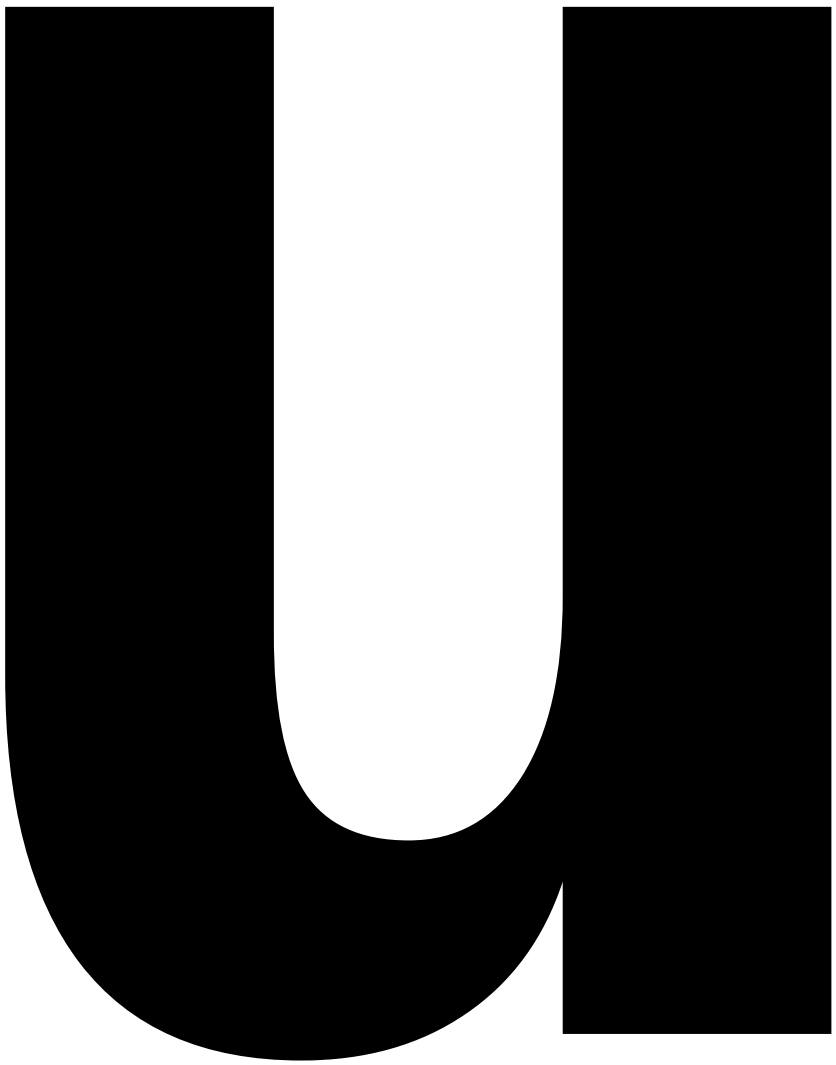




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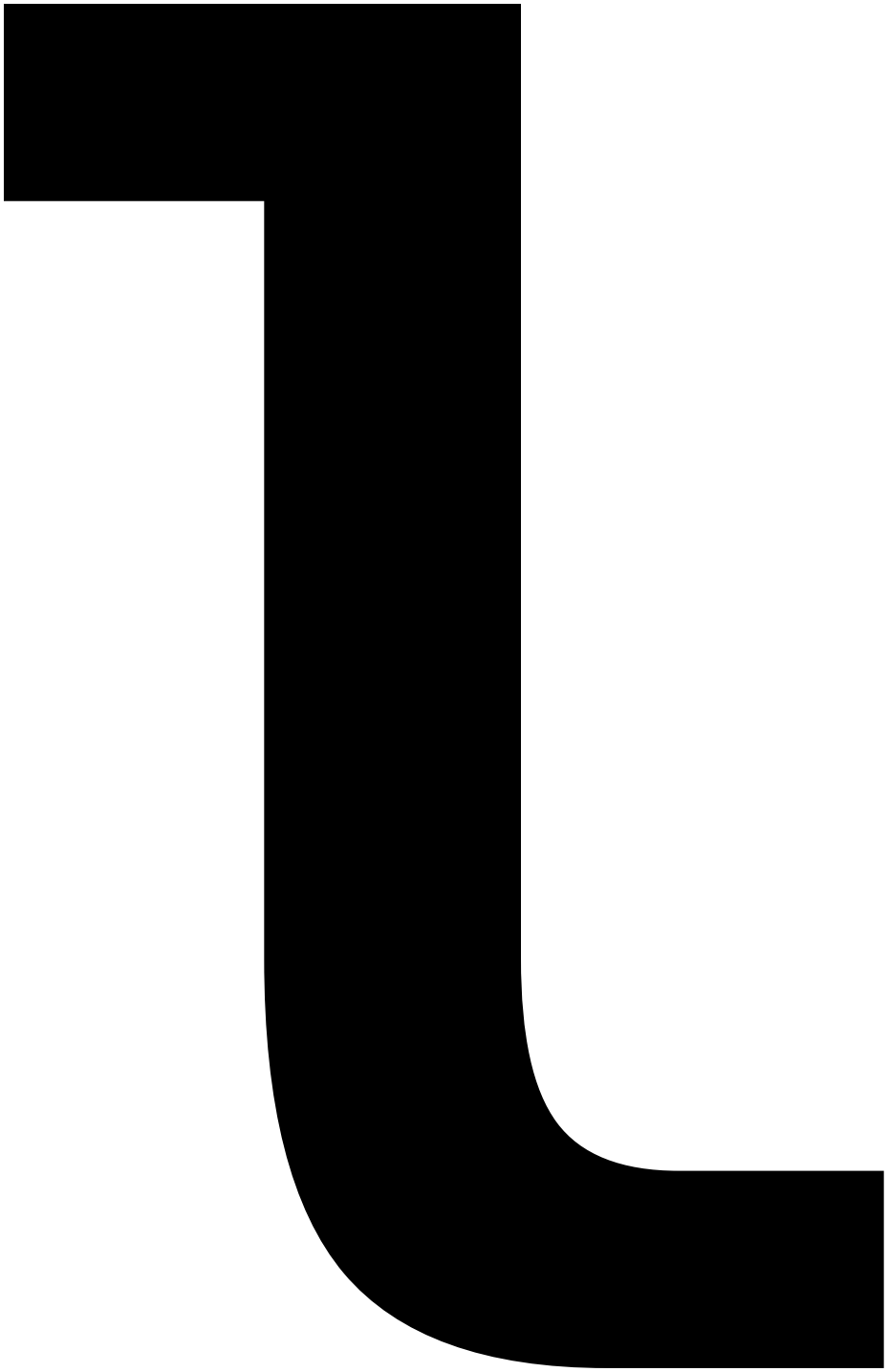


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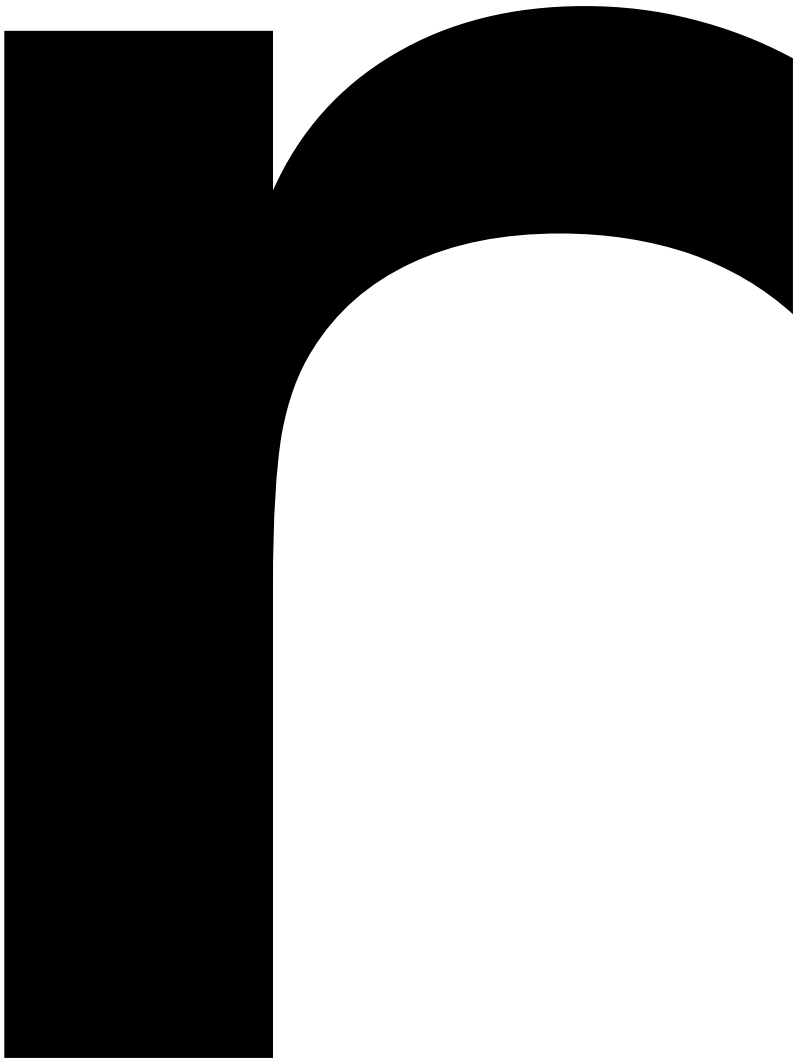
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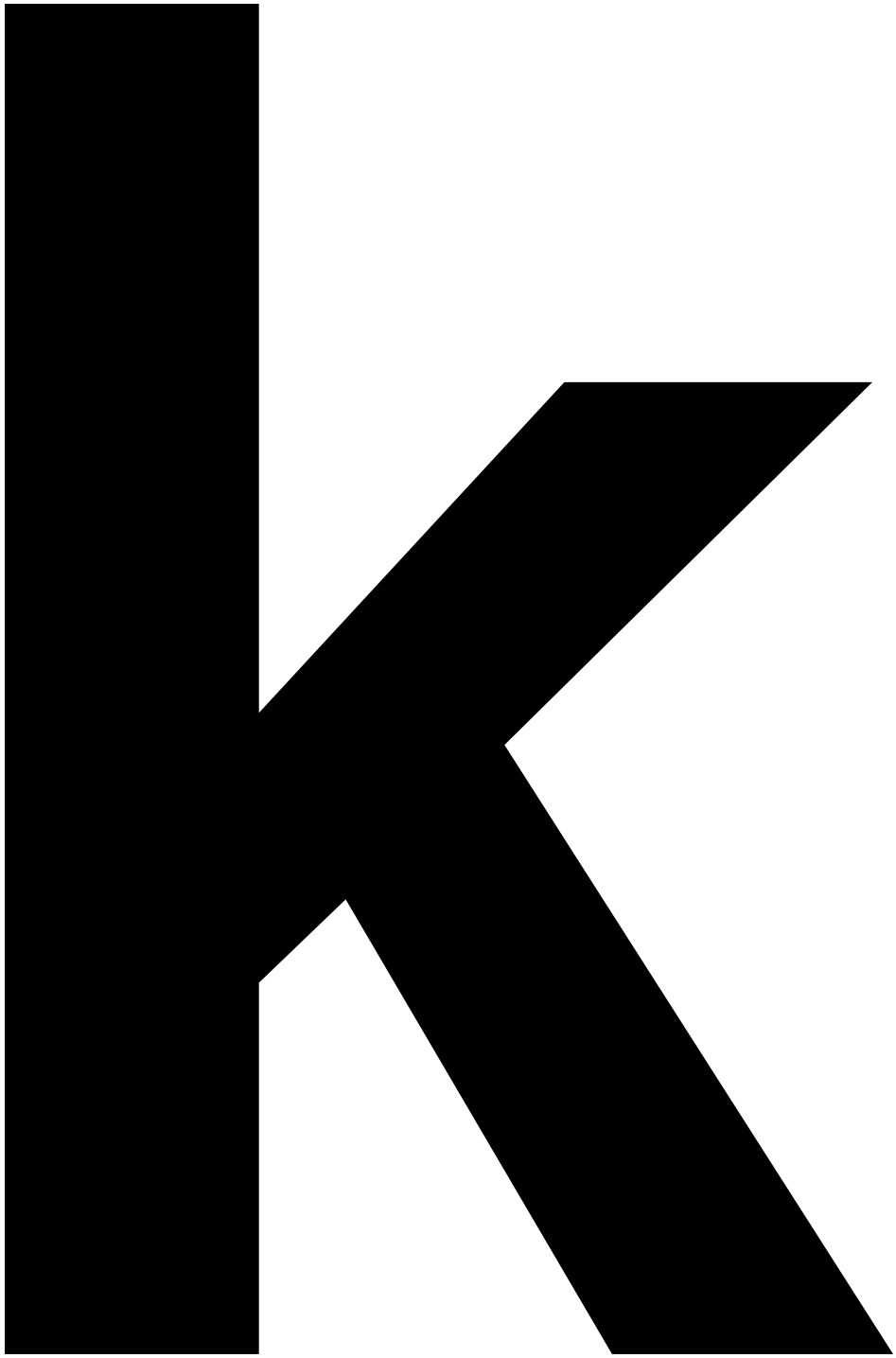
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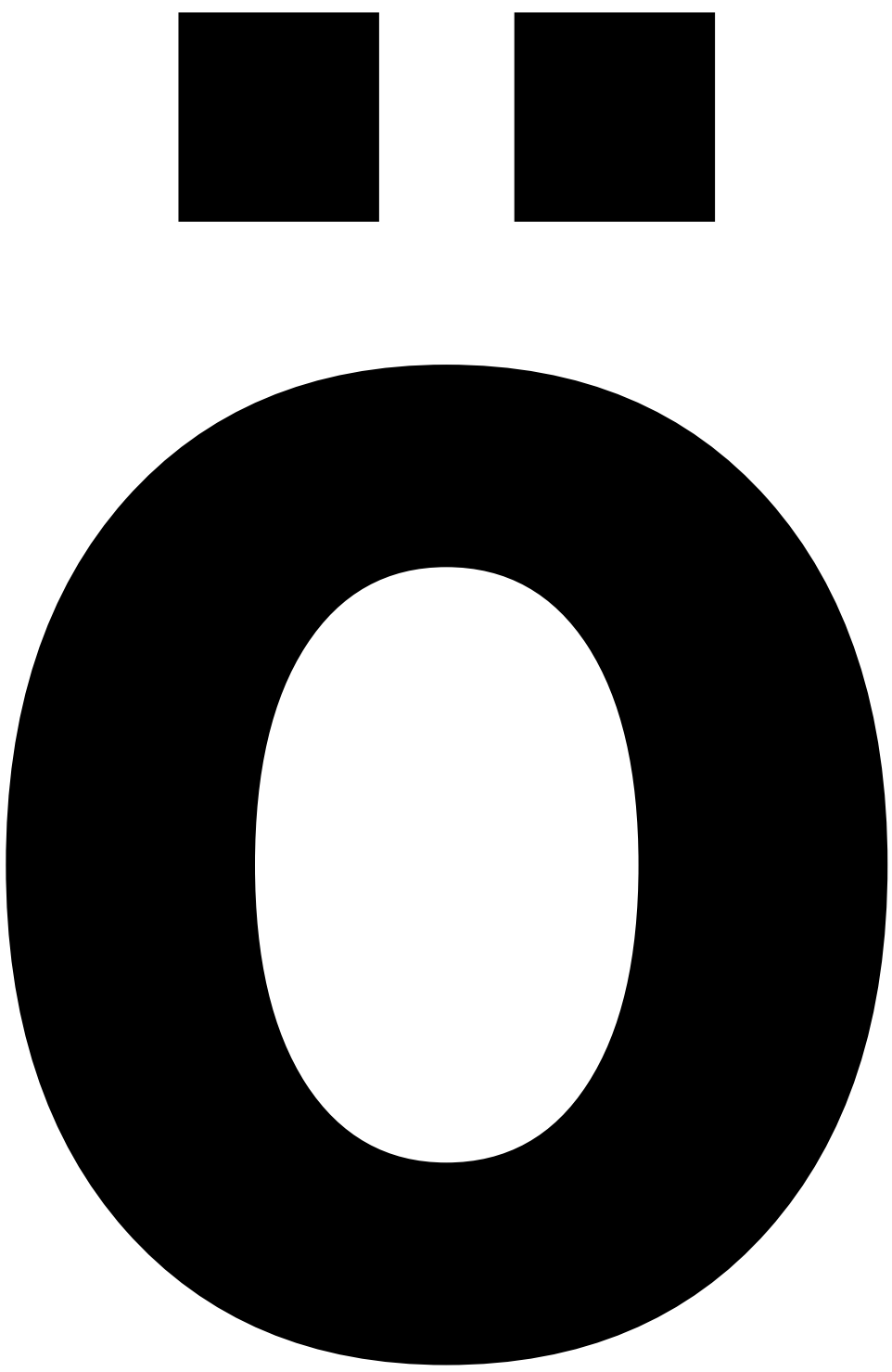
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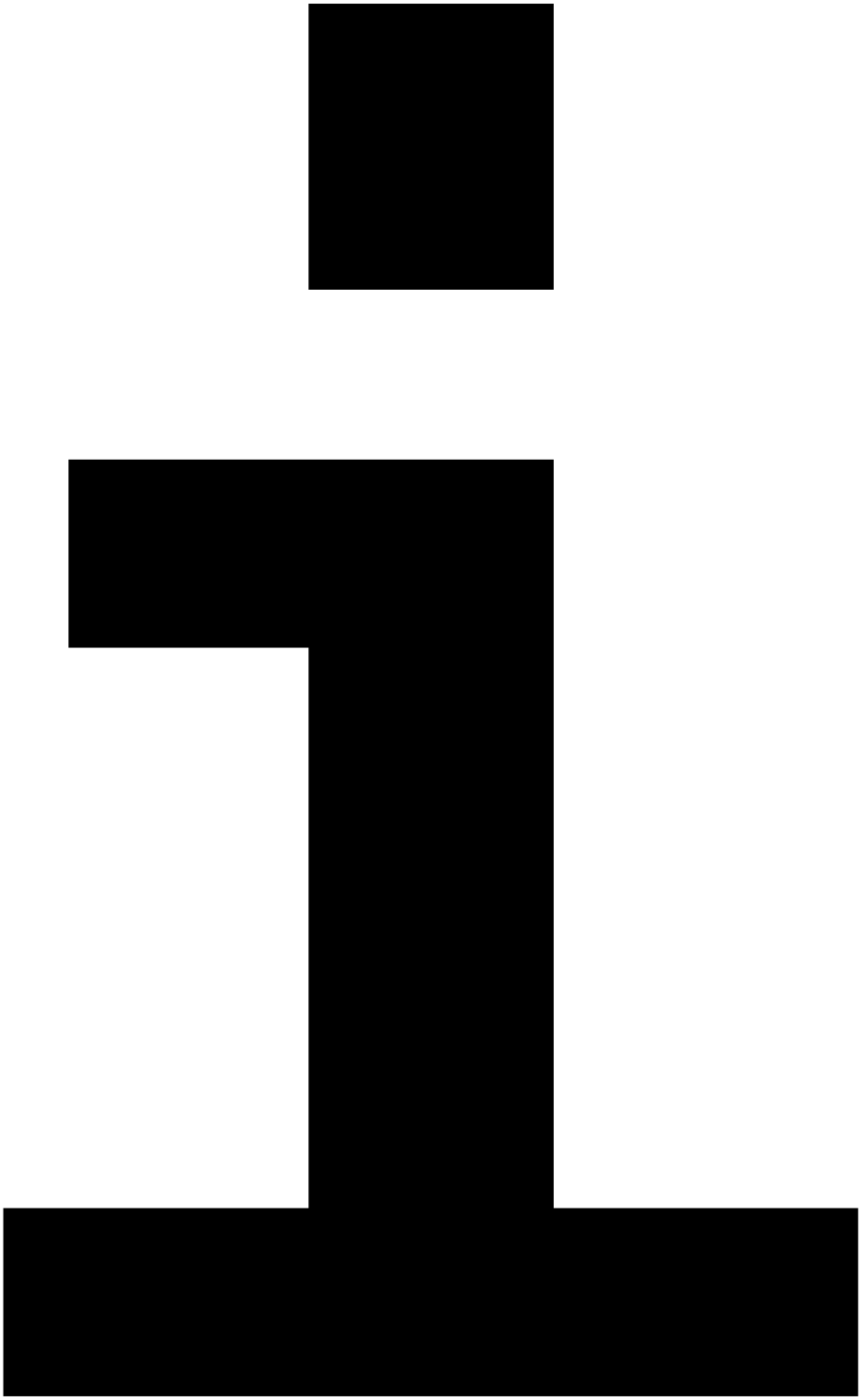


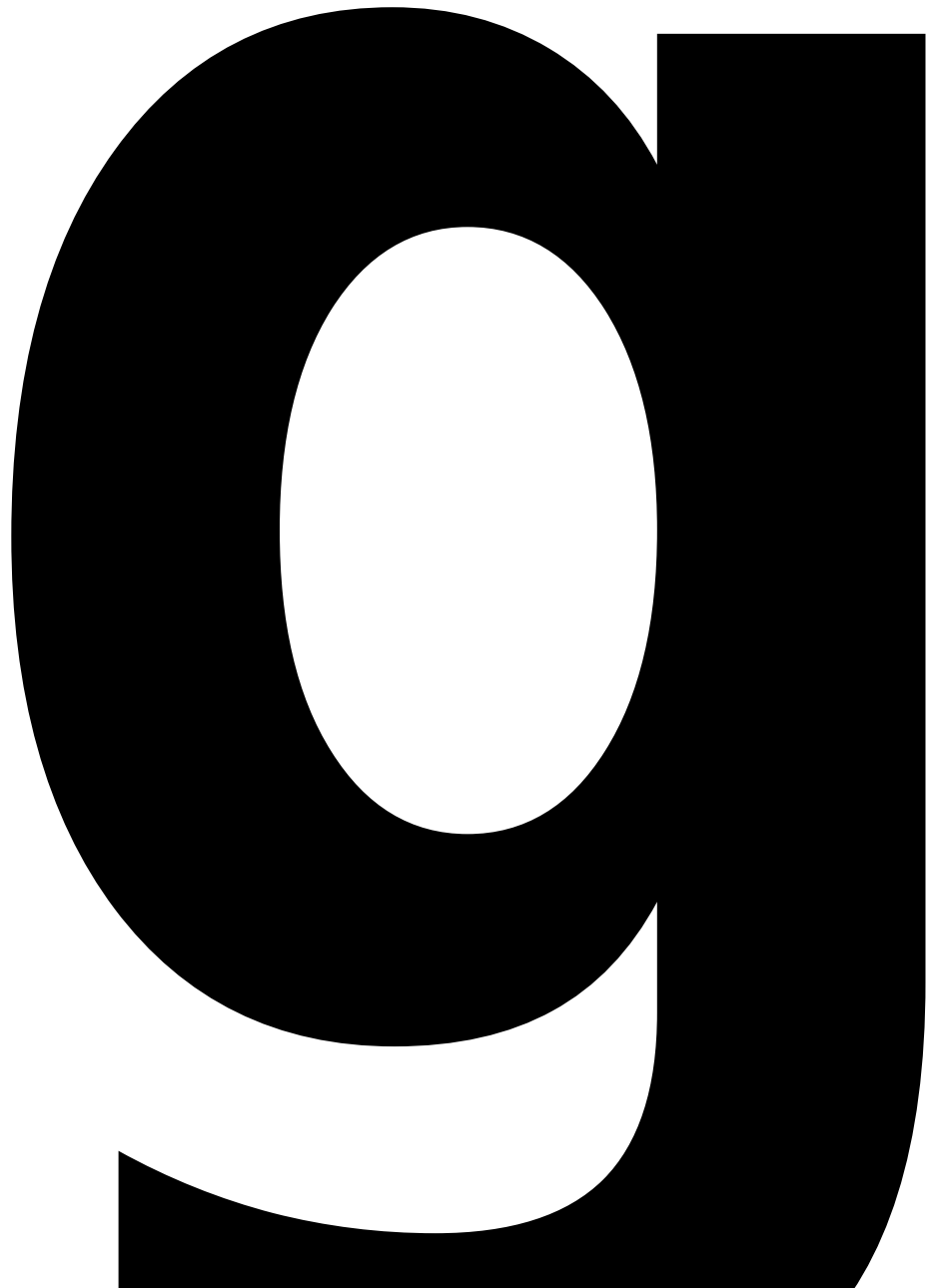




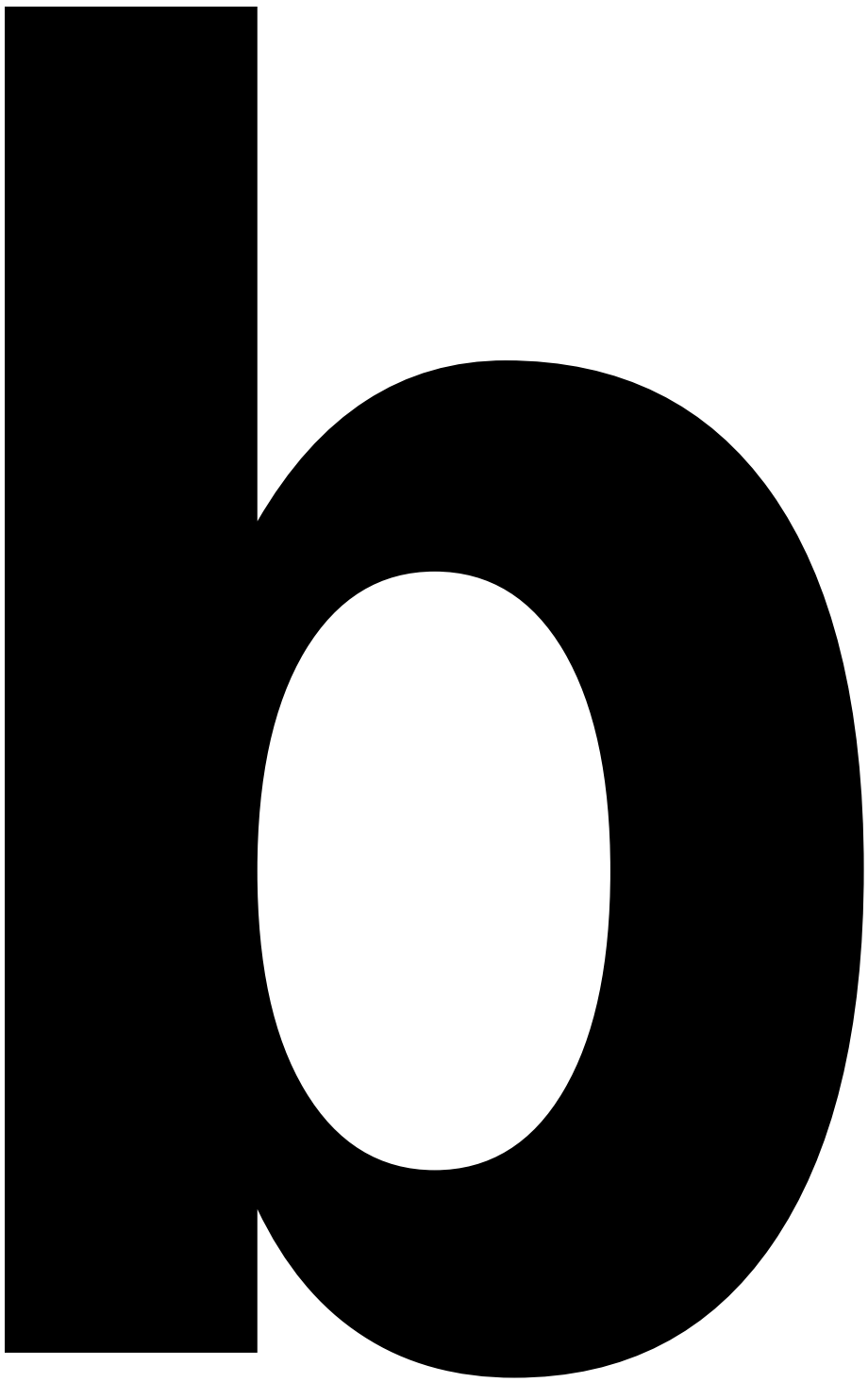


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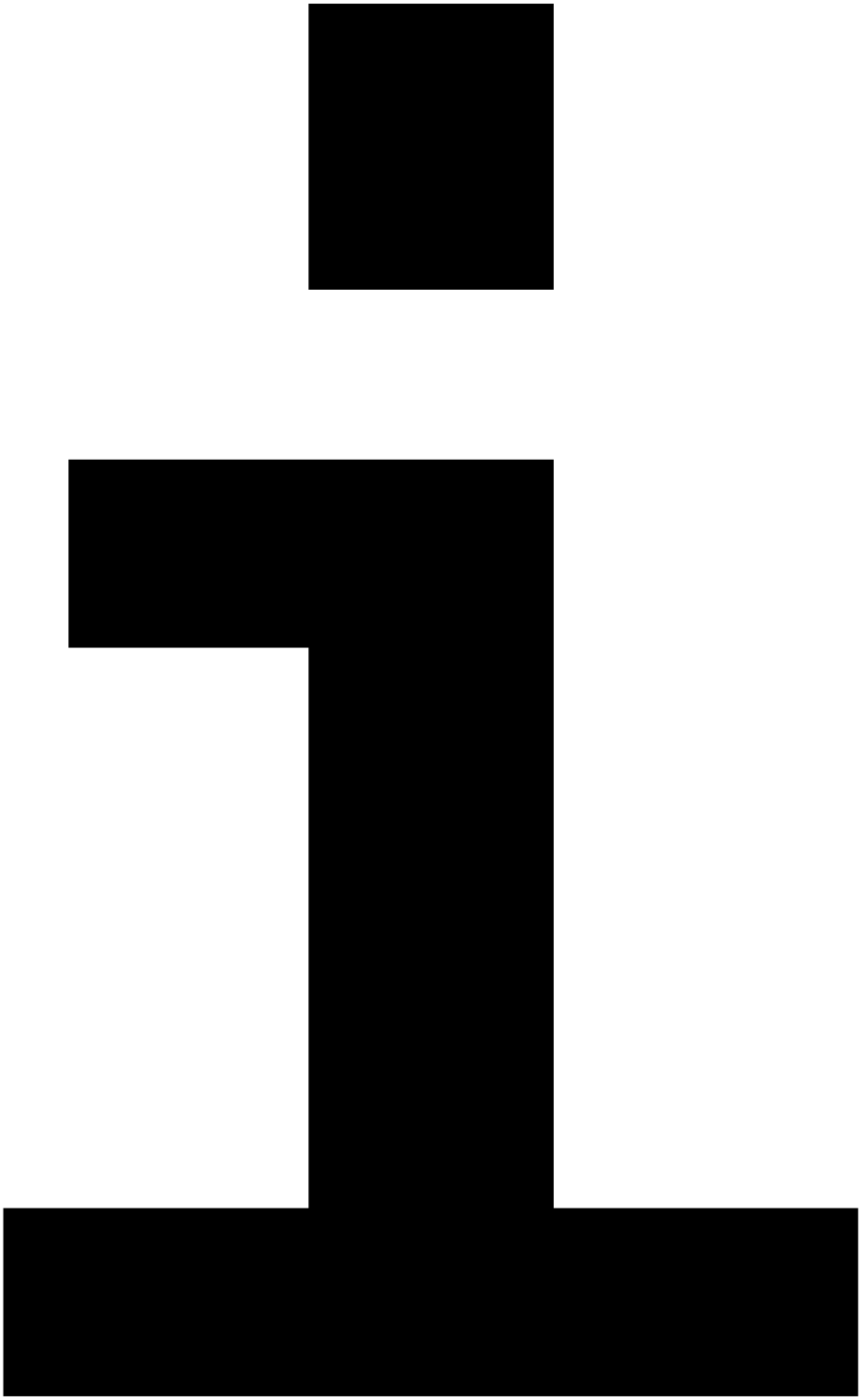




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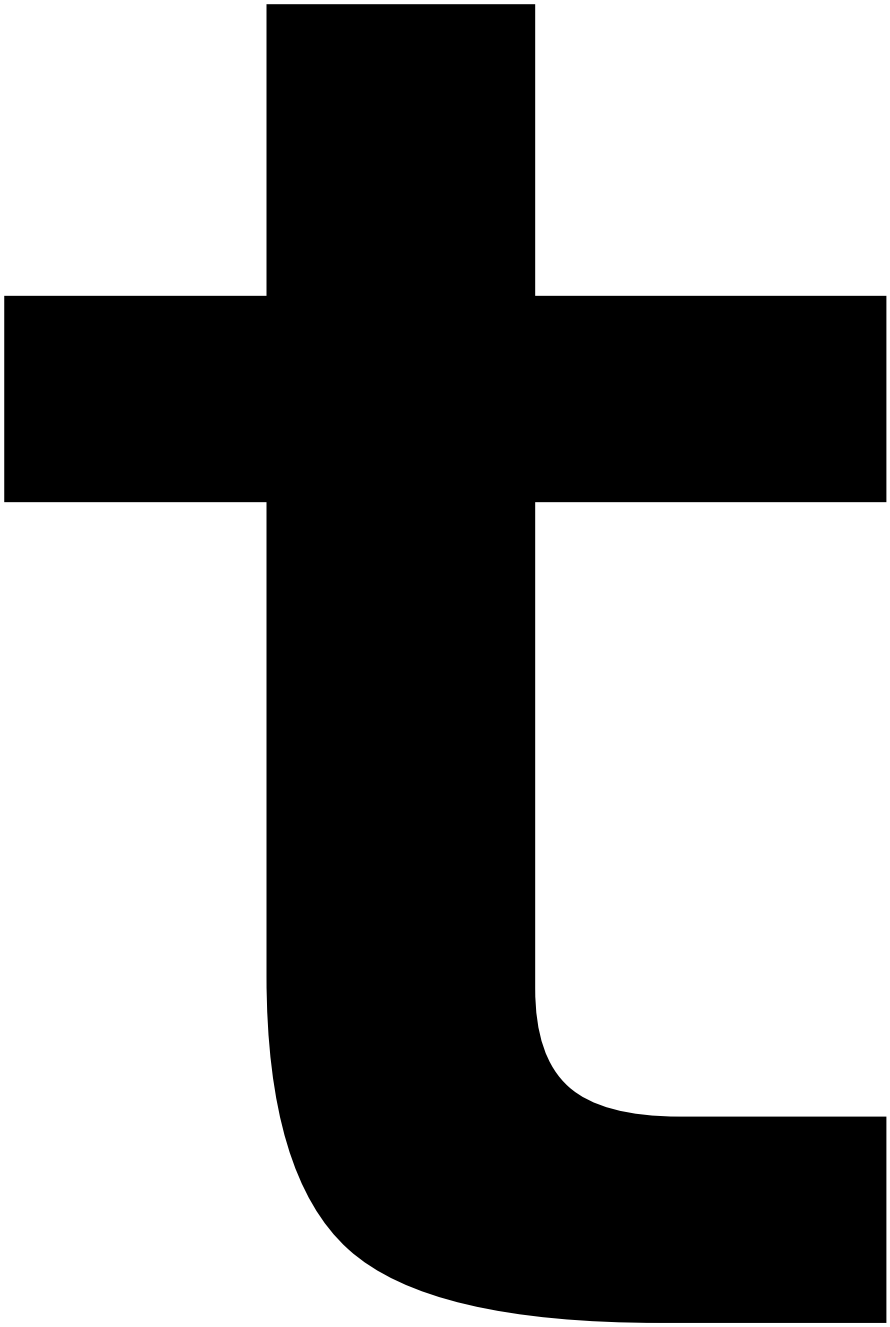


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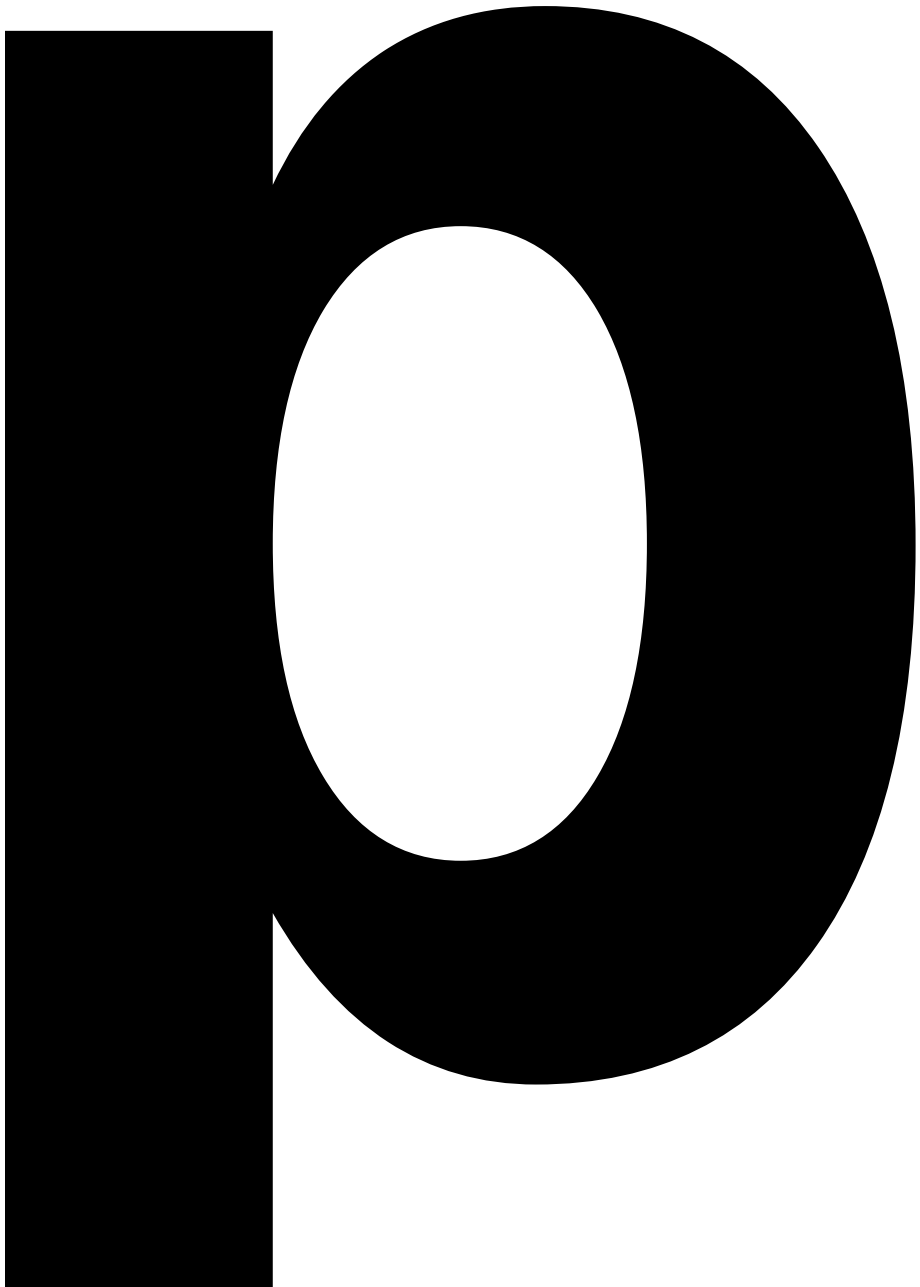


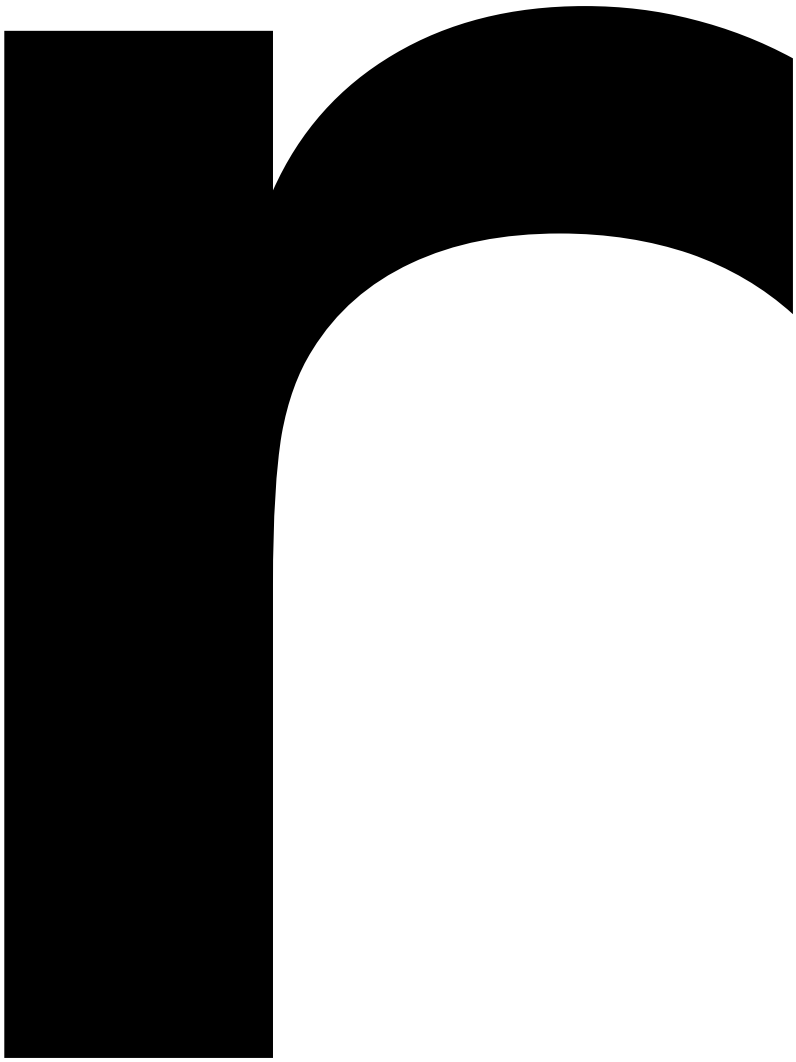
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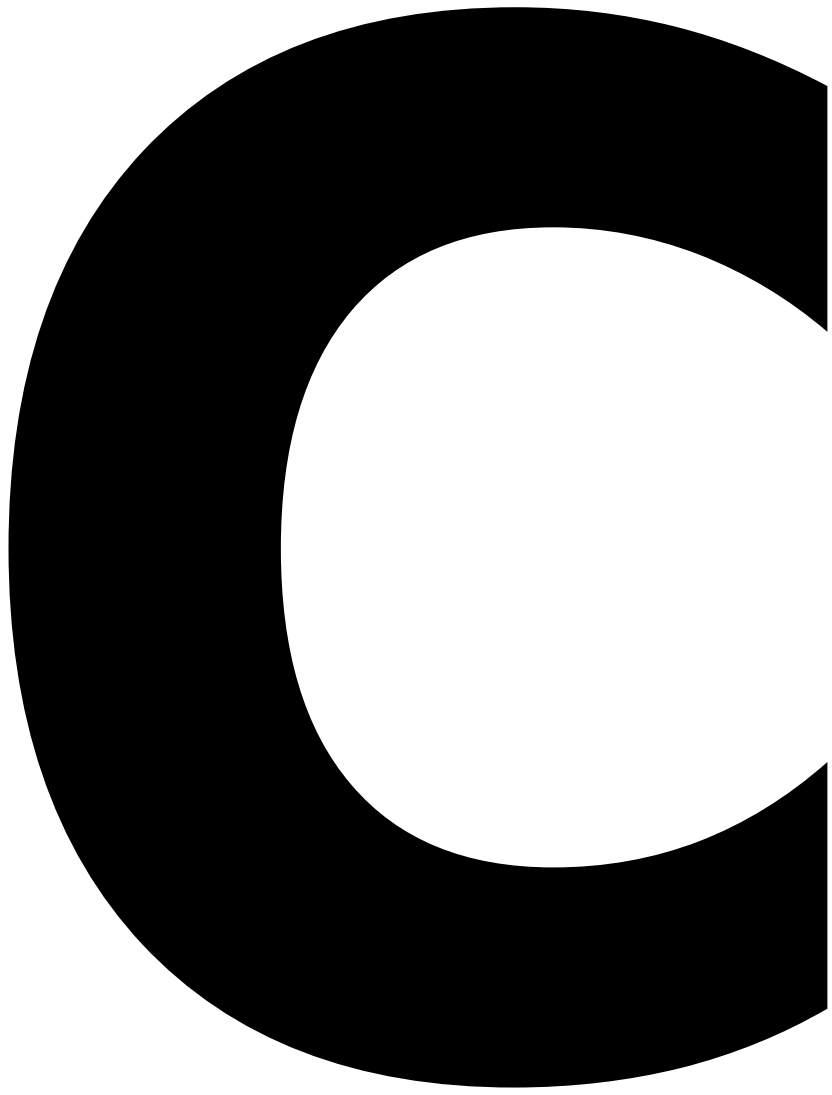


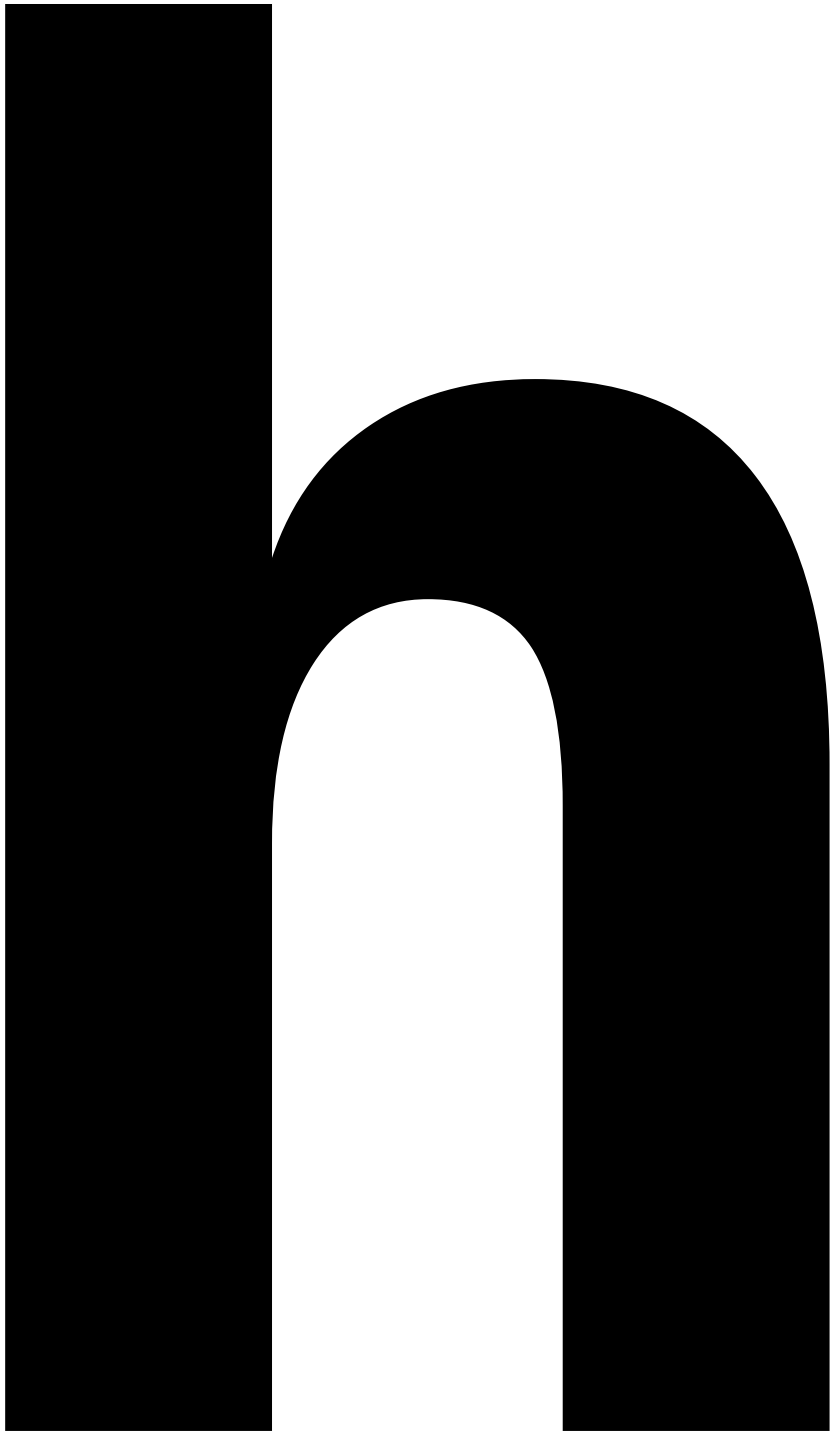
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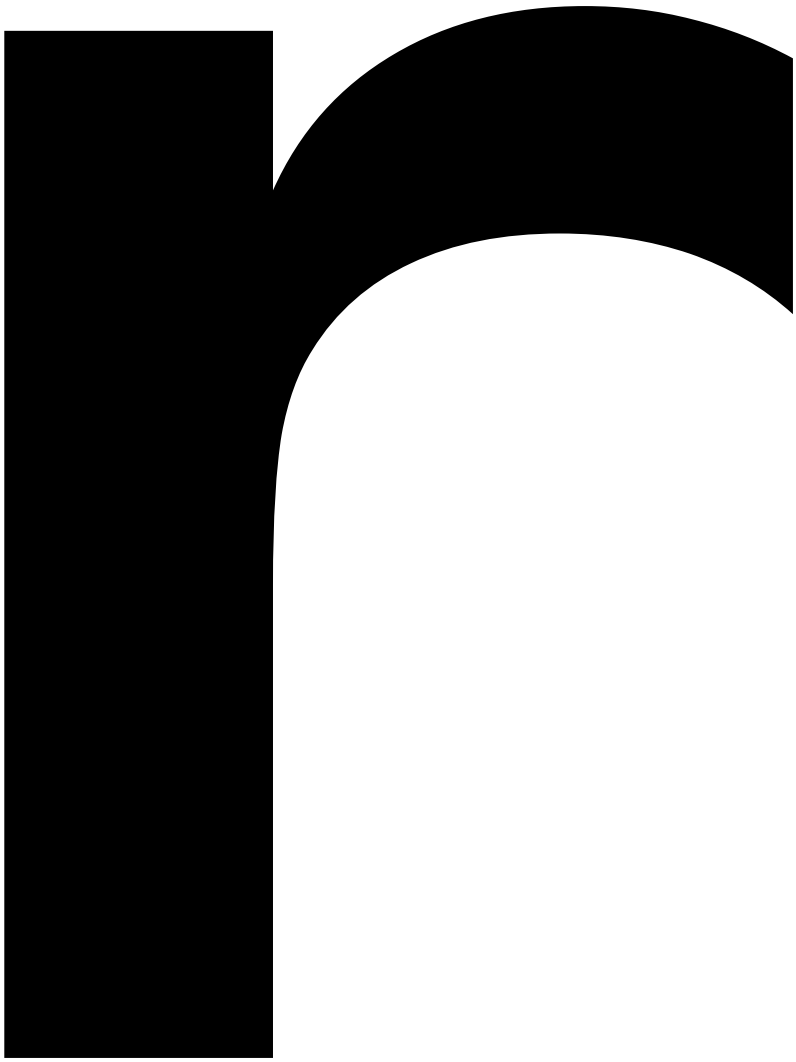


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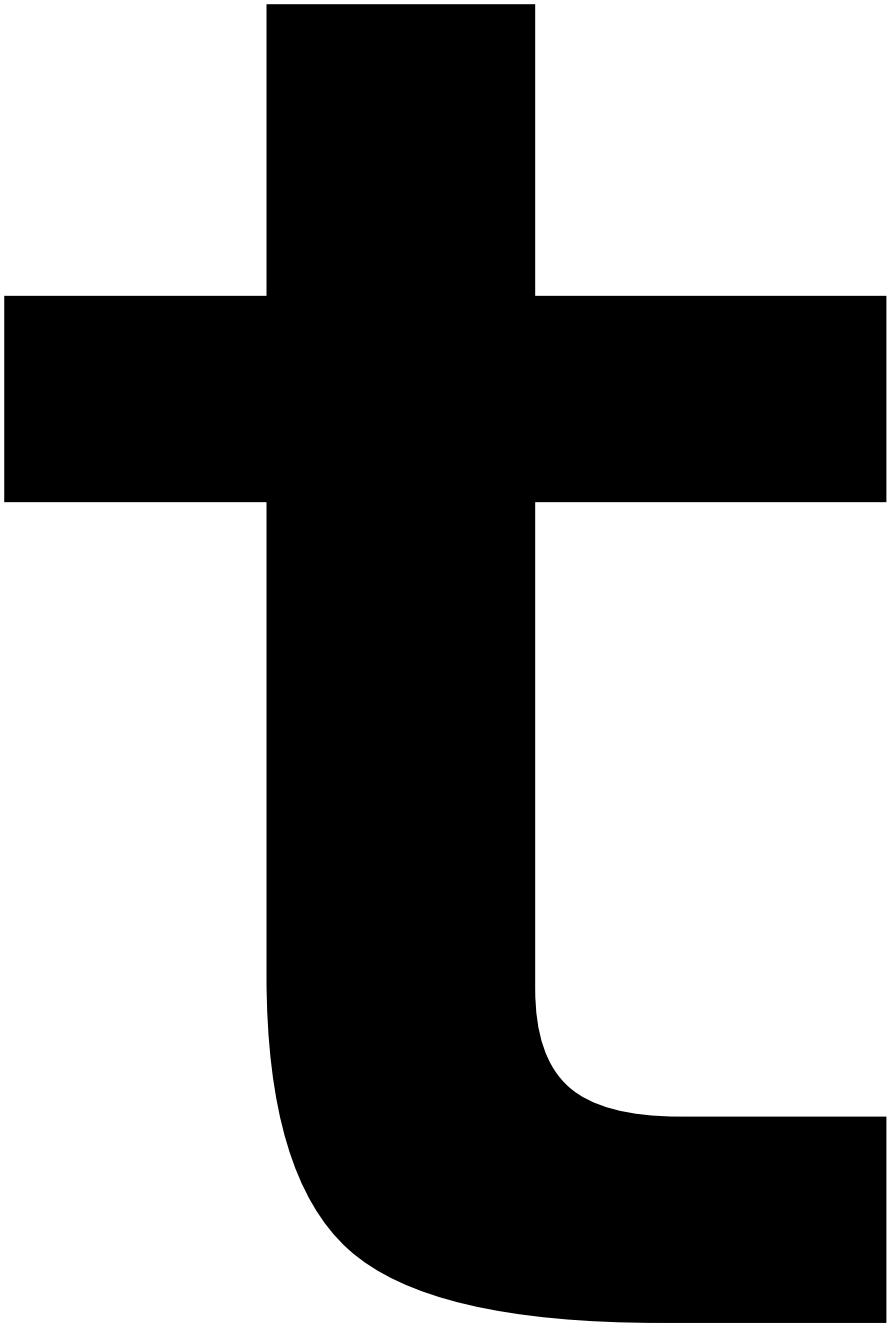
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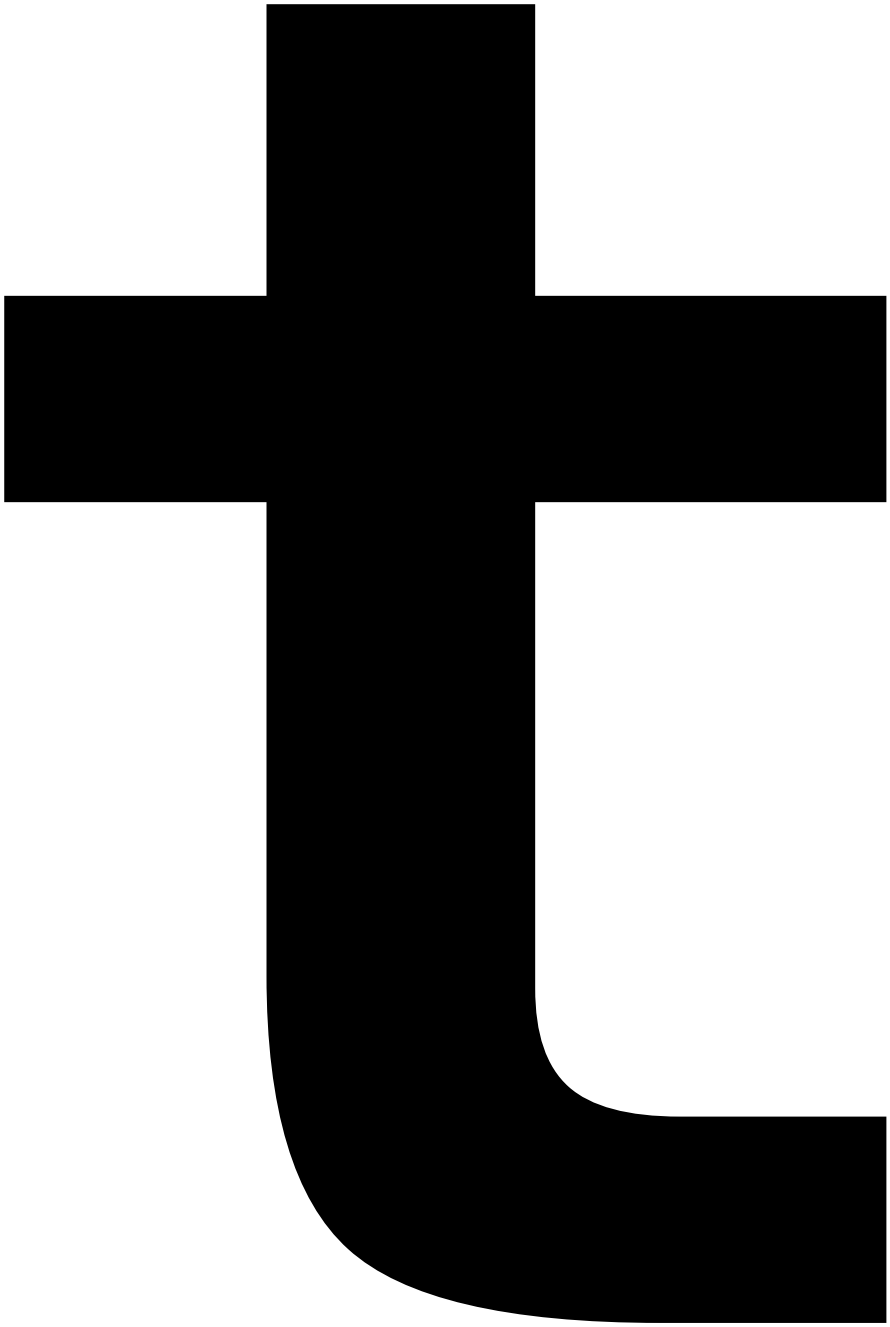
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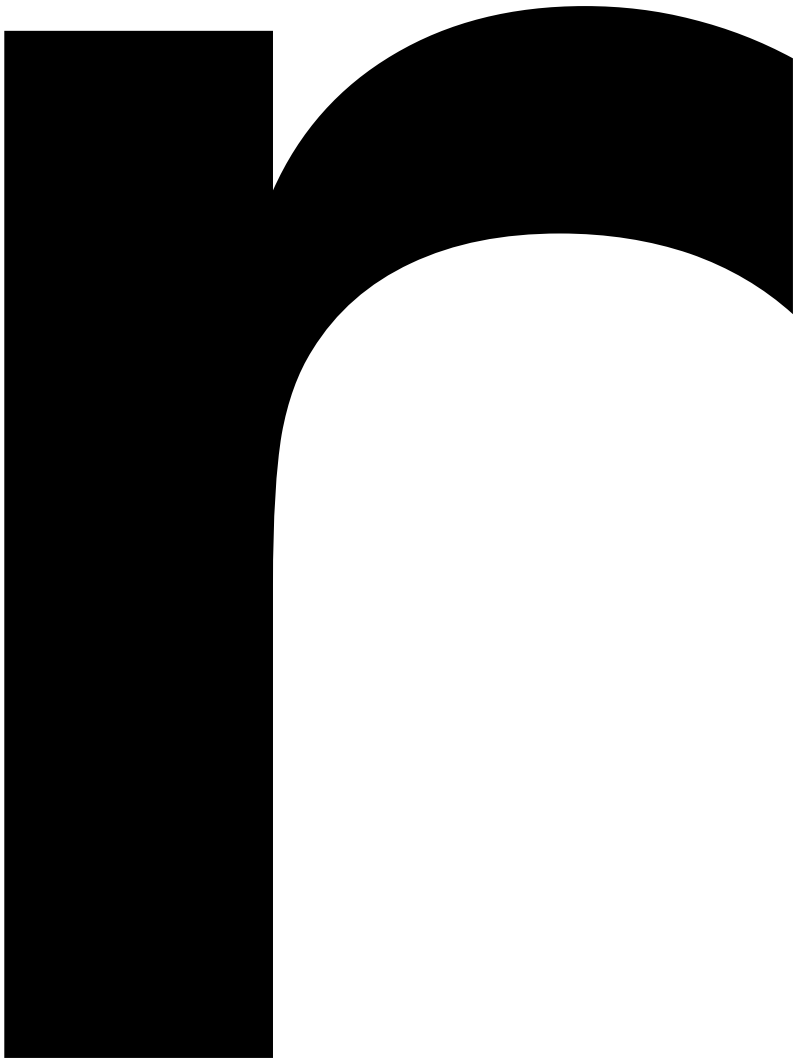


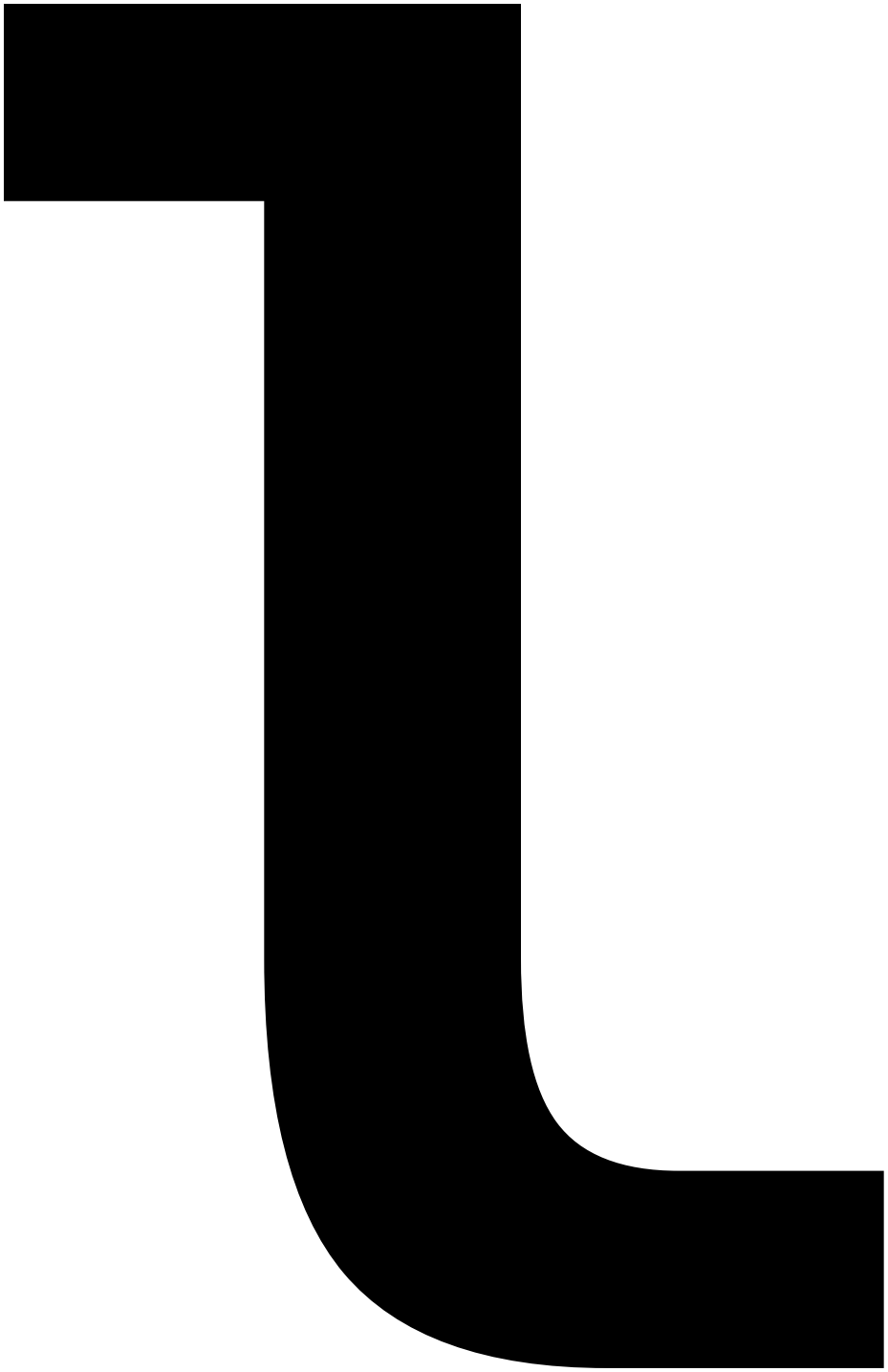
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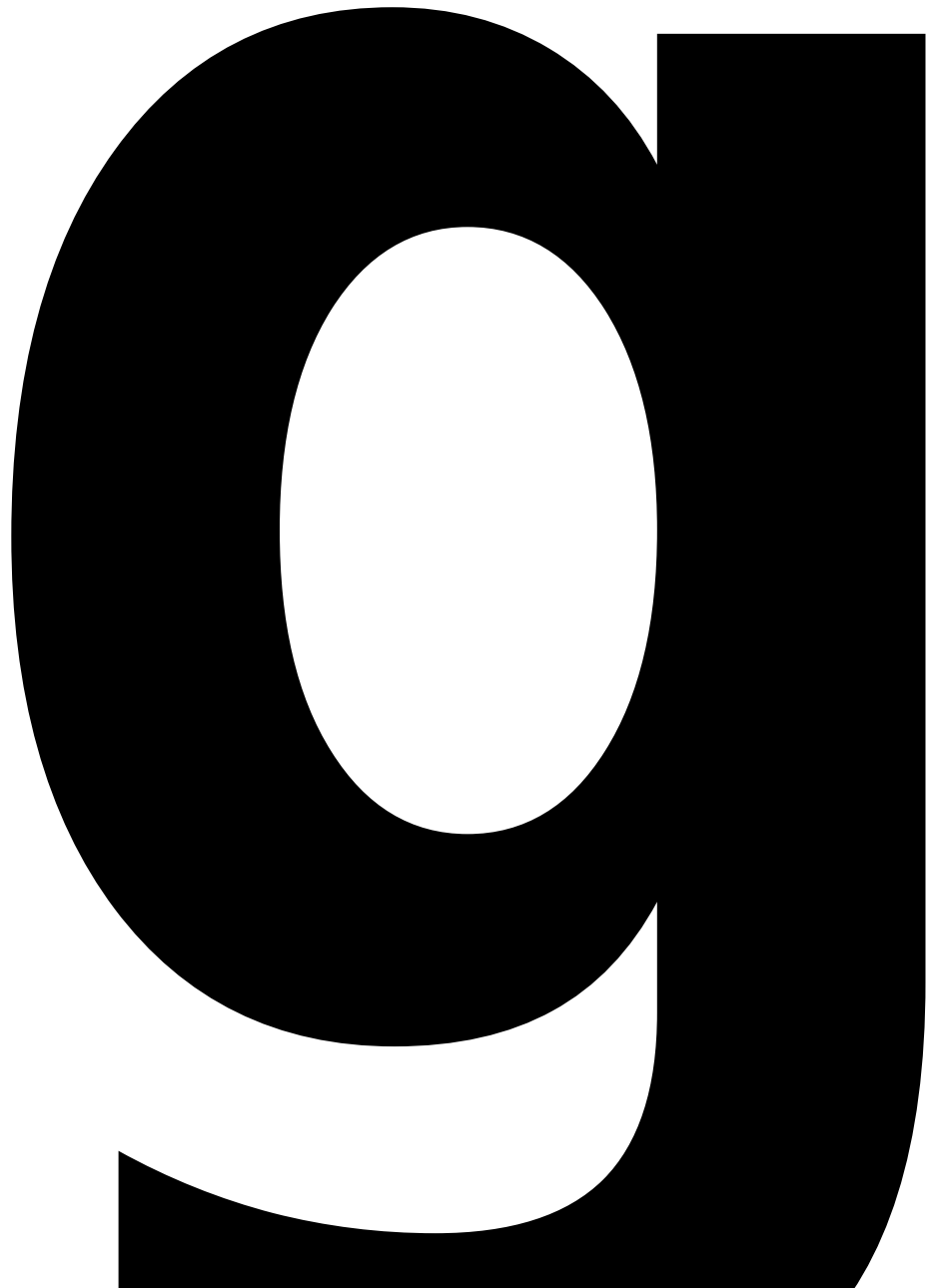


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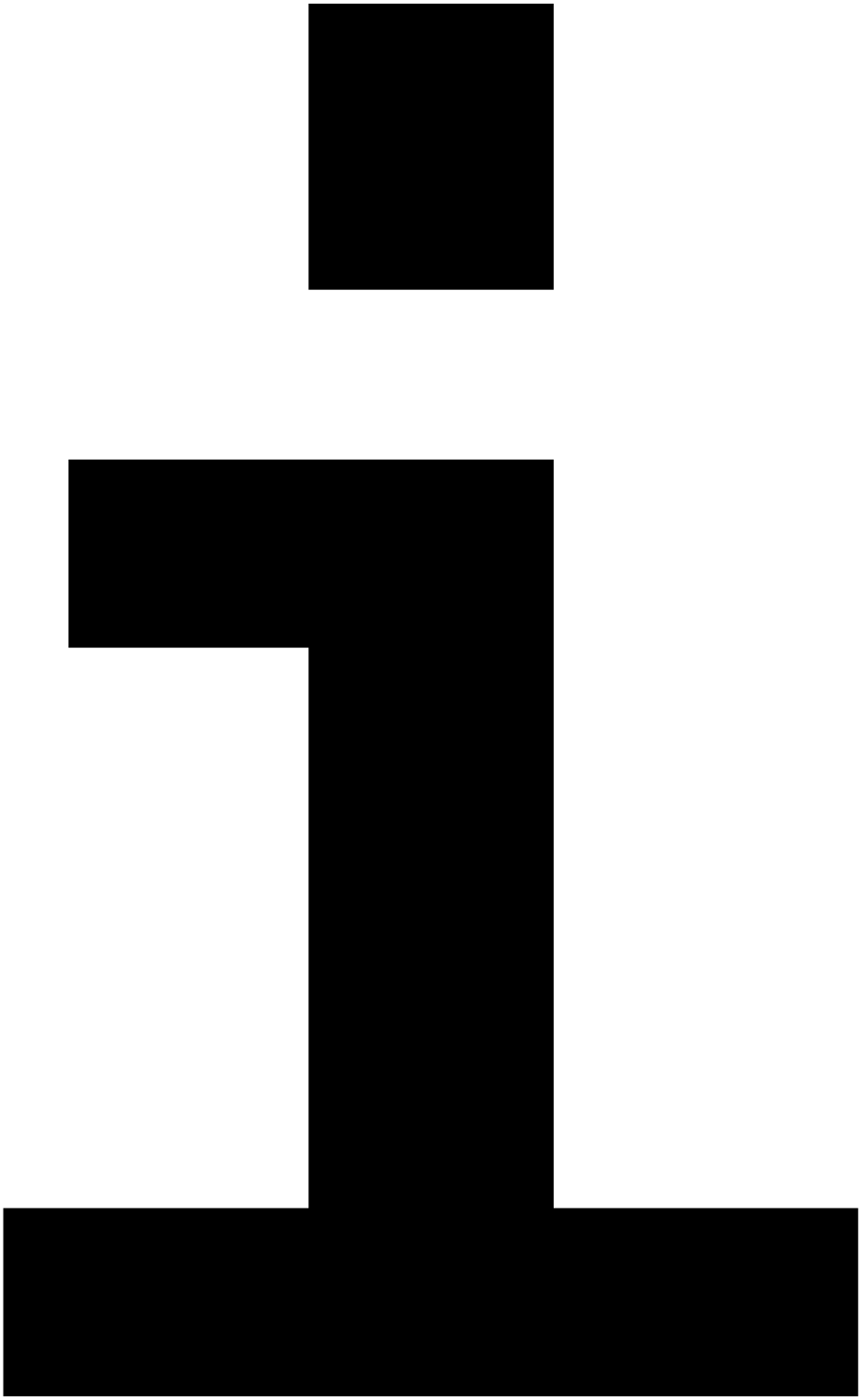


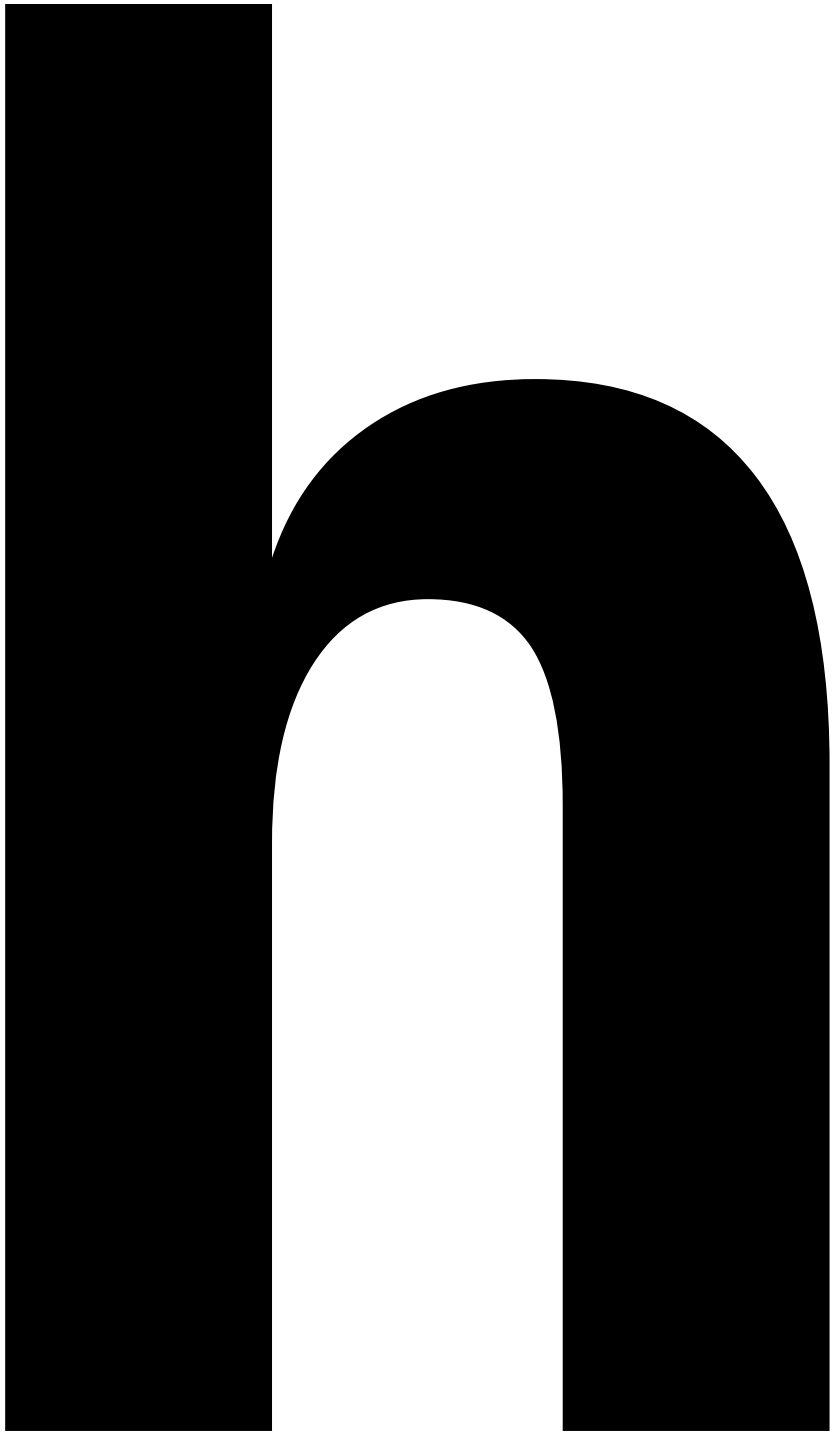


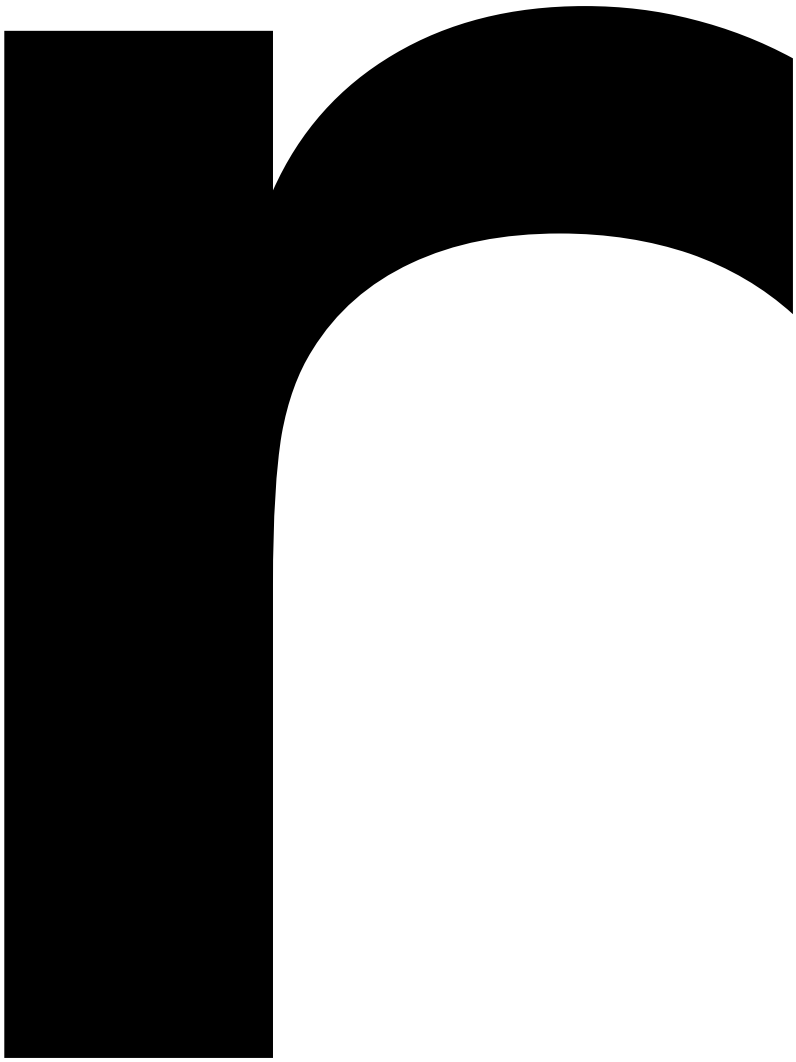




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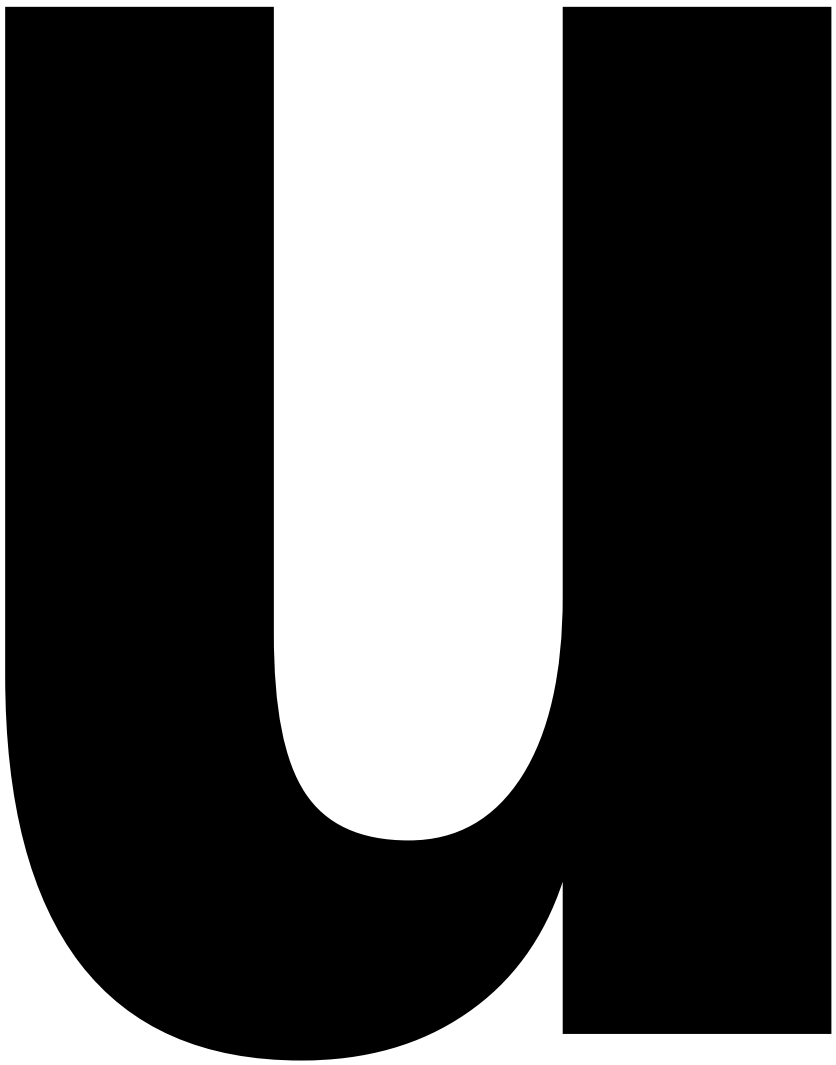


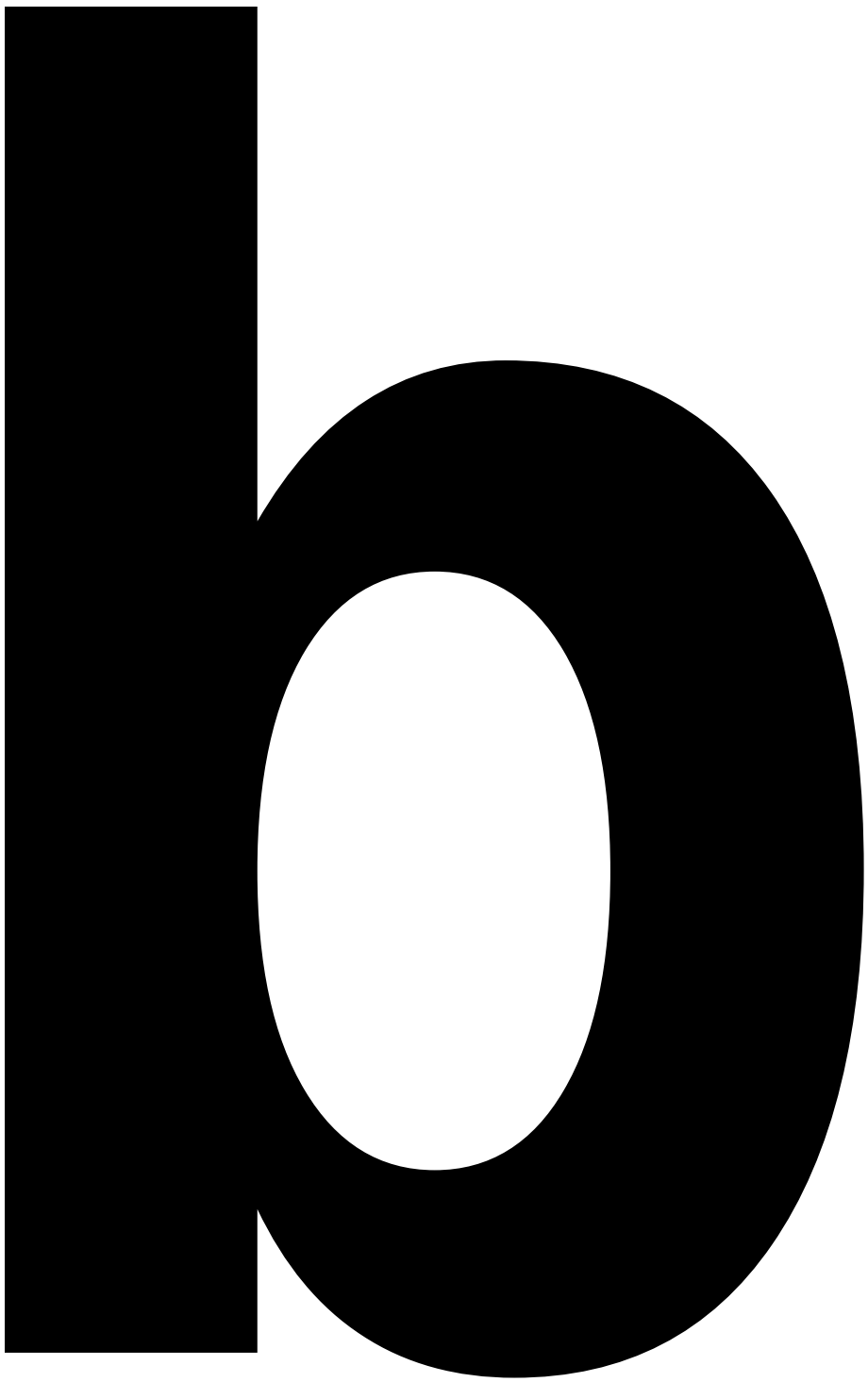


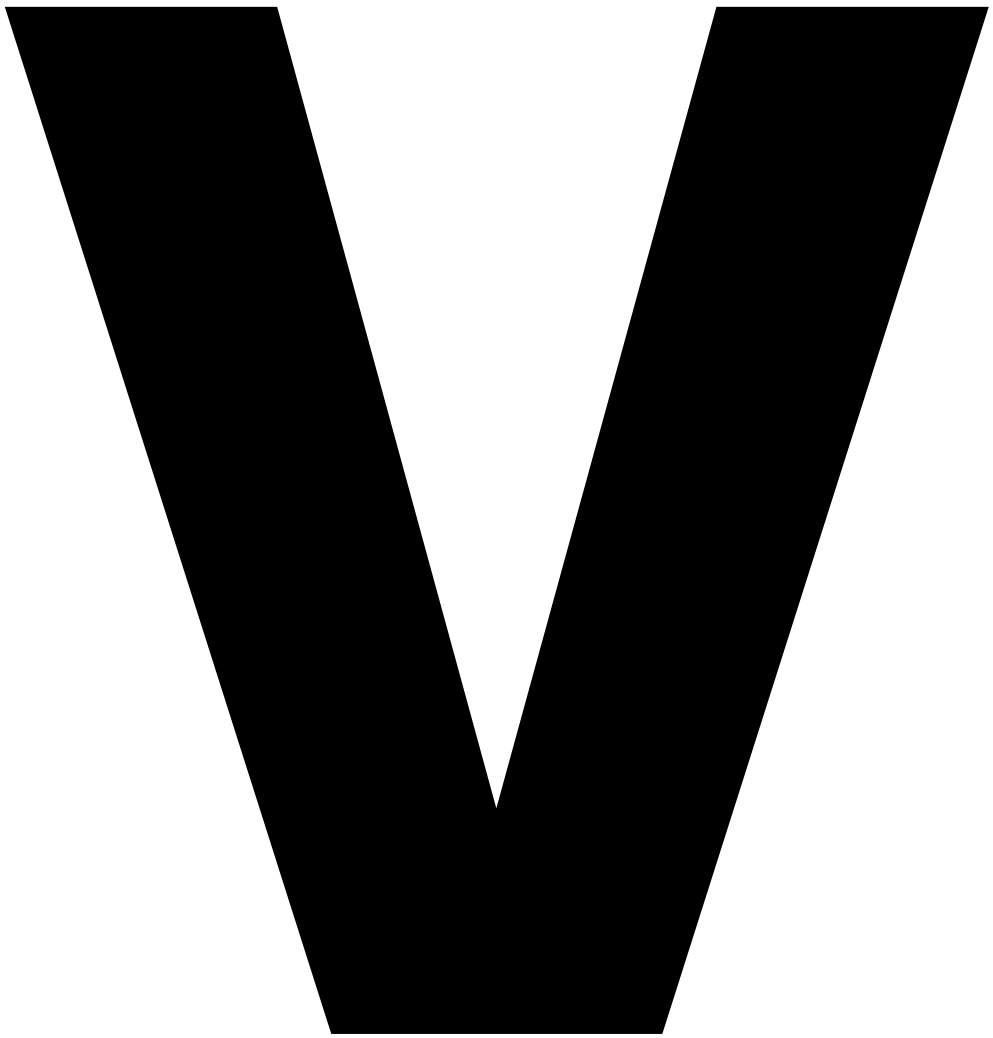
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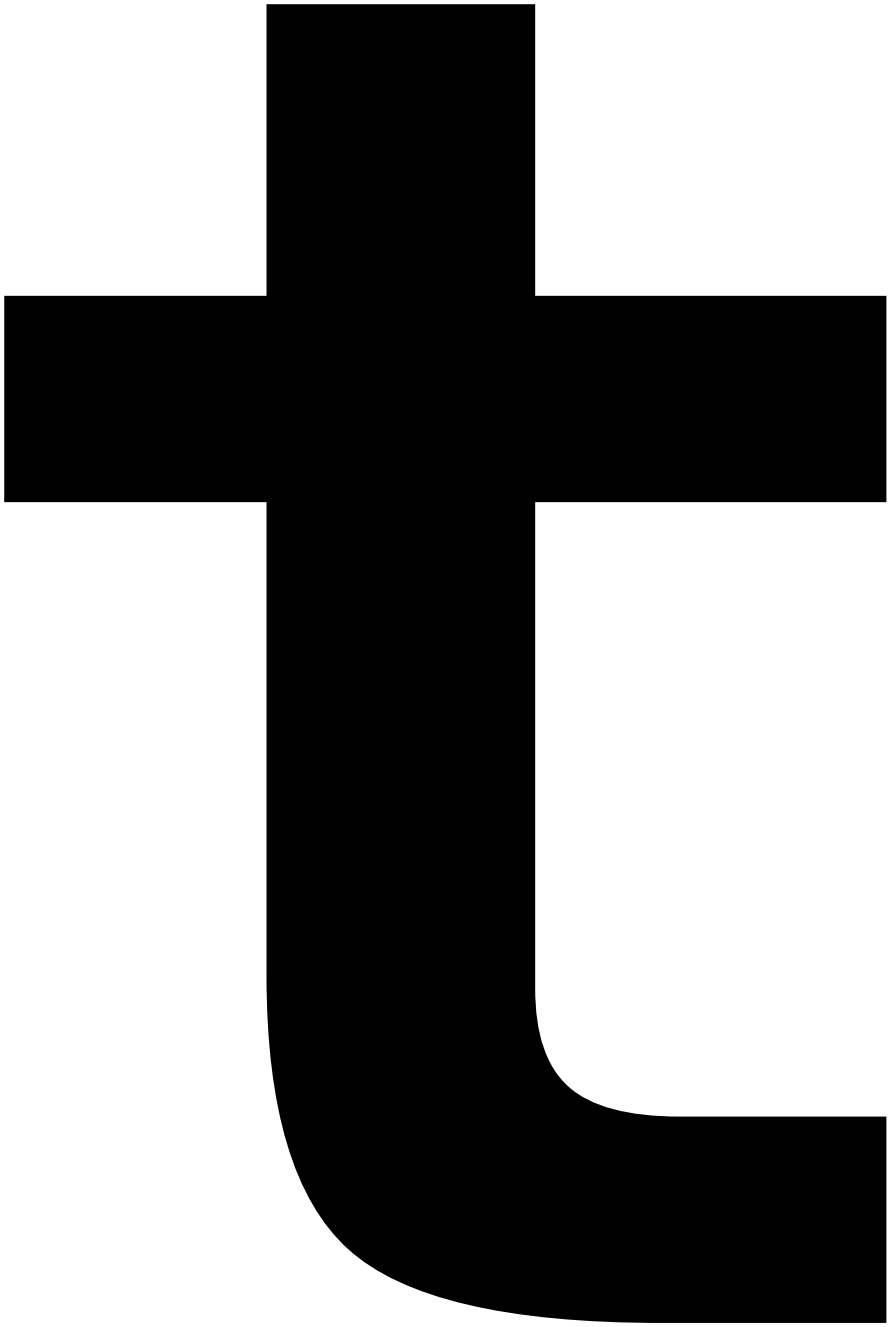


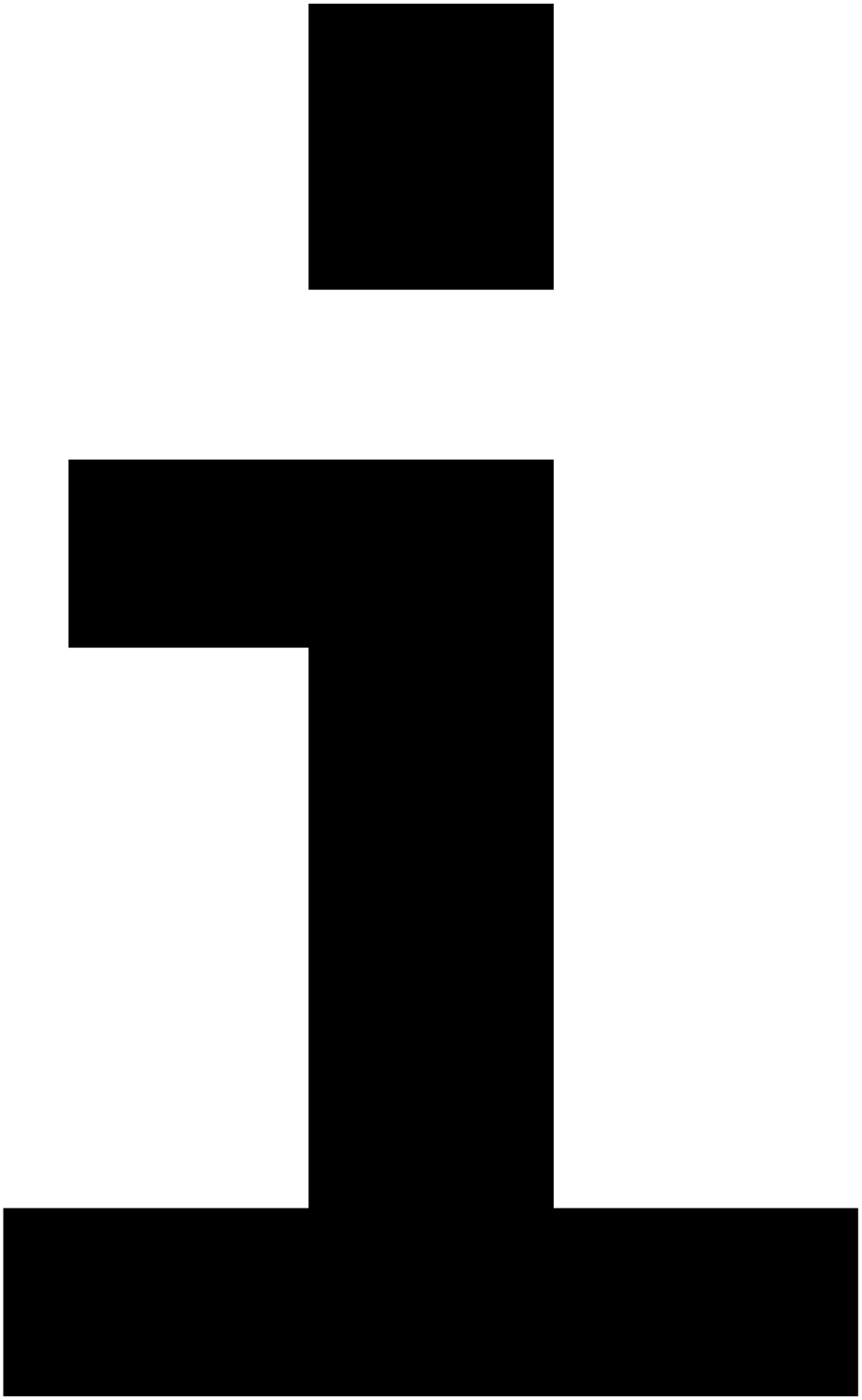




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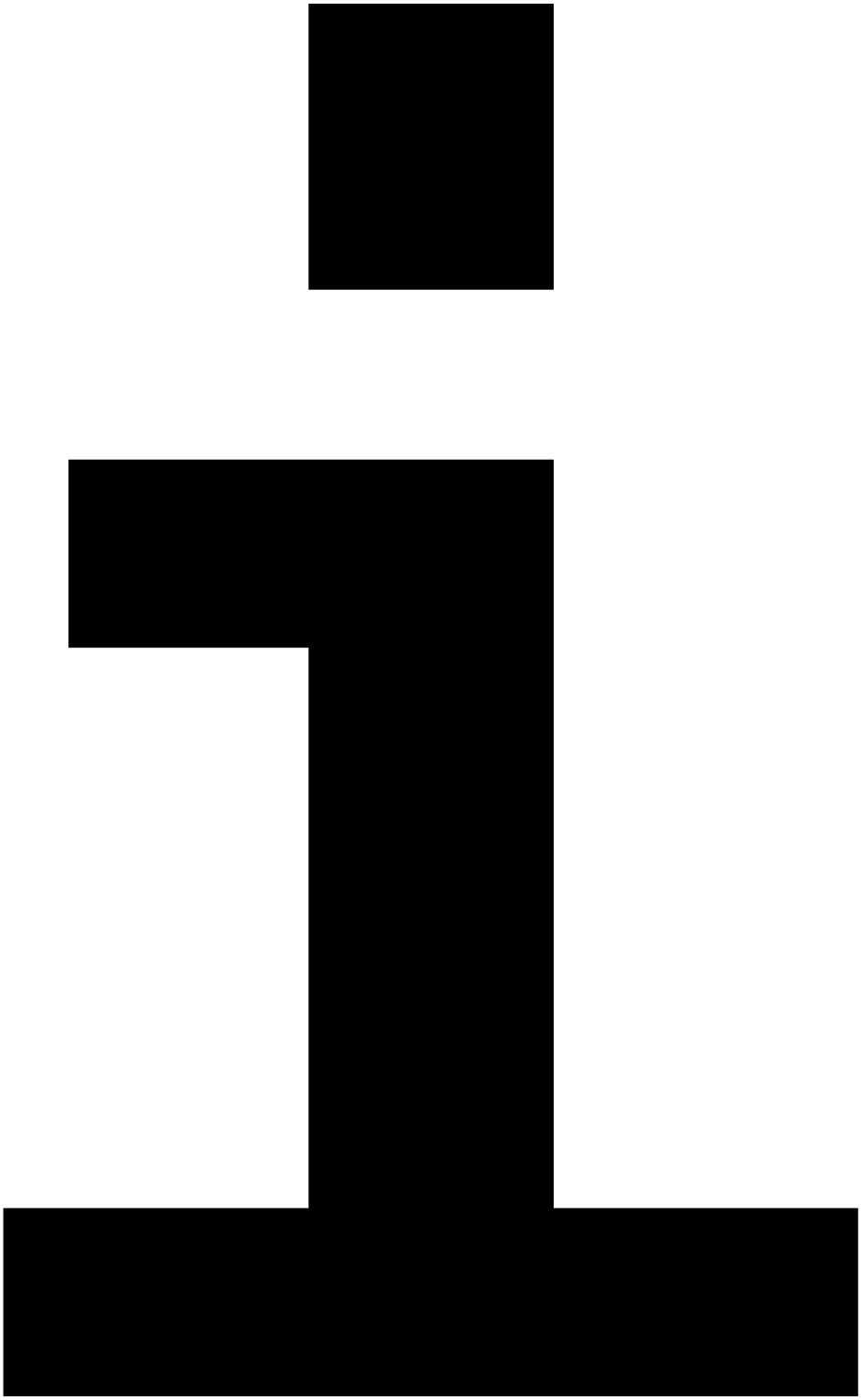
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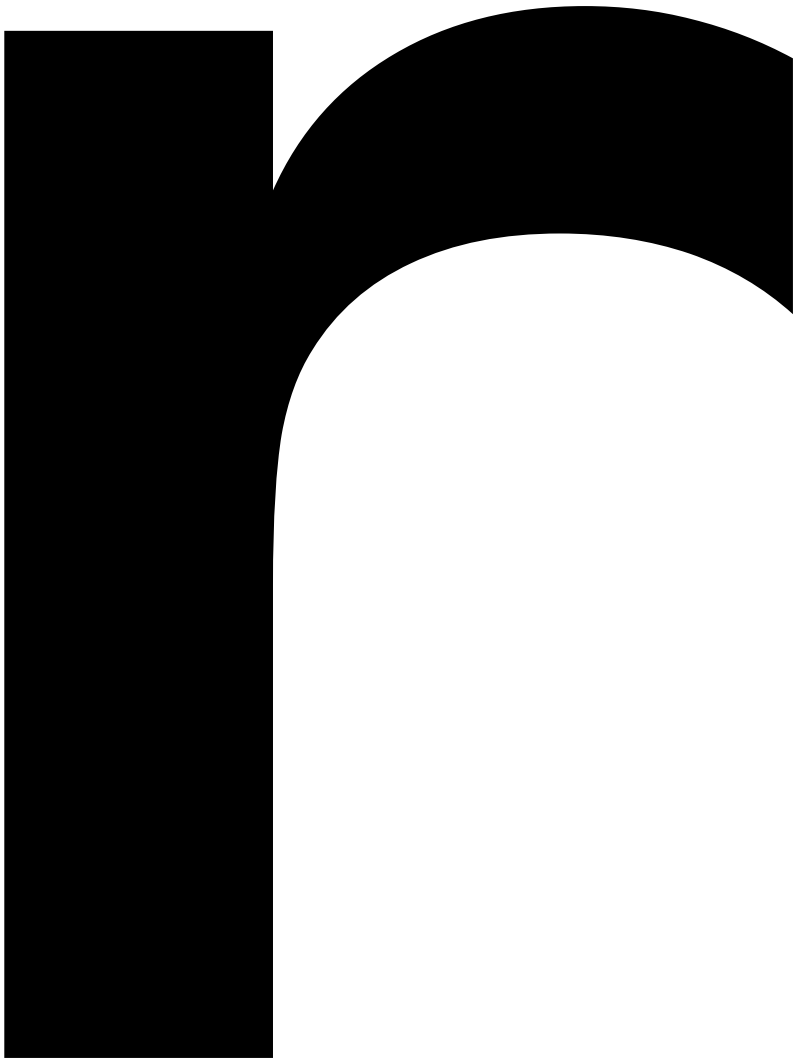


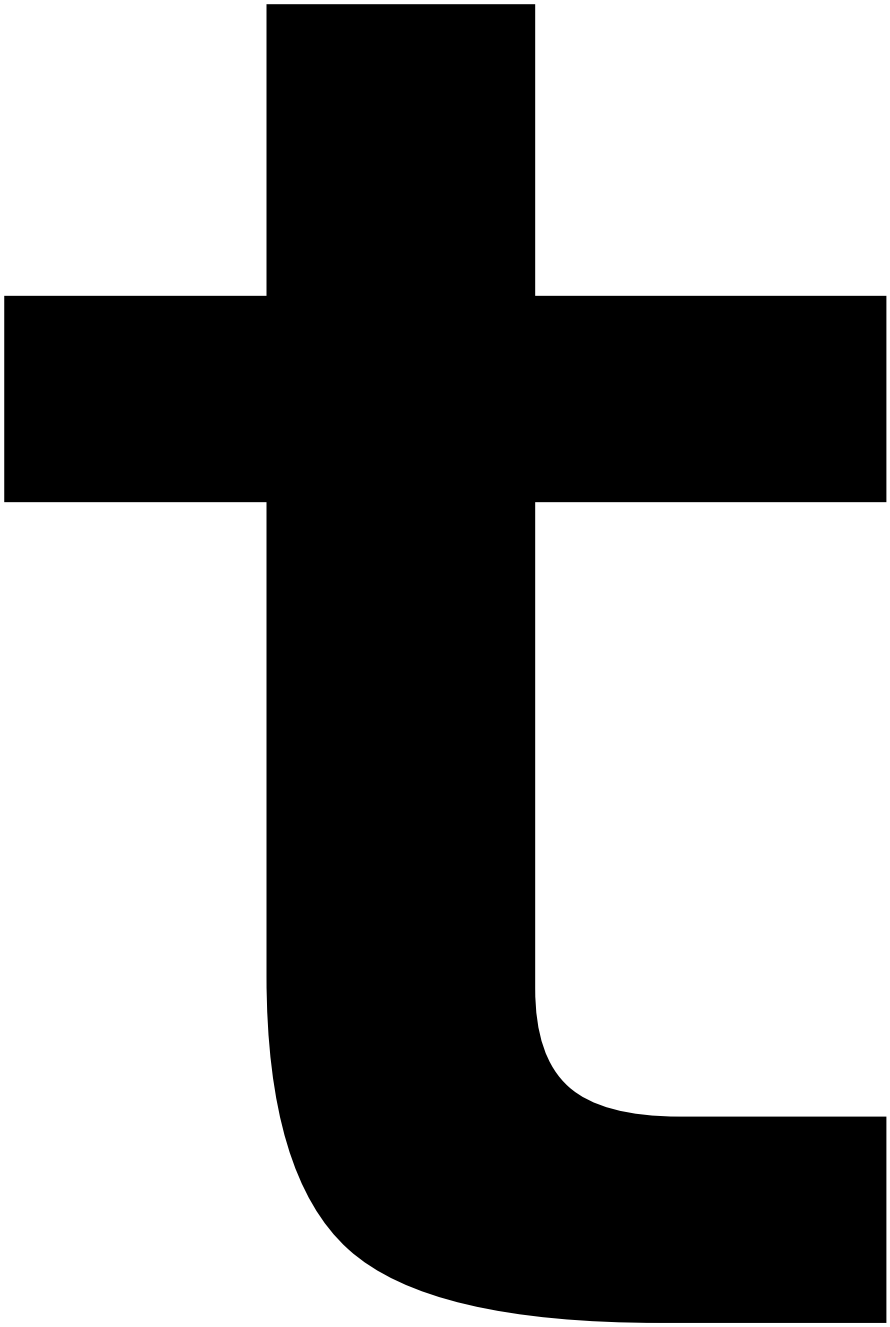
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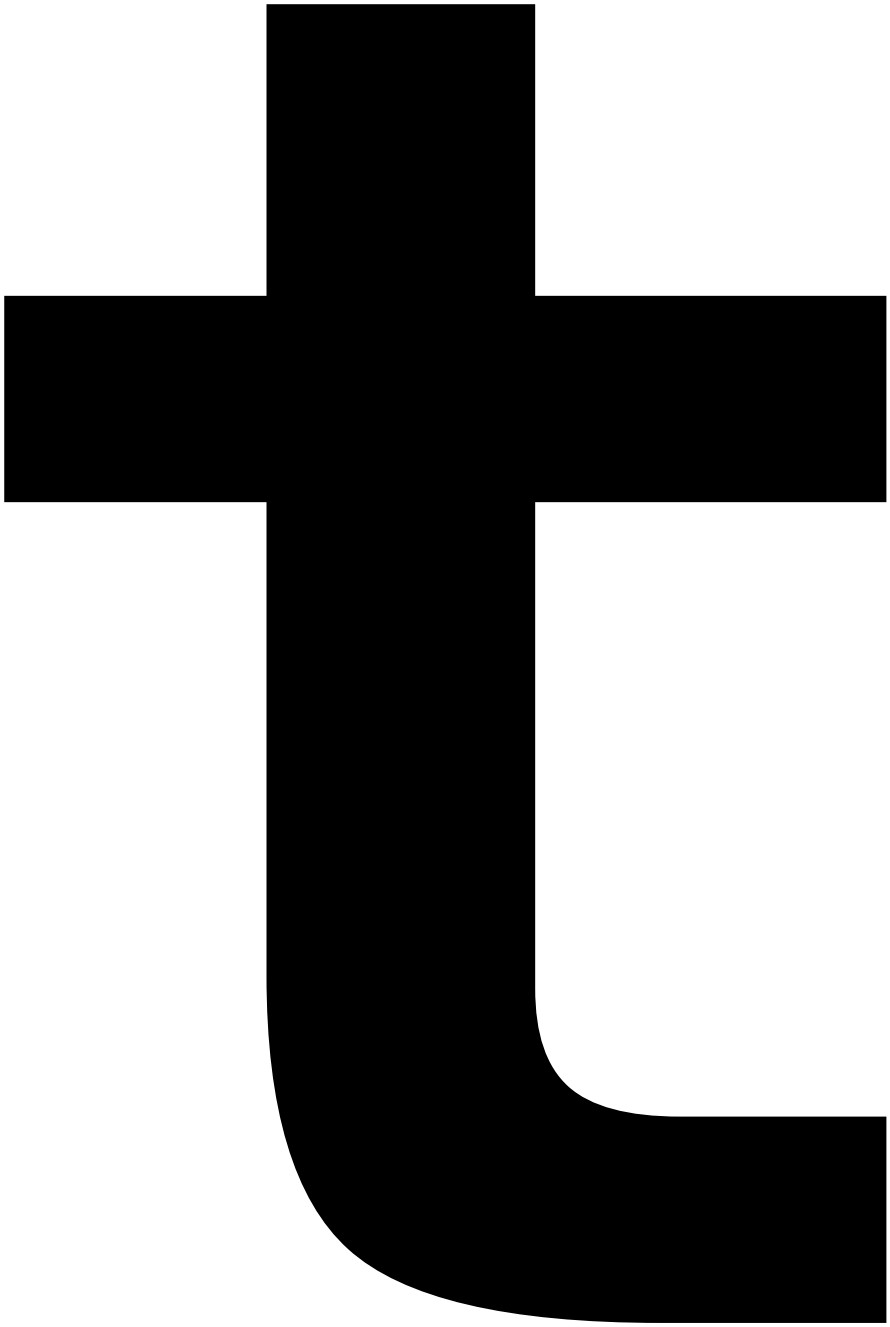


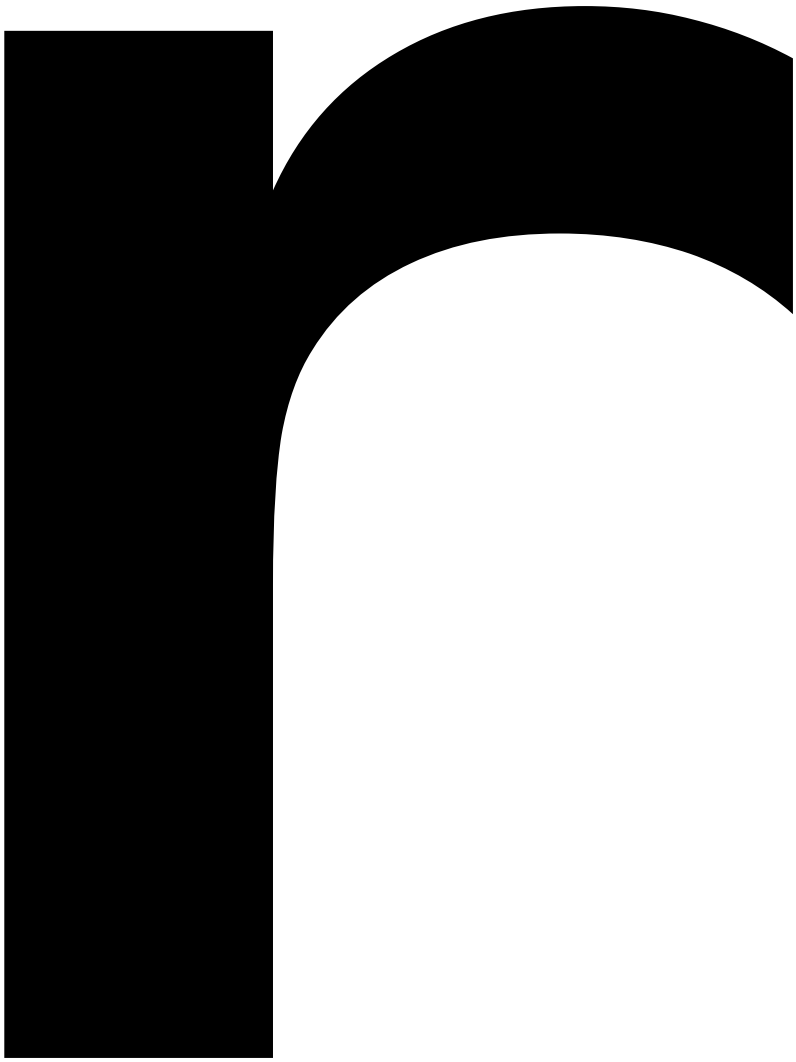


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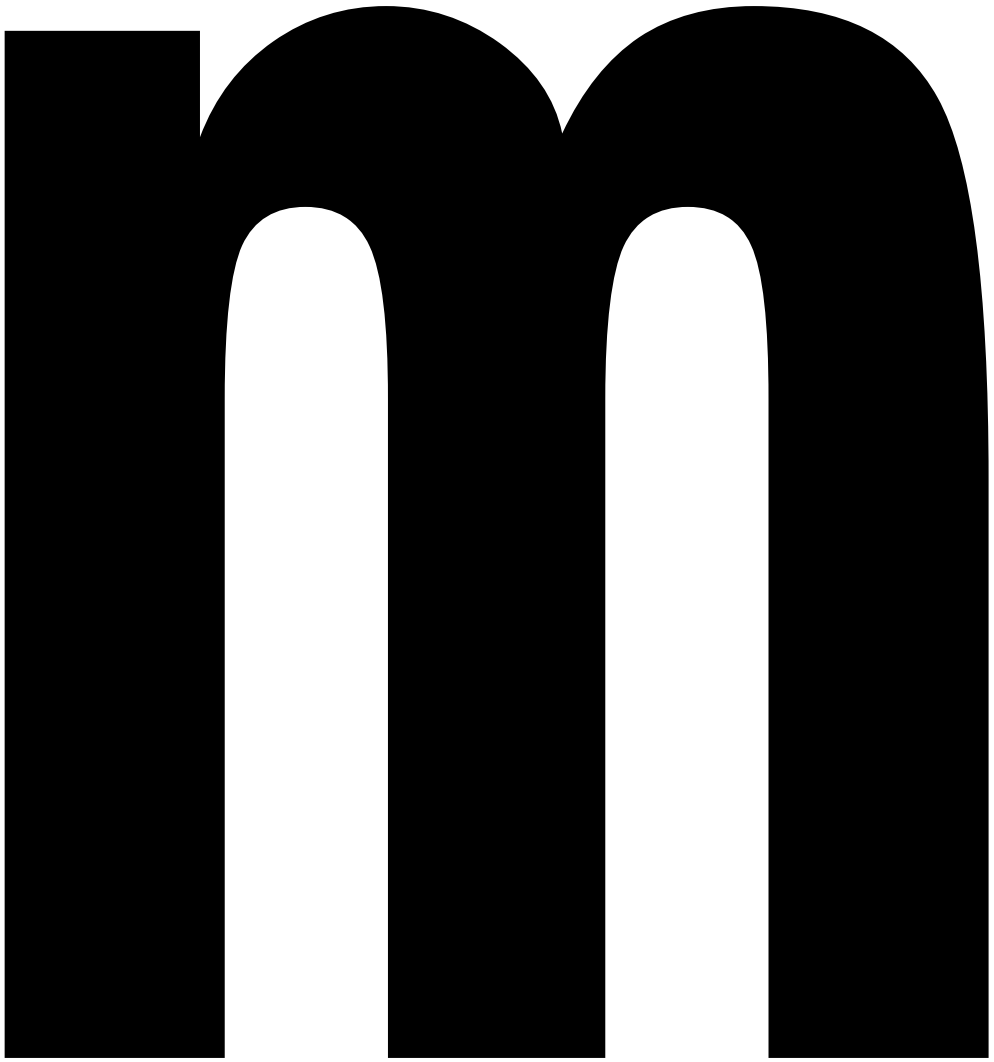
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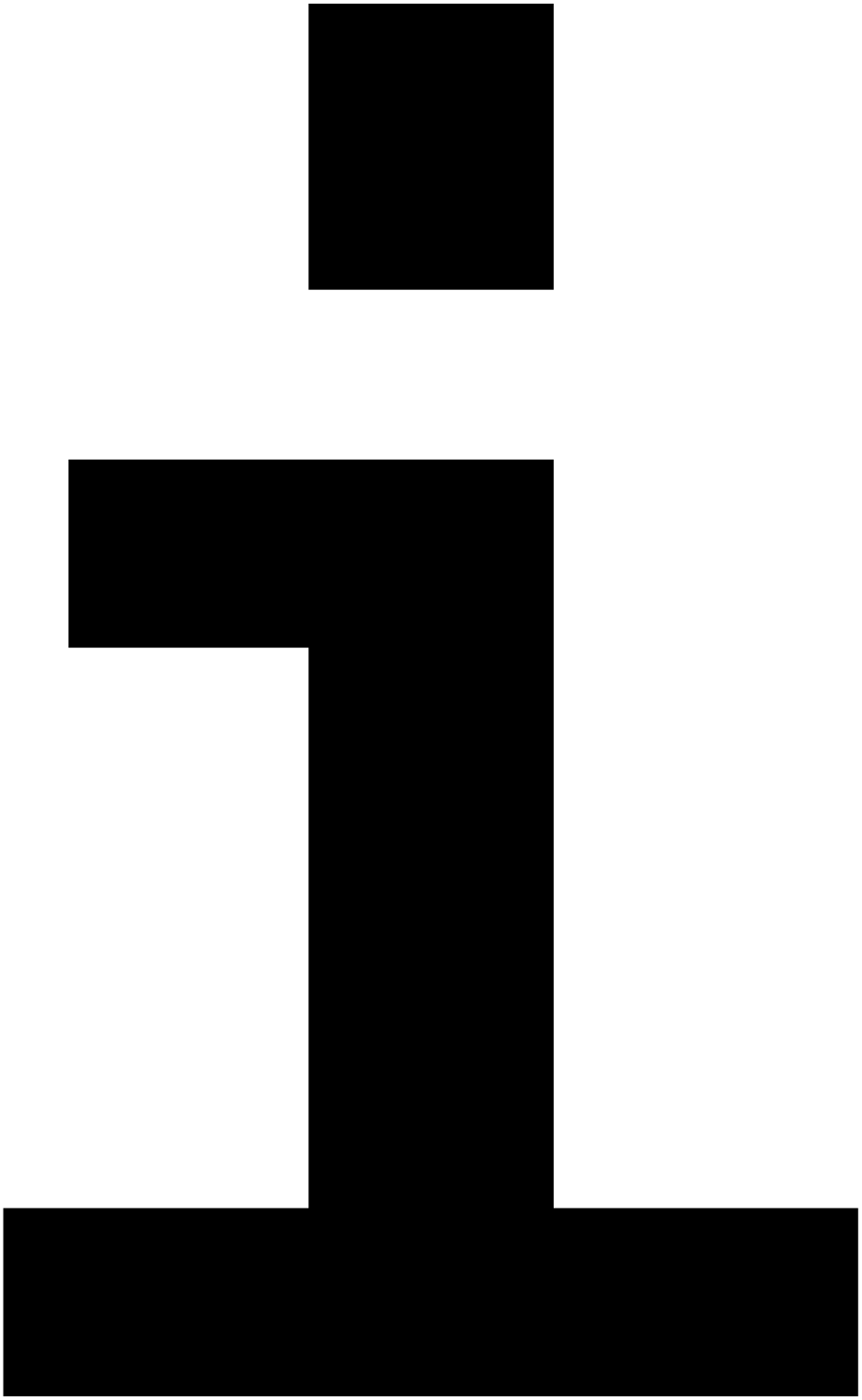
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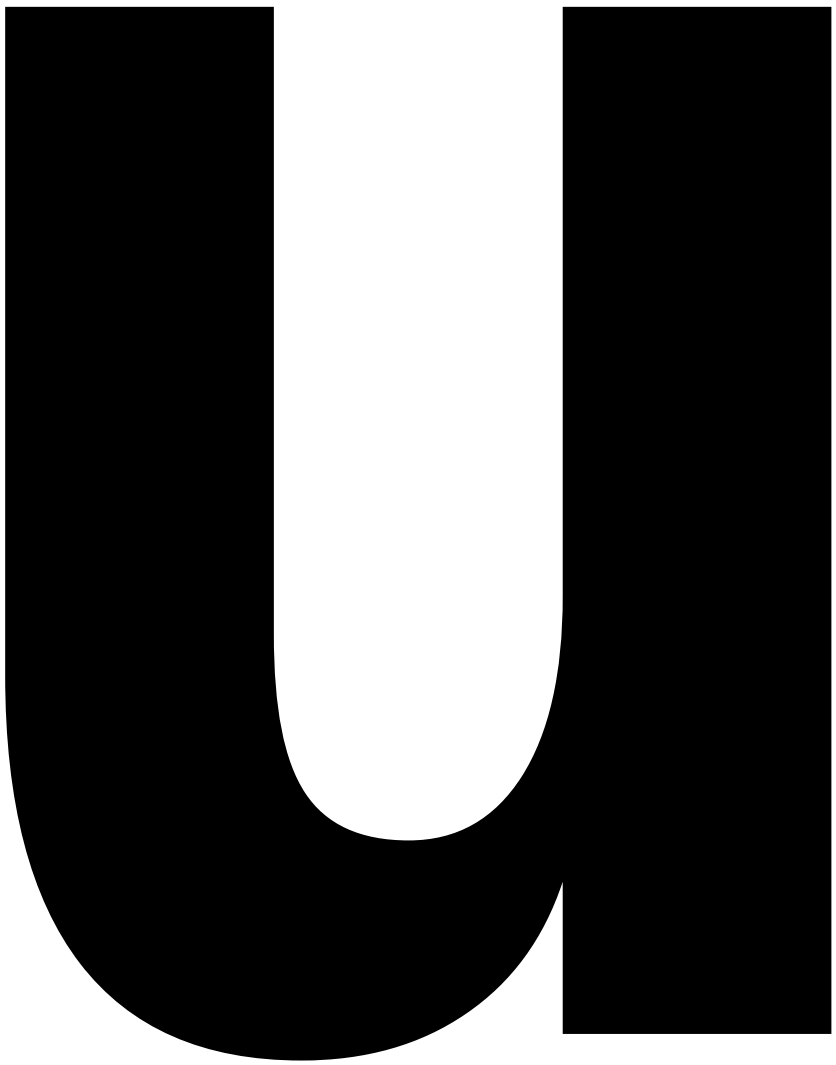


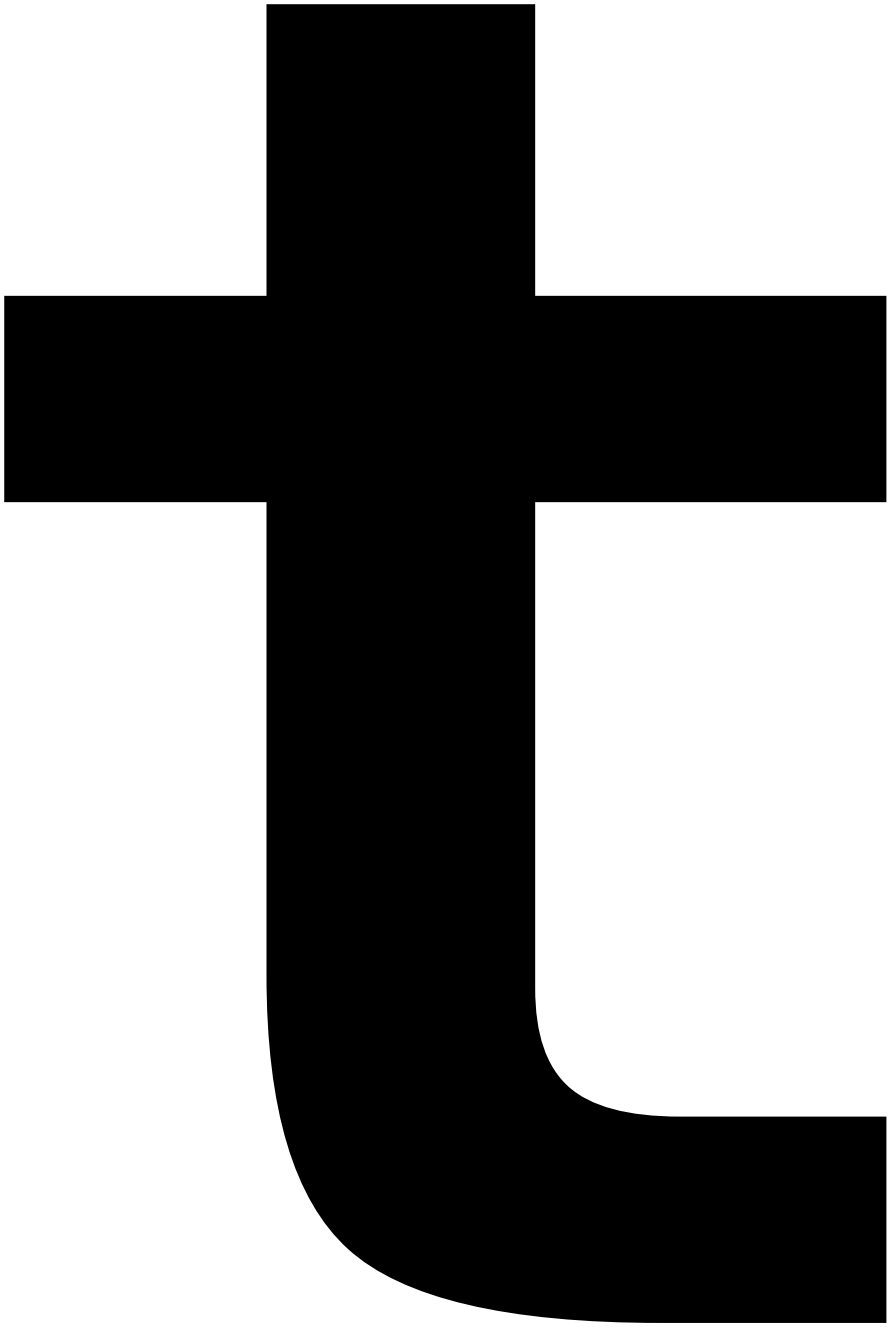


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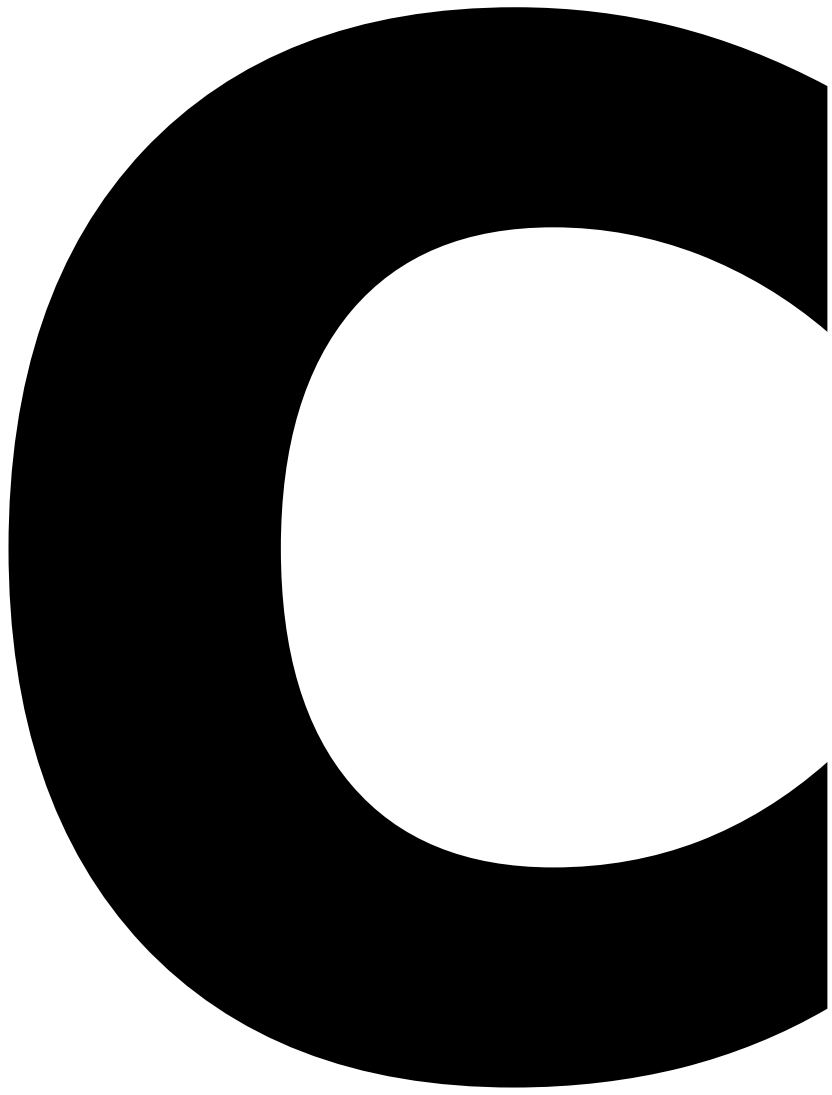
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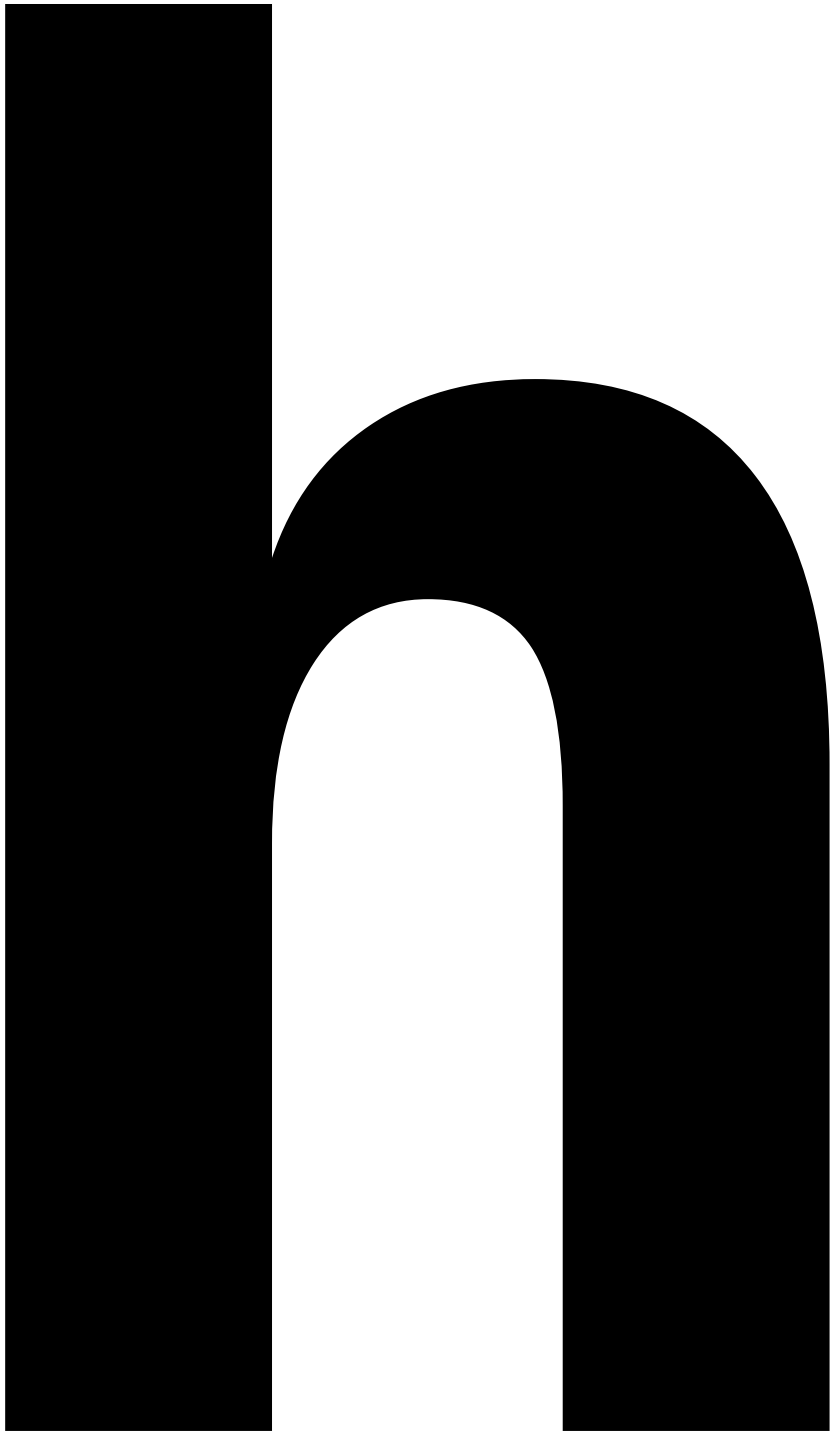
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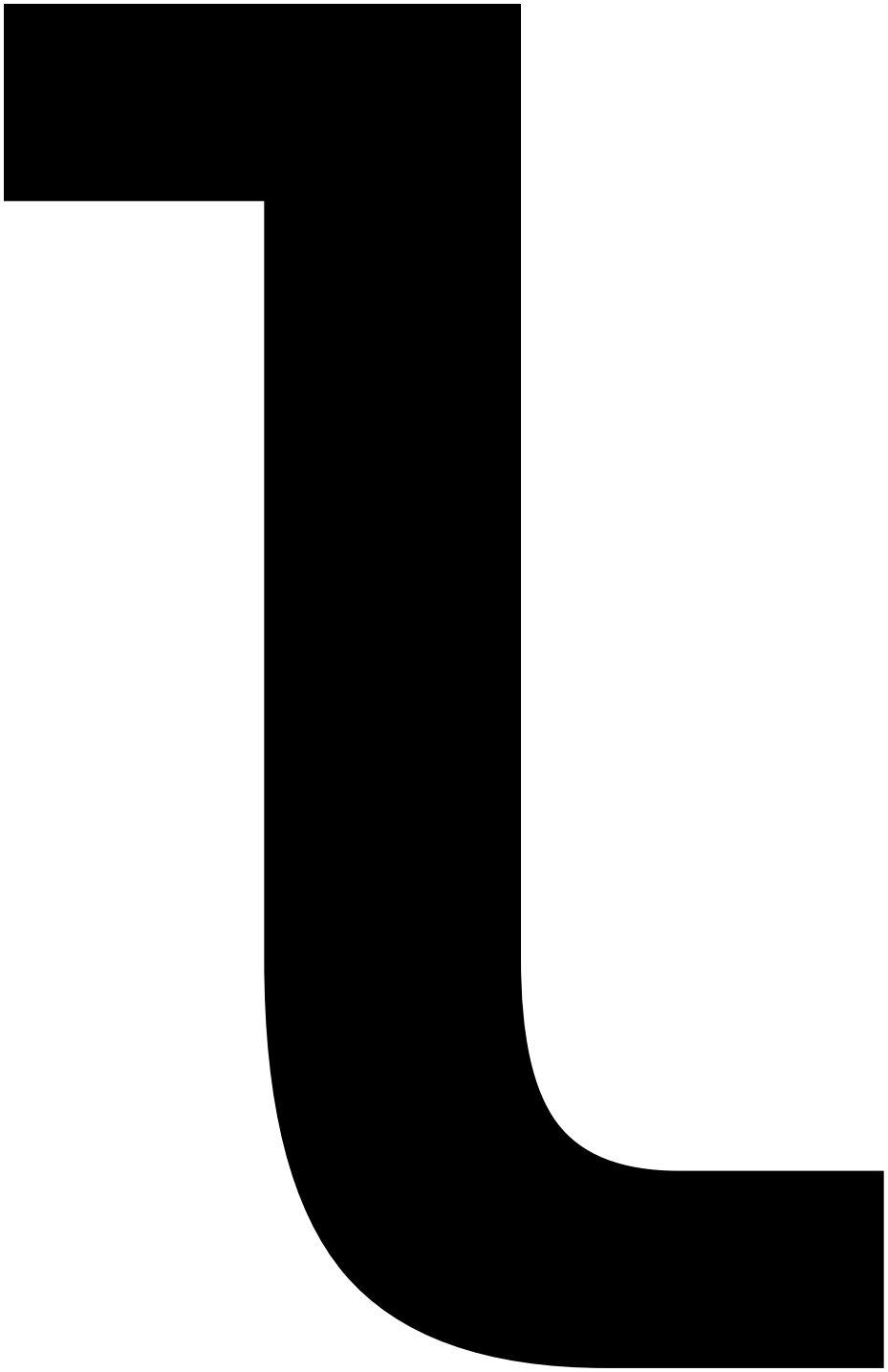




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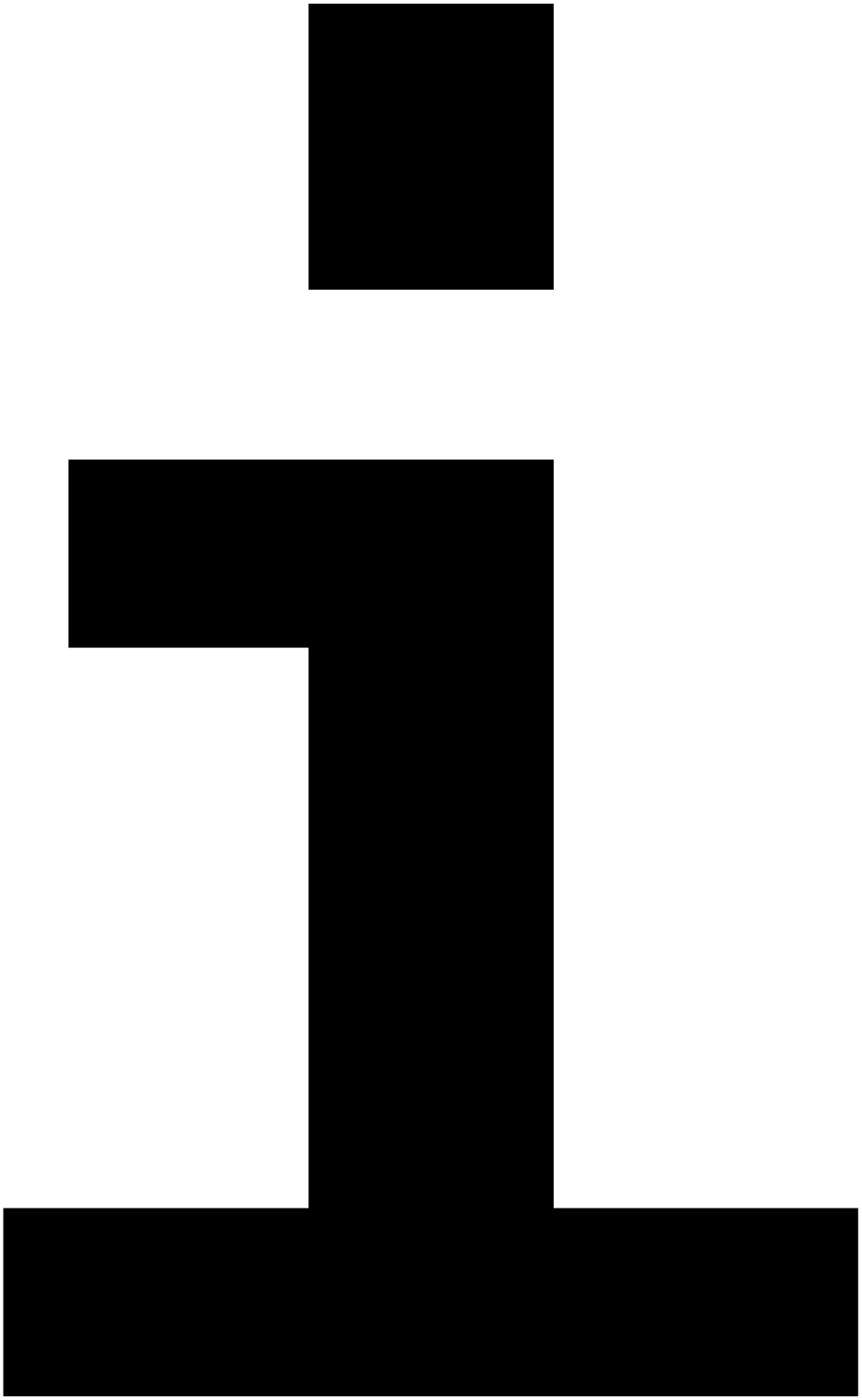


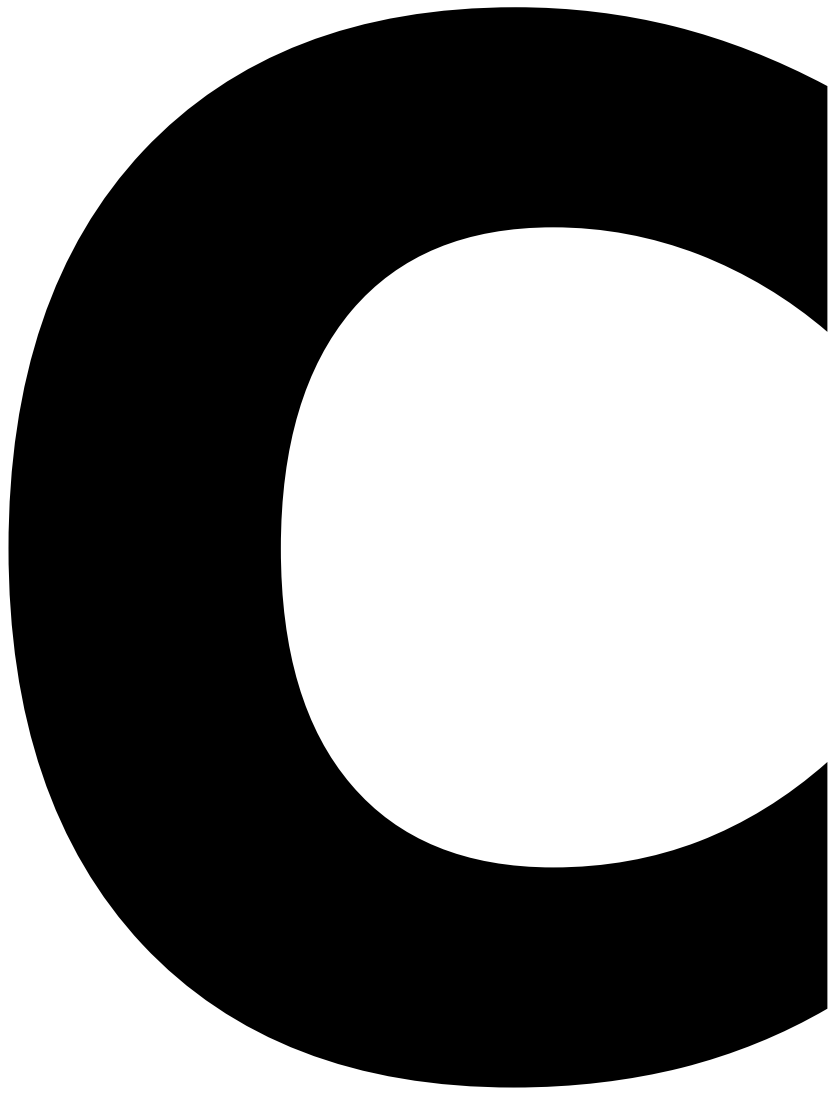


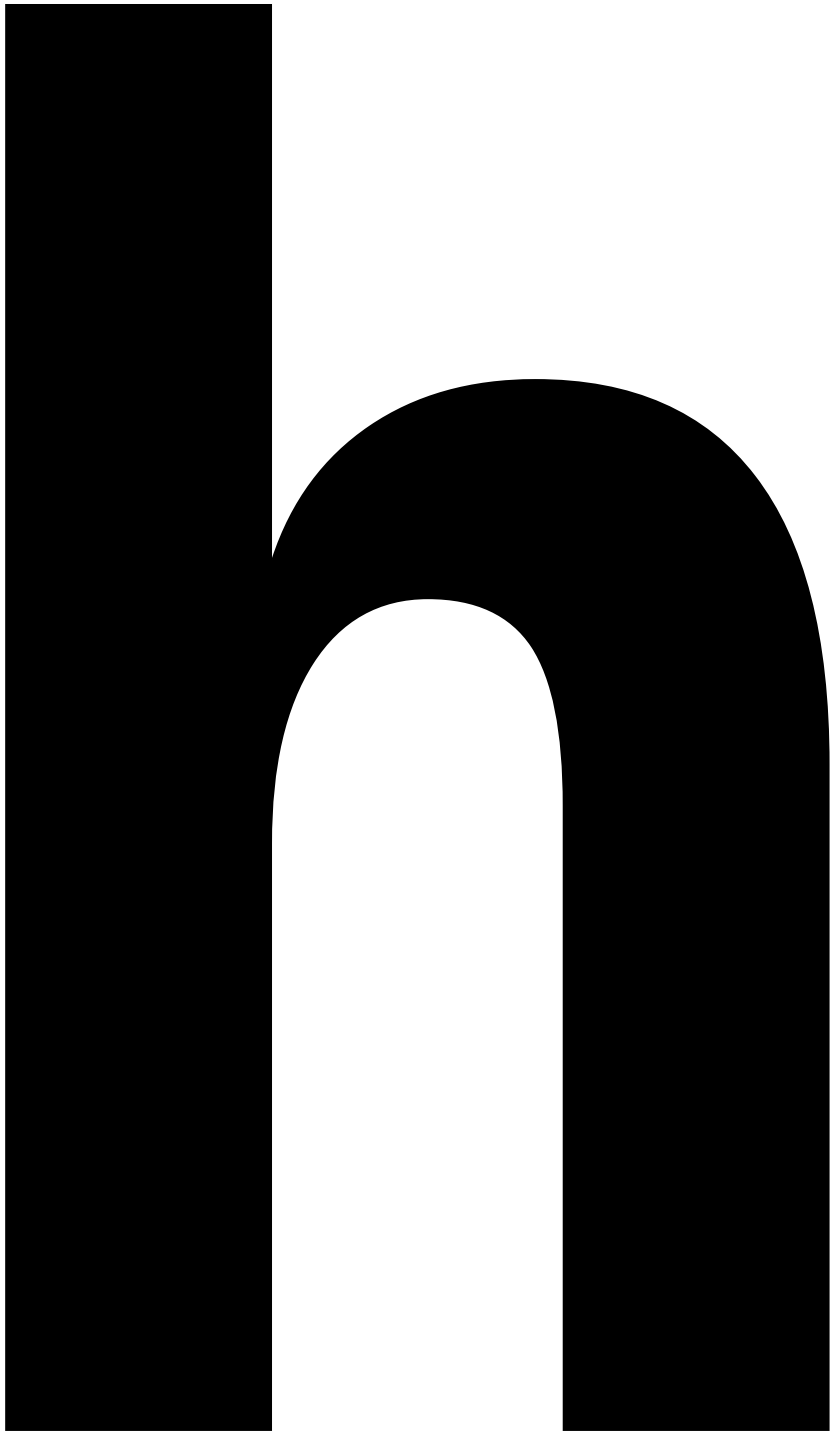
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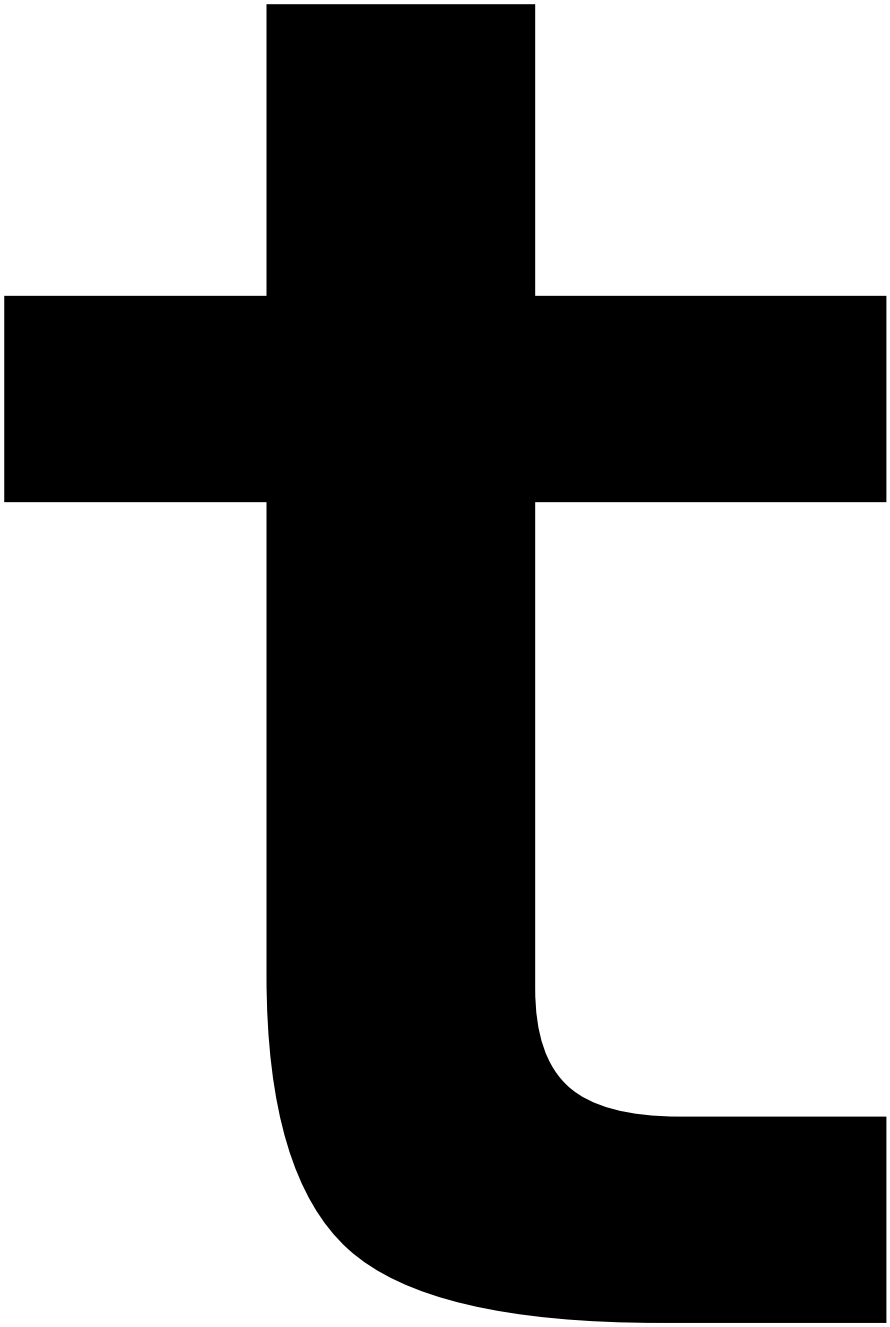
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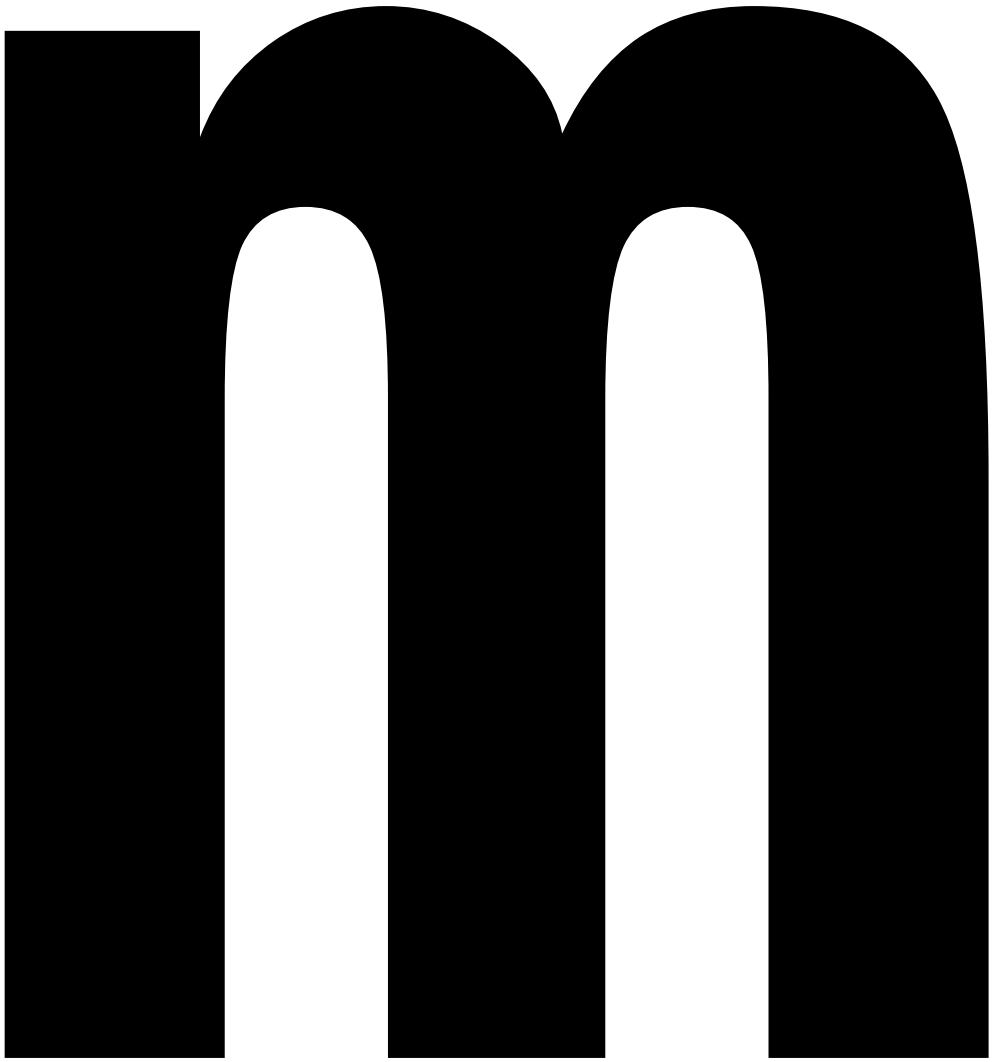
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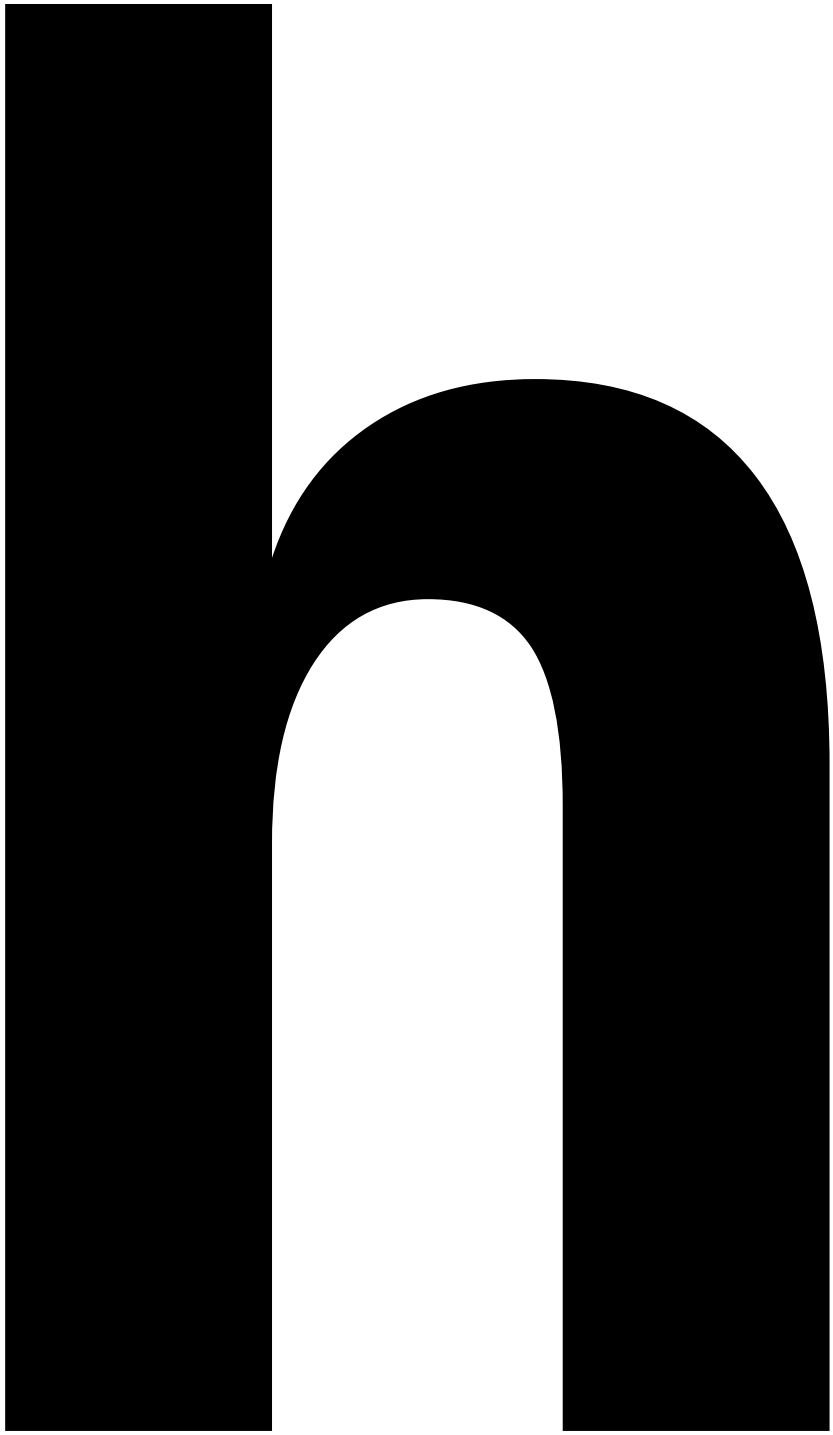


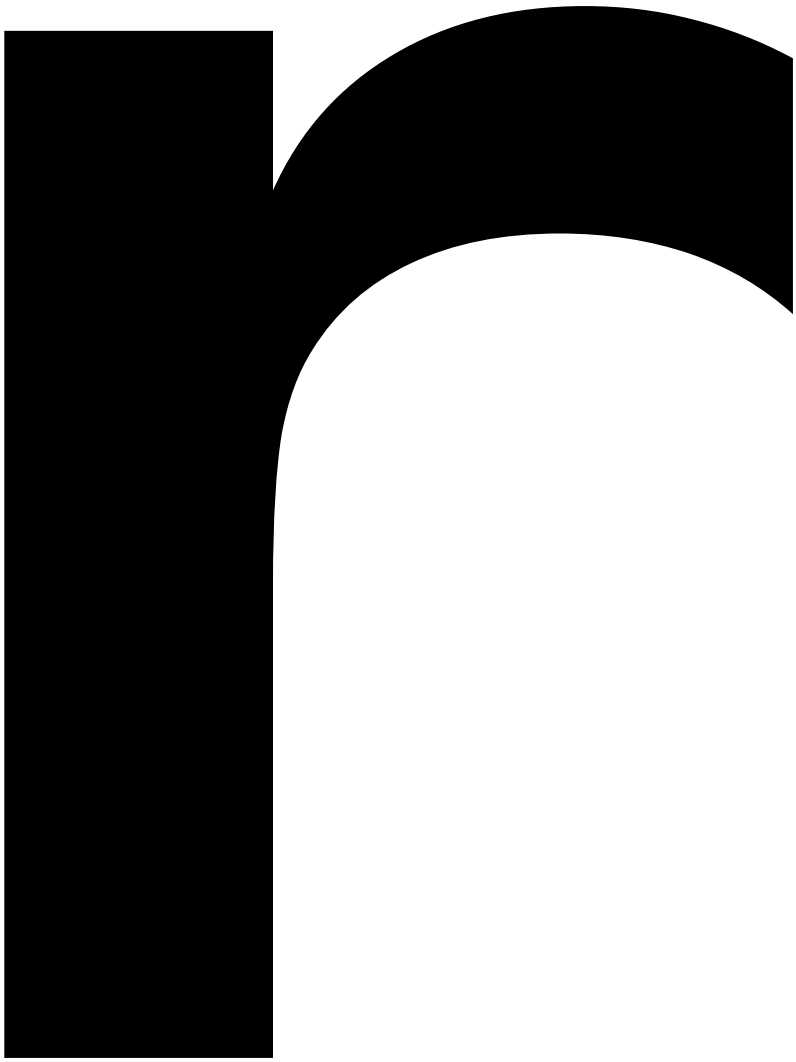


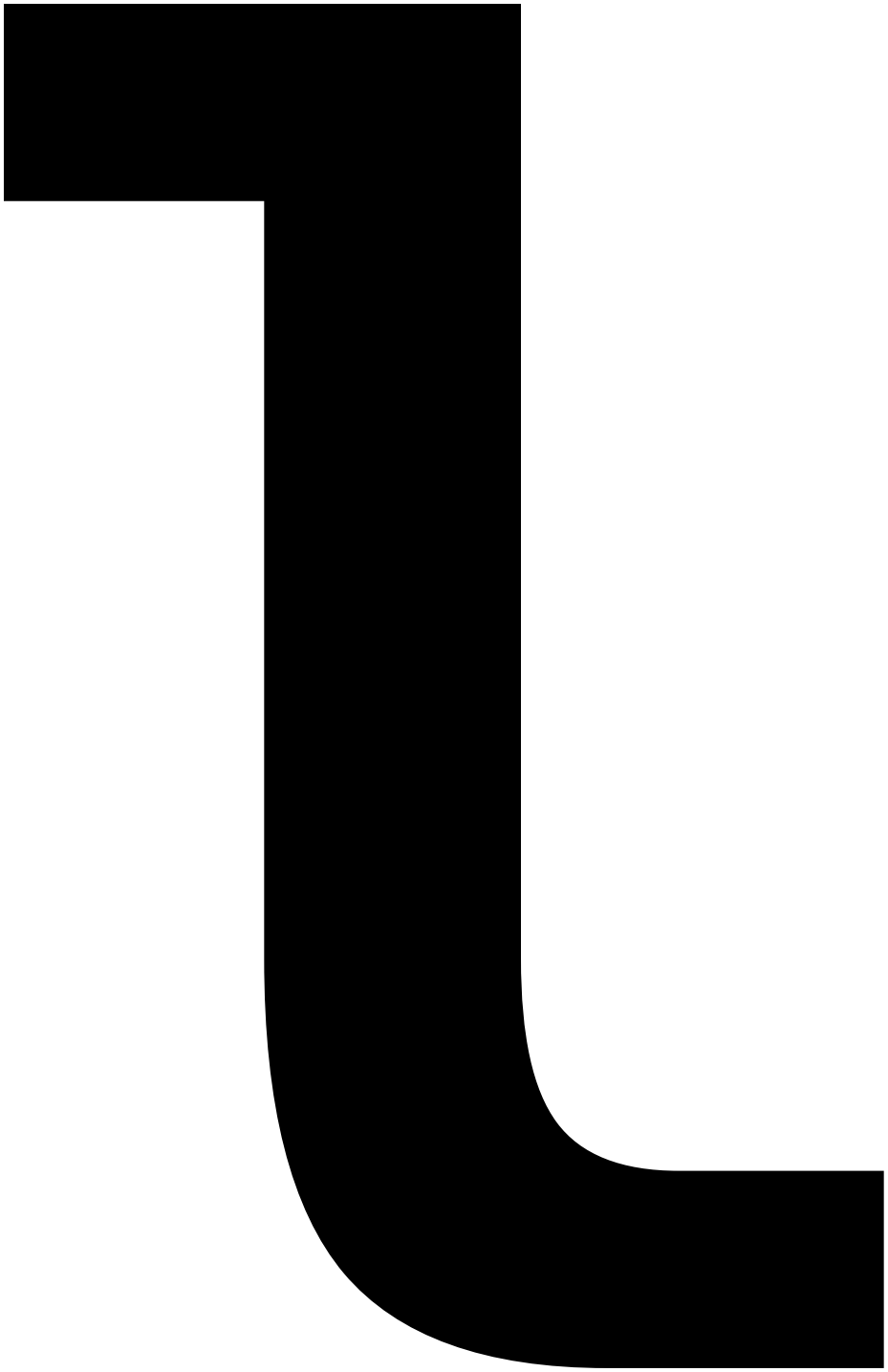




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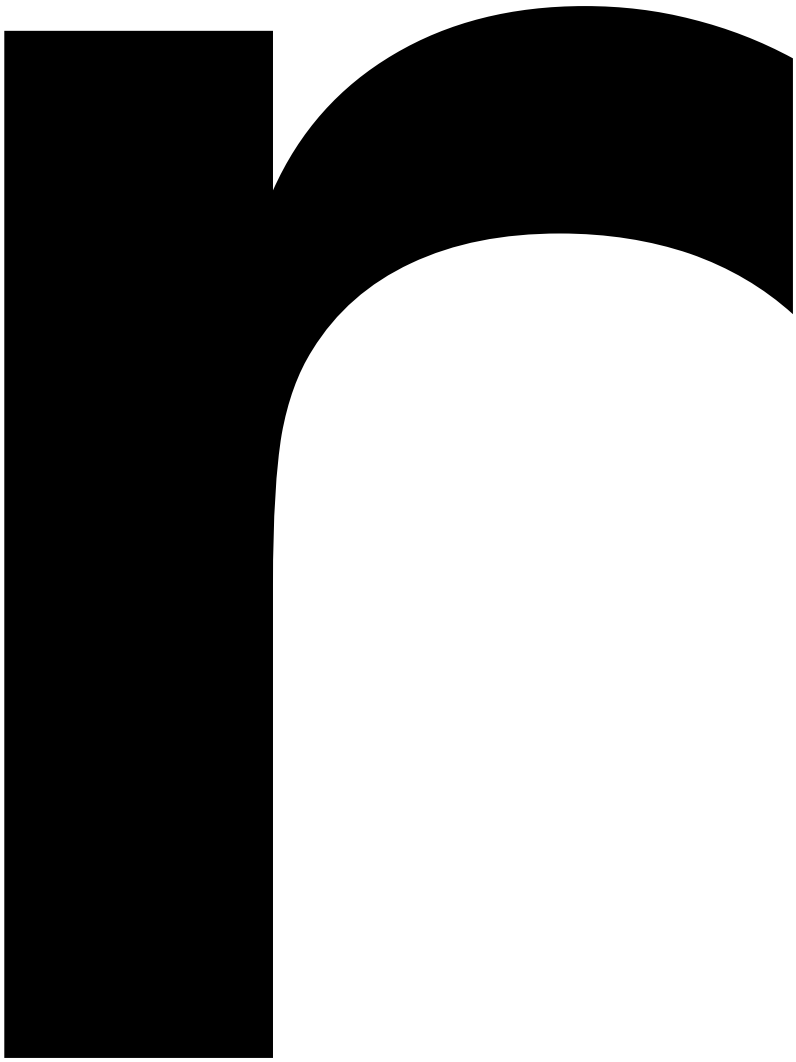


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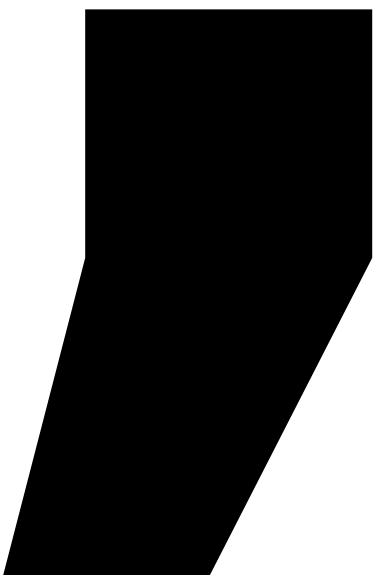
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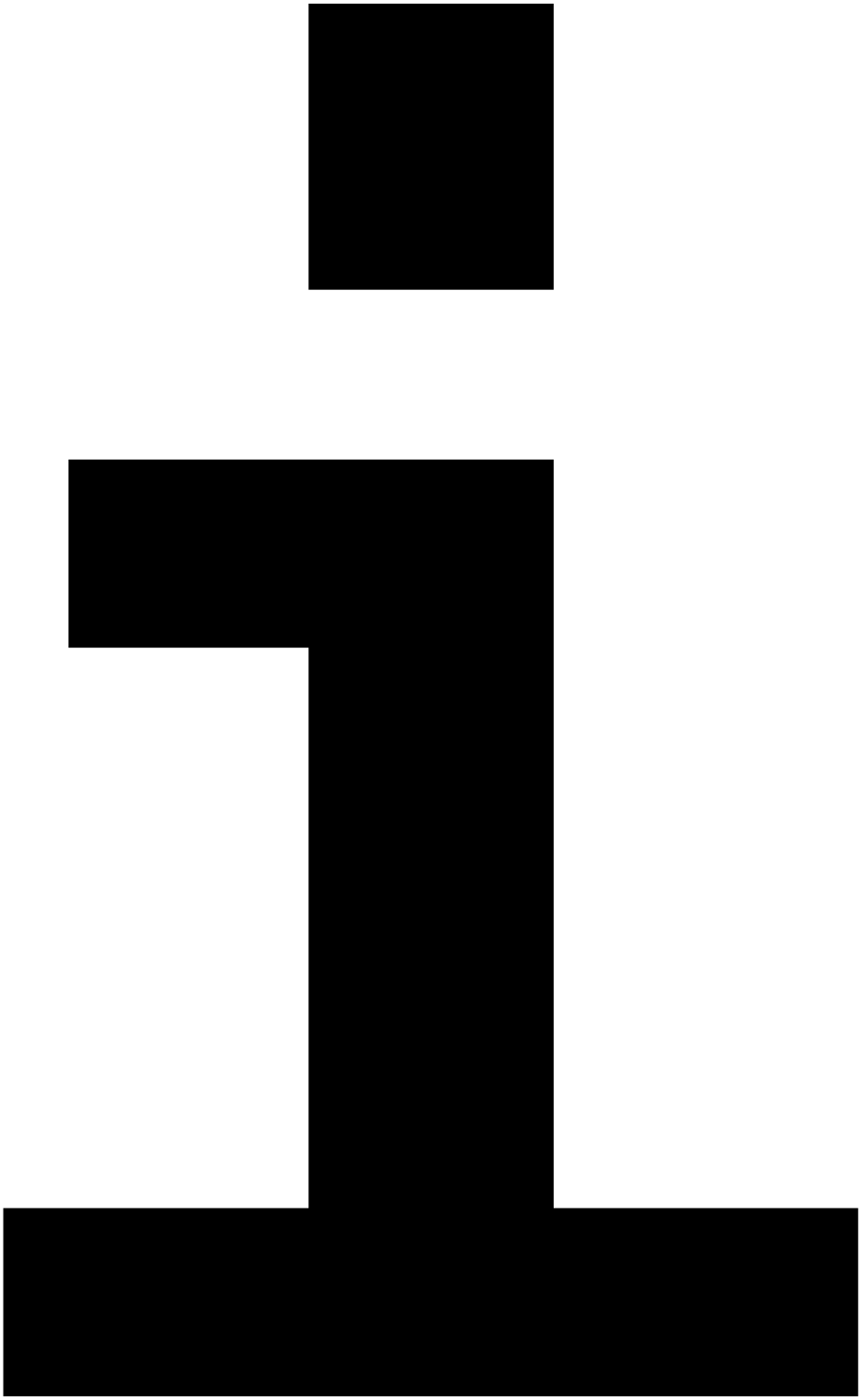
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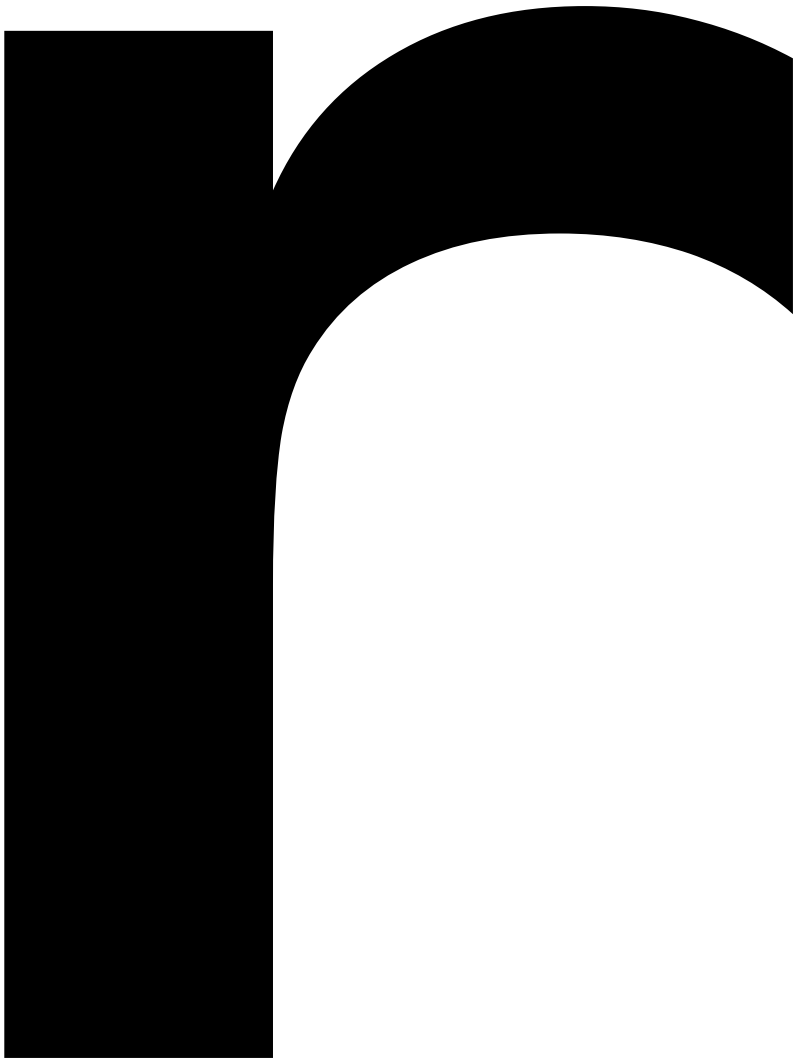
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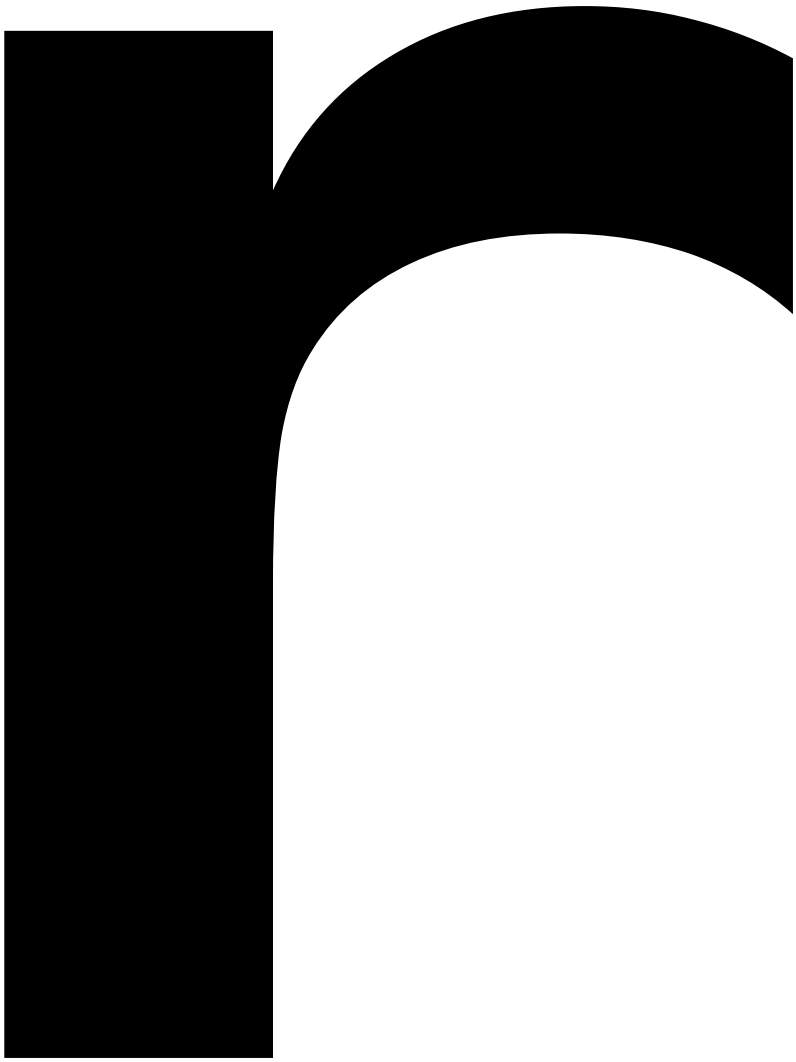


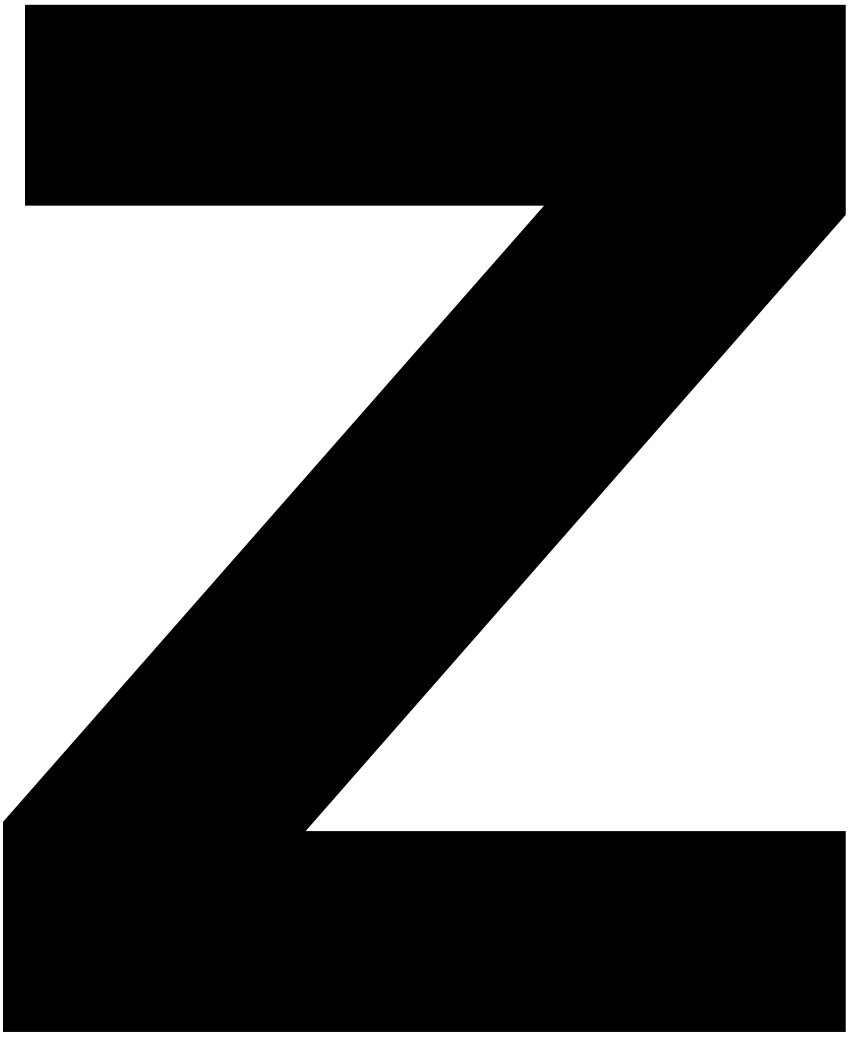


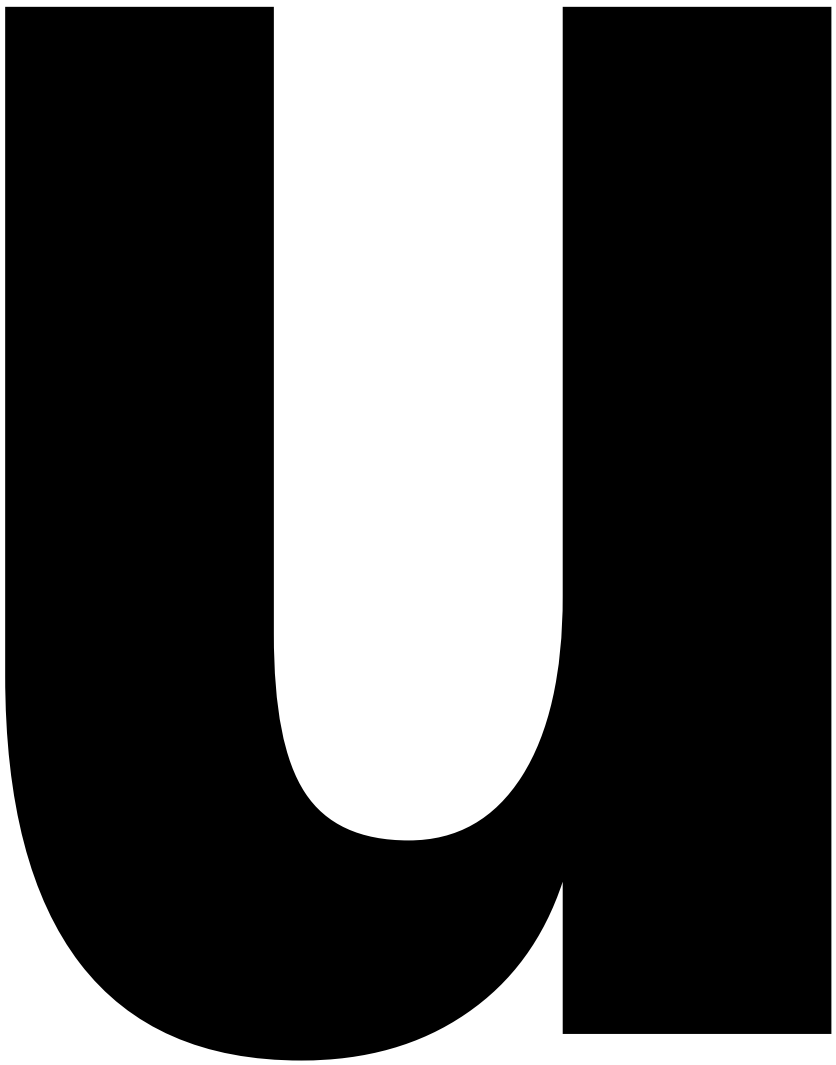


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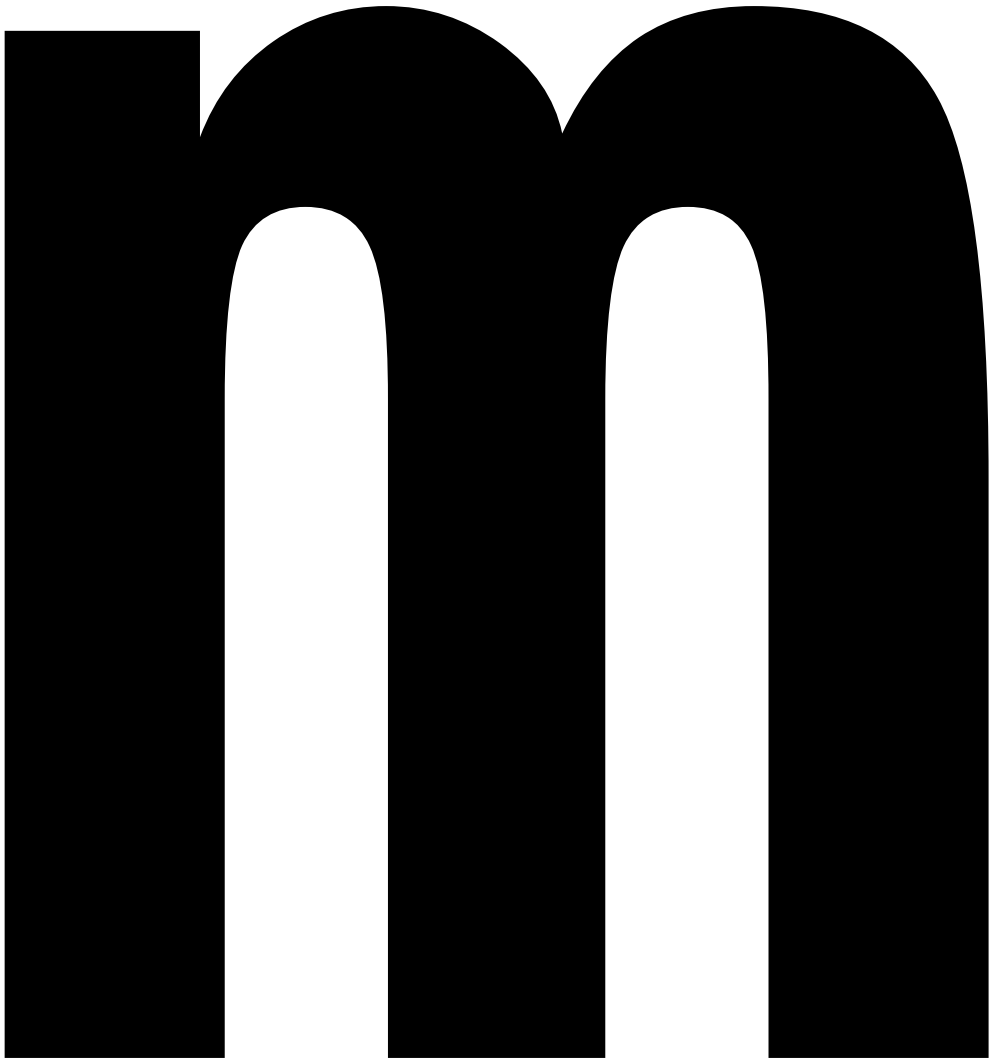




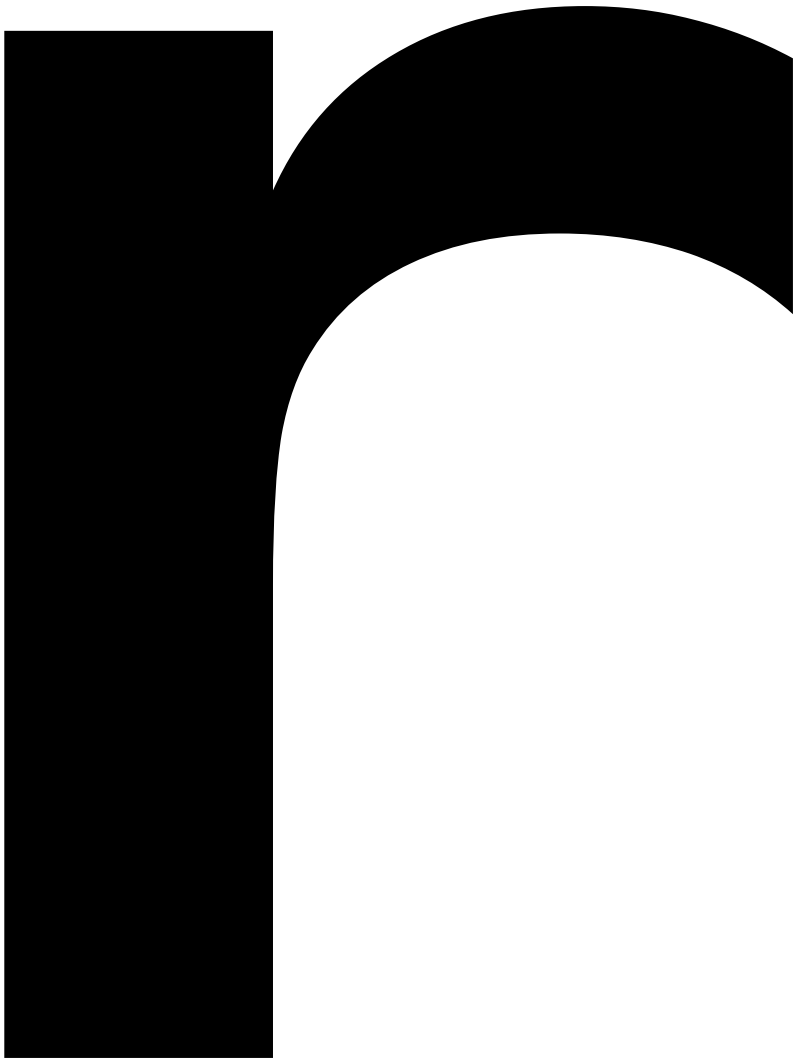
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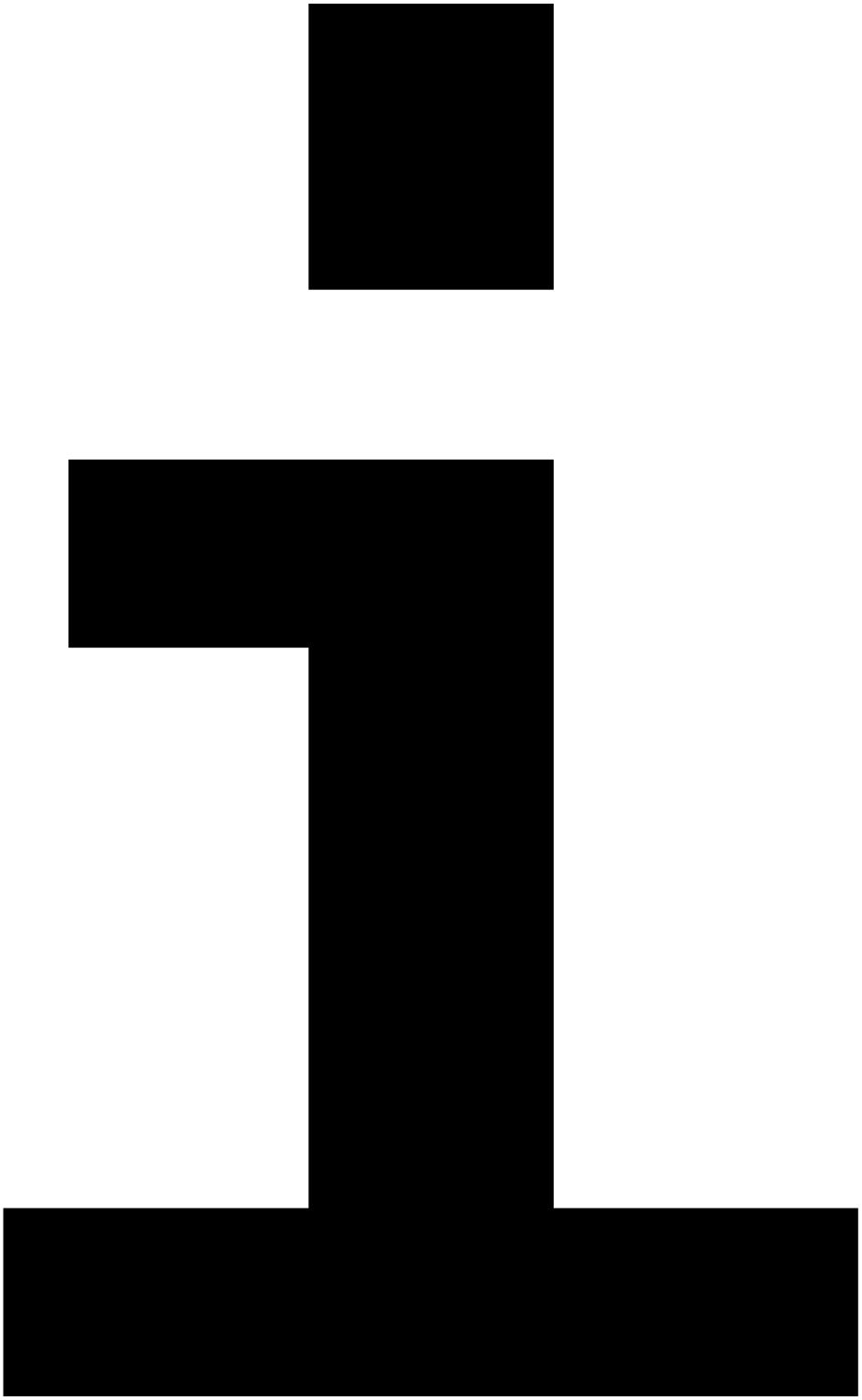
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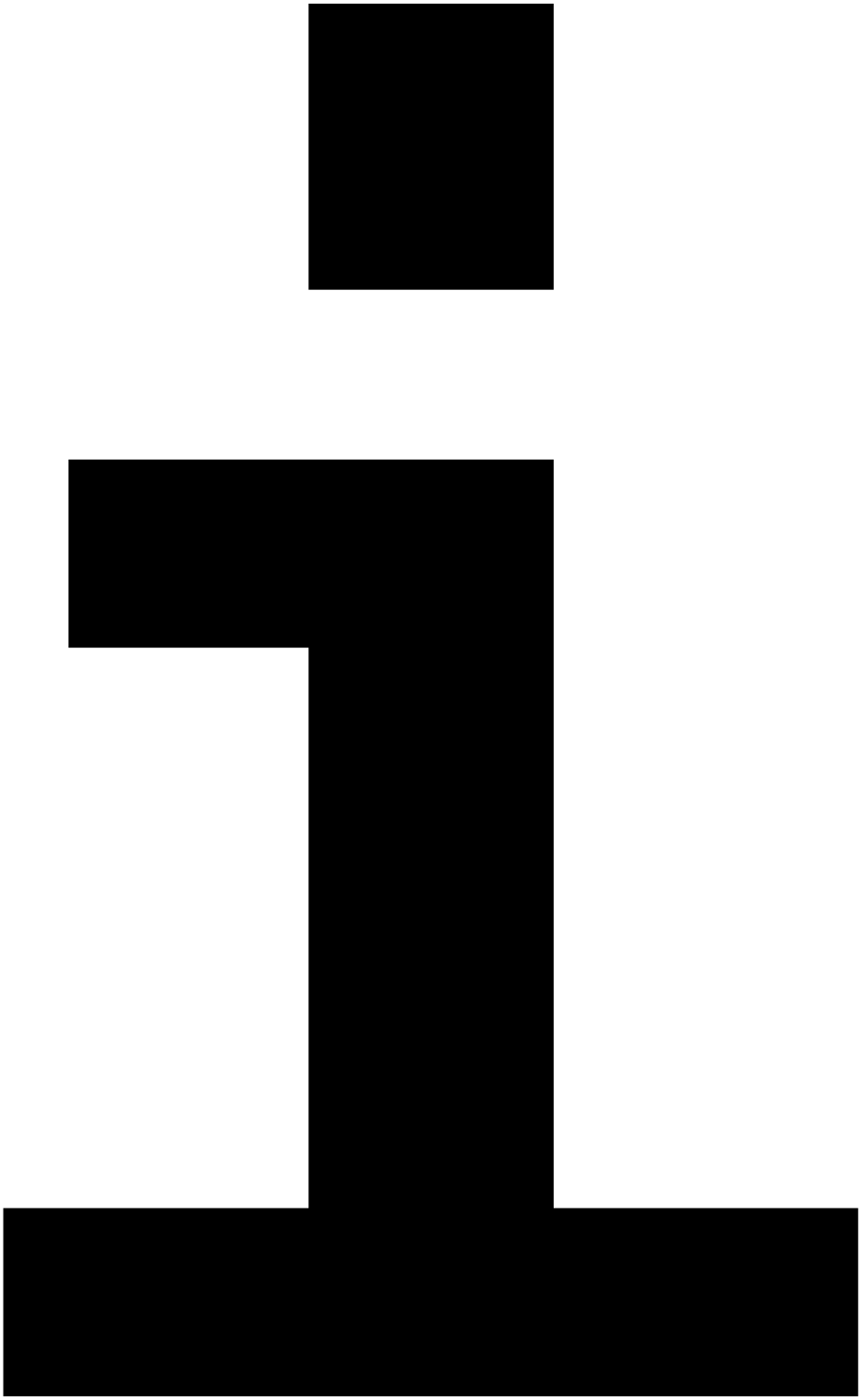
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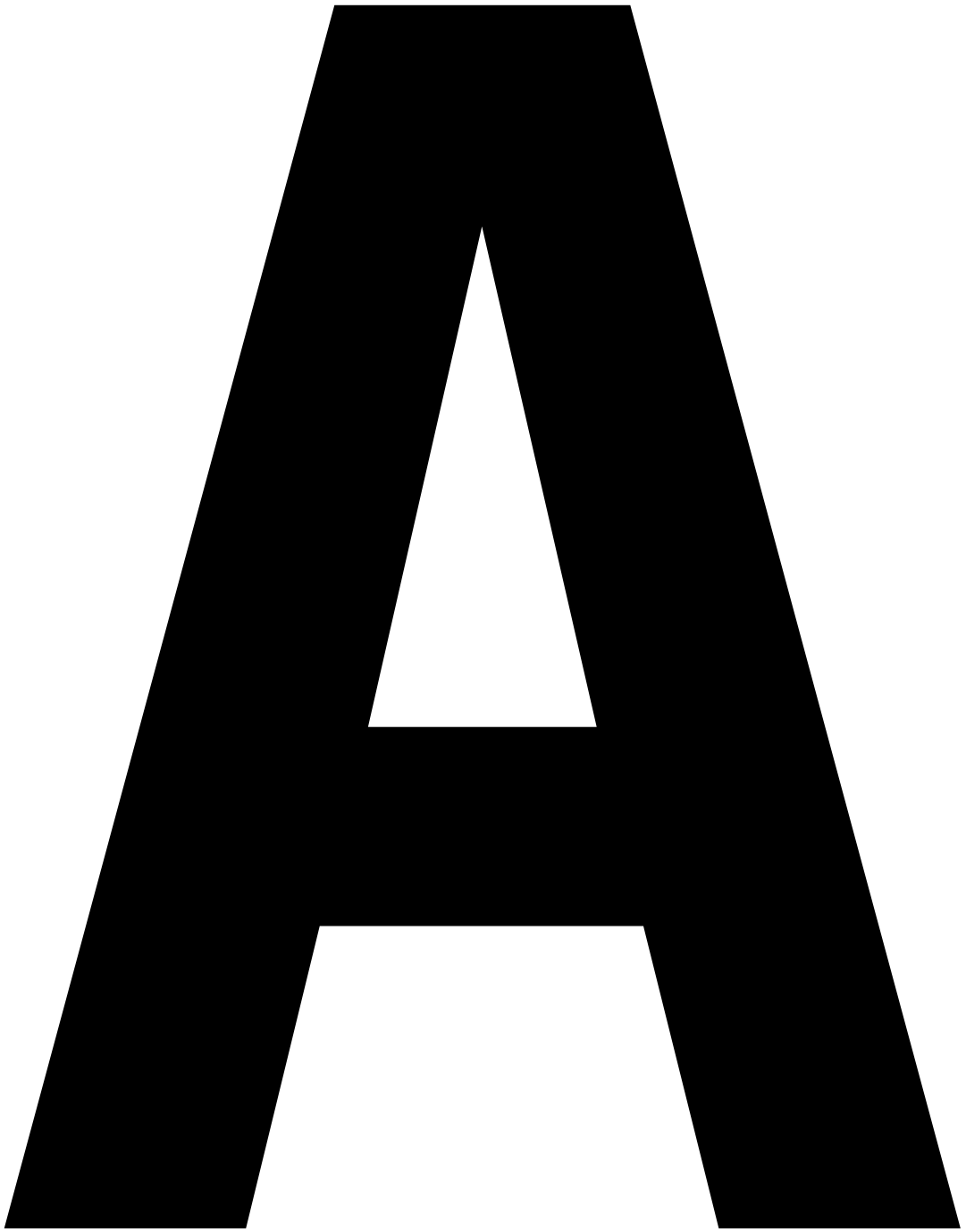


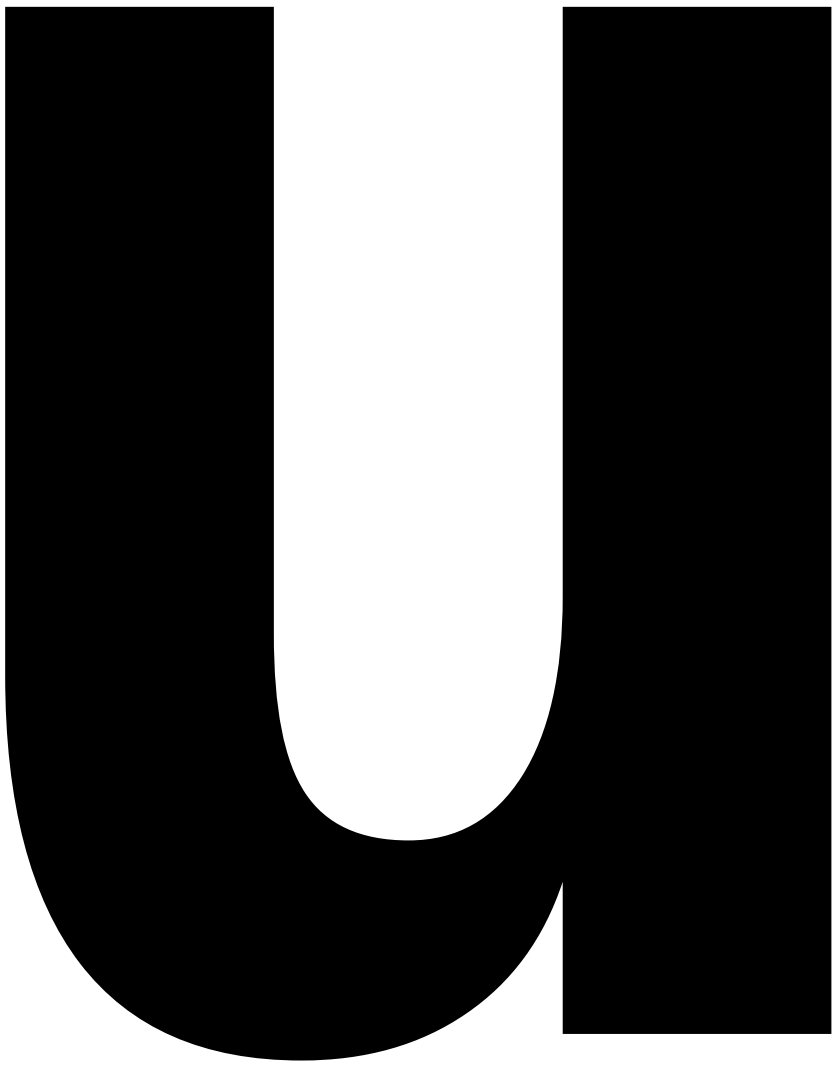
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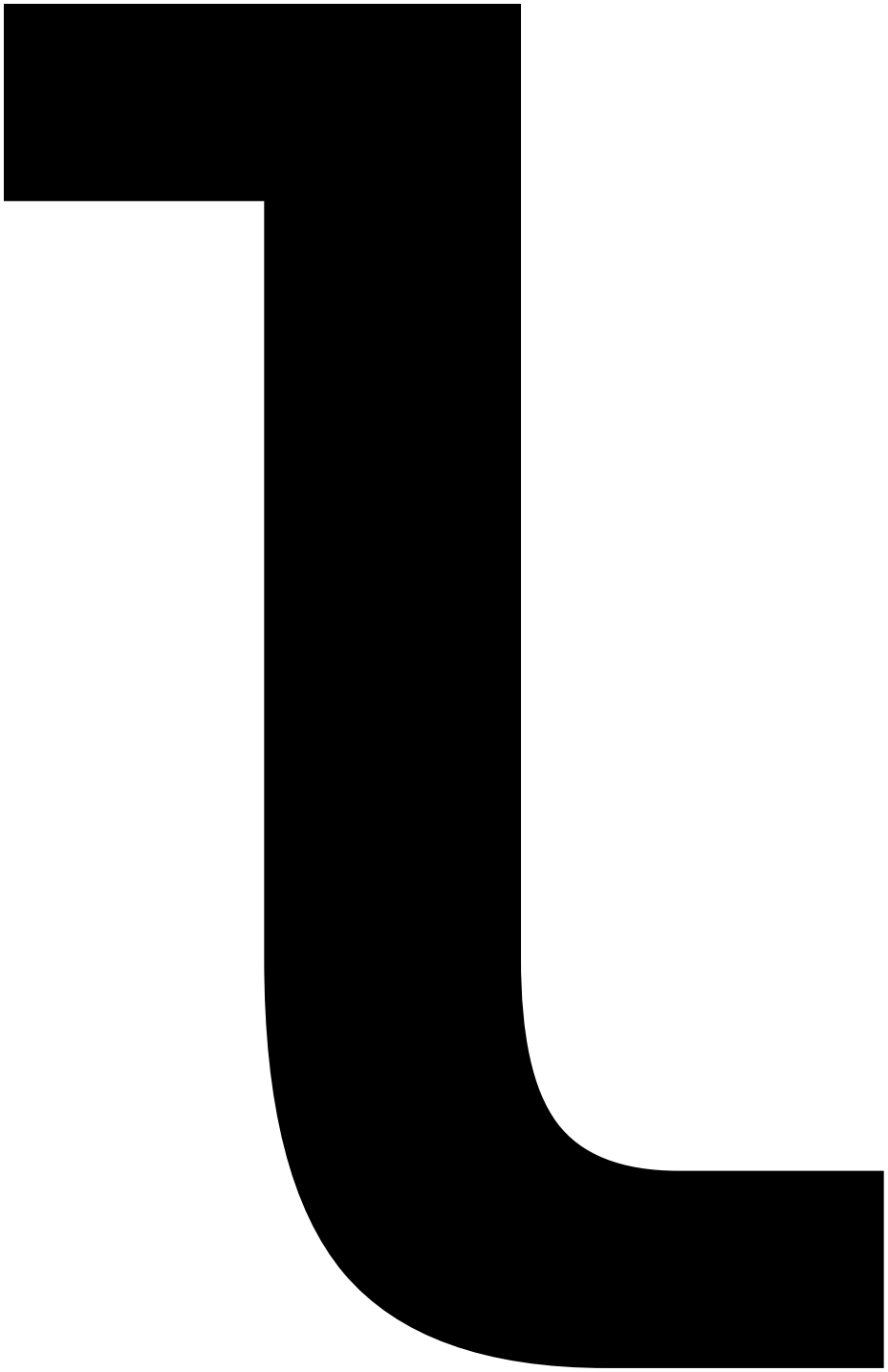
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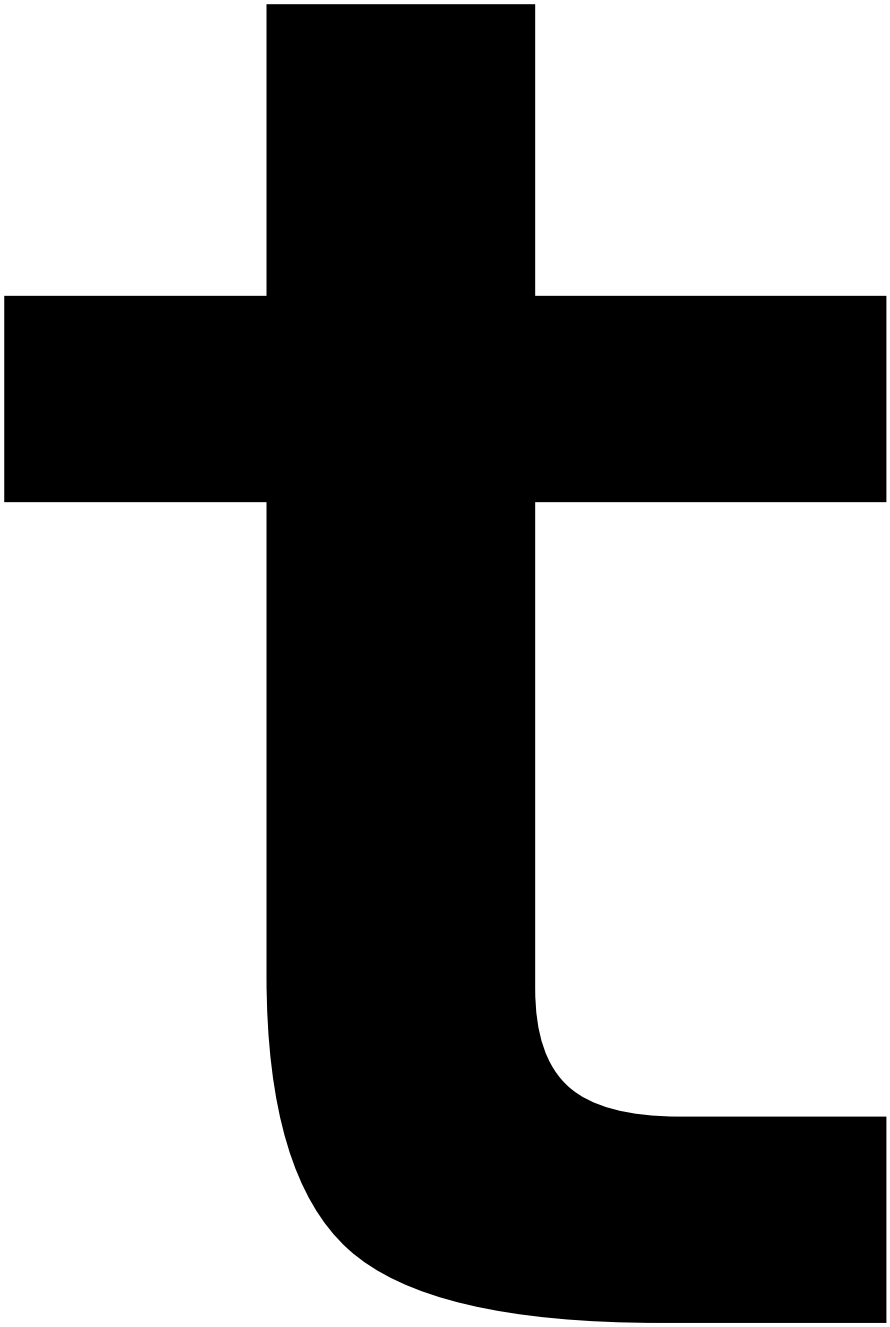
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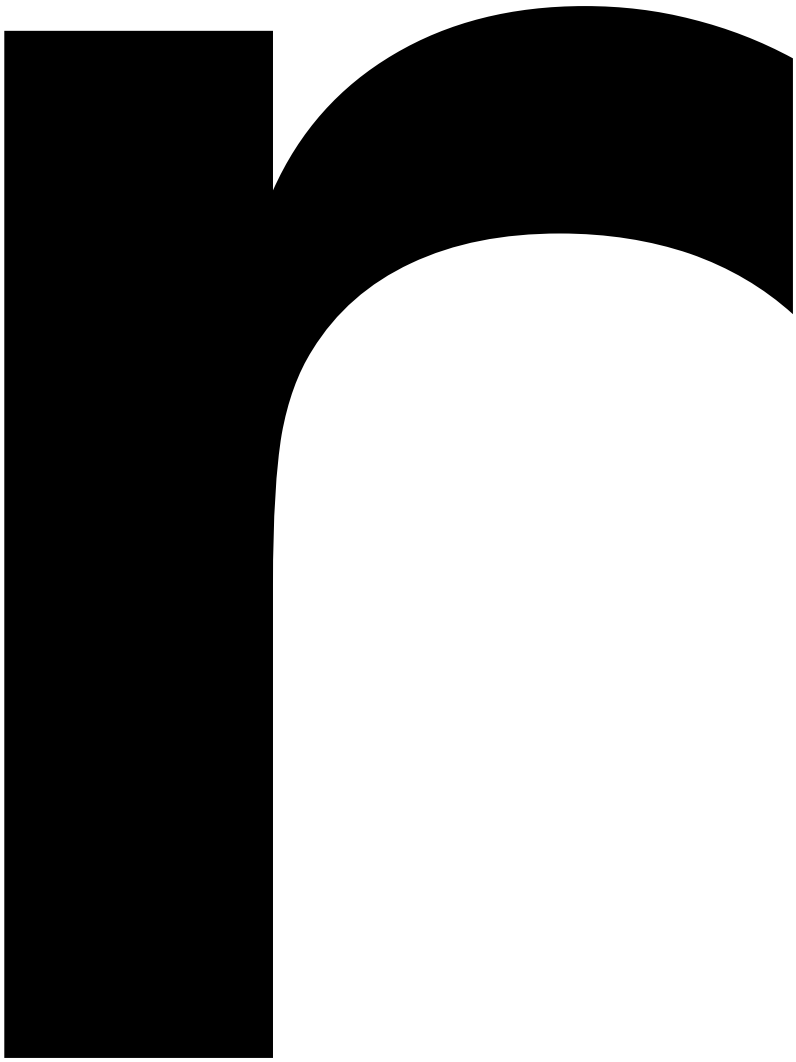
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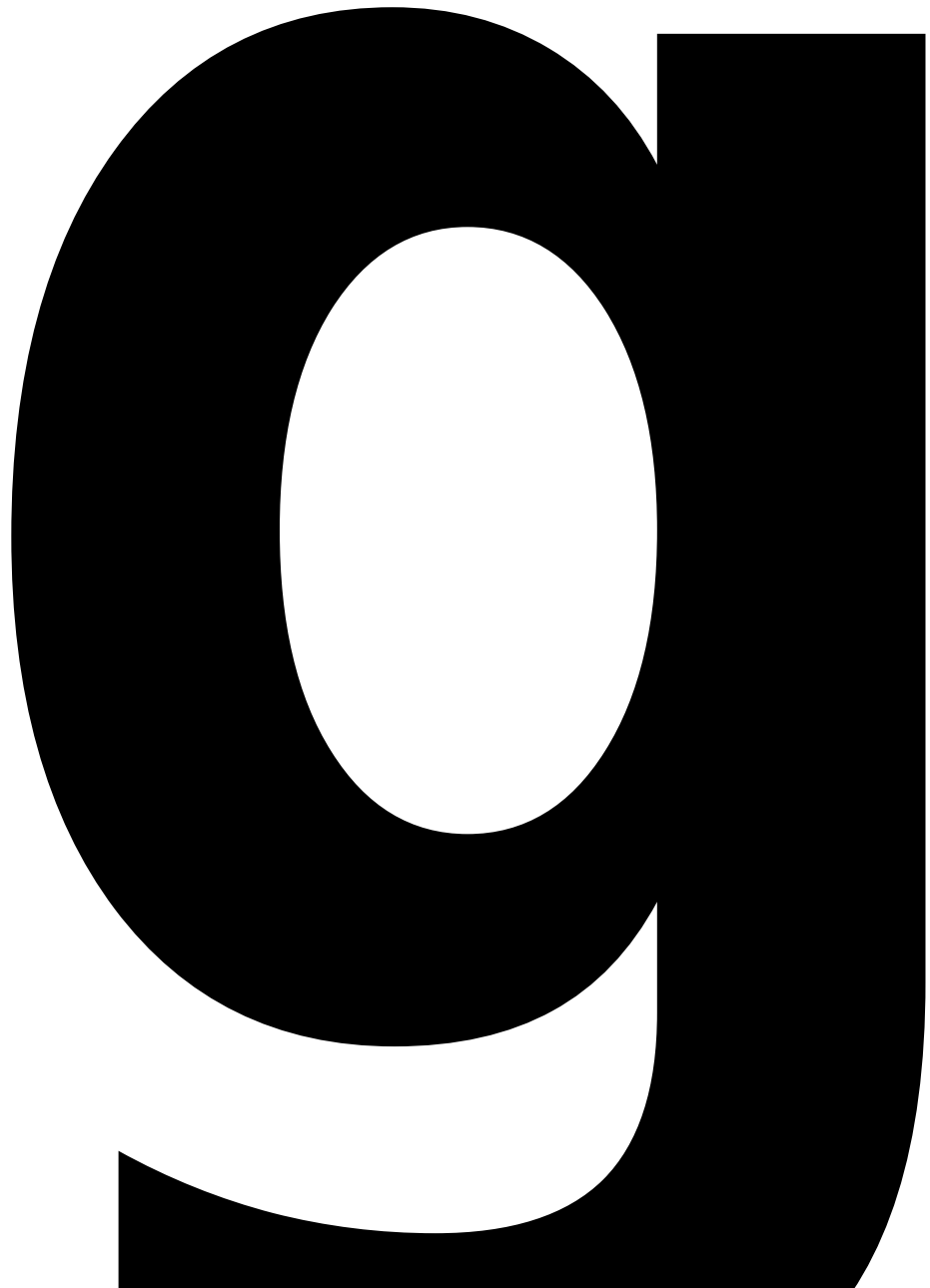
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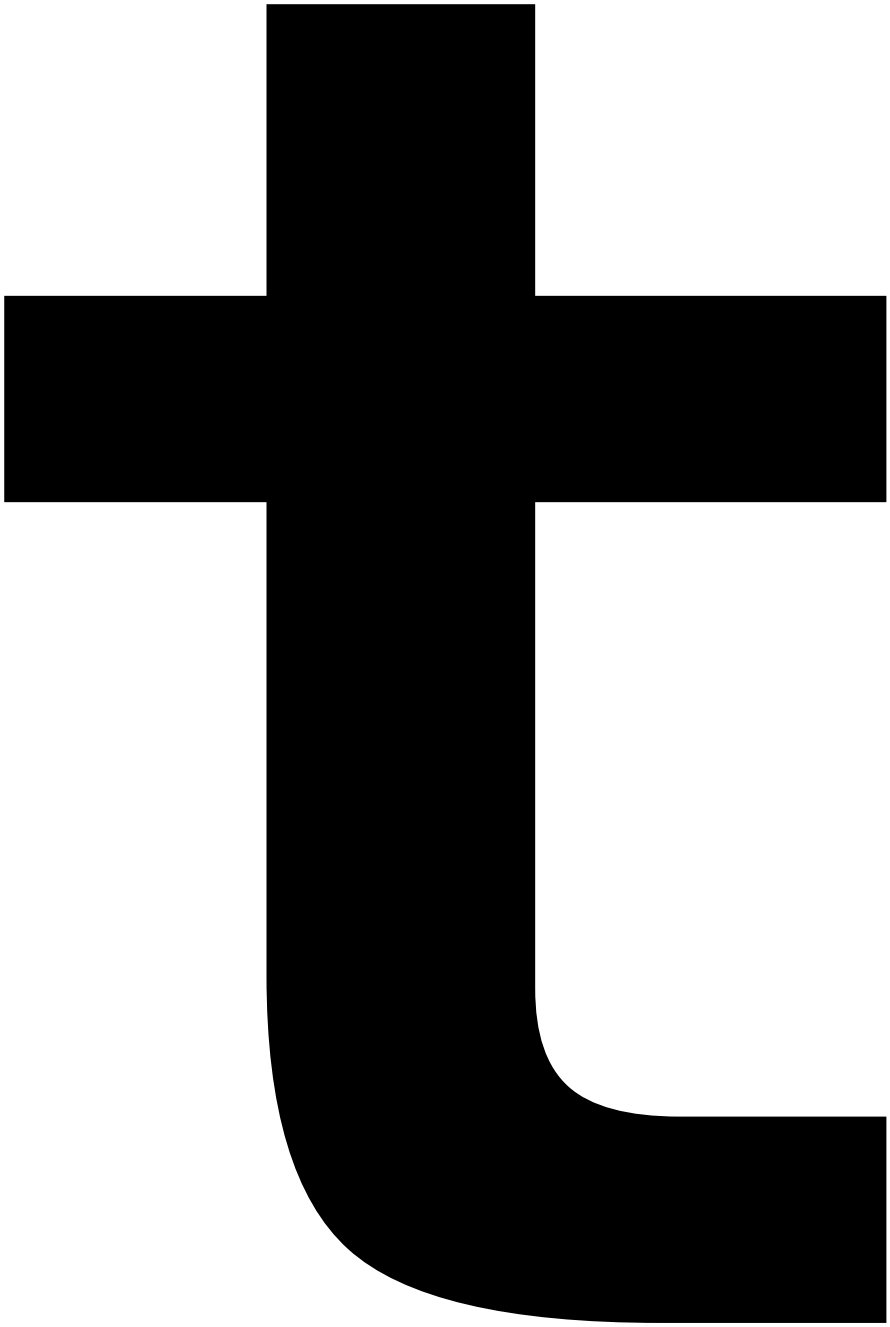


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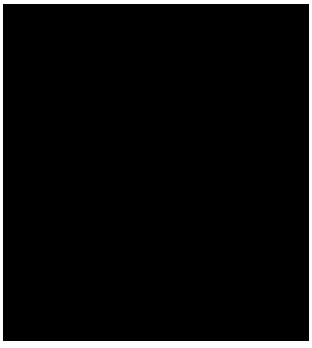
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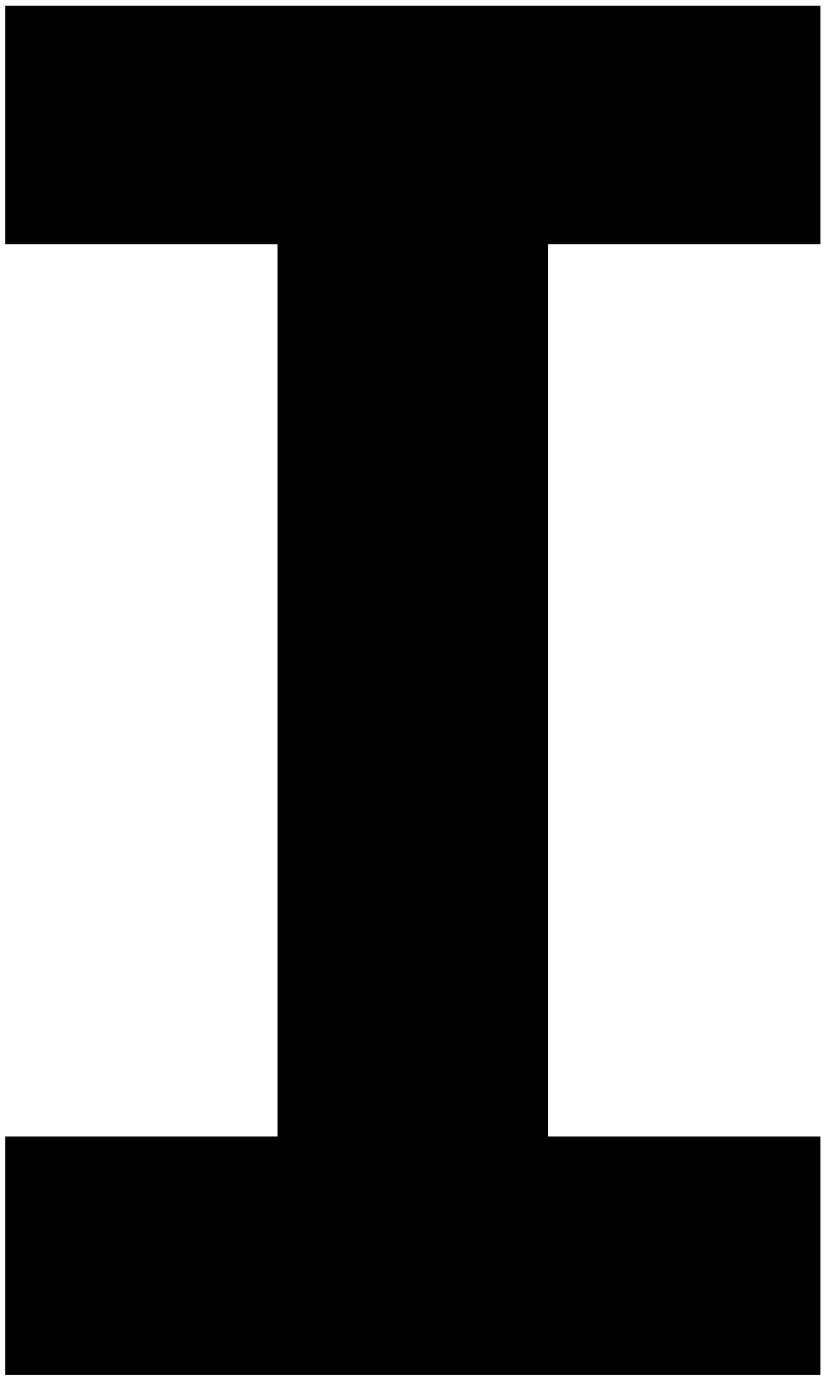


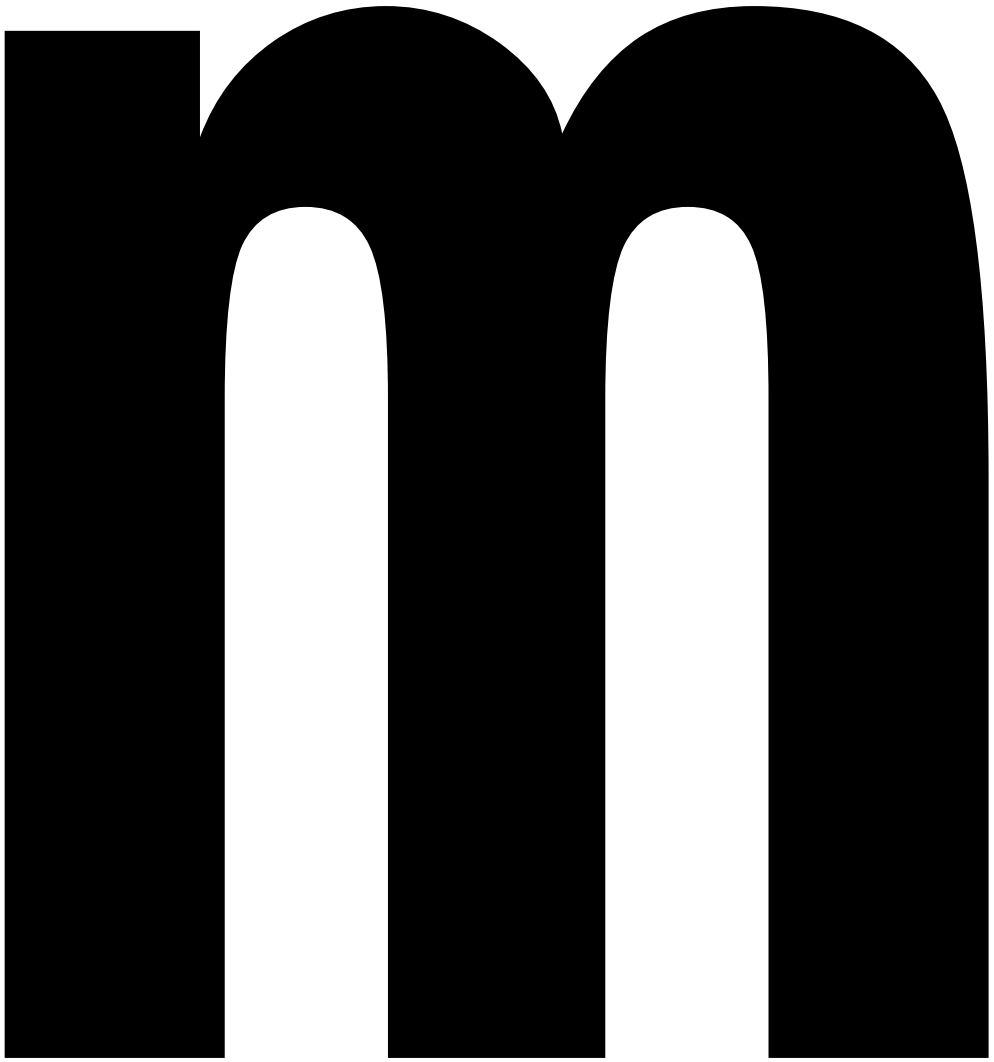


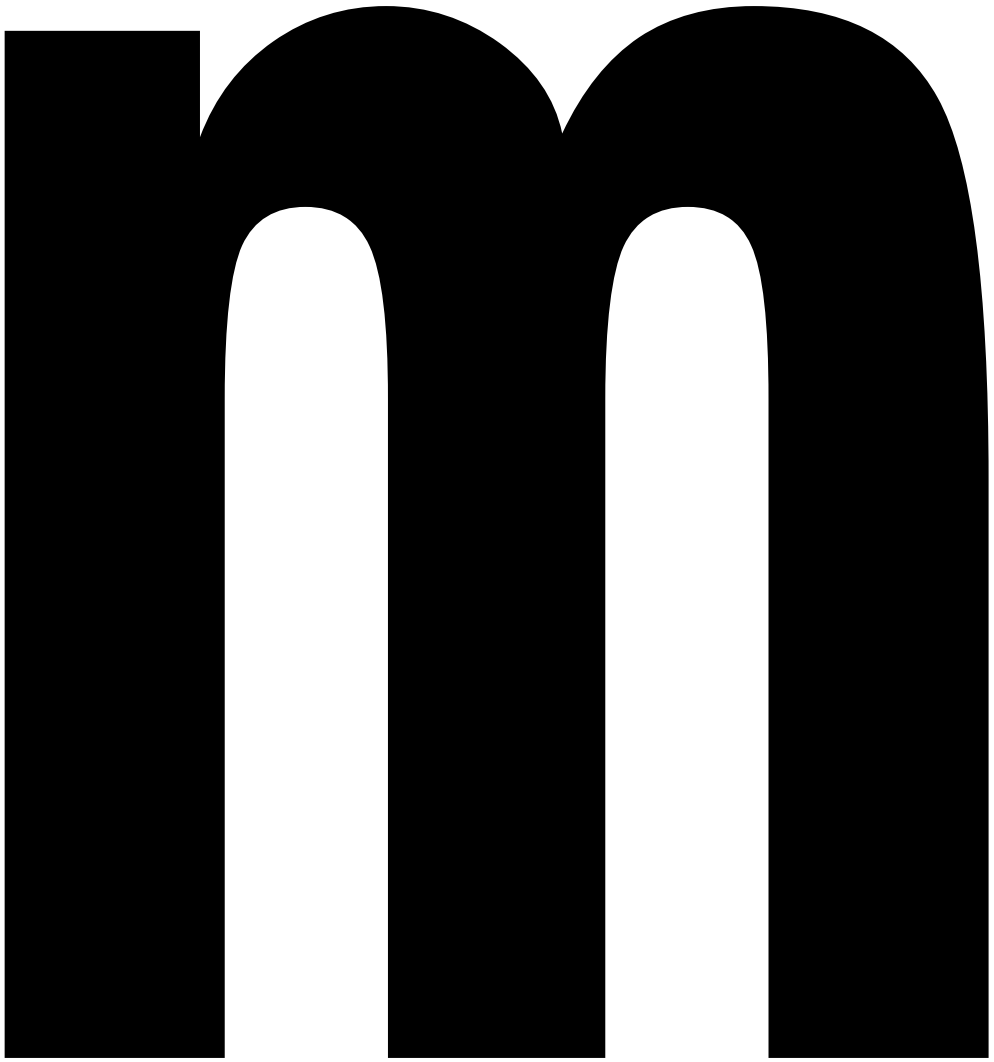




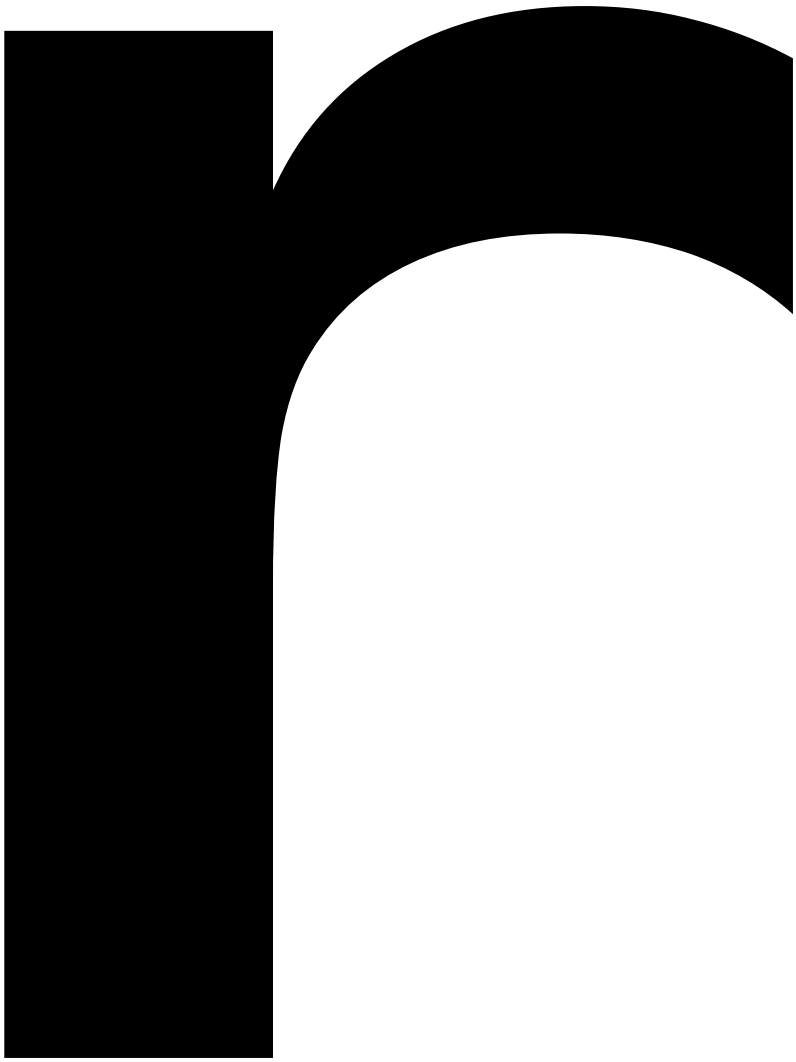


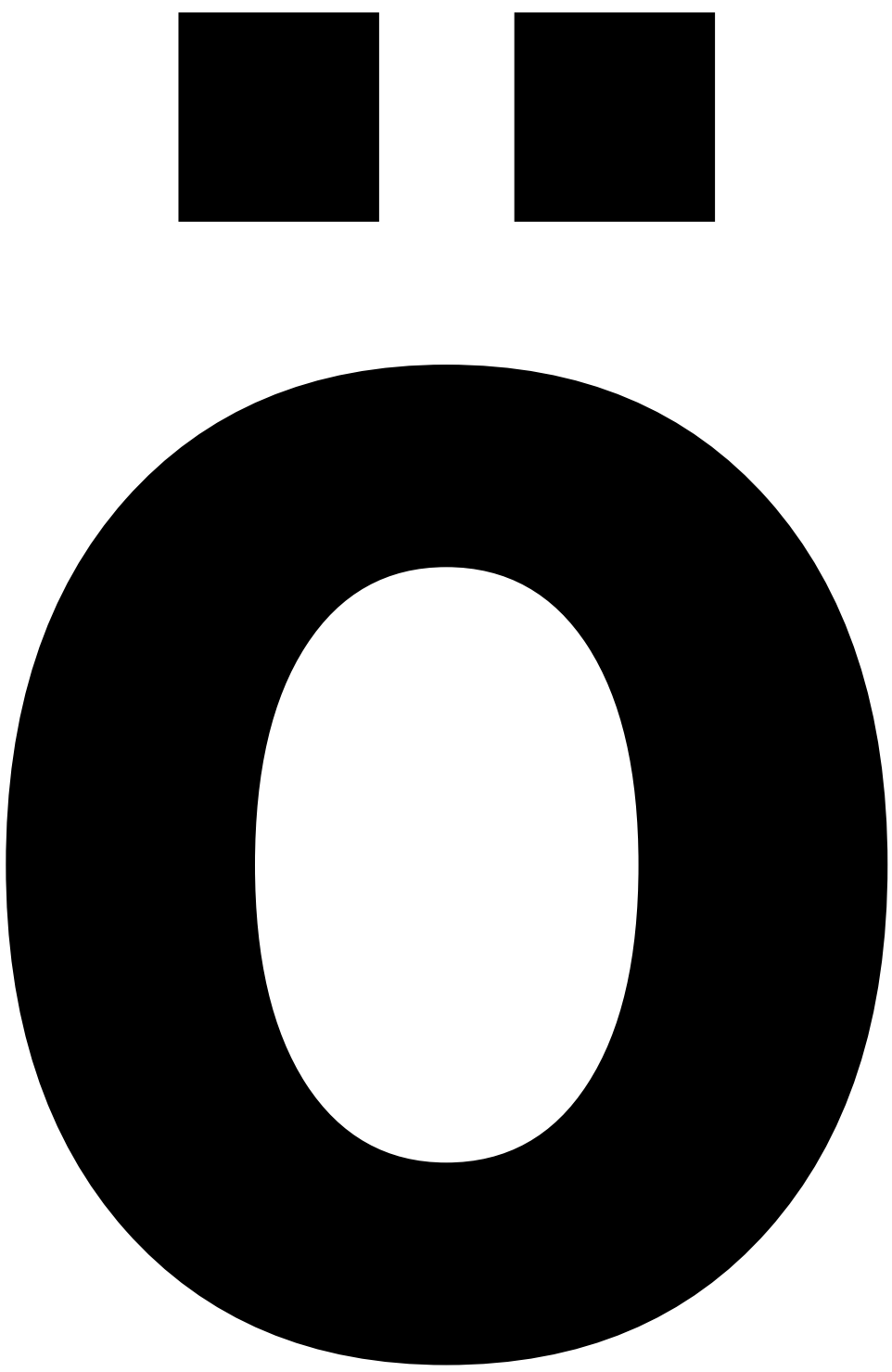


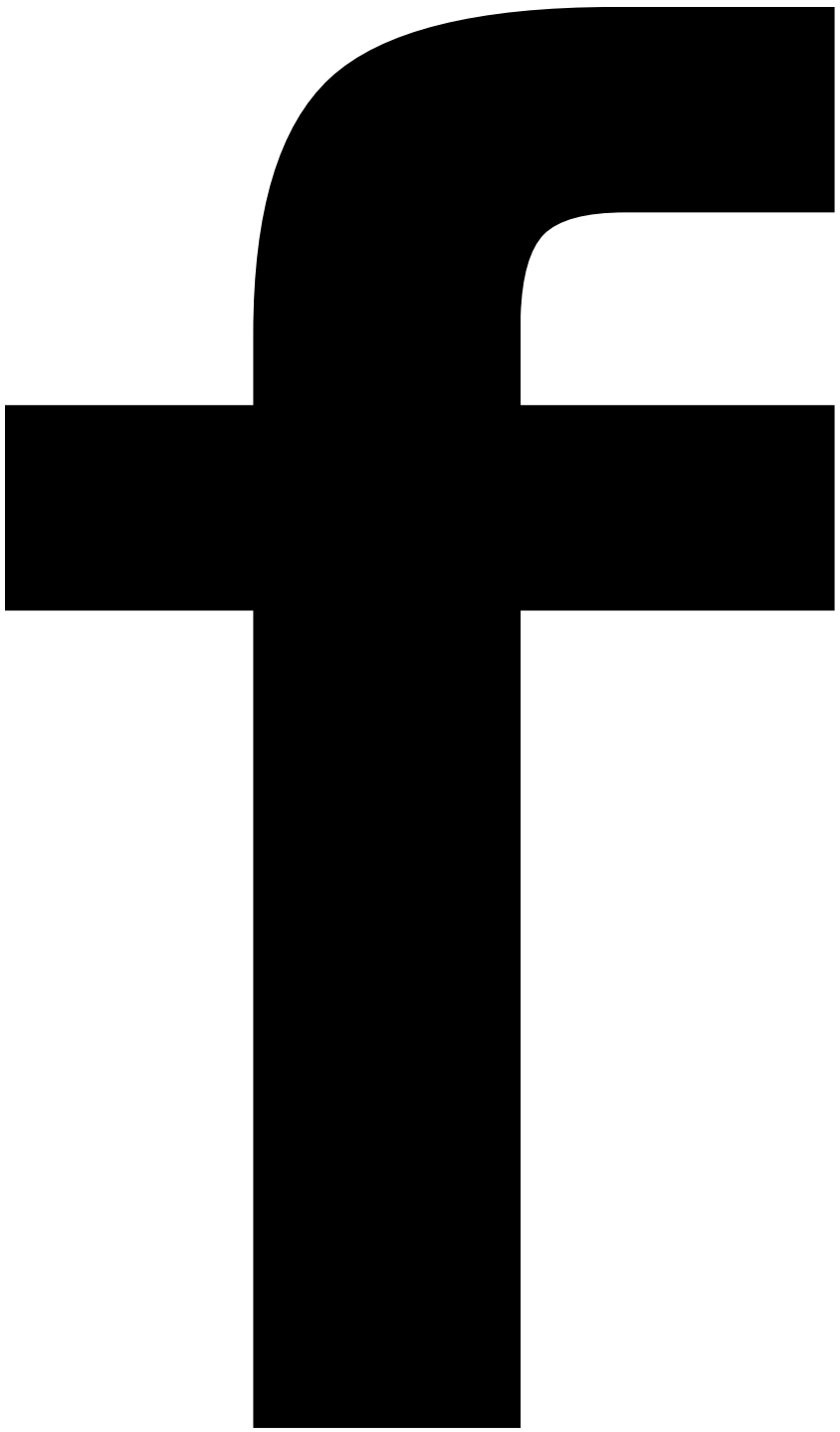


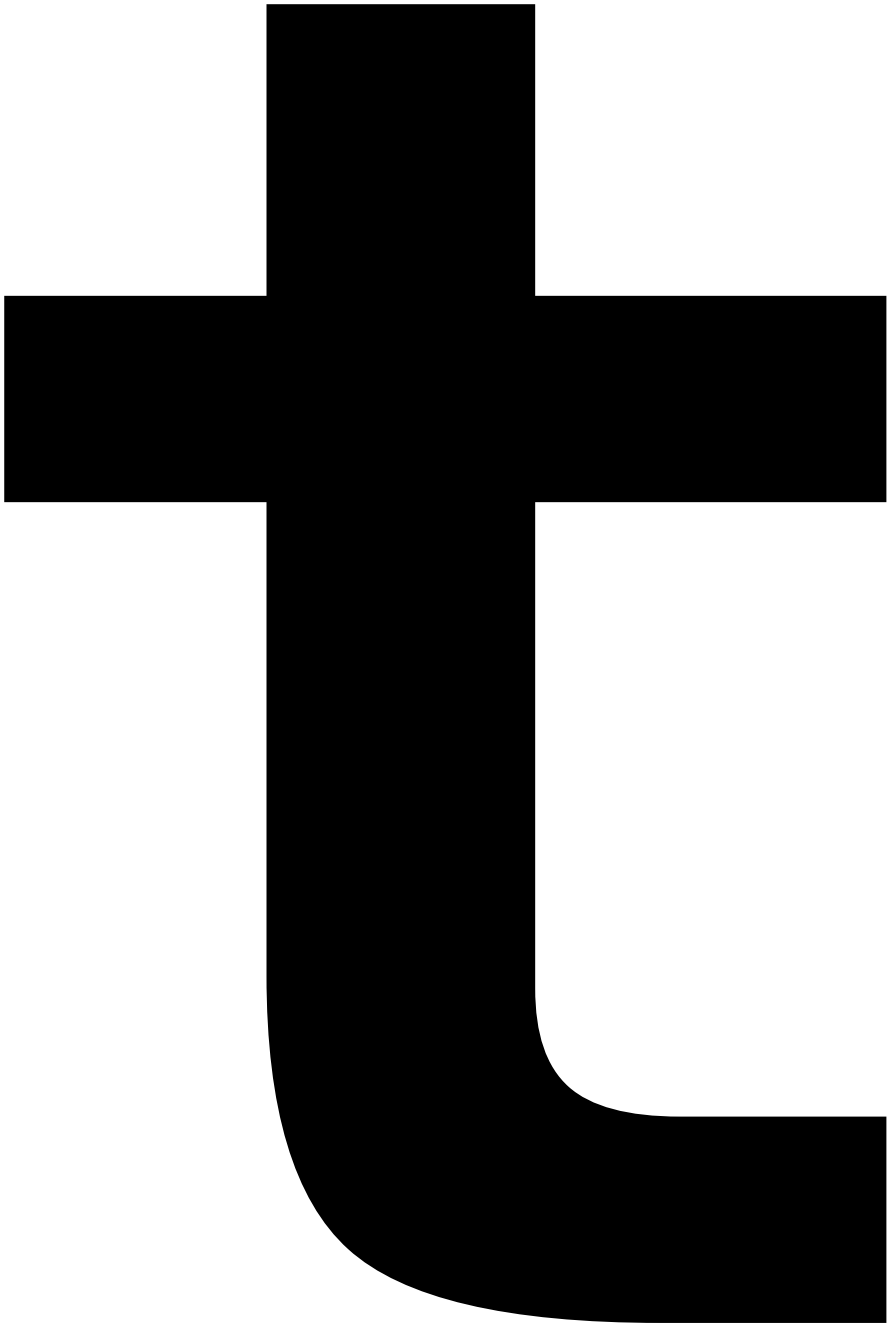


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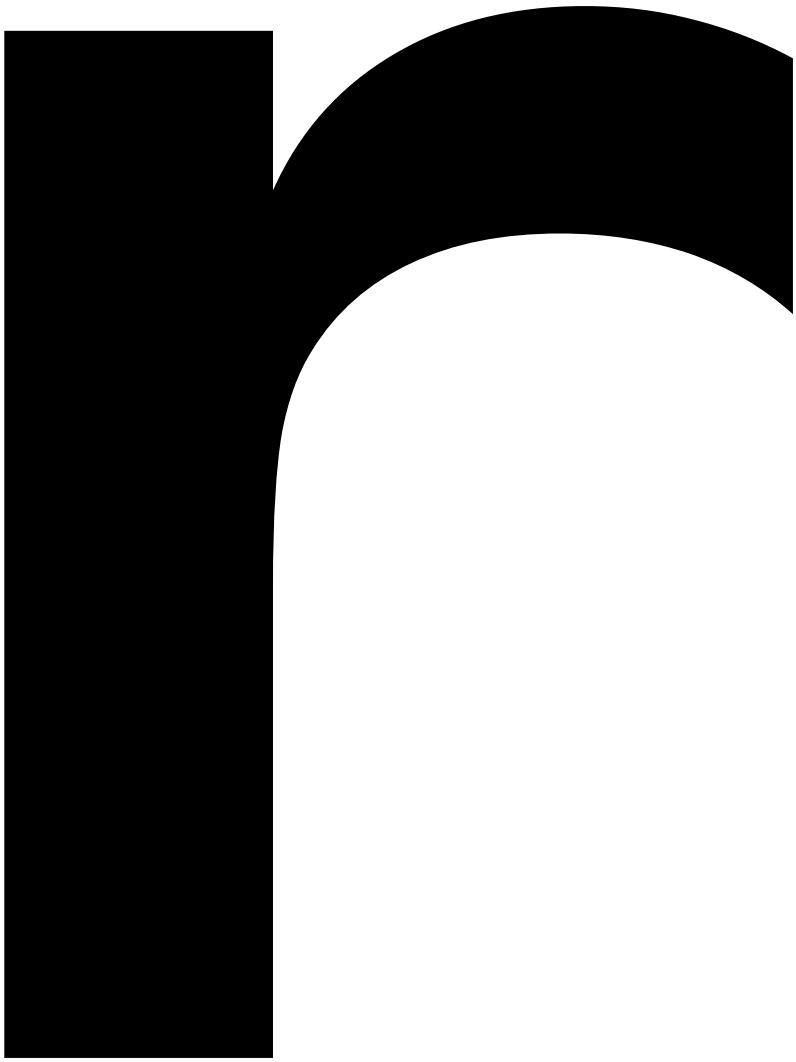


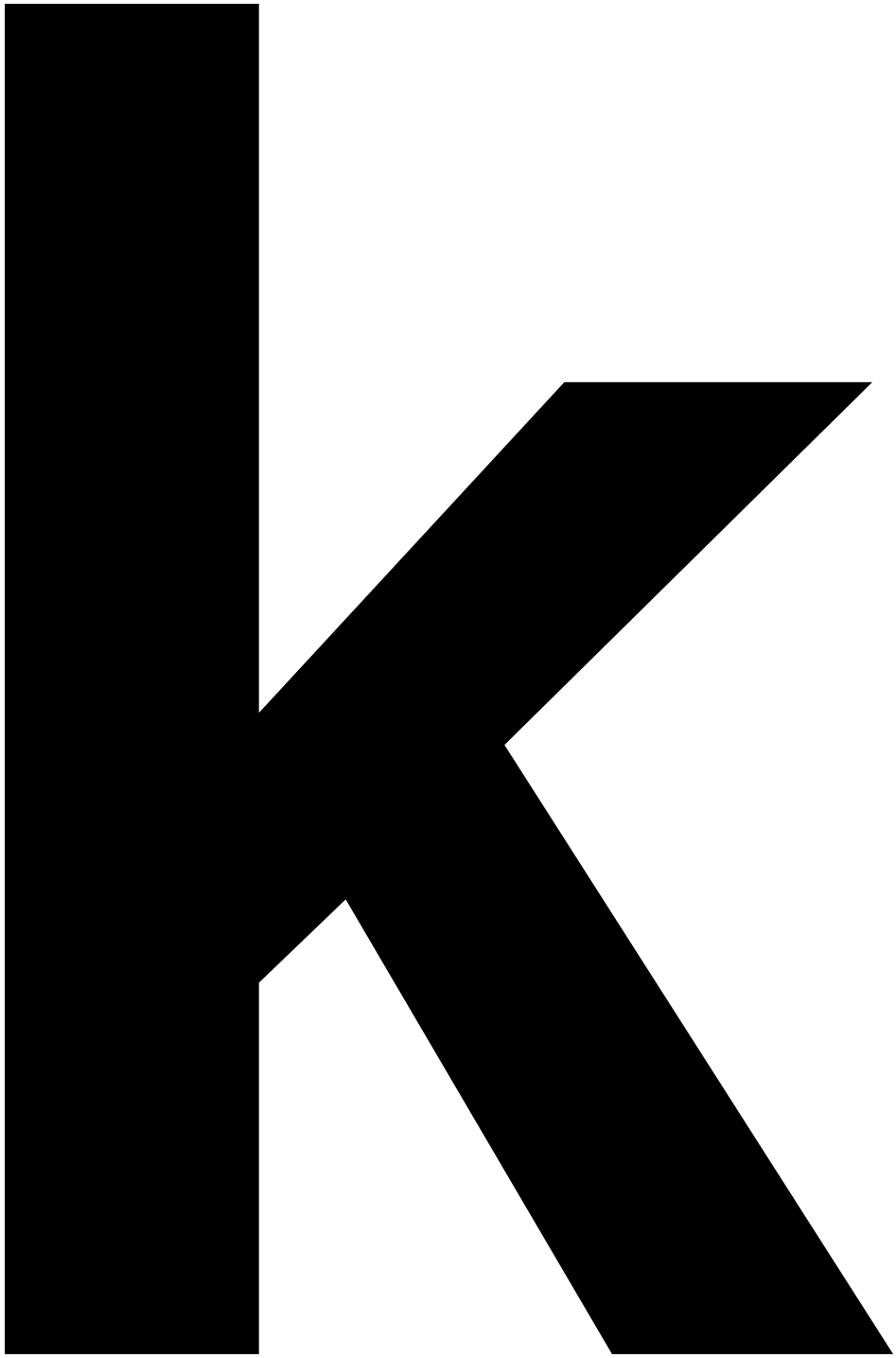




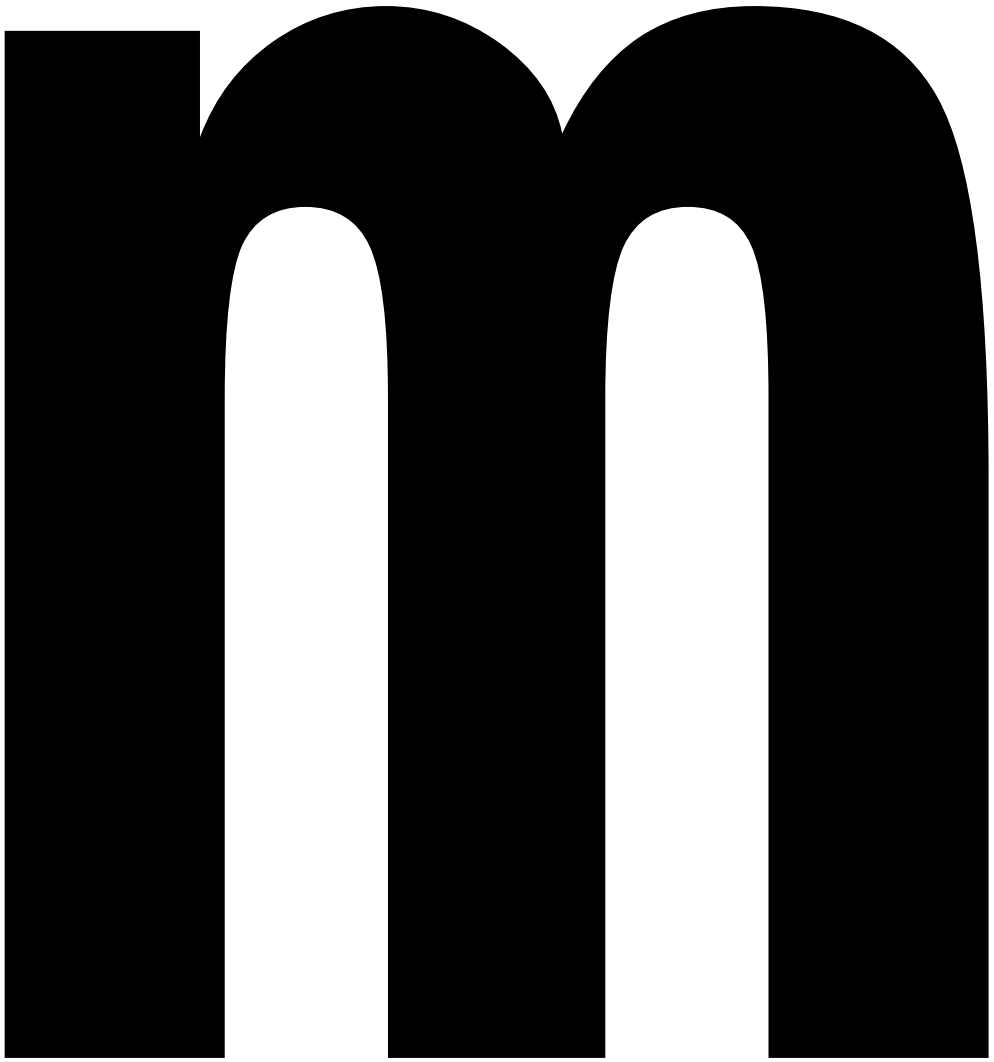


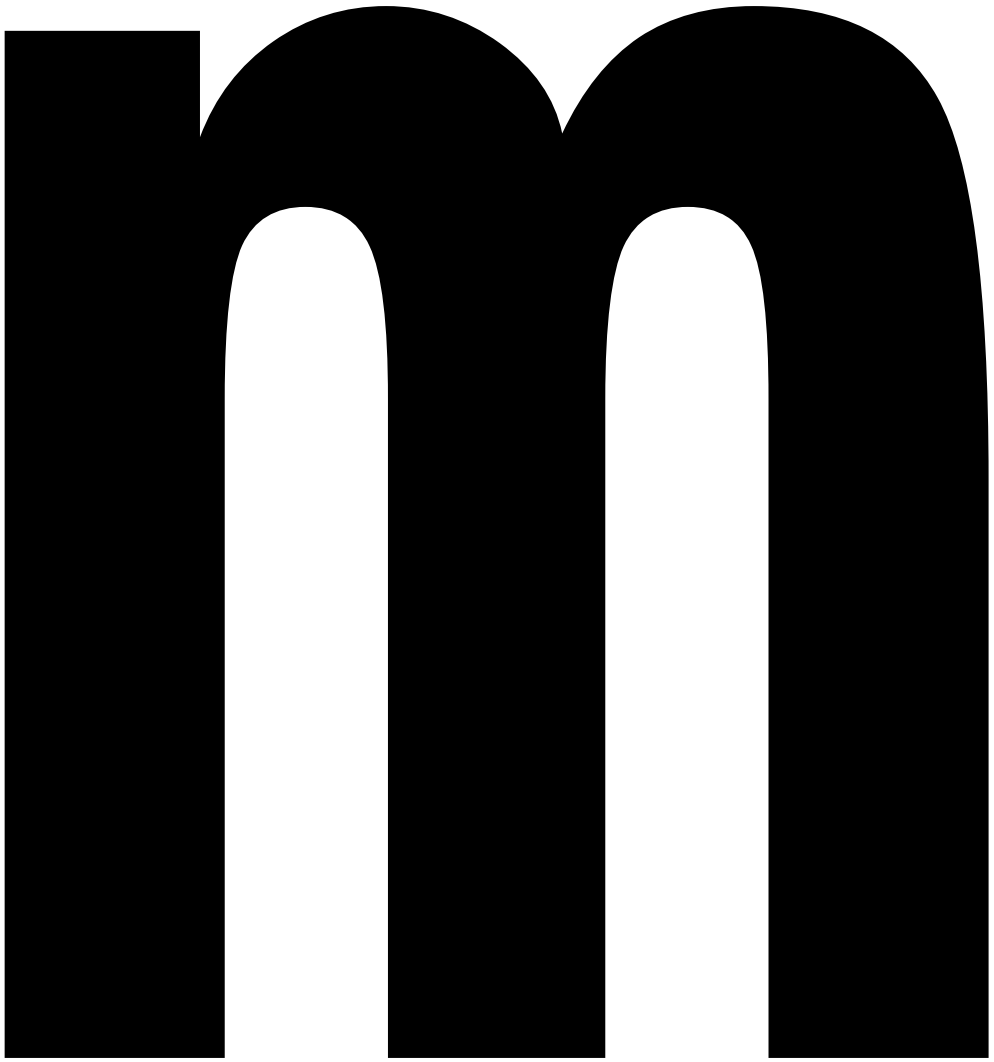
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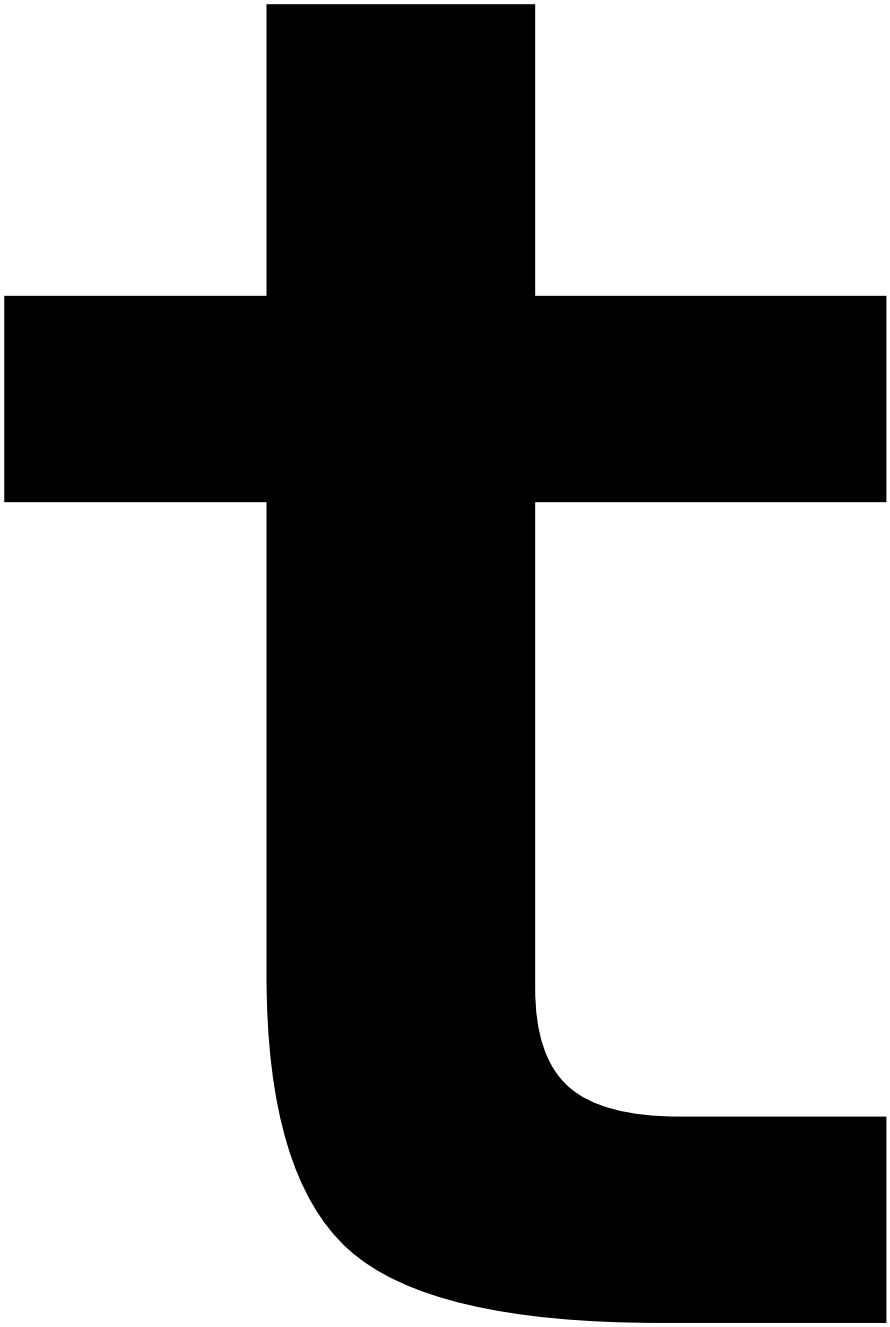




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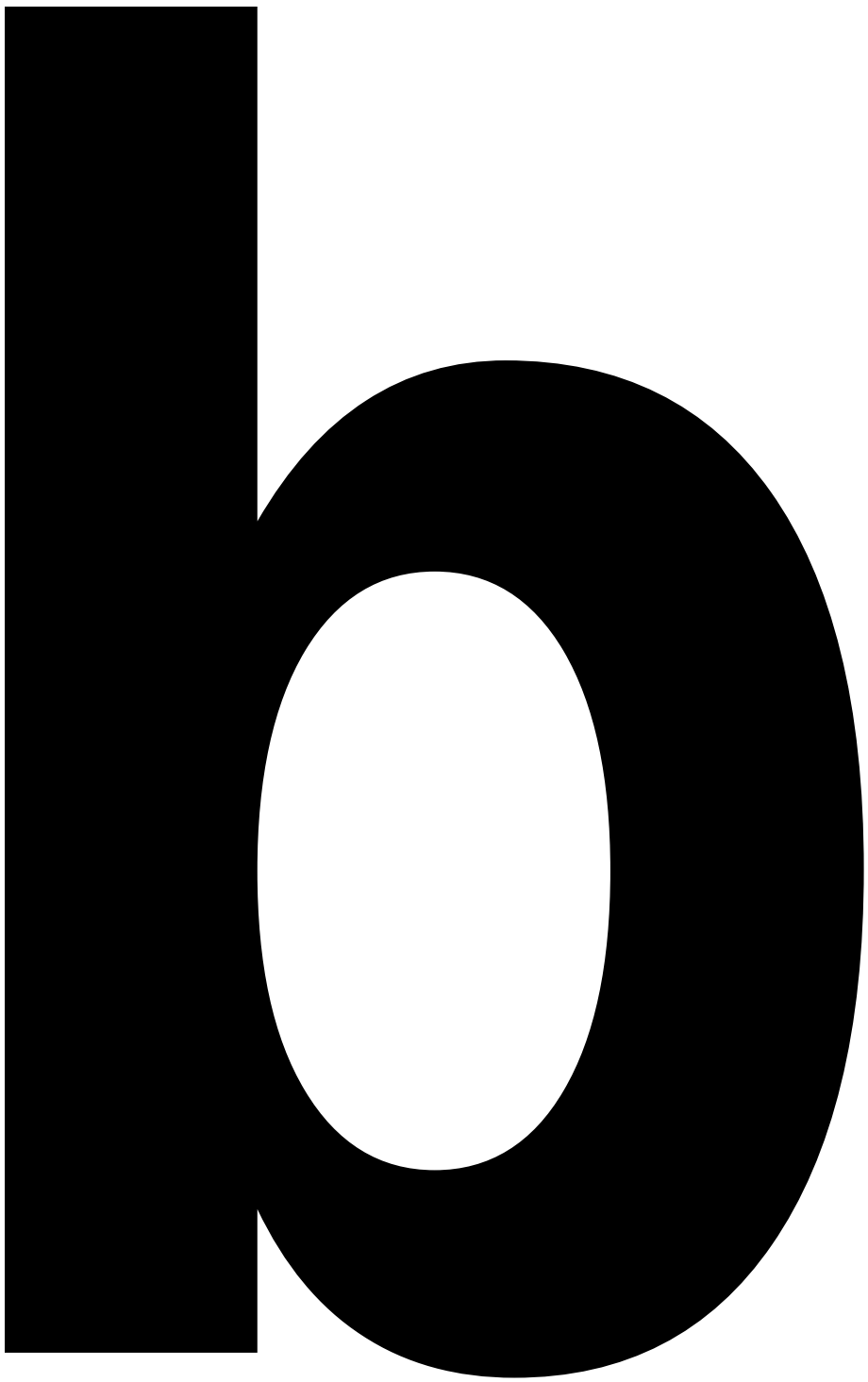


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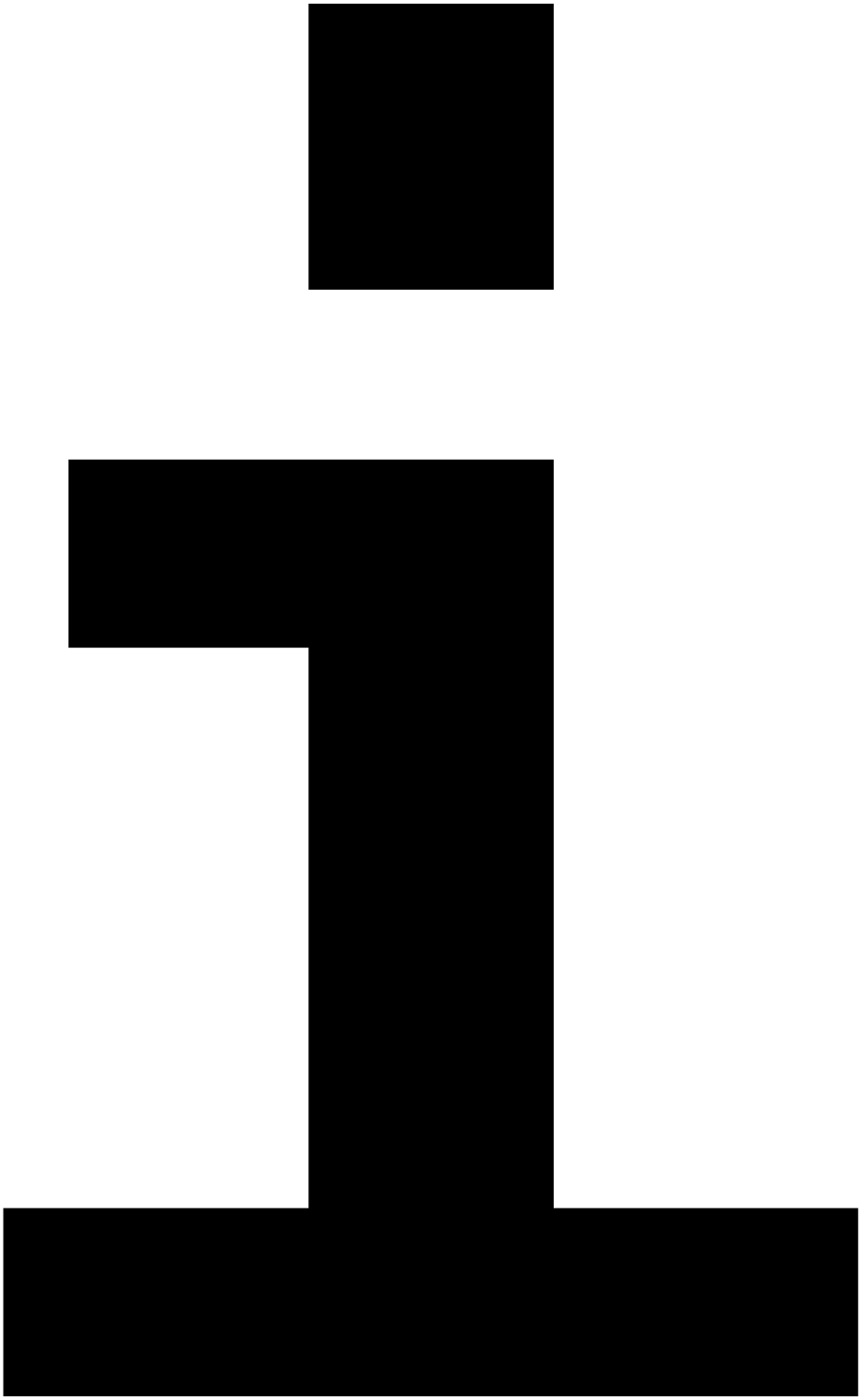
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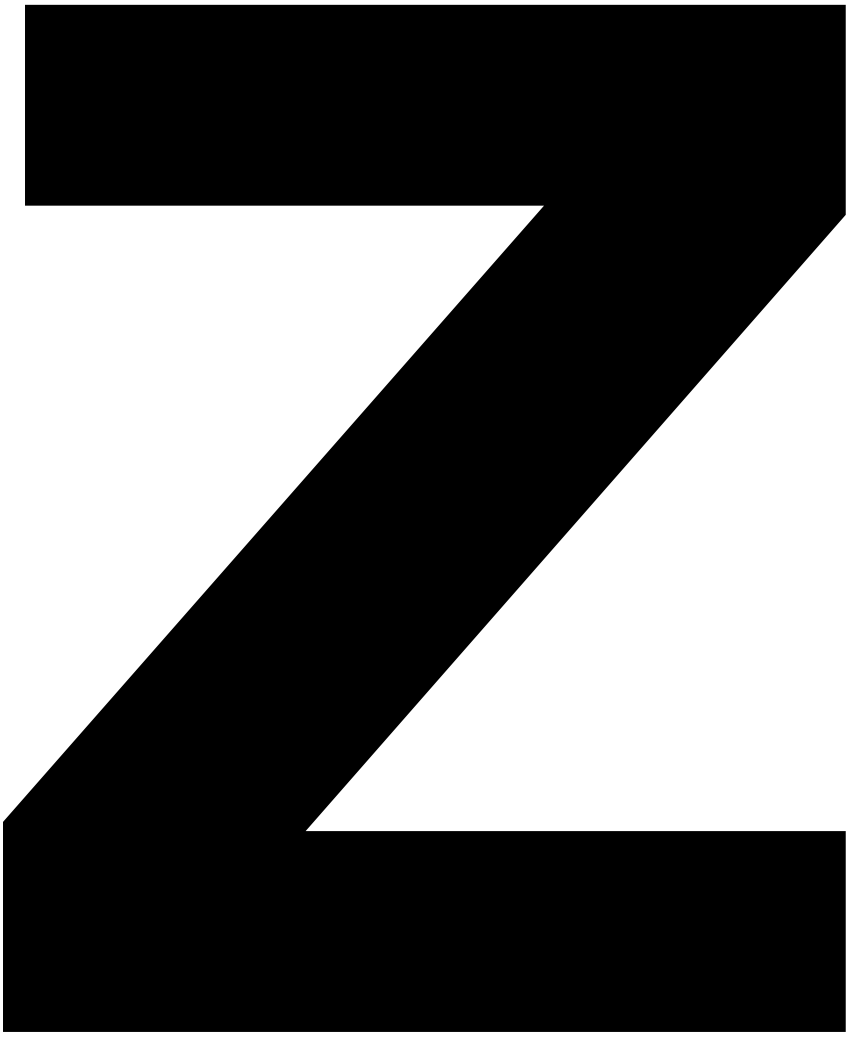
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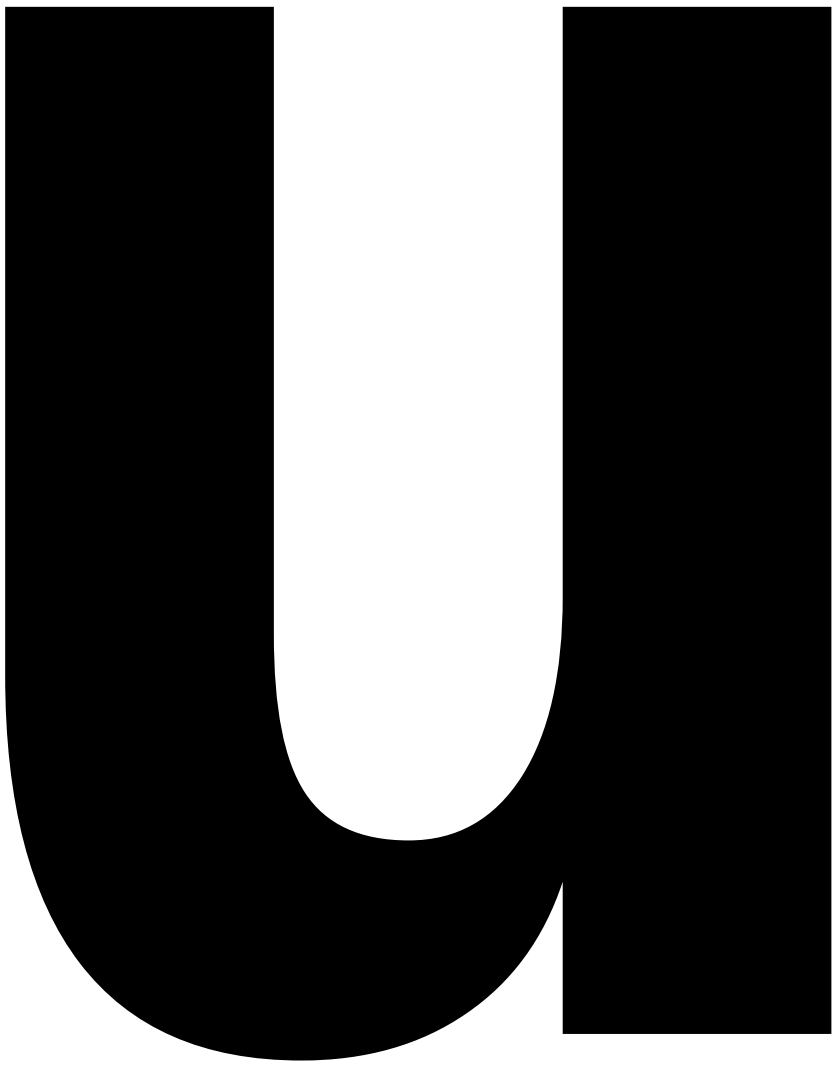




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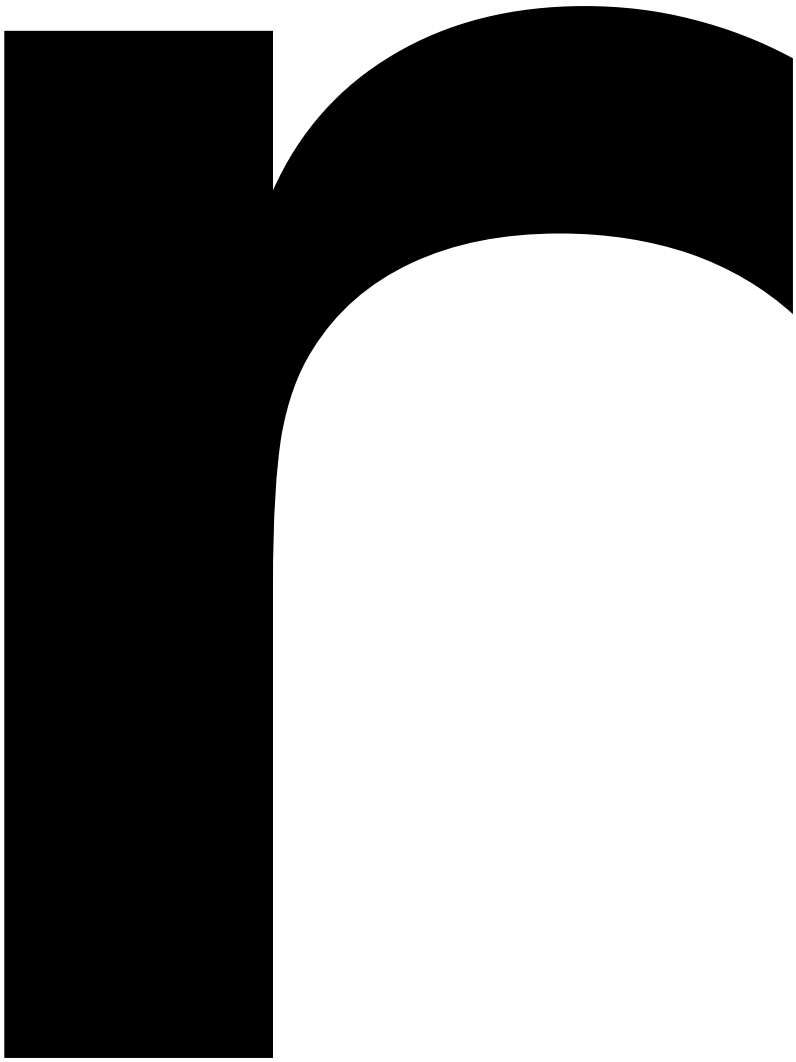


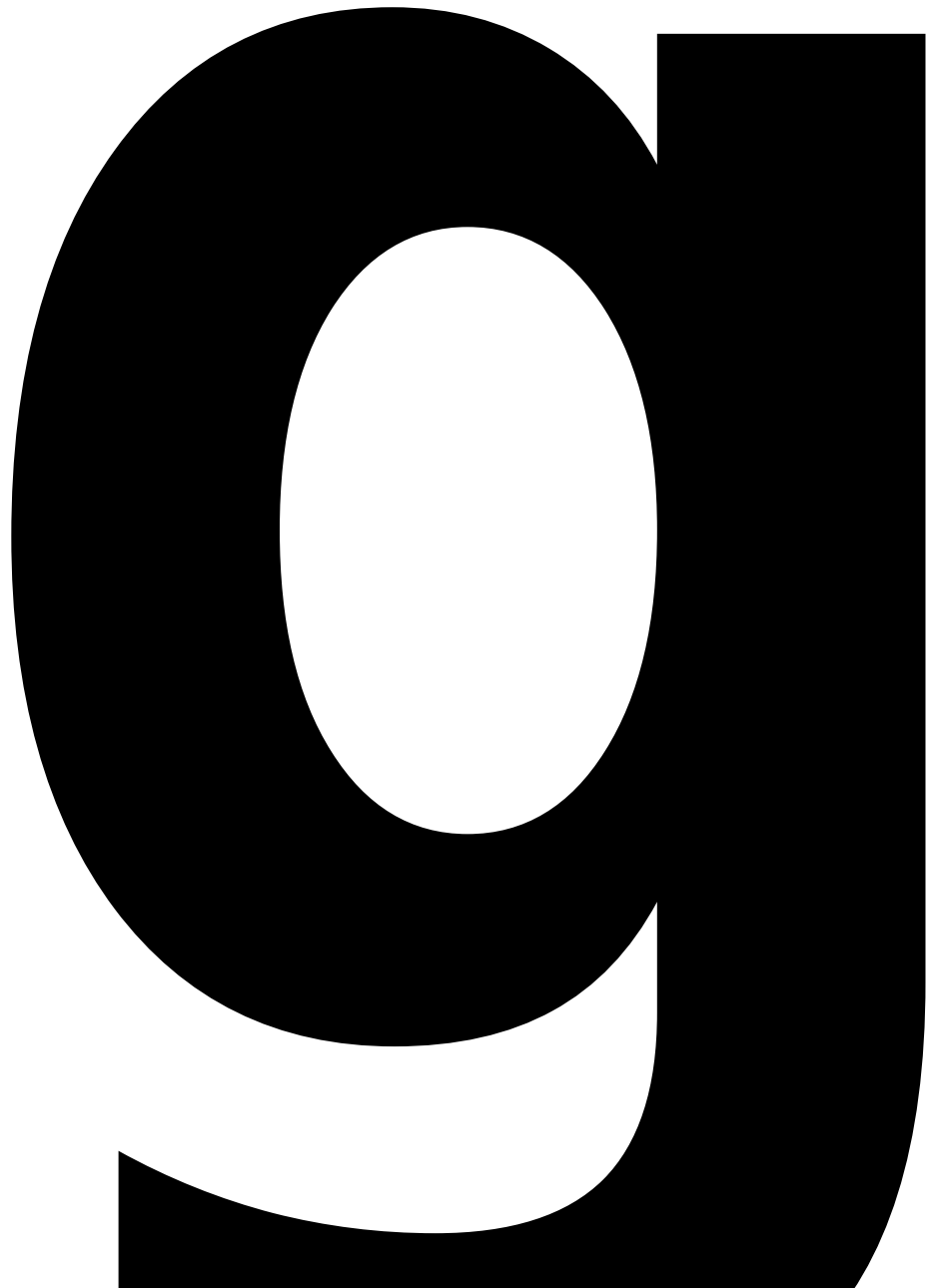


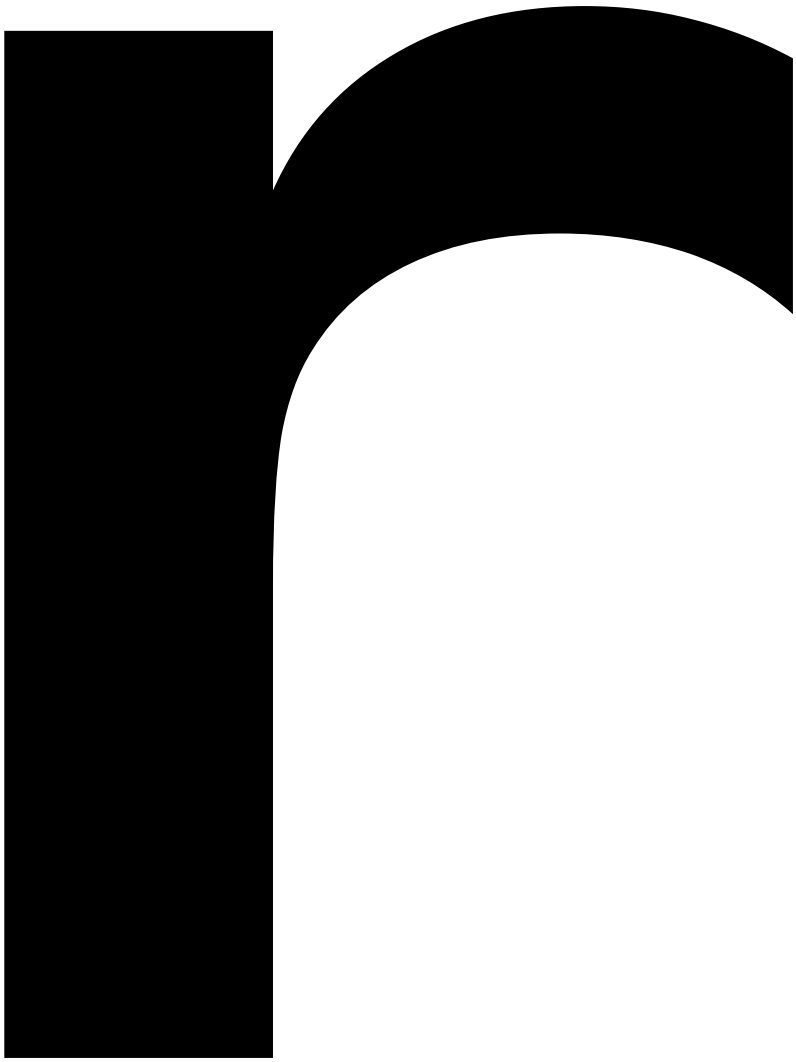


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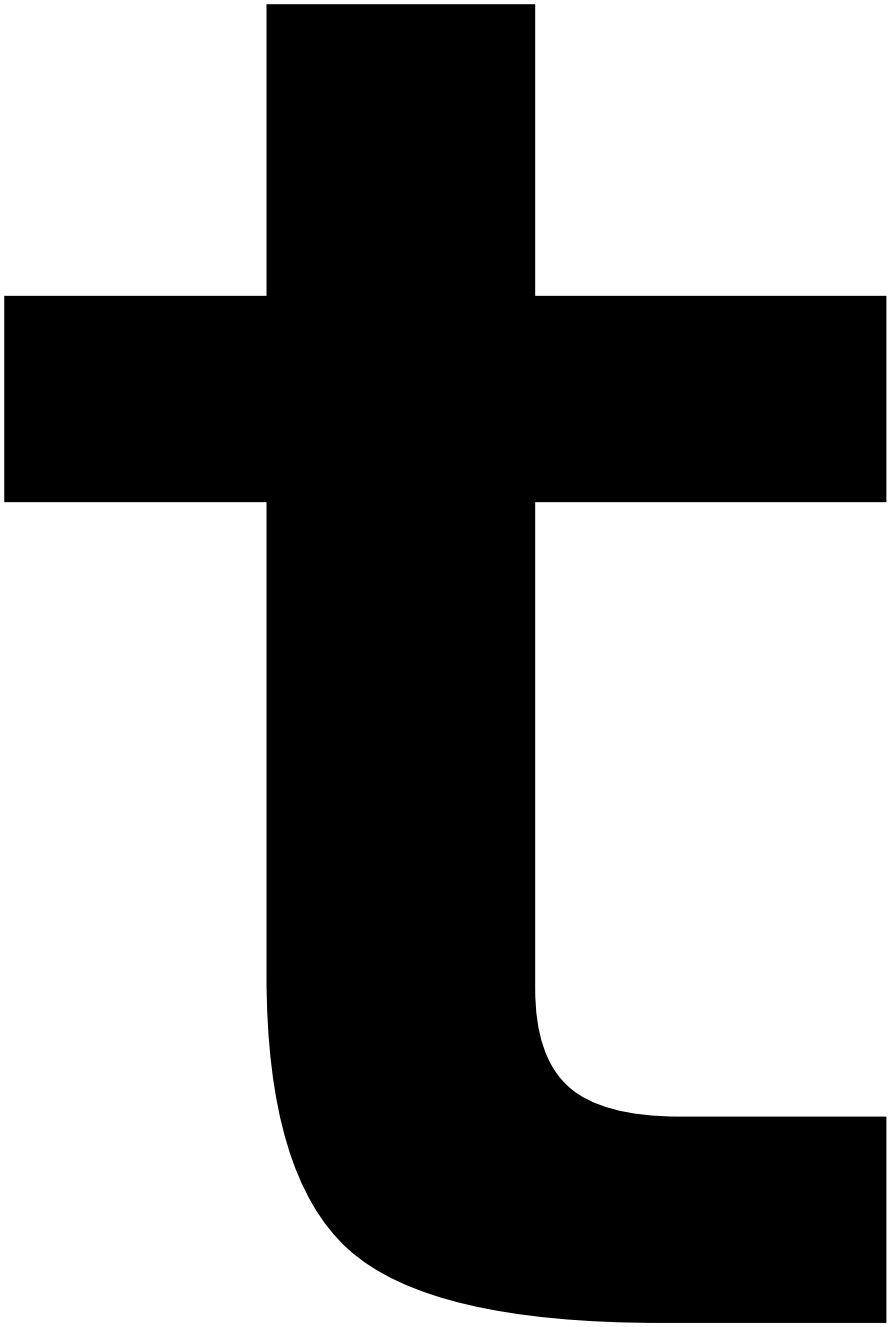
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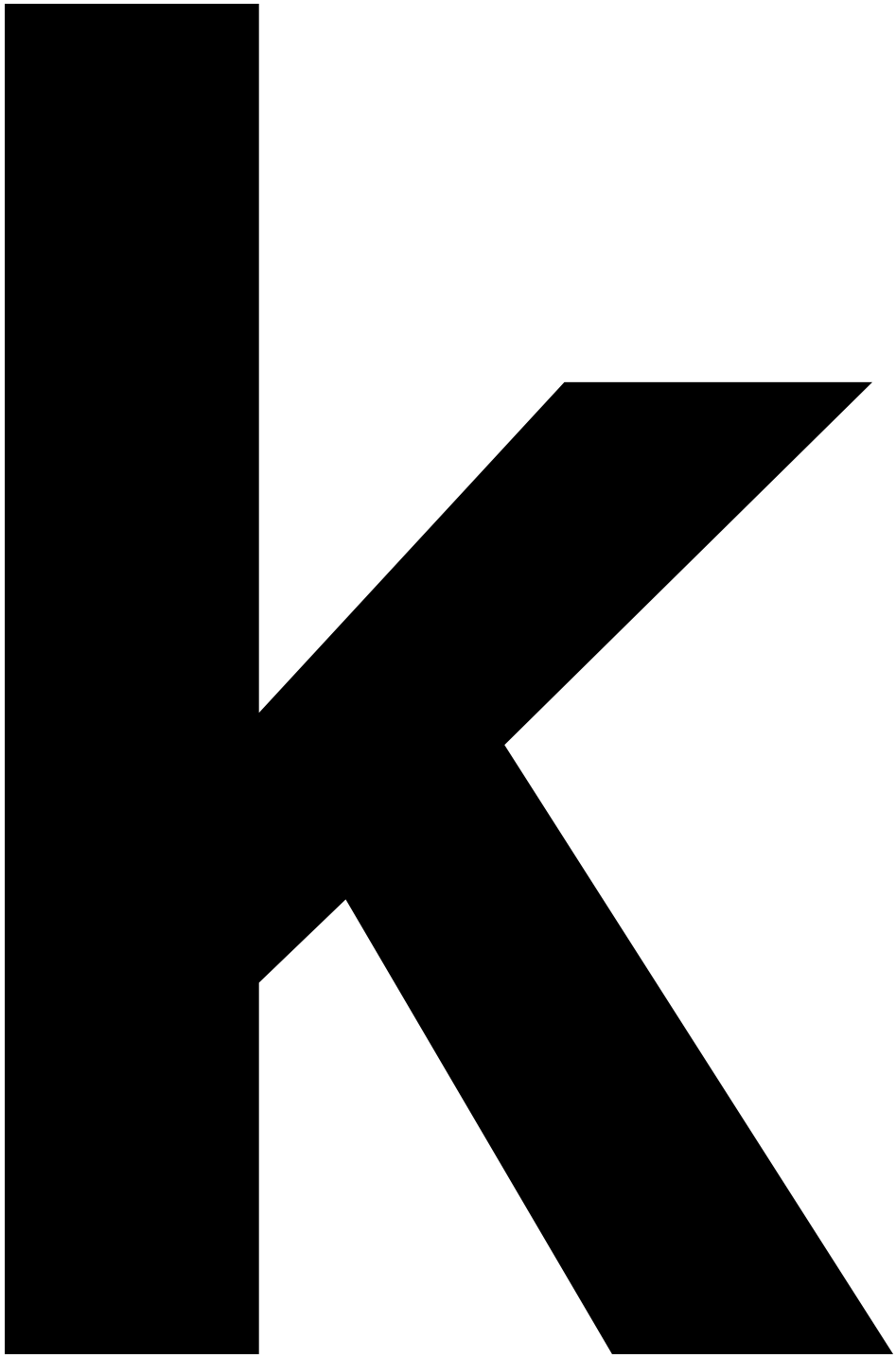


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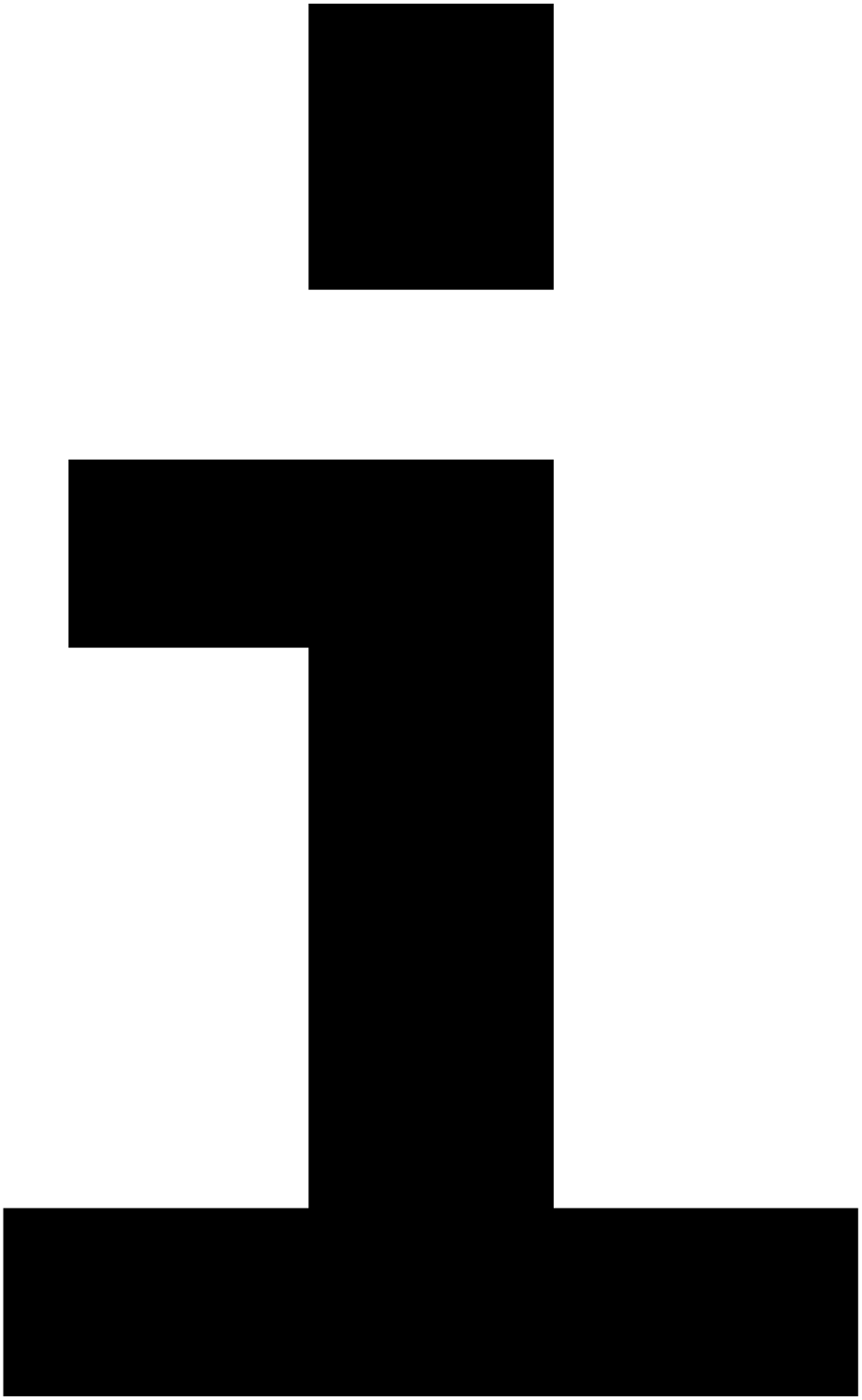
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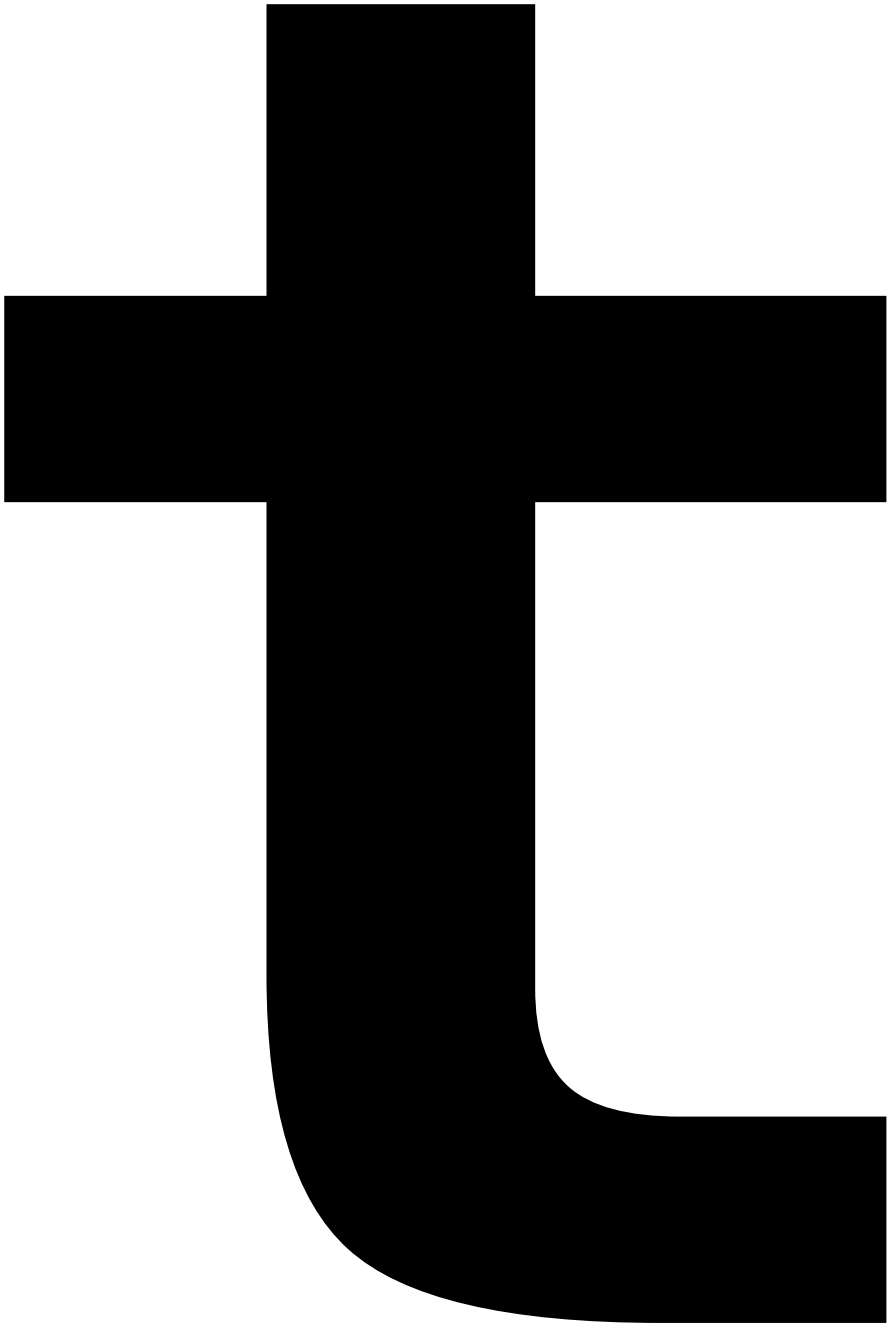


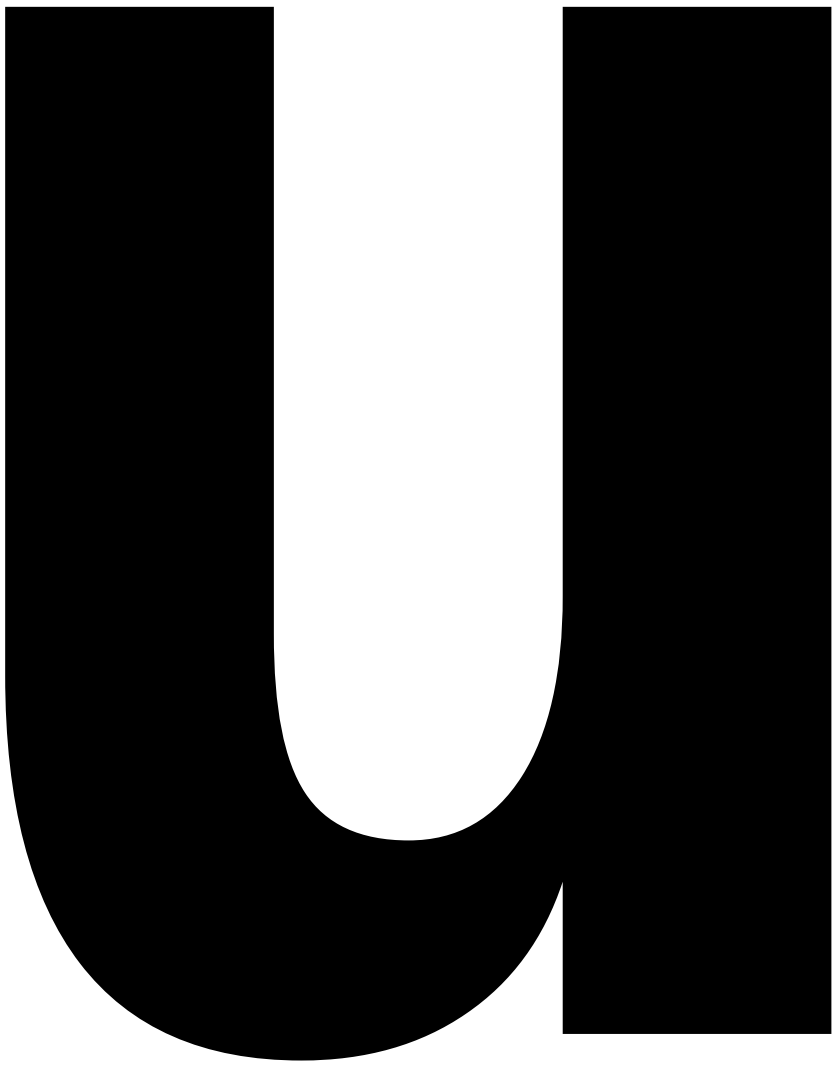
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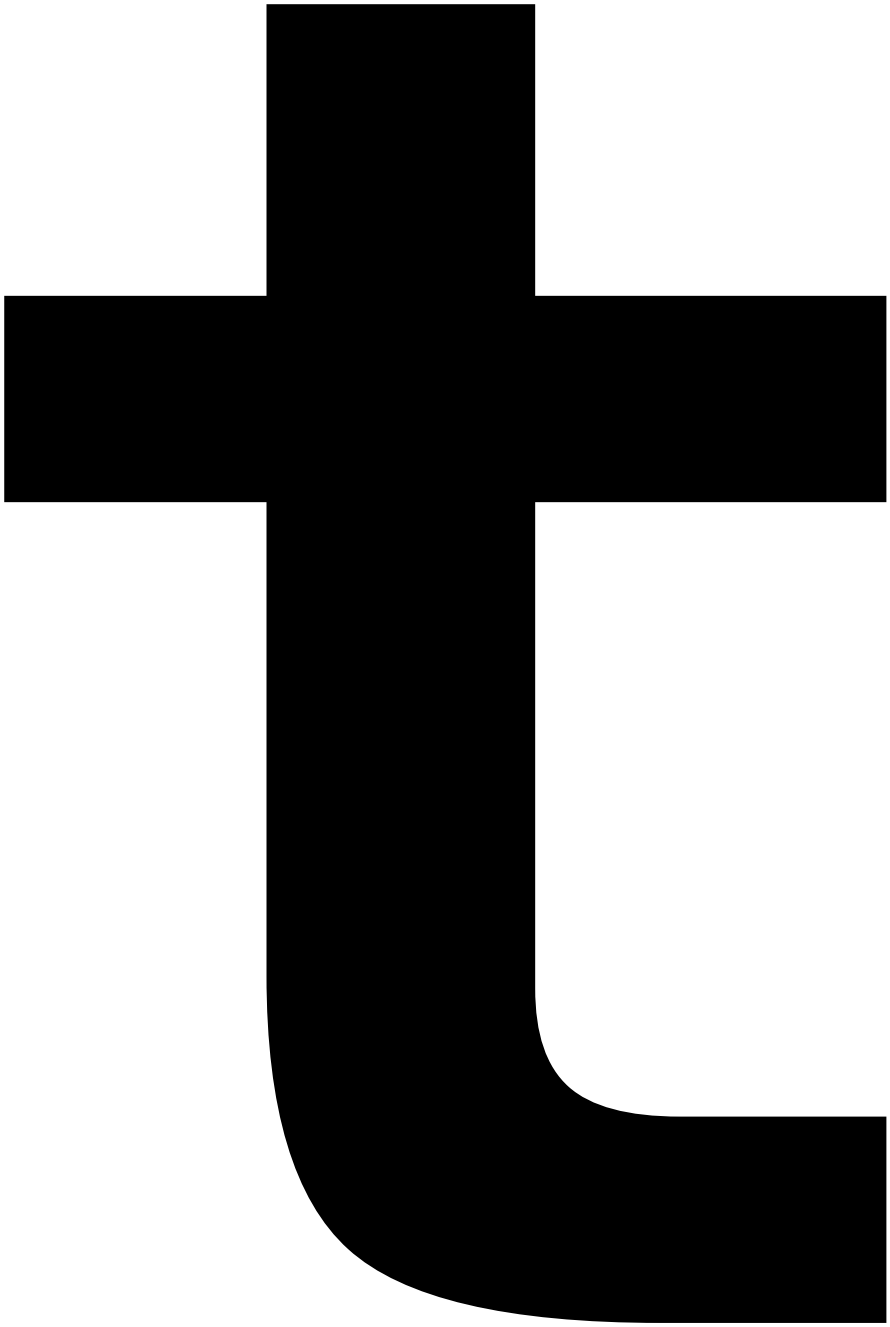
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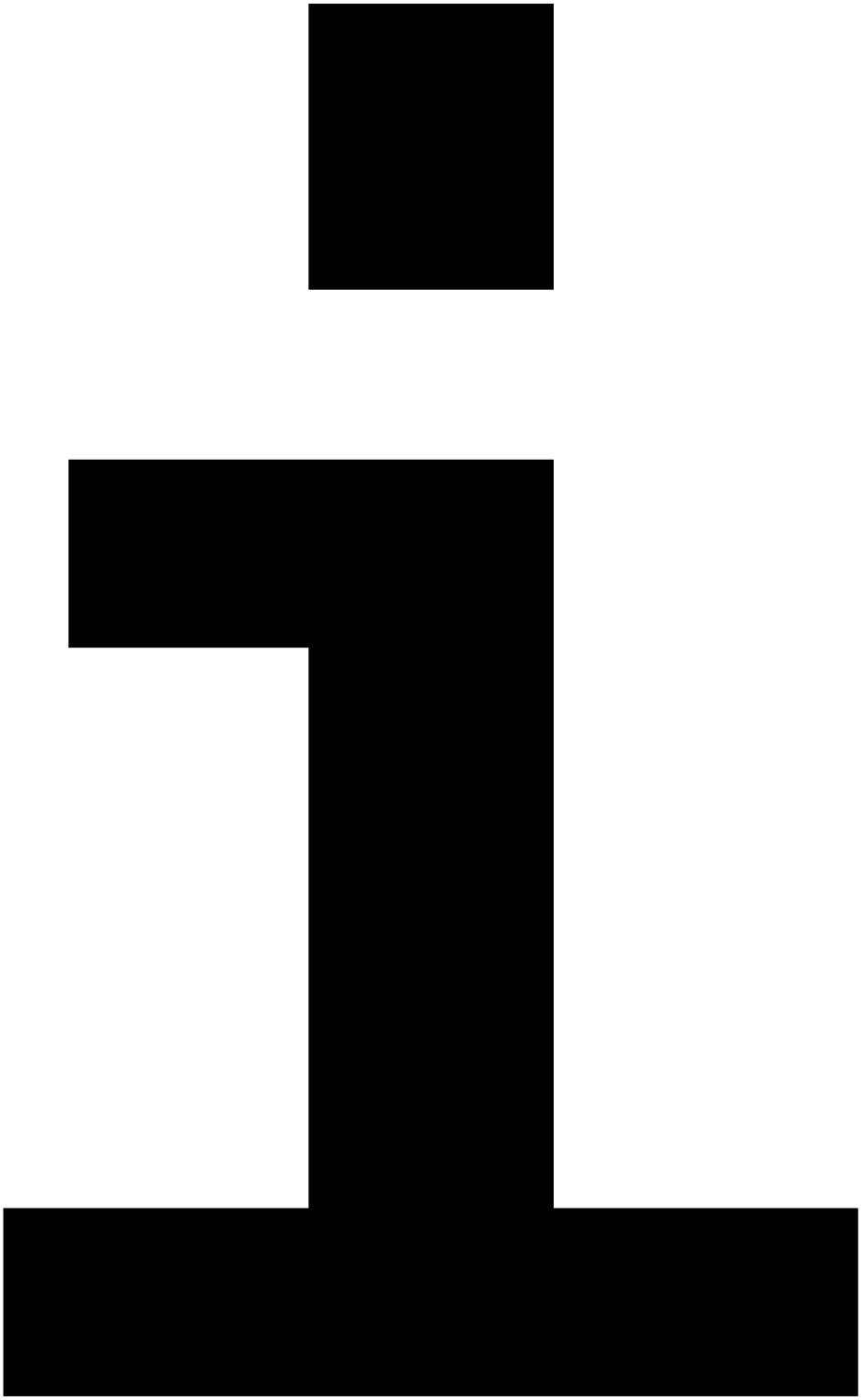






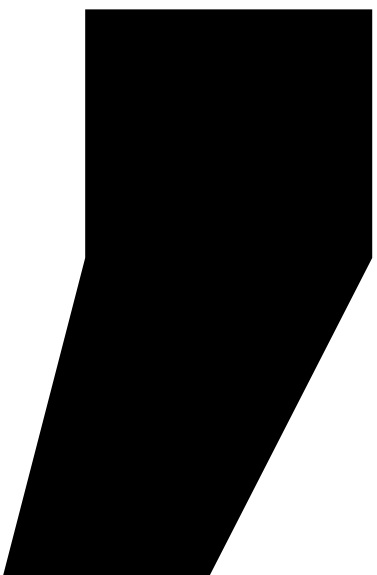






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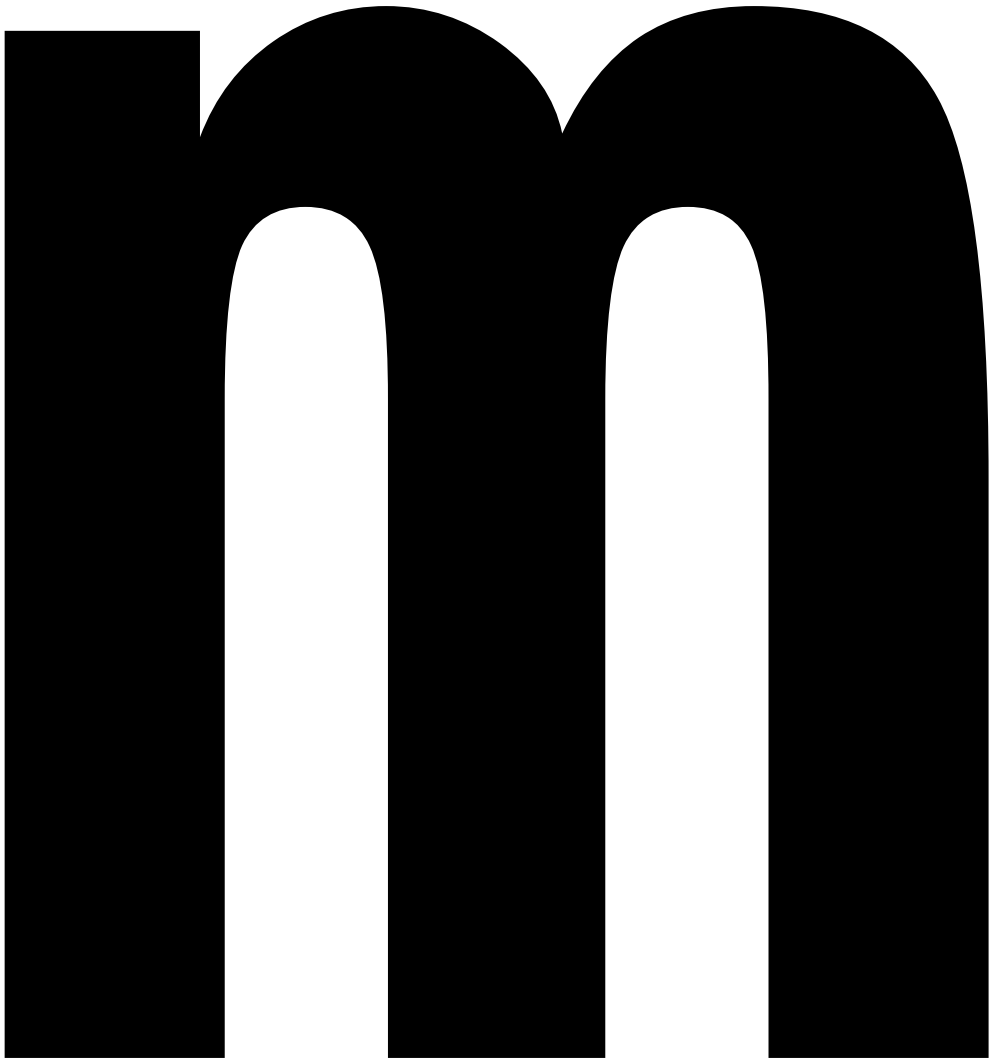


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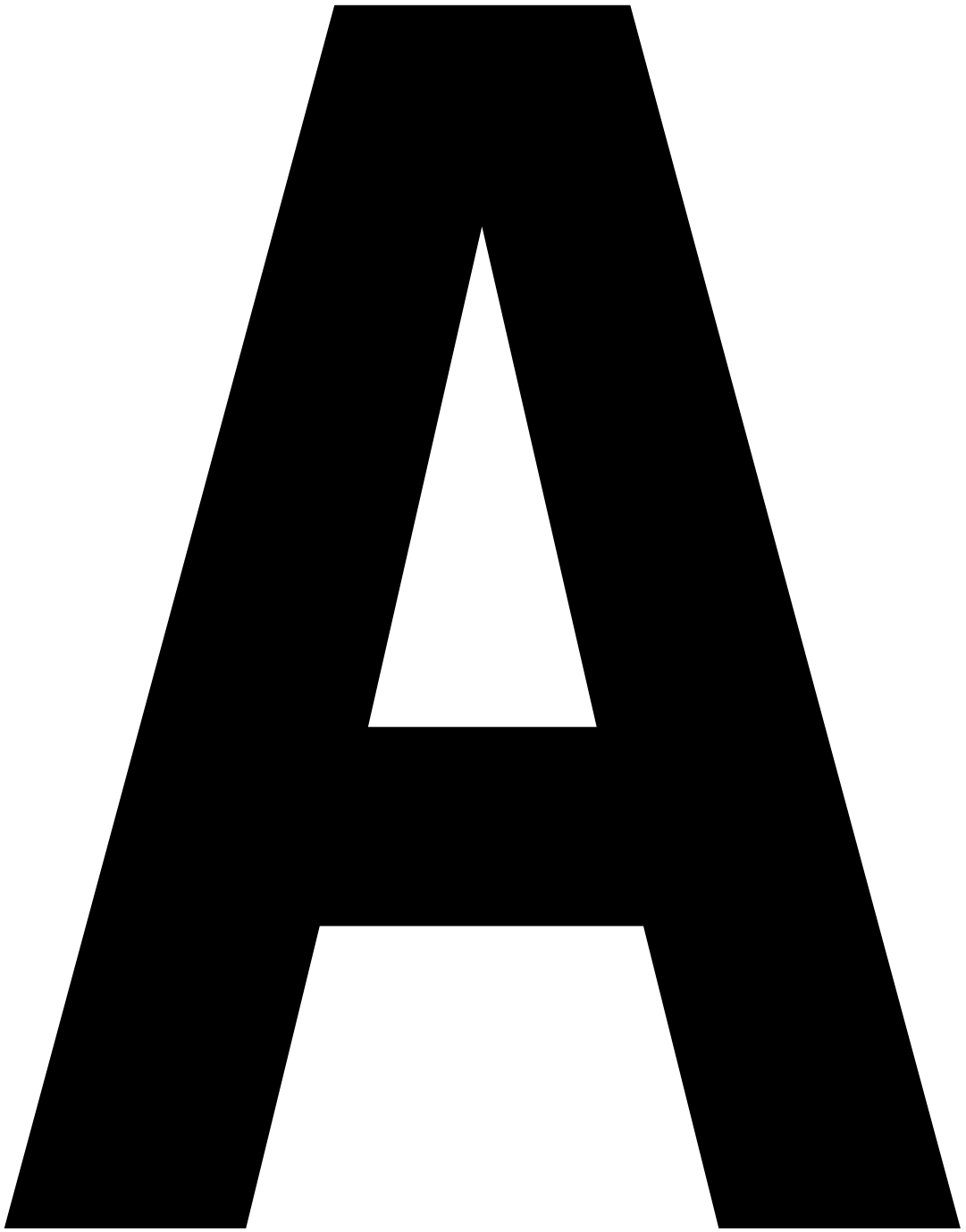


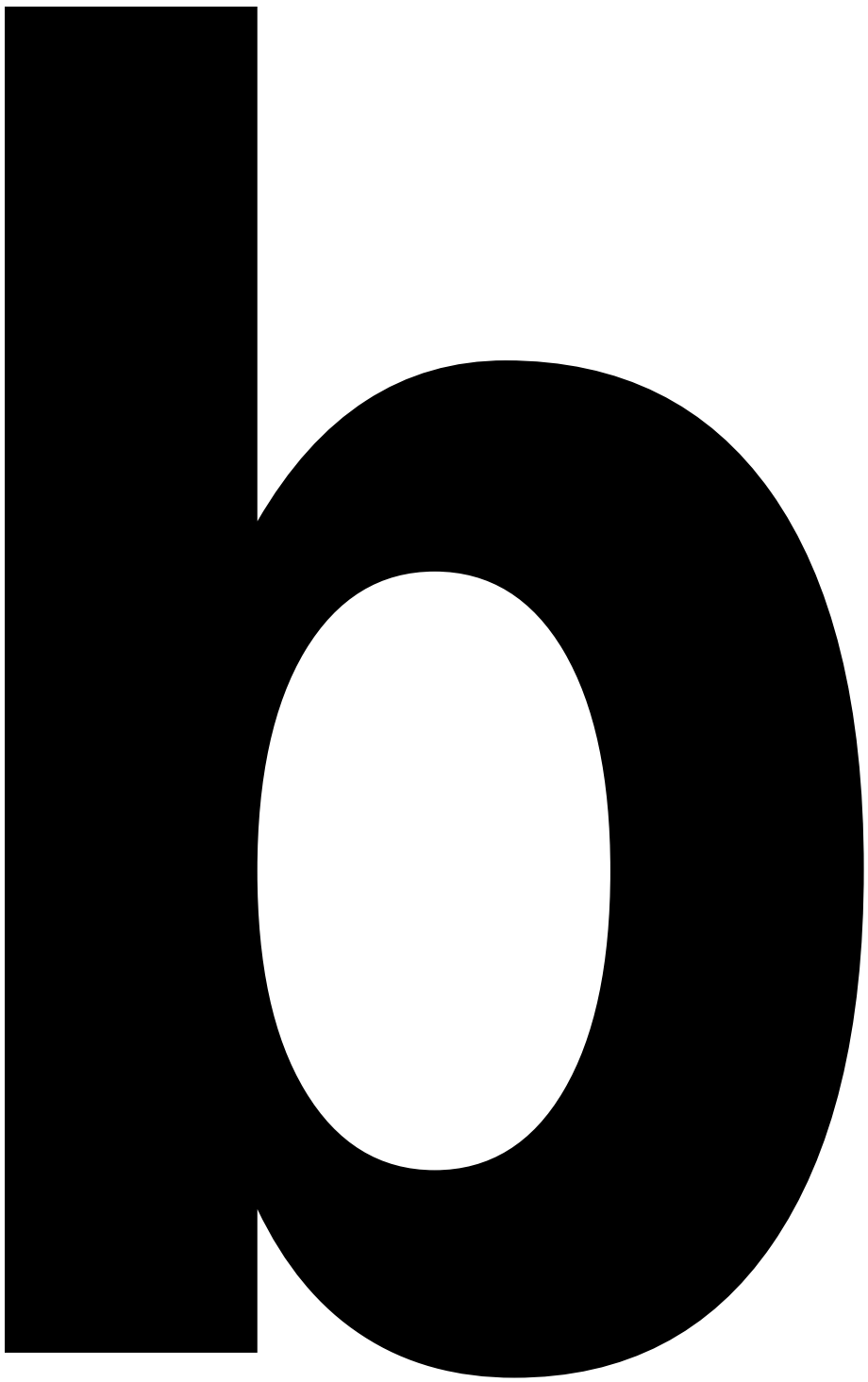
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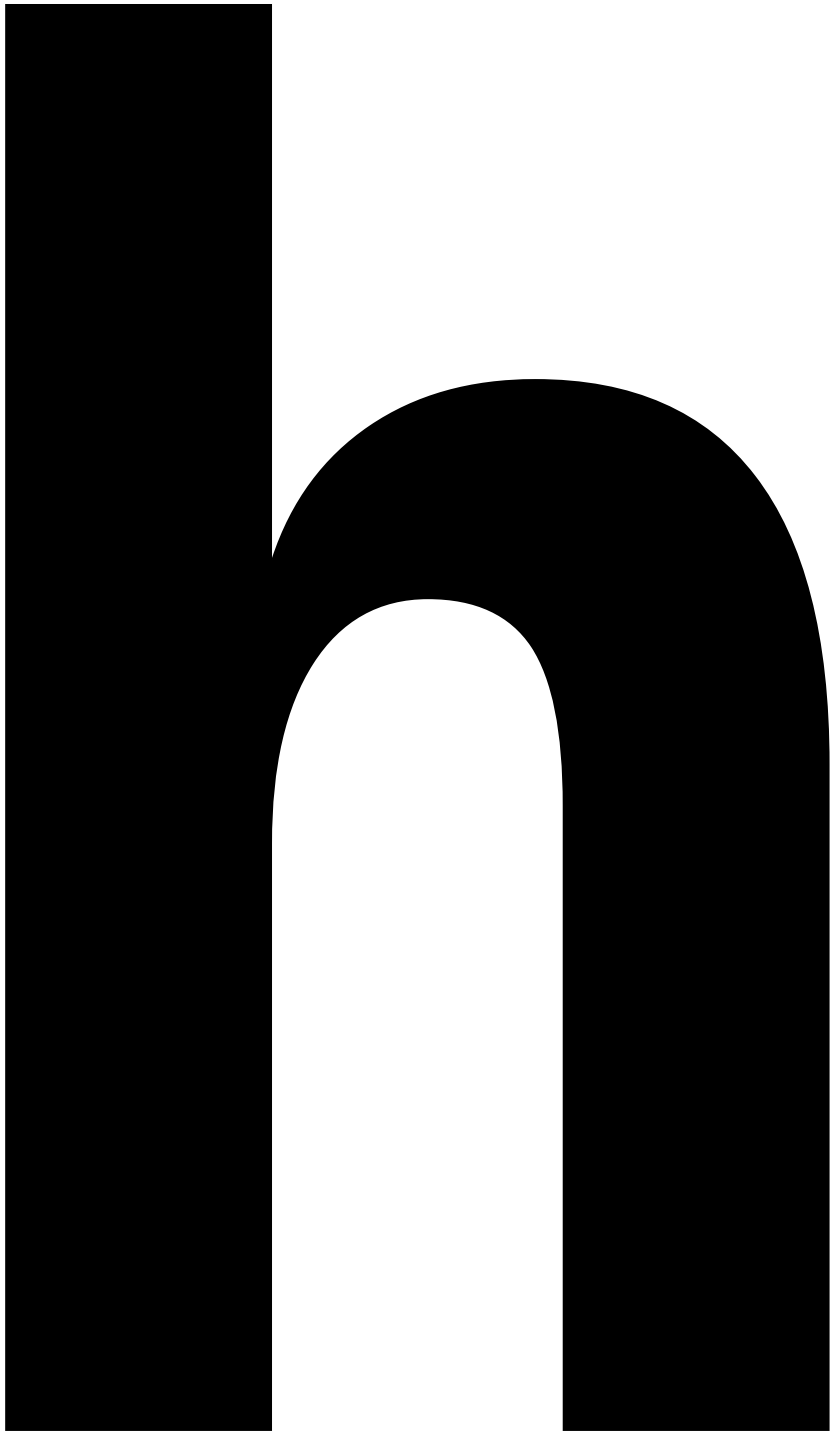
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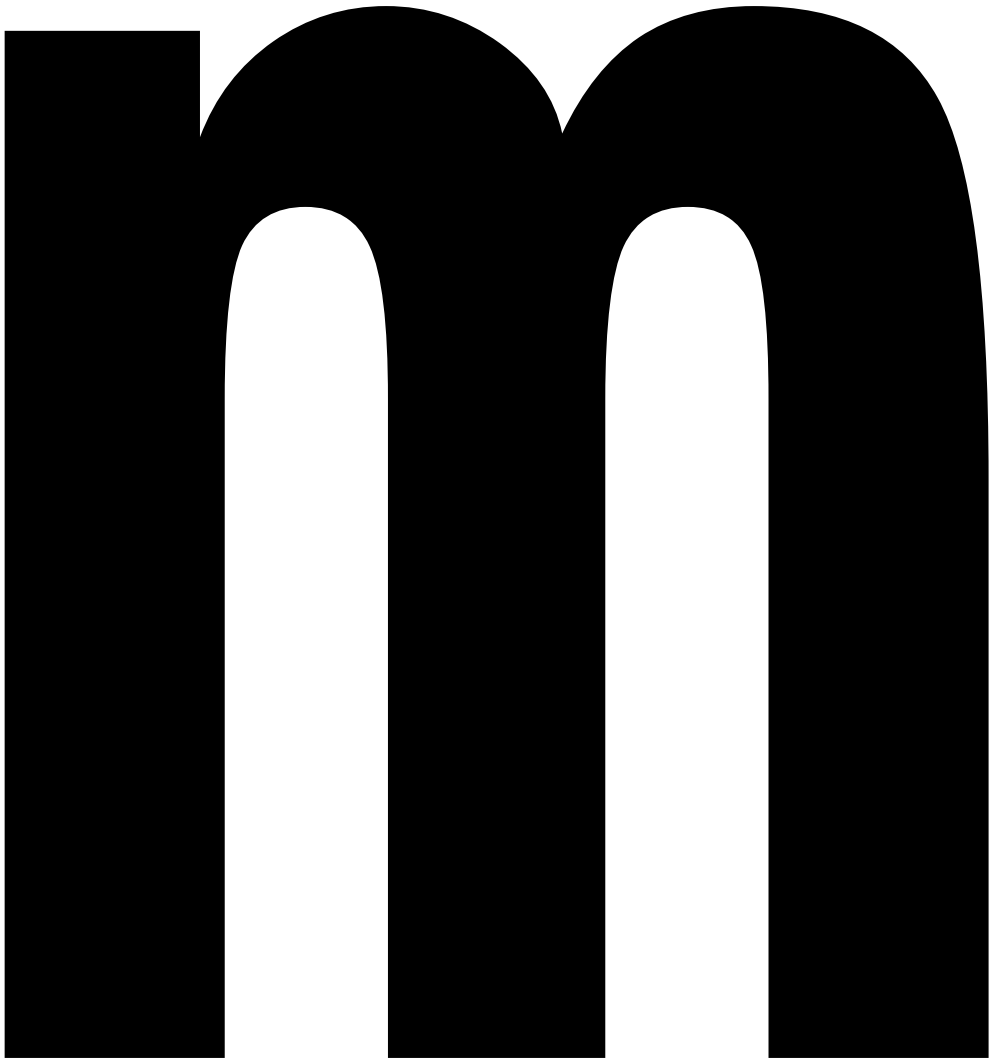

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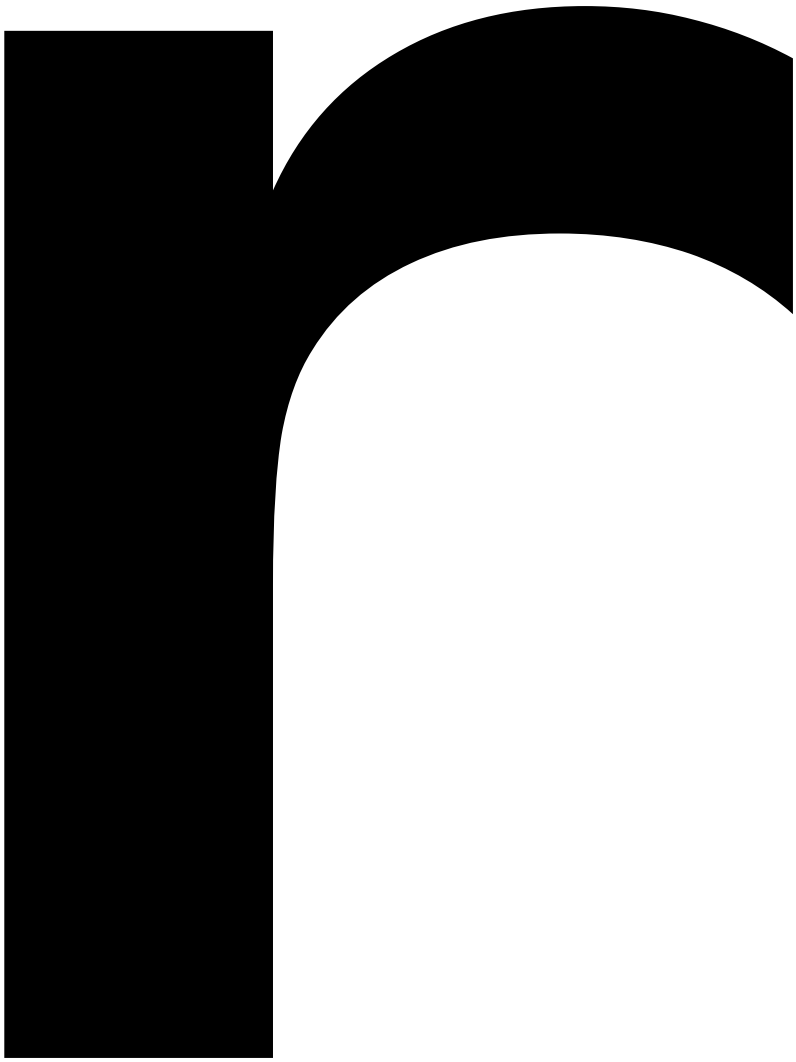
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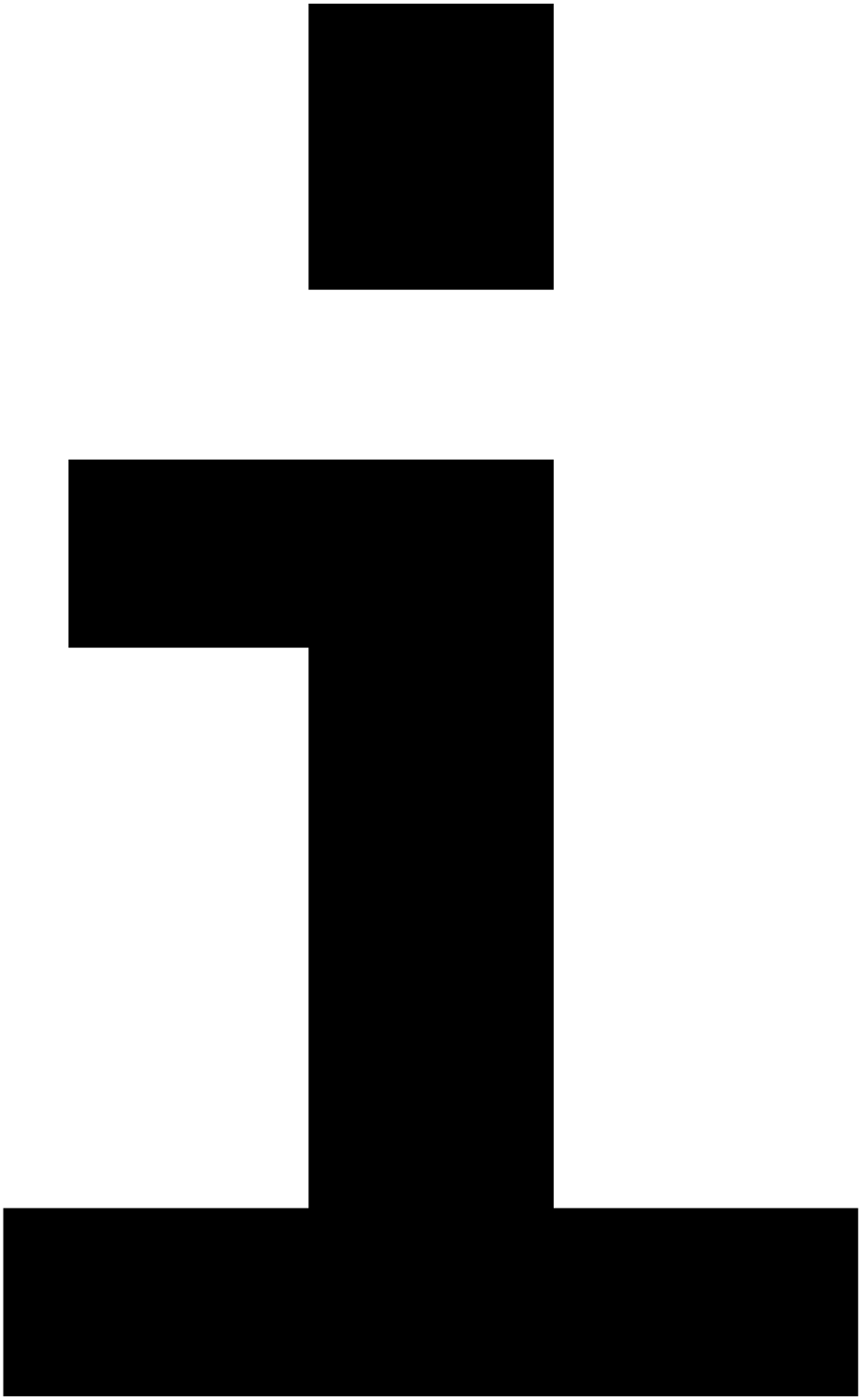


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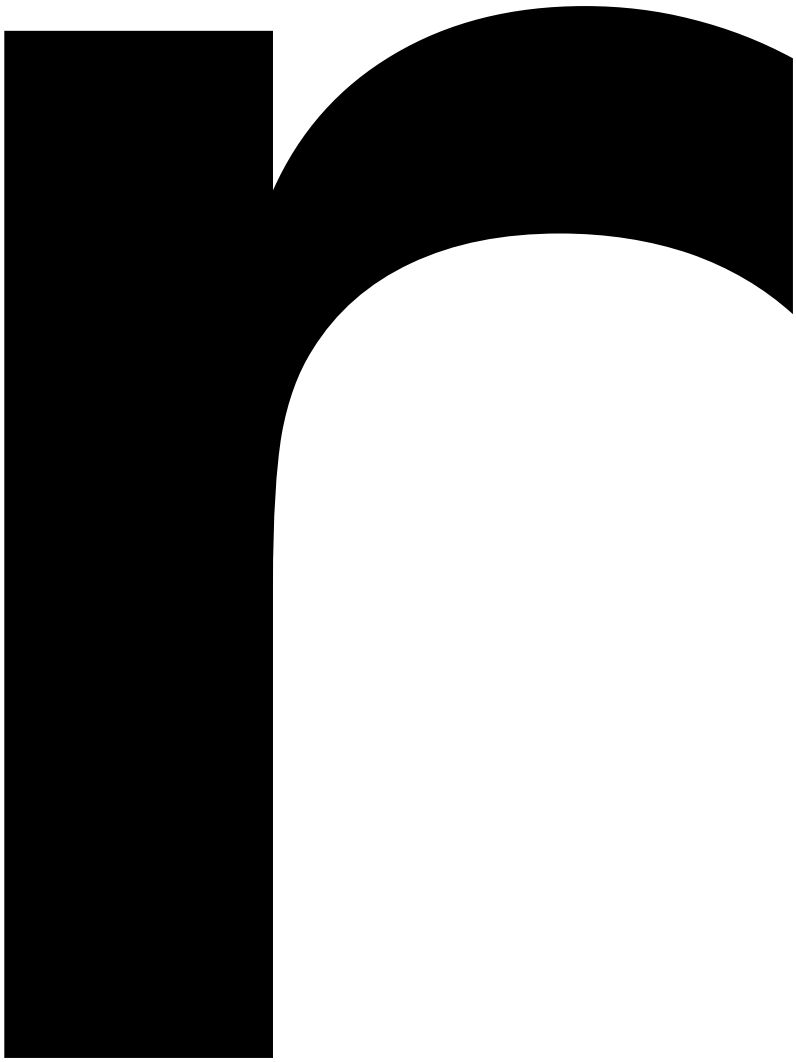
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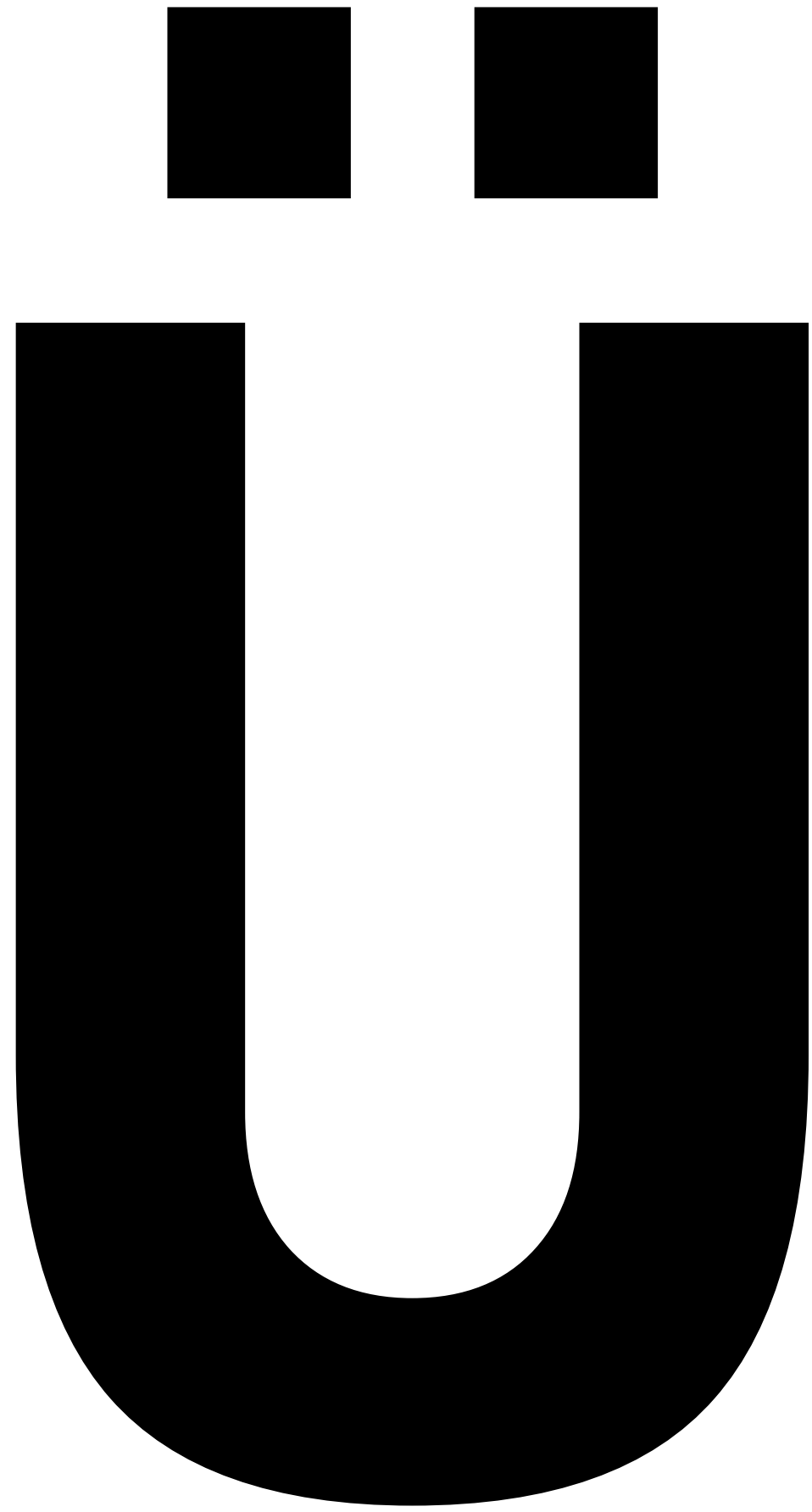


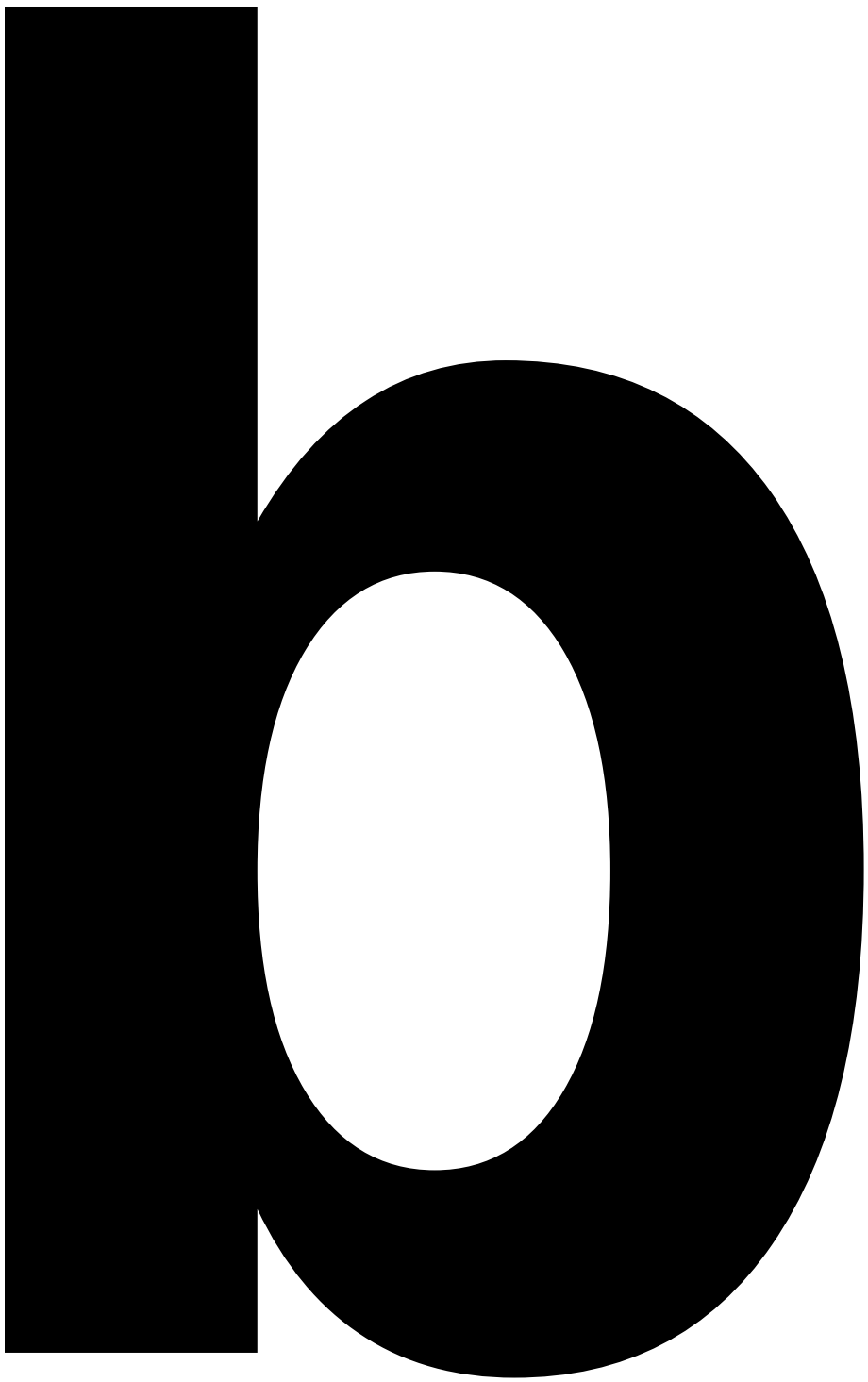
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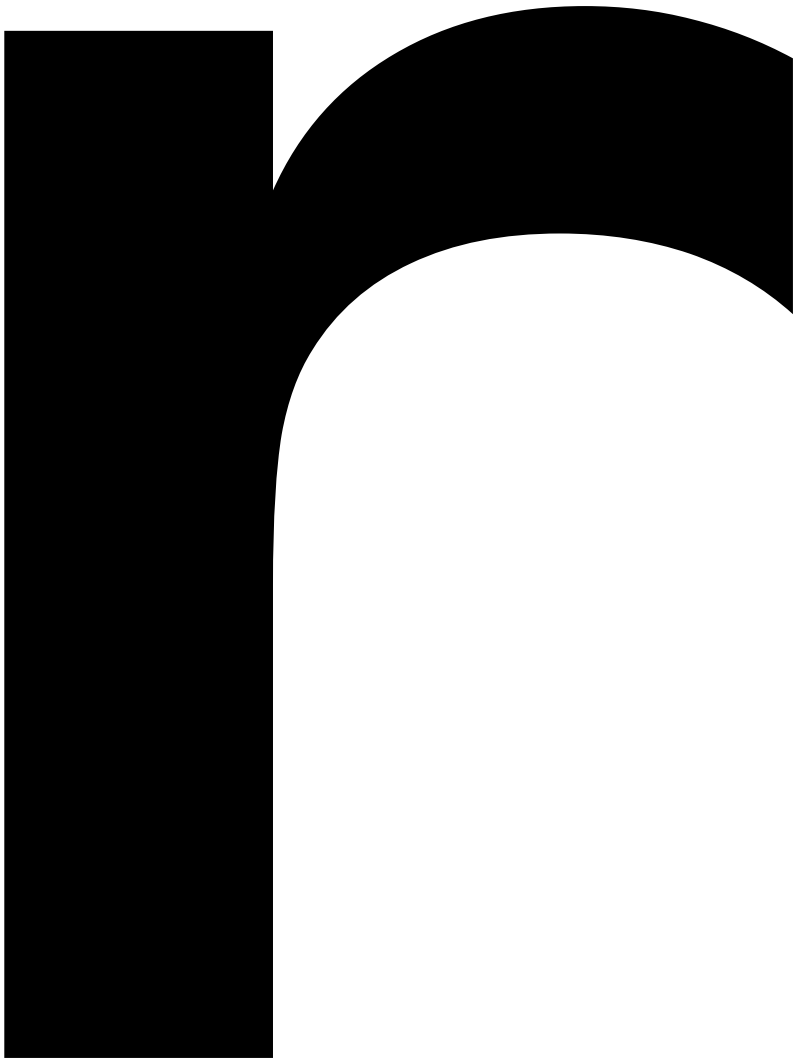
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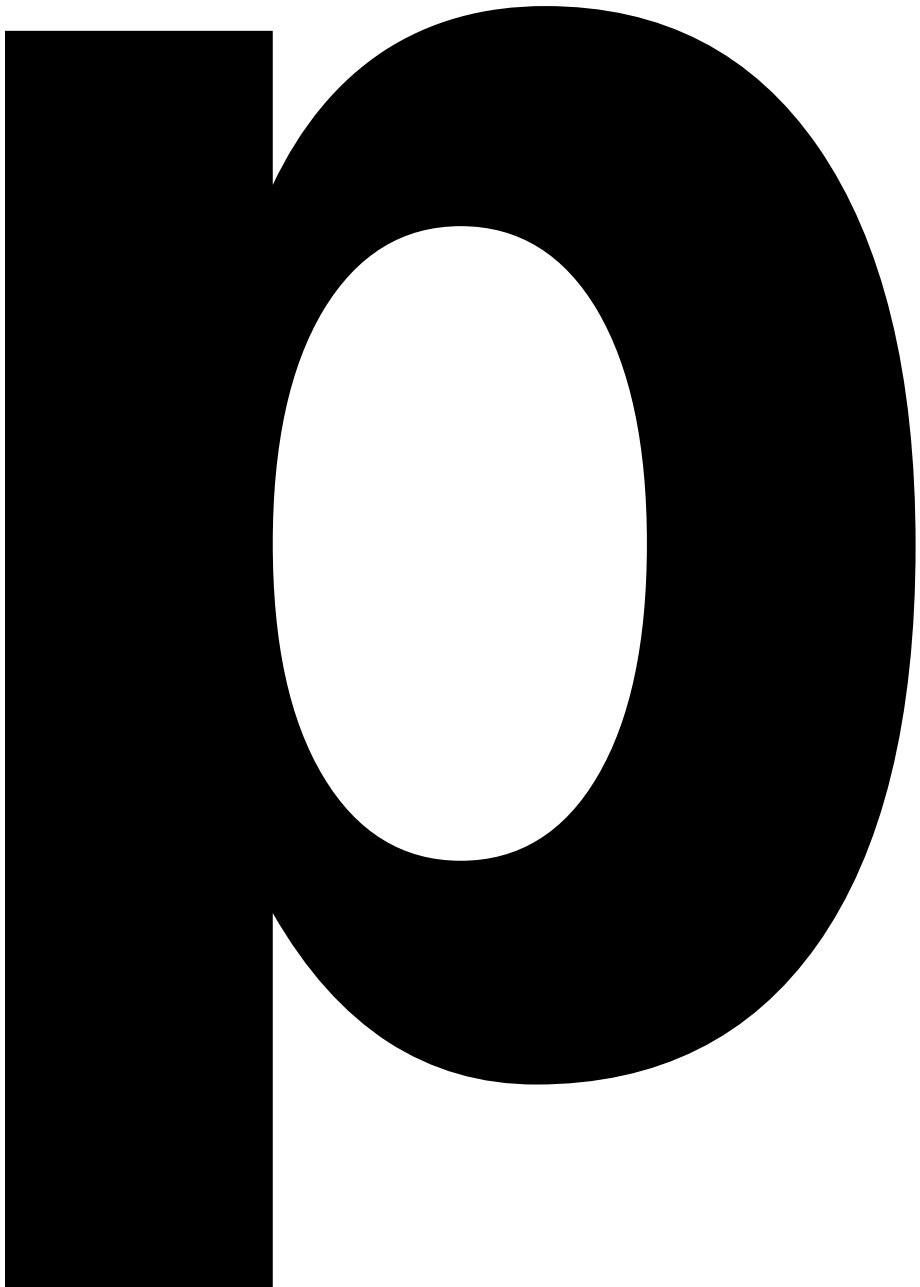


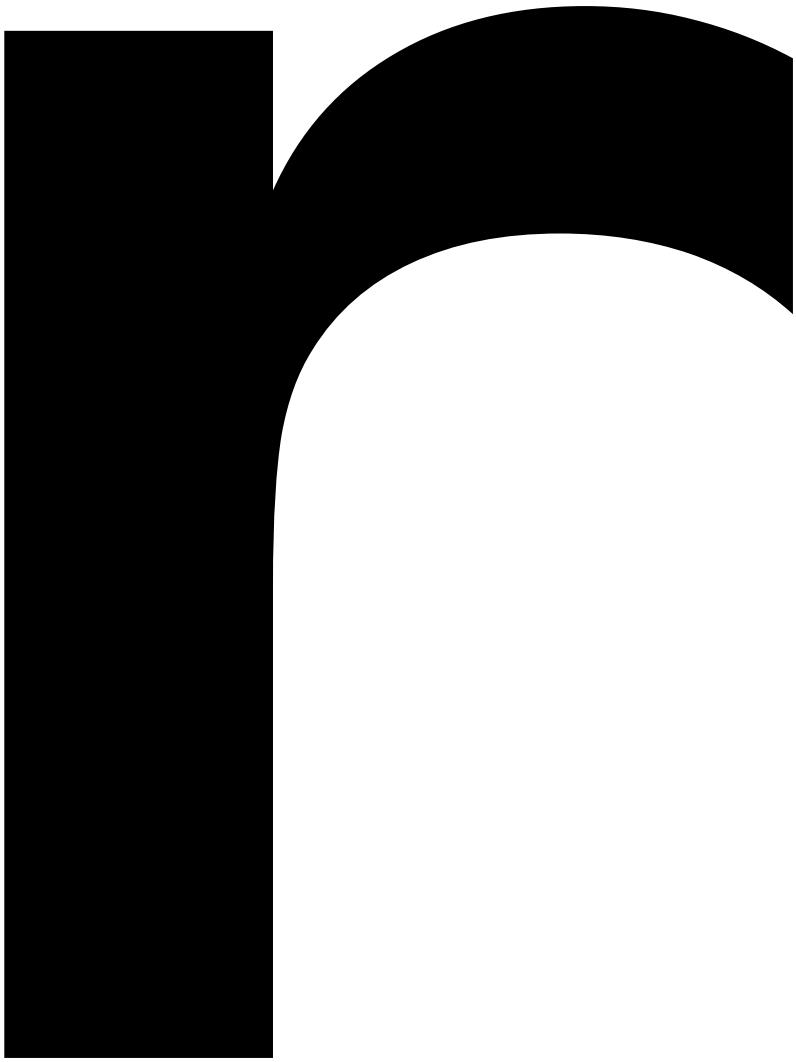




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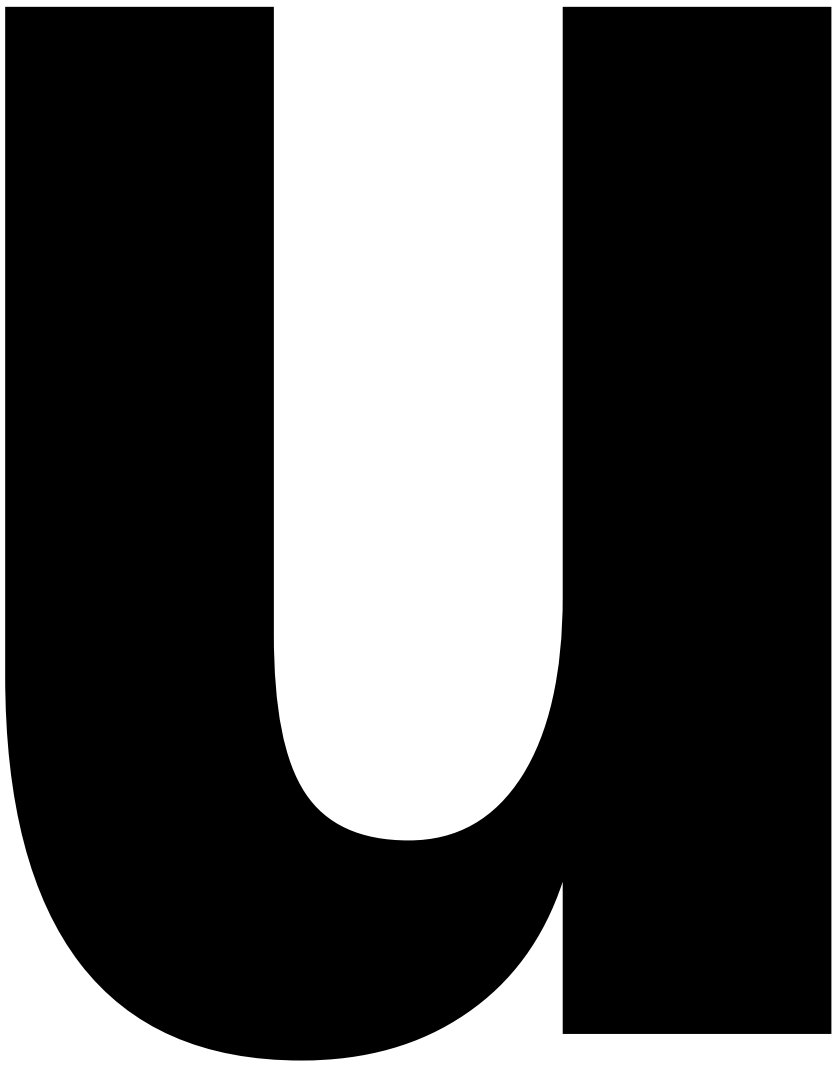


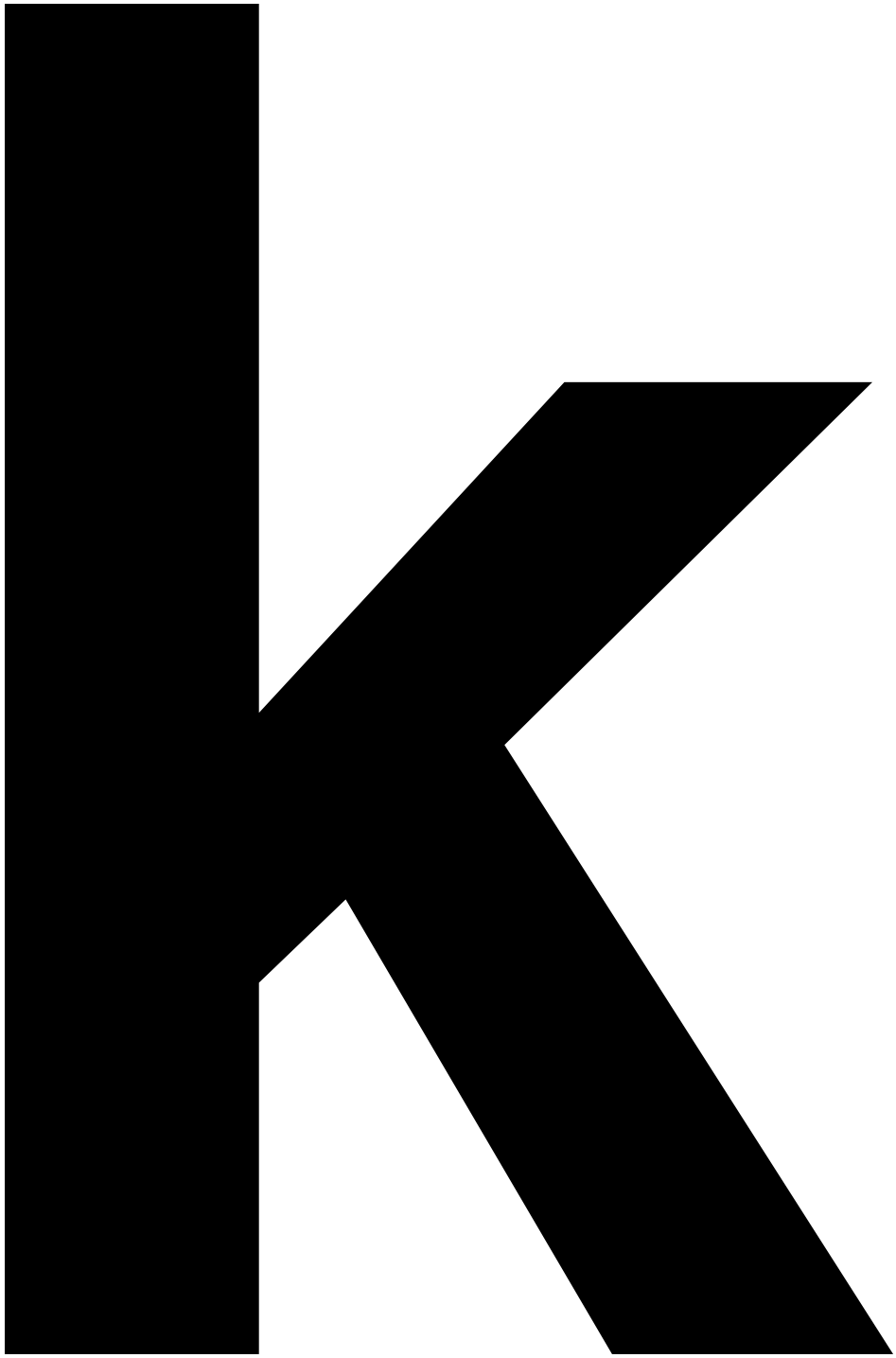


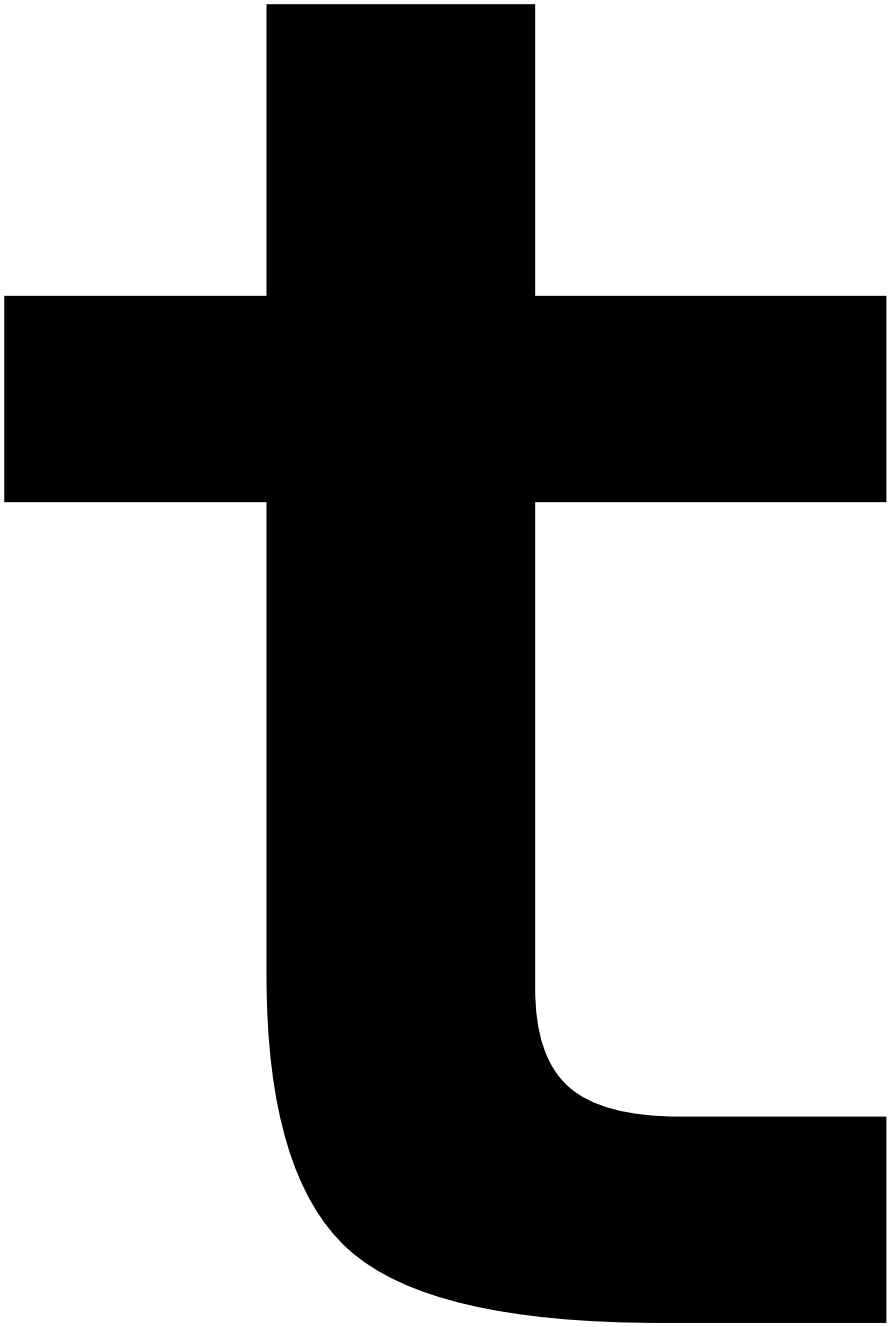


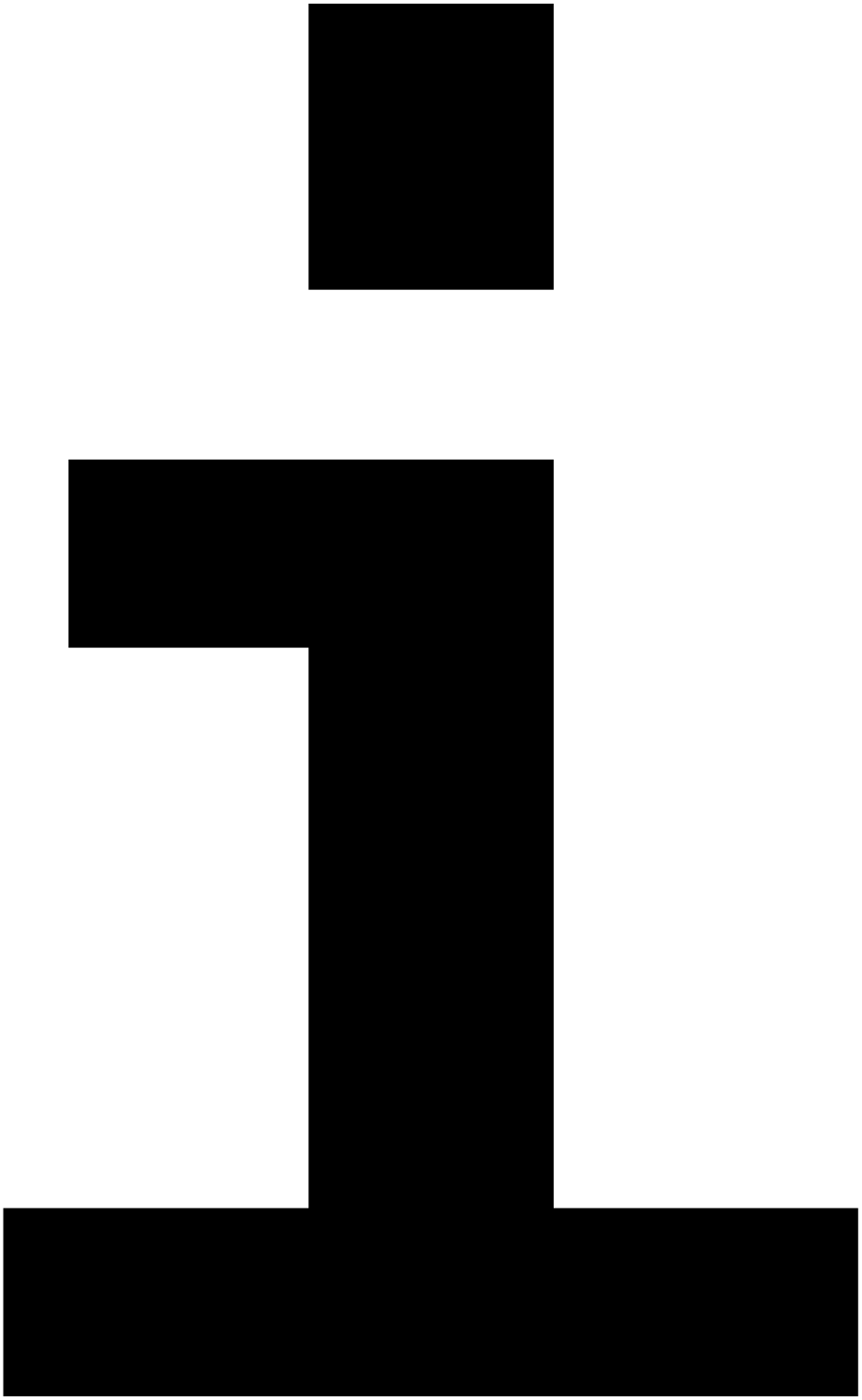
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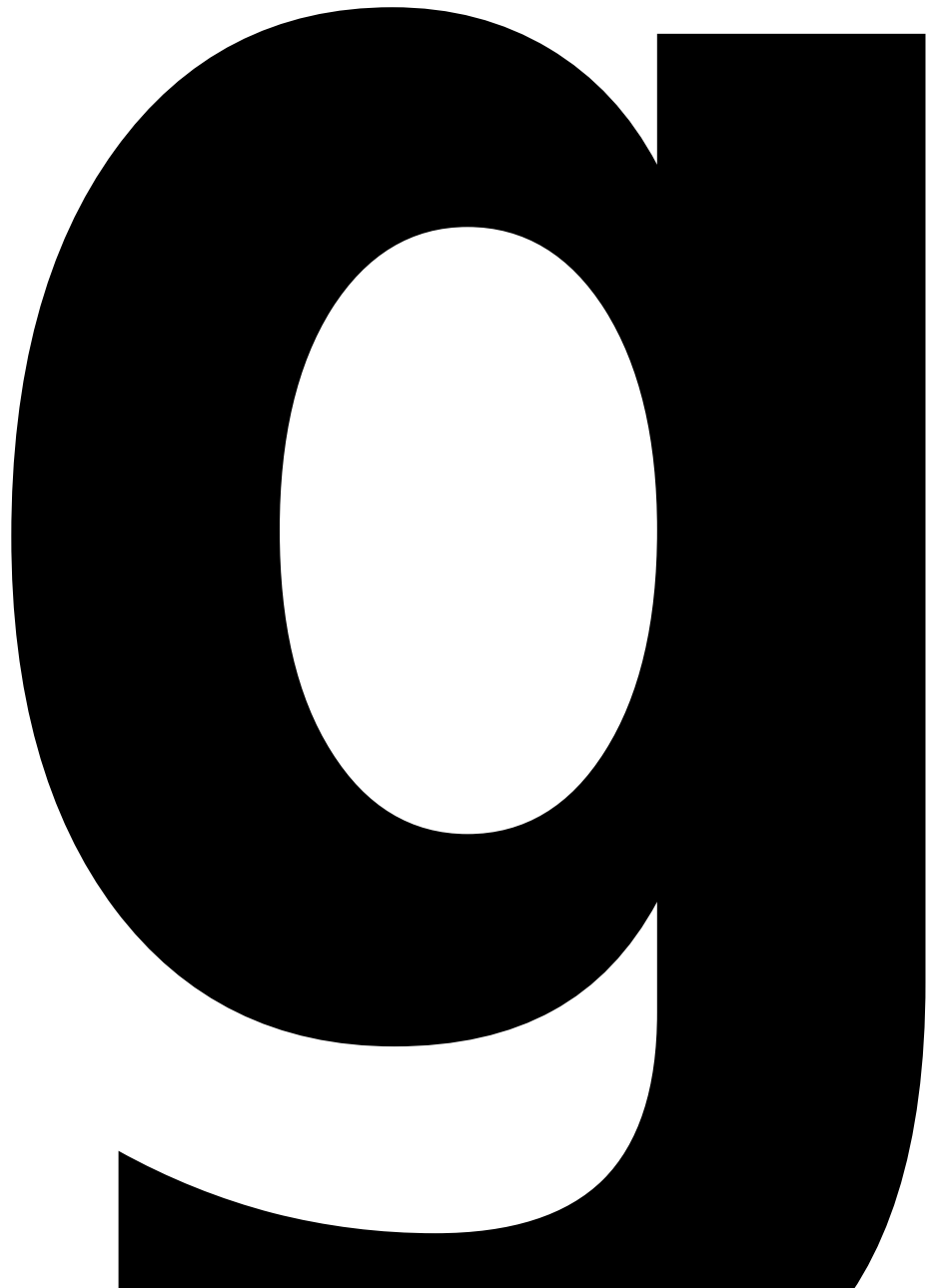


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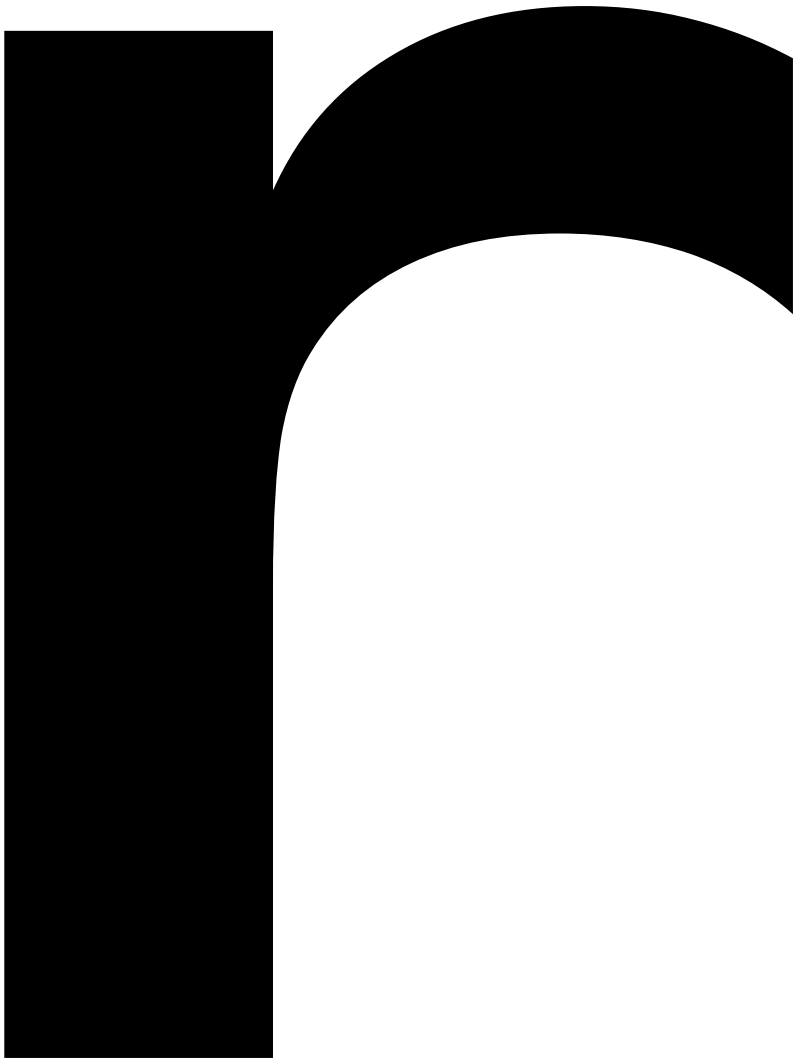
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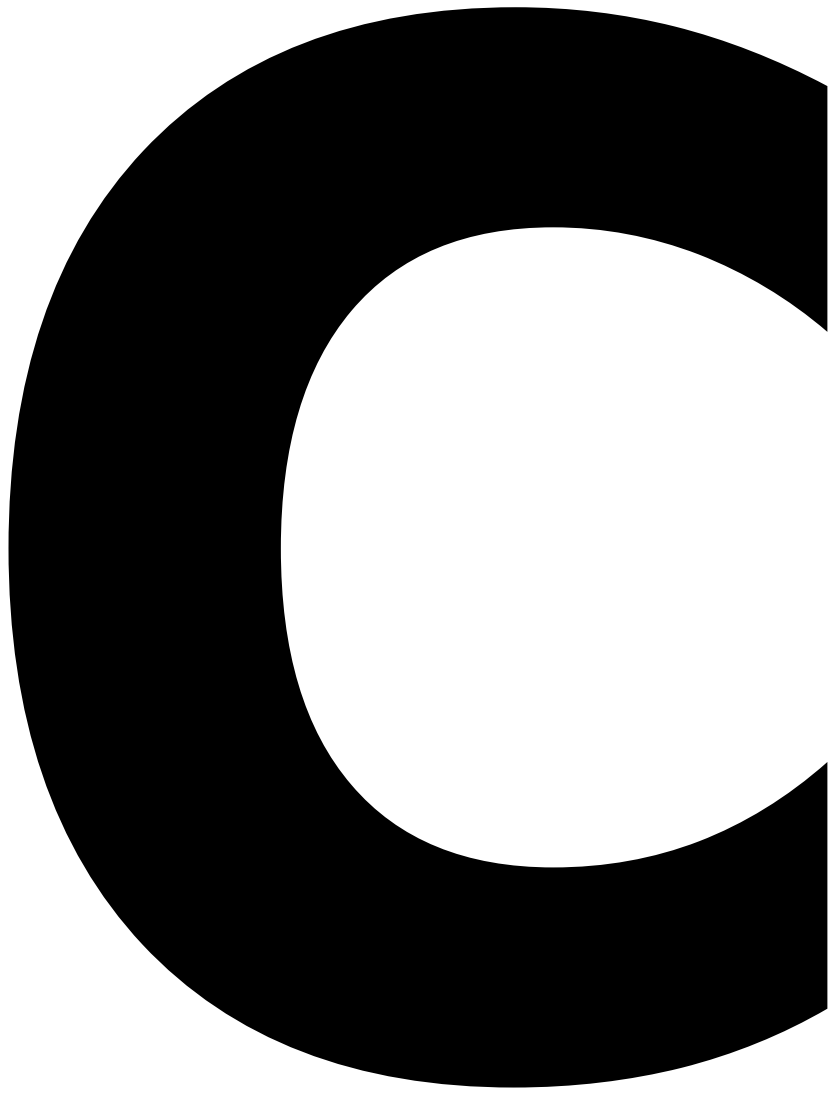


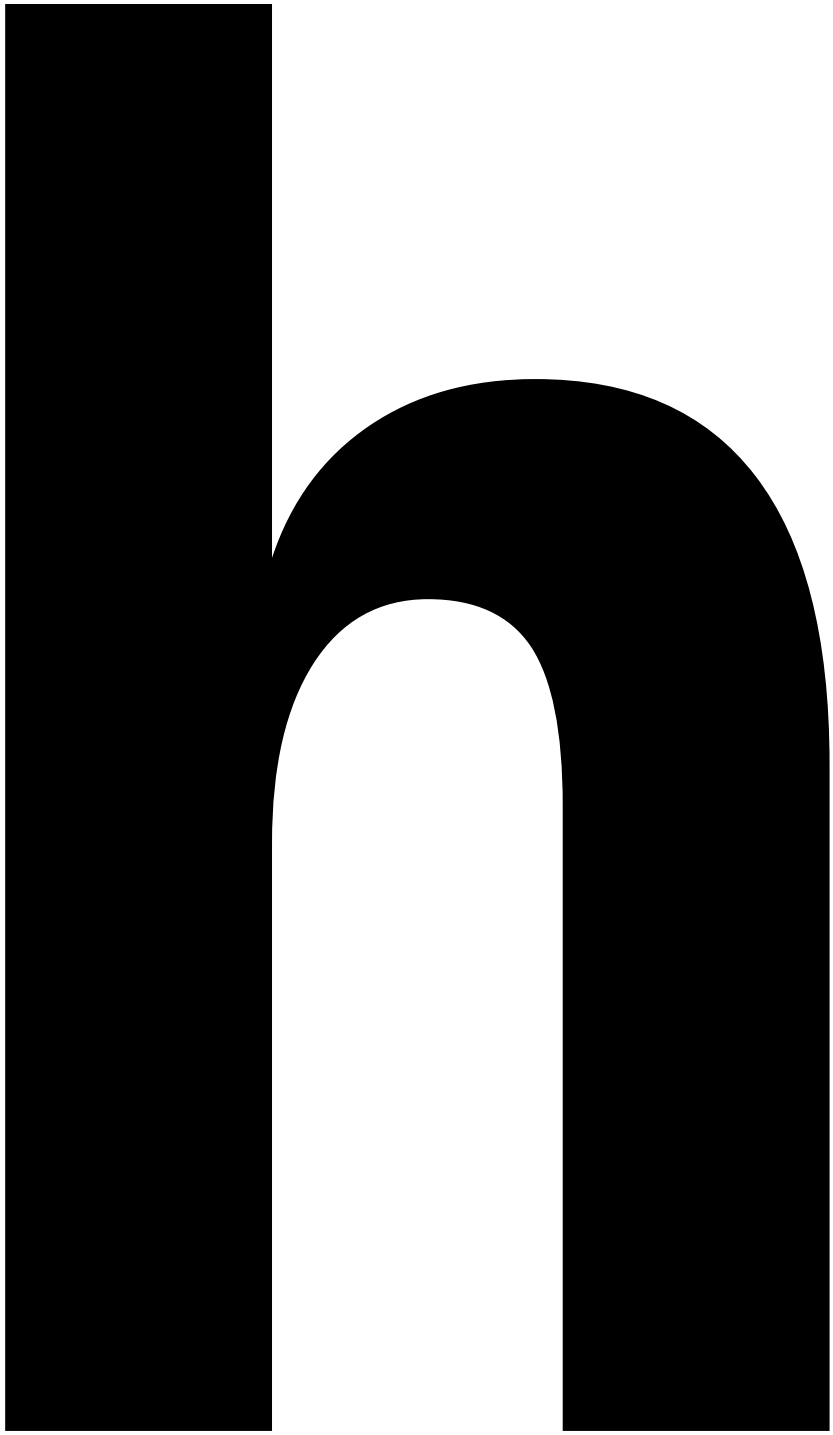




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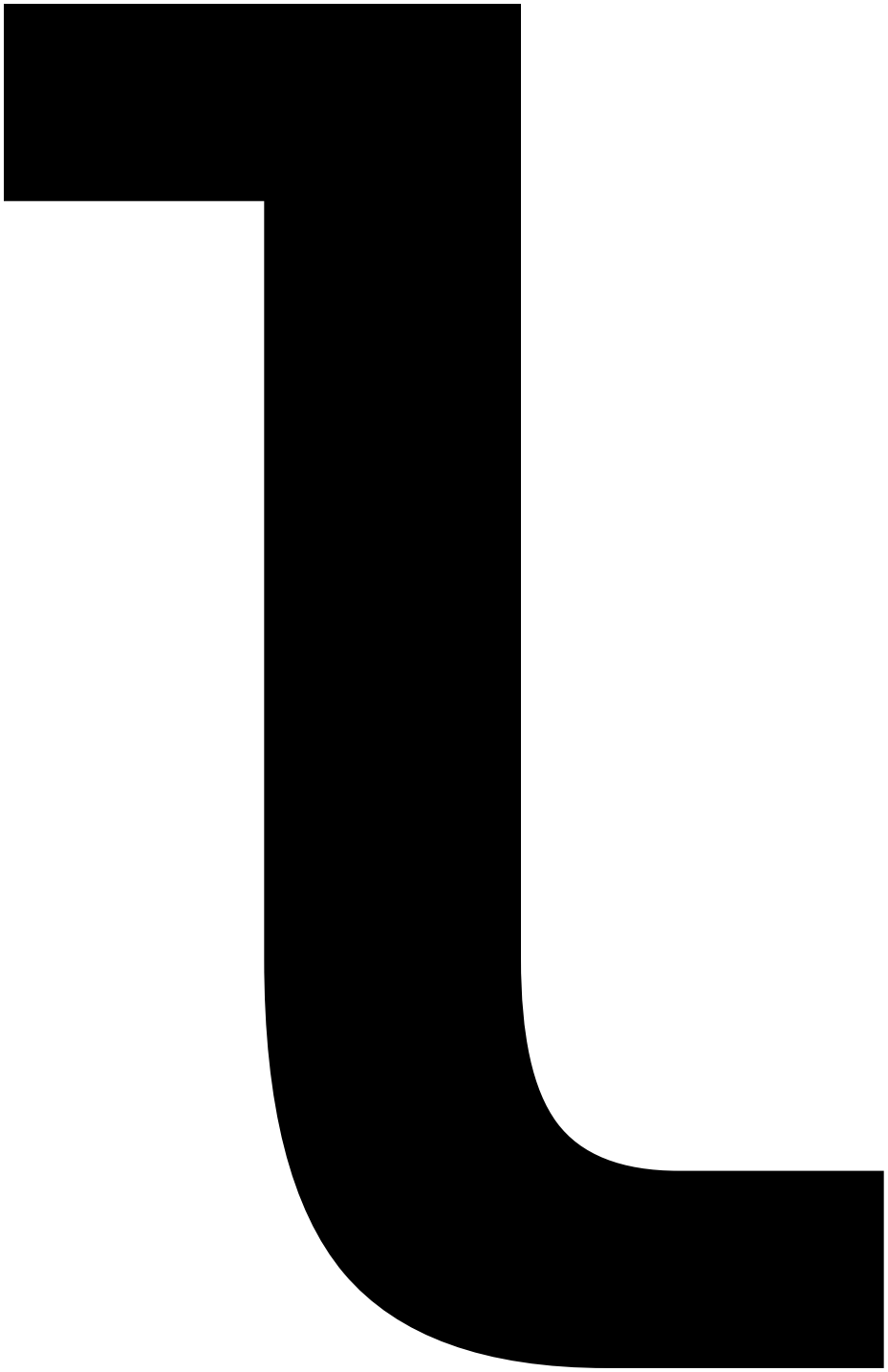
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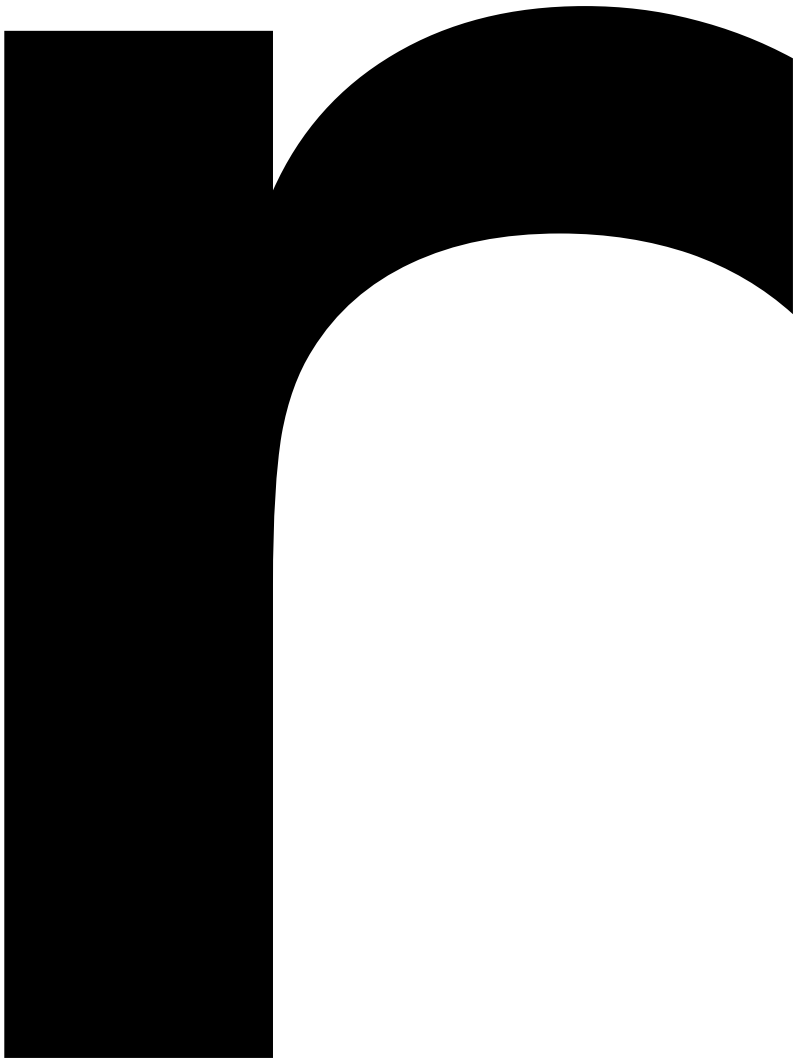


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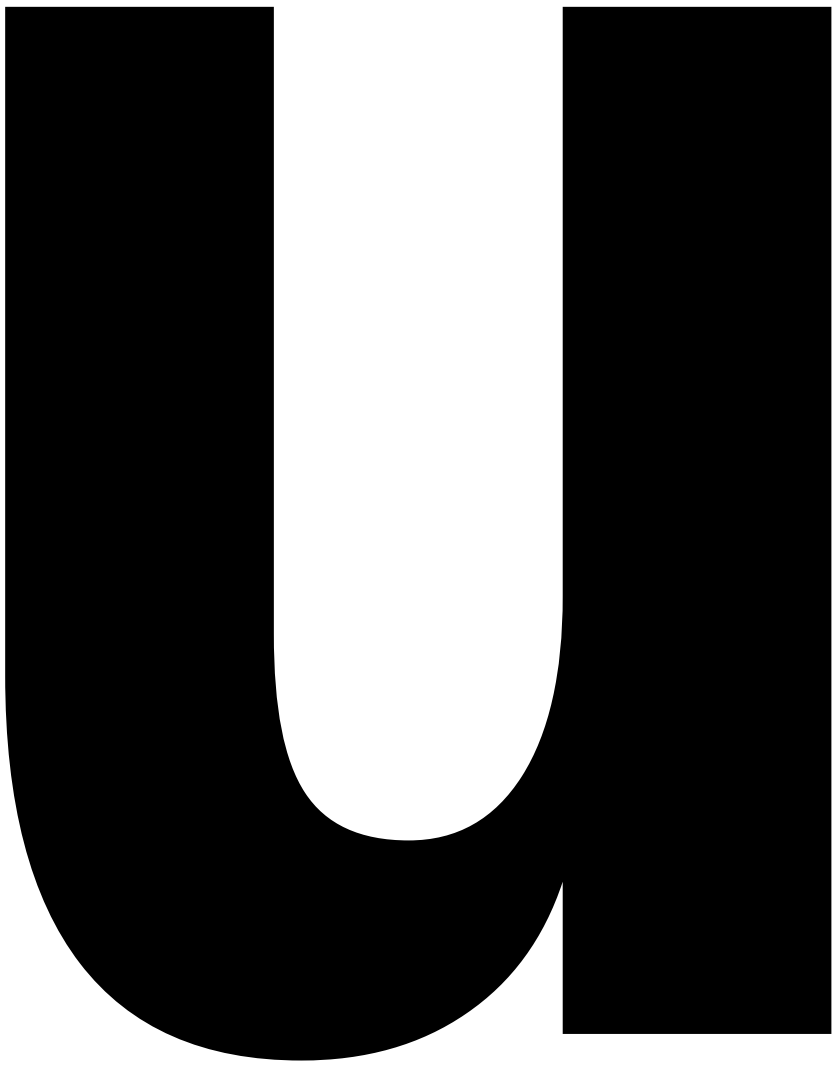


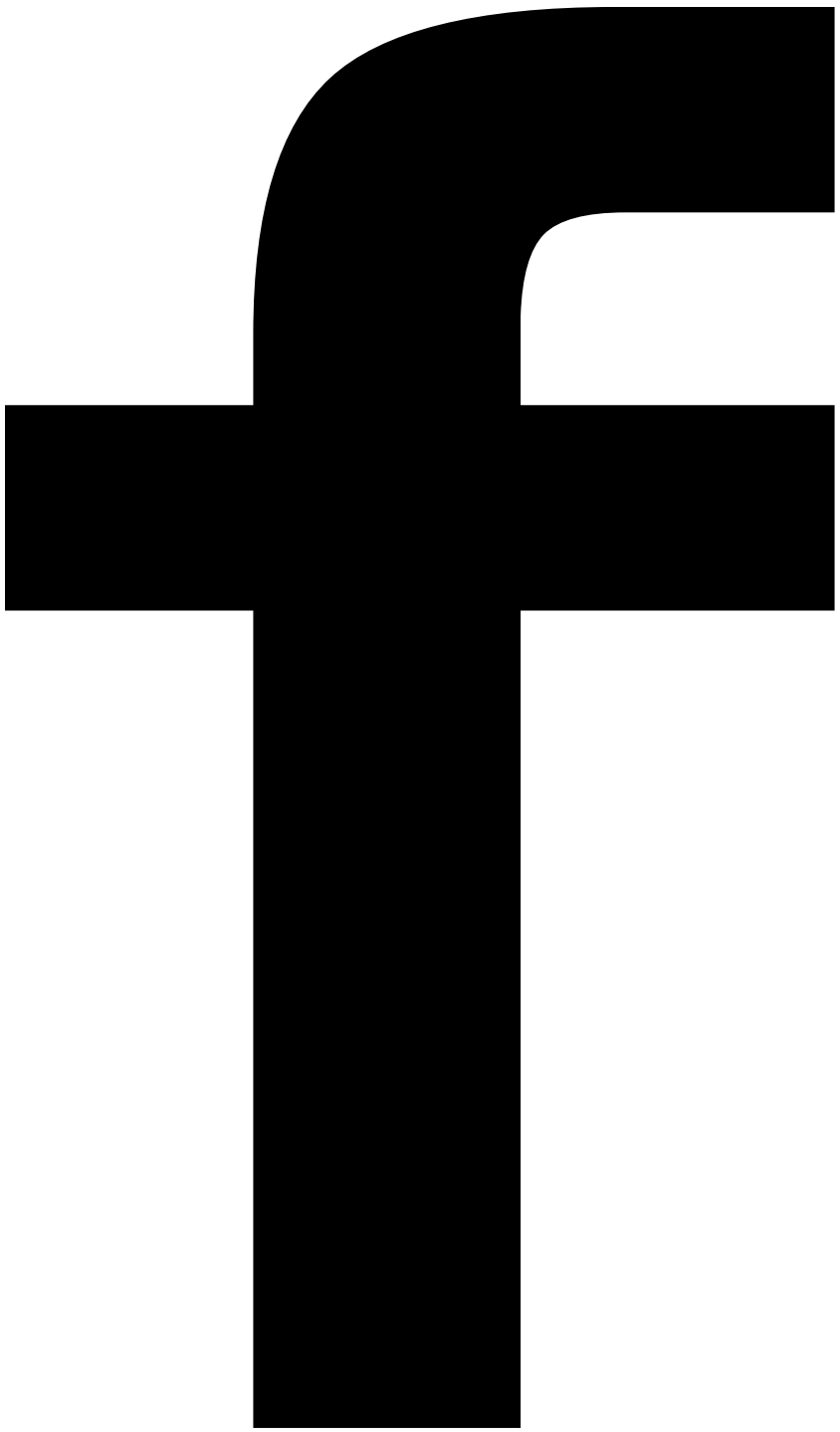
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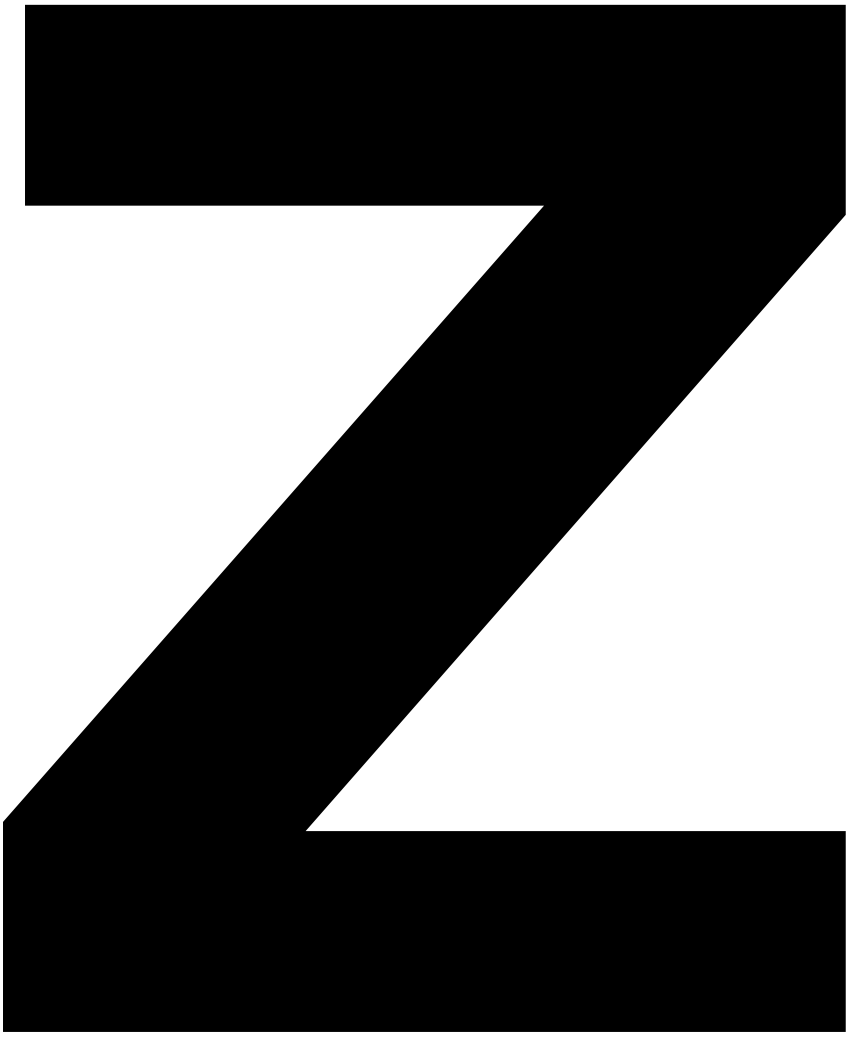
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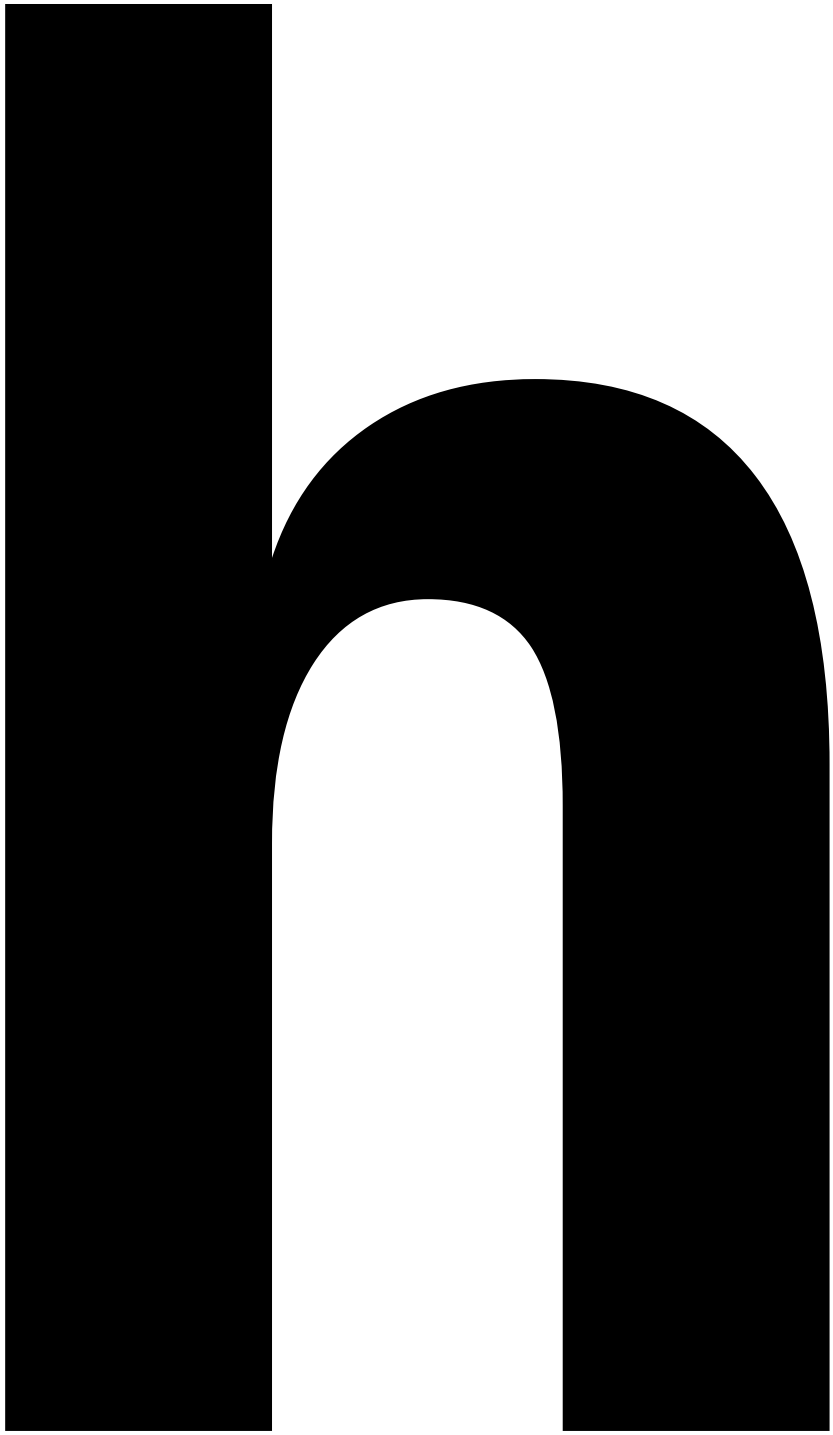


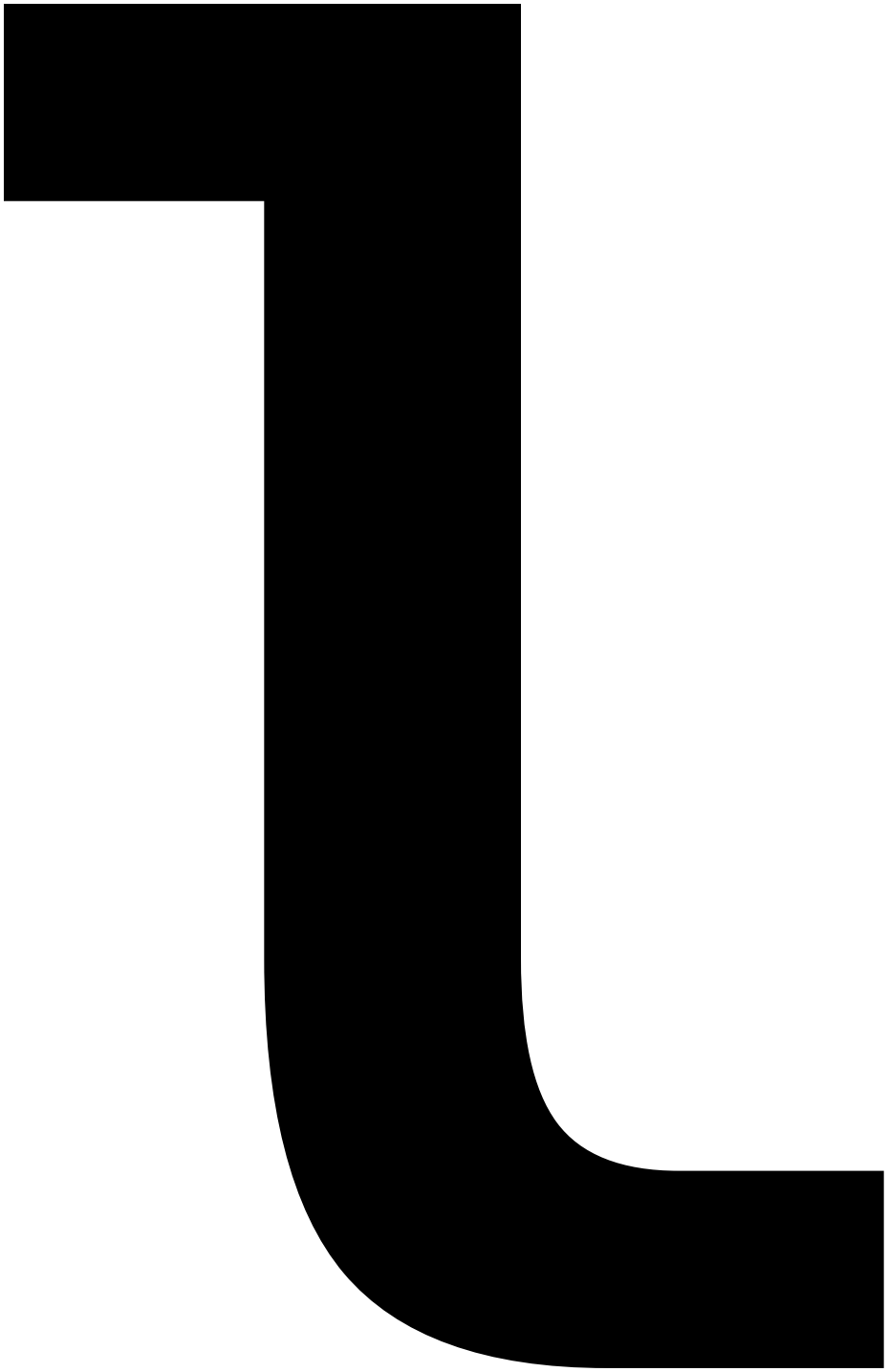


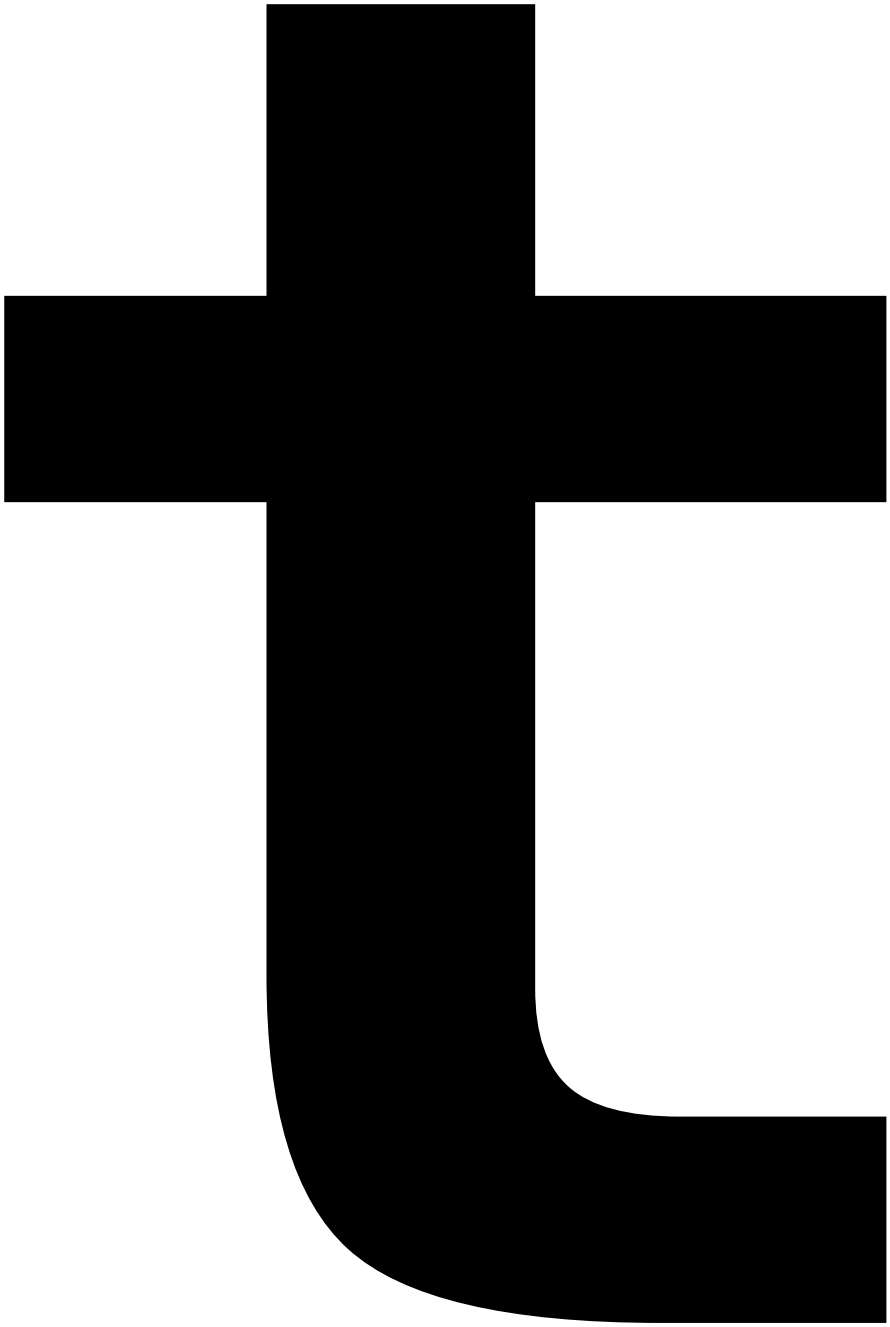


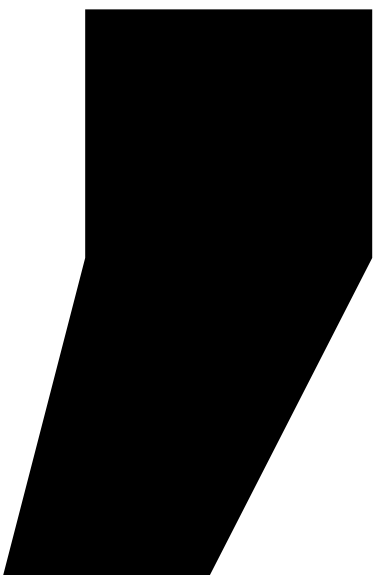




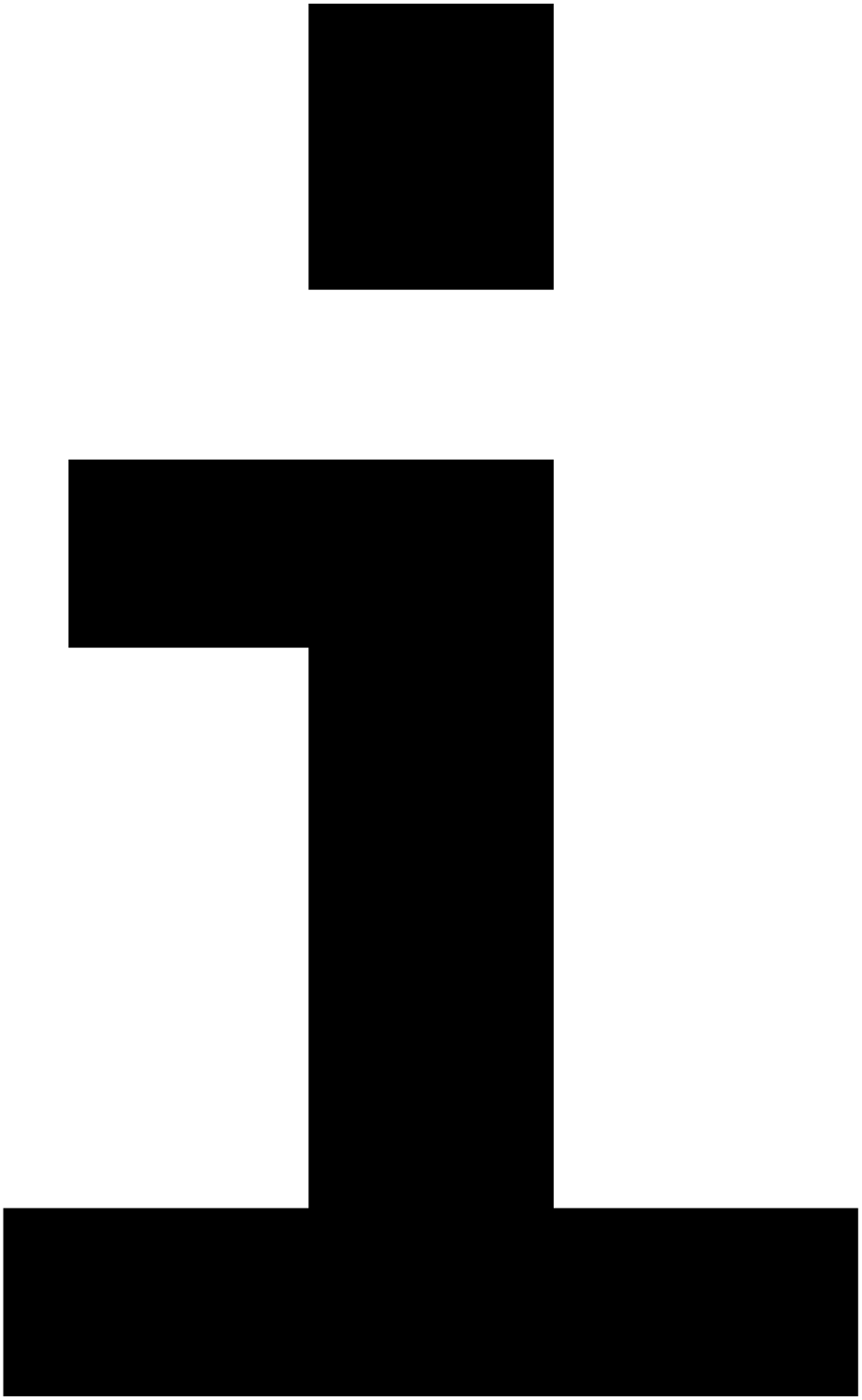


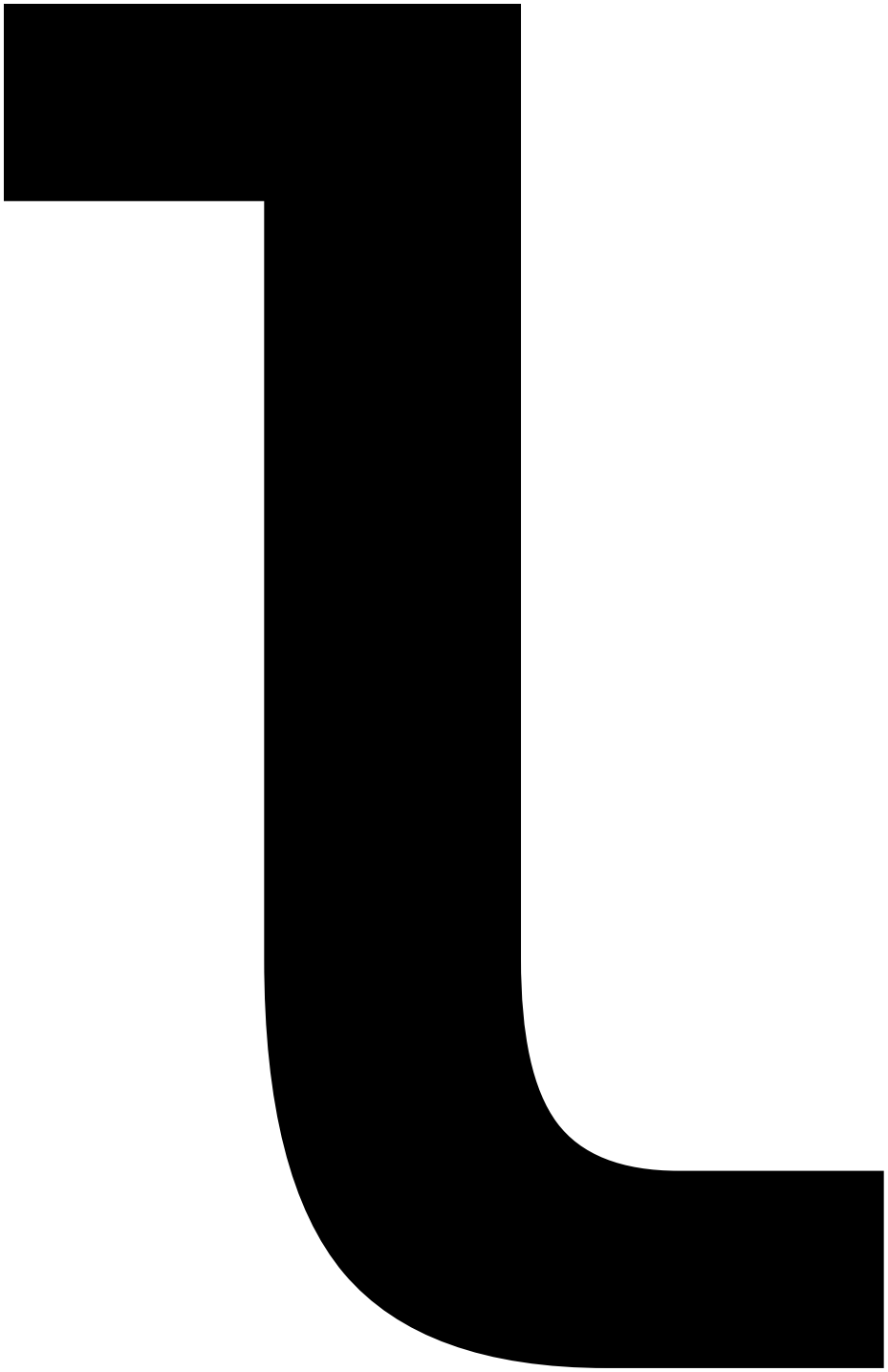






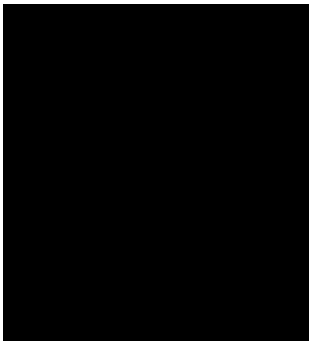
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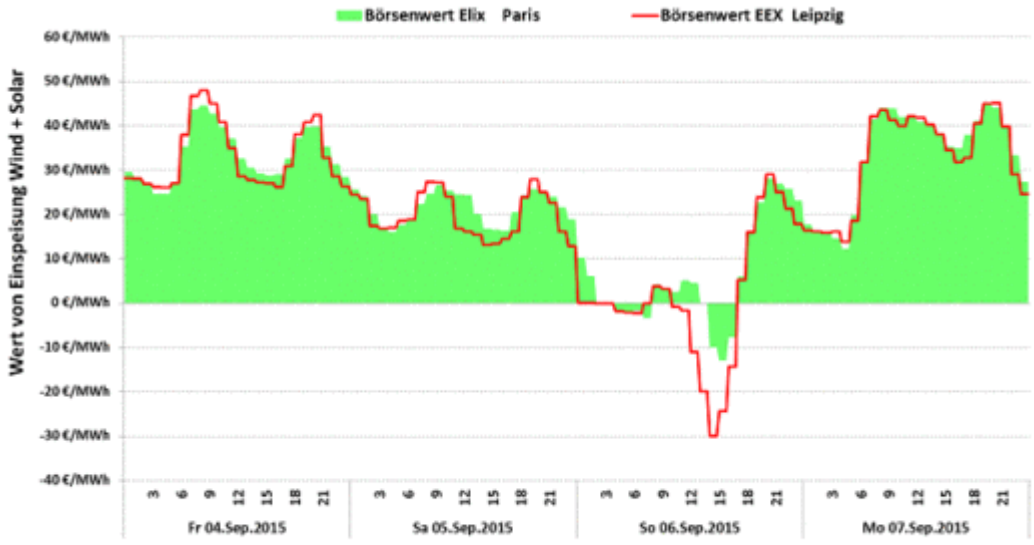




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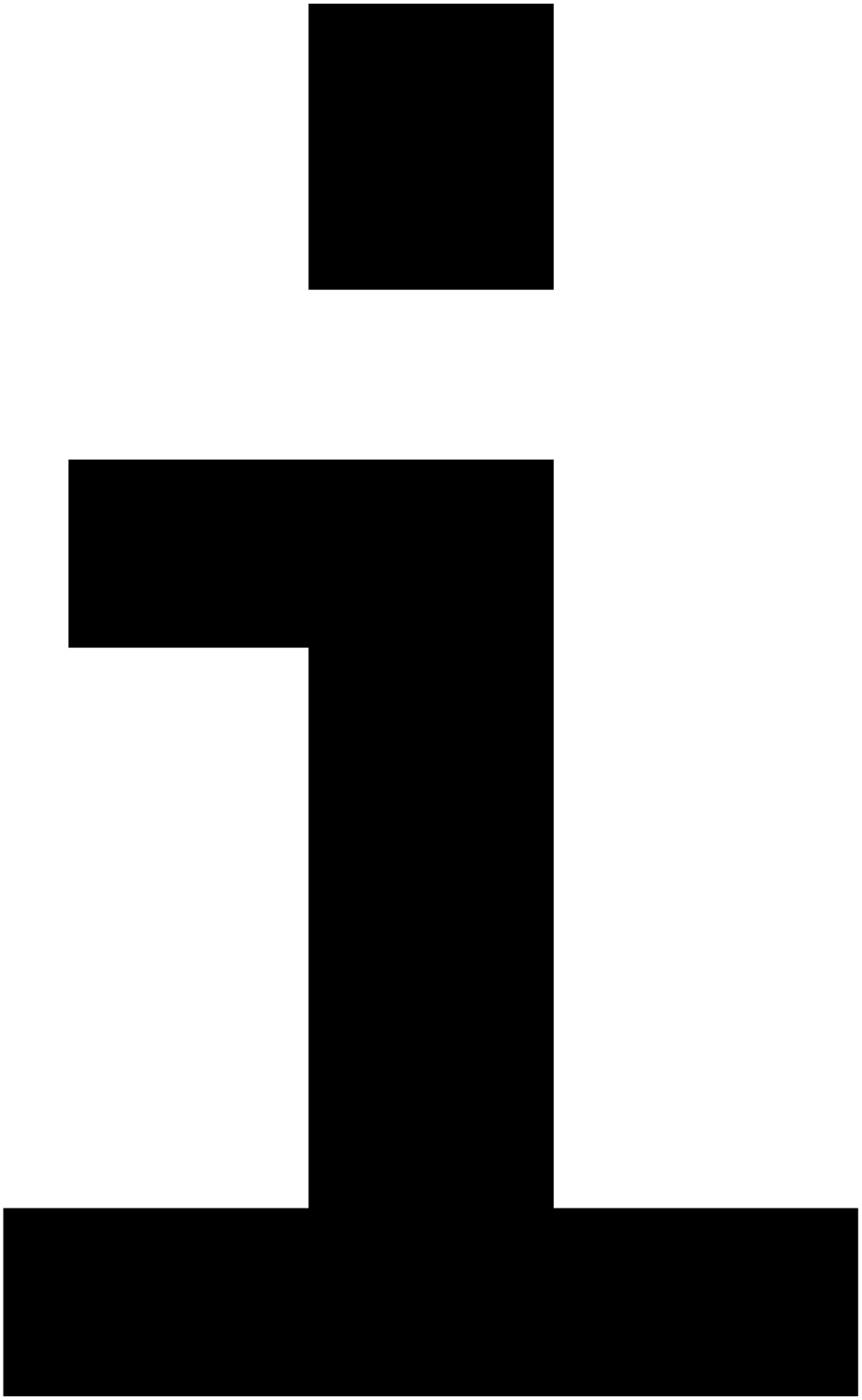
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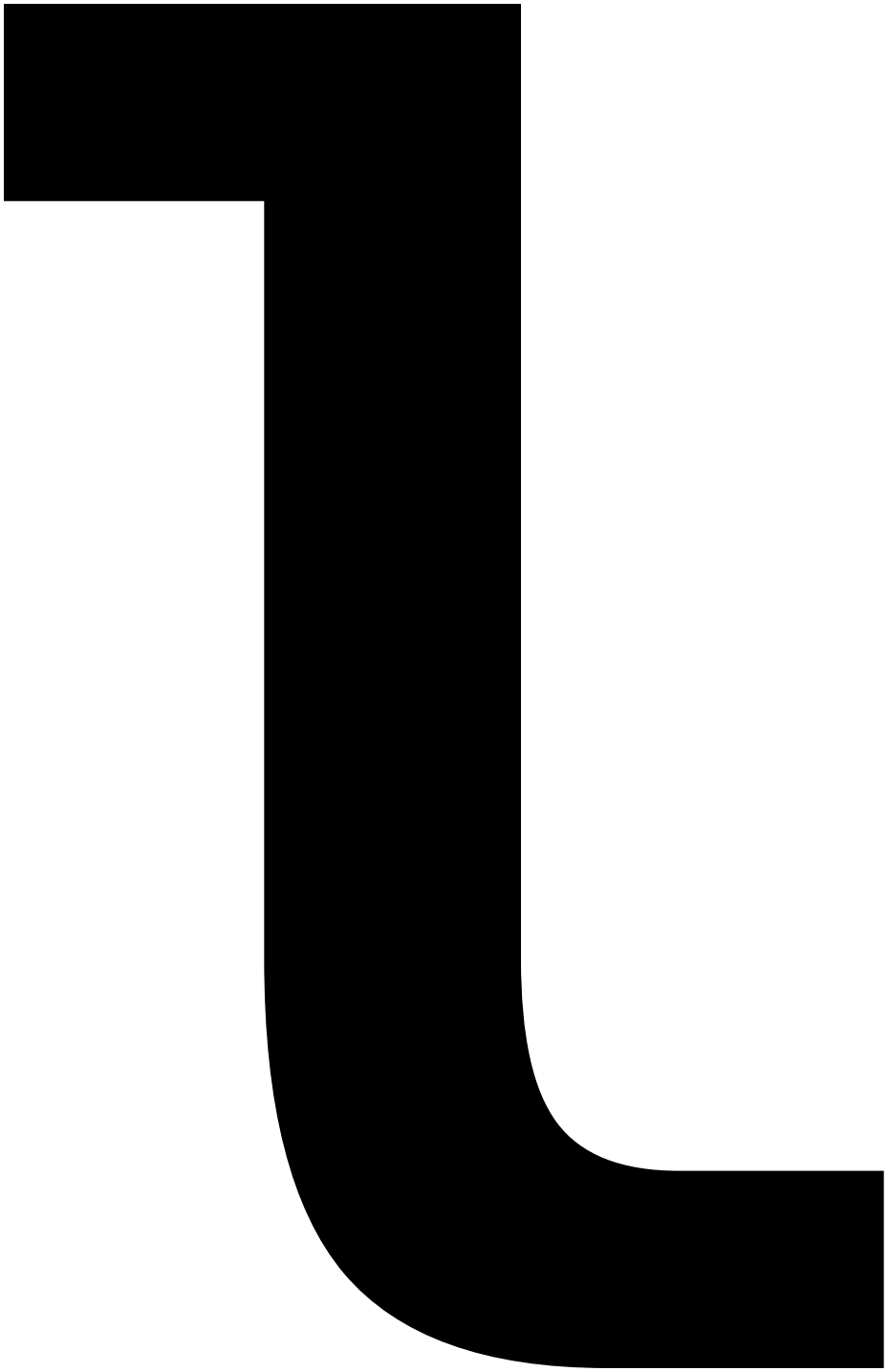




Datenquelle: EEX-Leipzig / Elix-Paris Auflösung: Stundenwerte Darstellung: Rolf Schuster

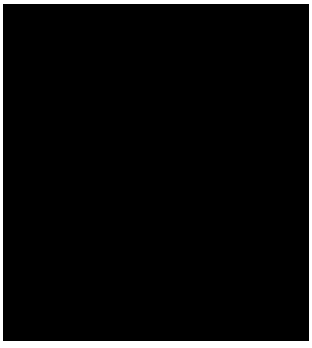
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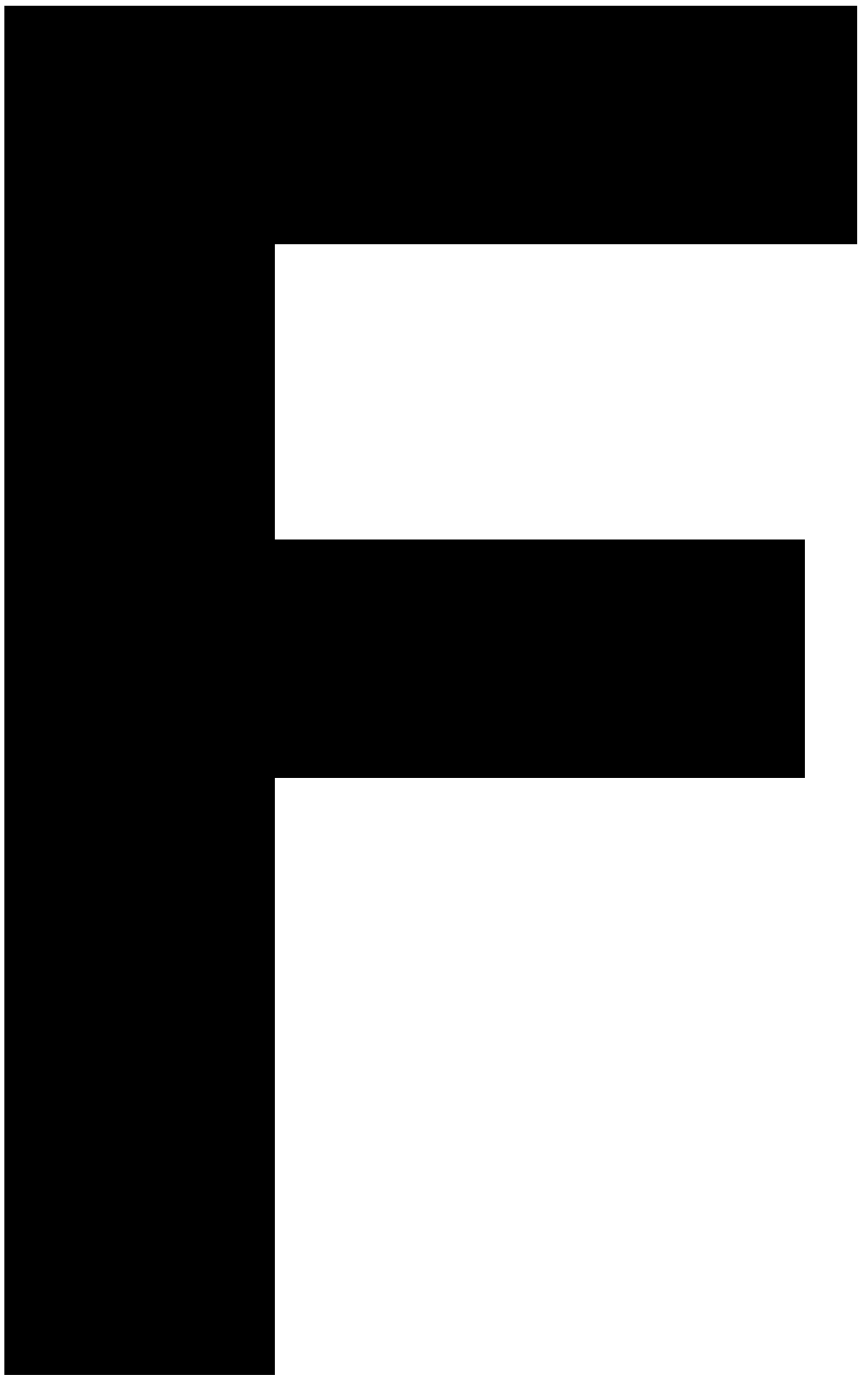


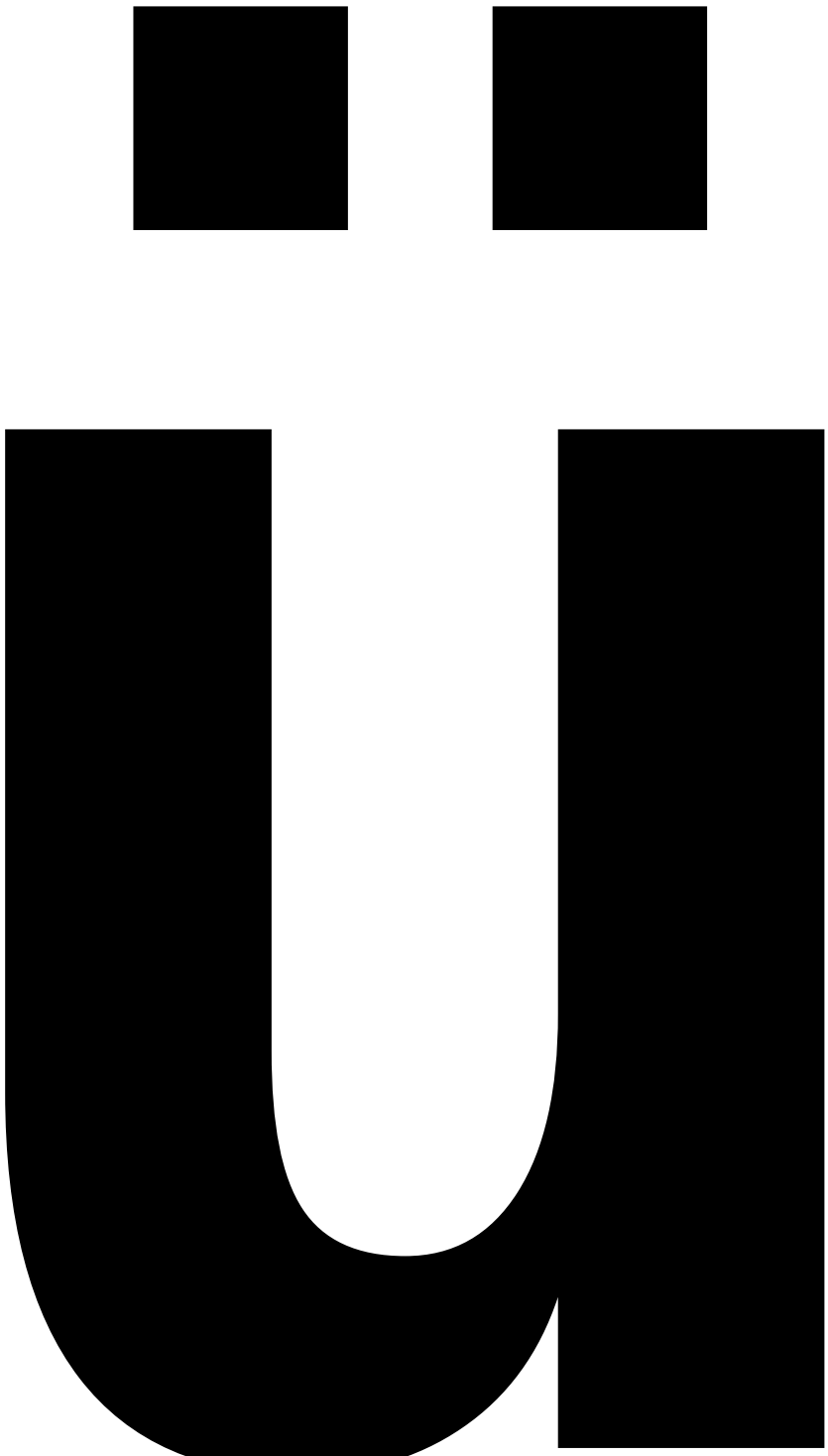
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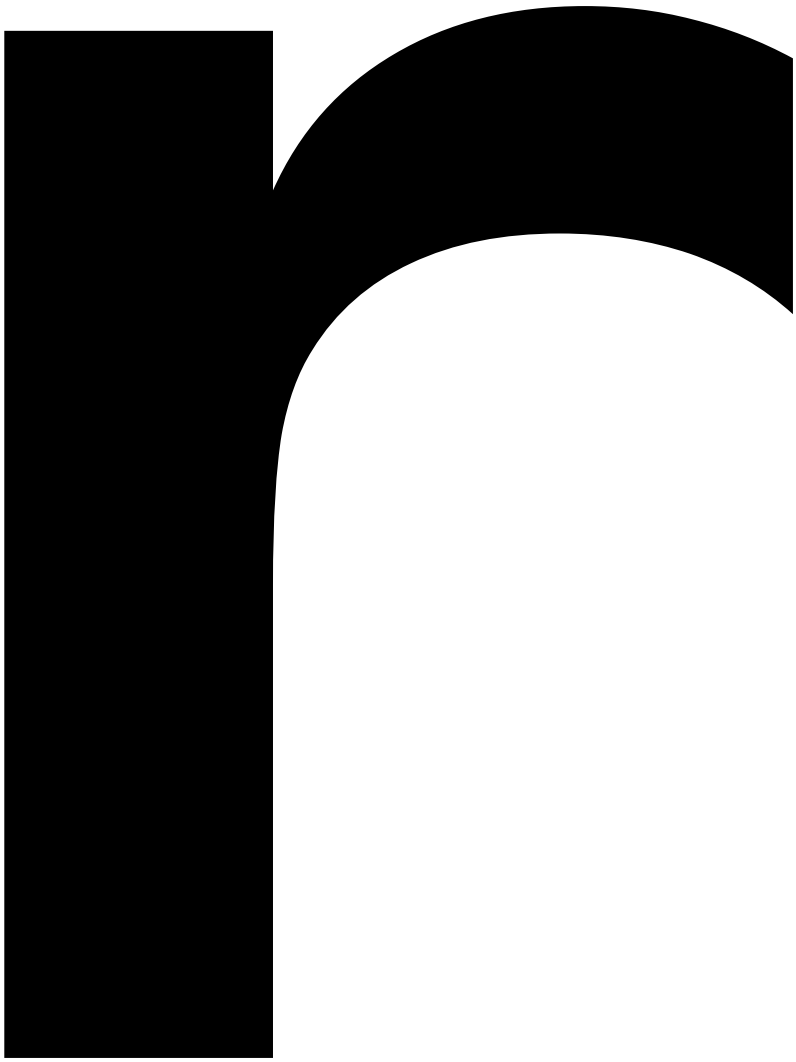
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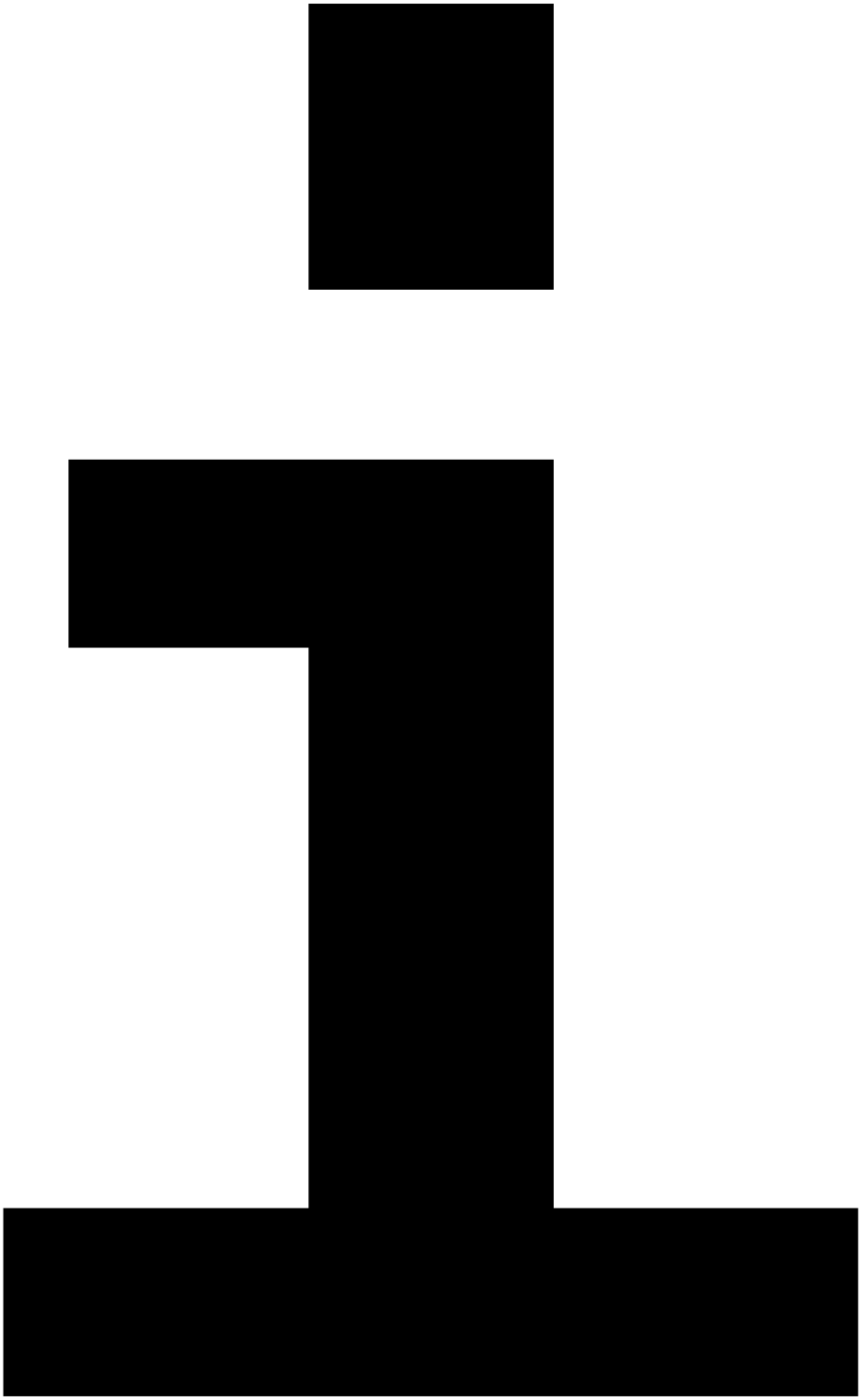
Am 6. September 2015 wurde zuviel produzierter deutscher „Öko“-Strom mit Geldgeschenken von bis zu 30 €/ MWh in die europäischen Märkte gedrückt (Grafik: Rolf Schuster)





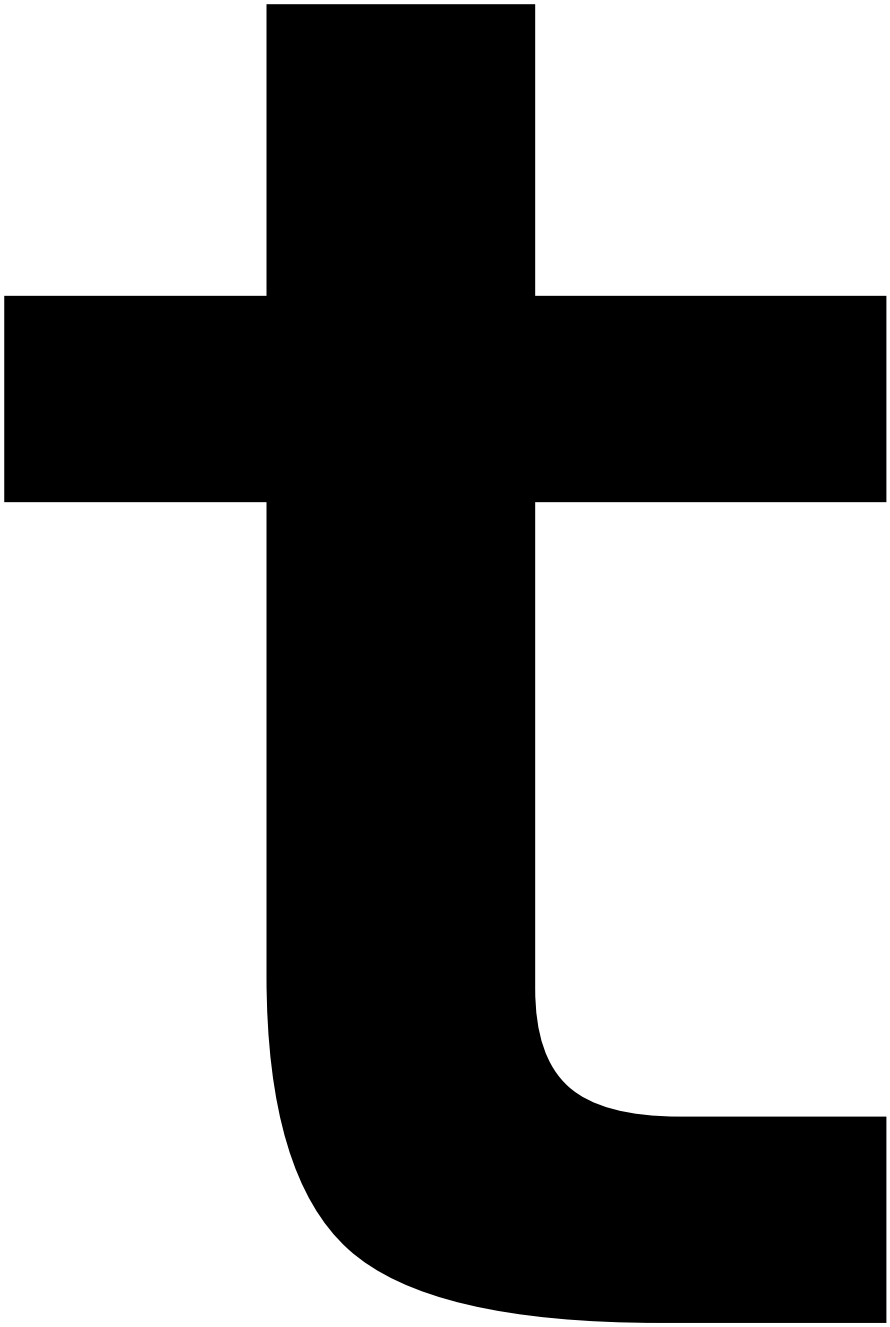


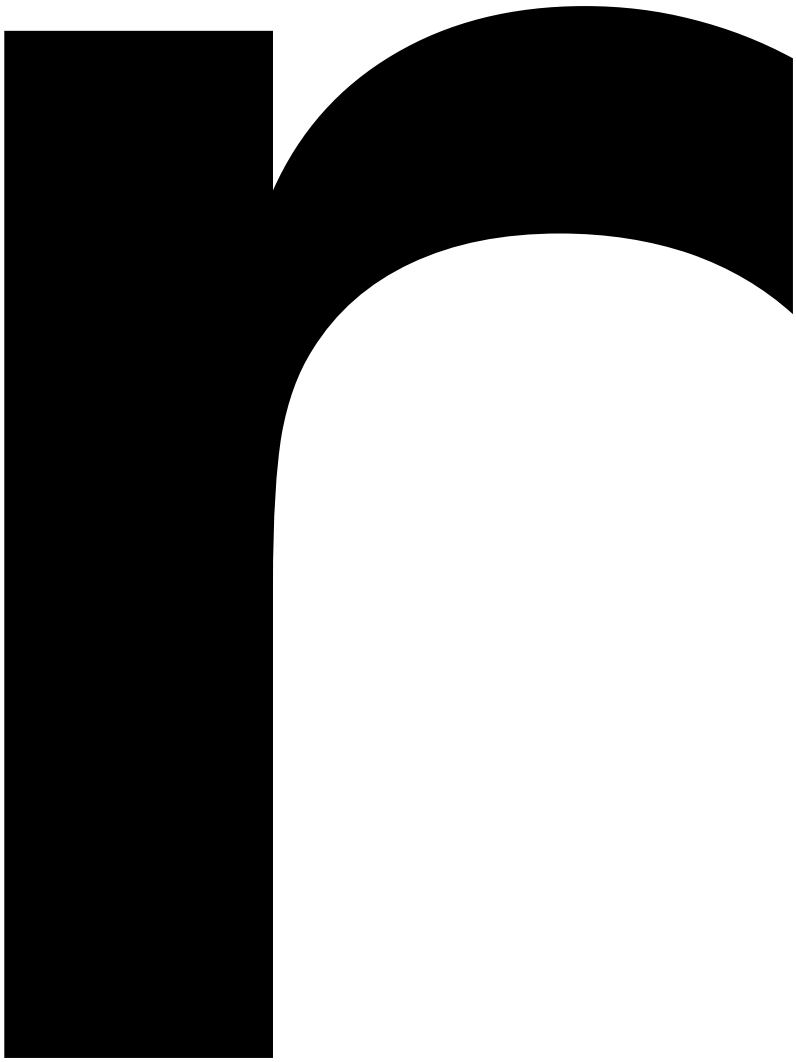
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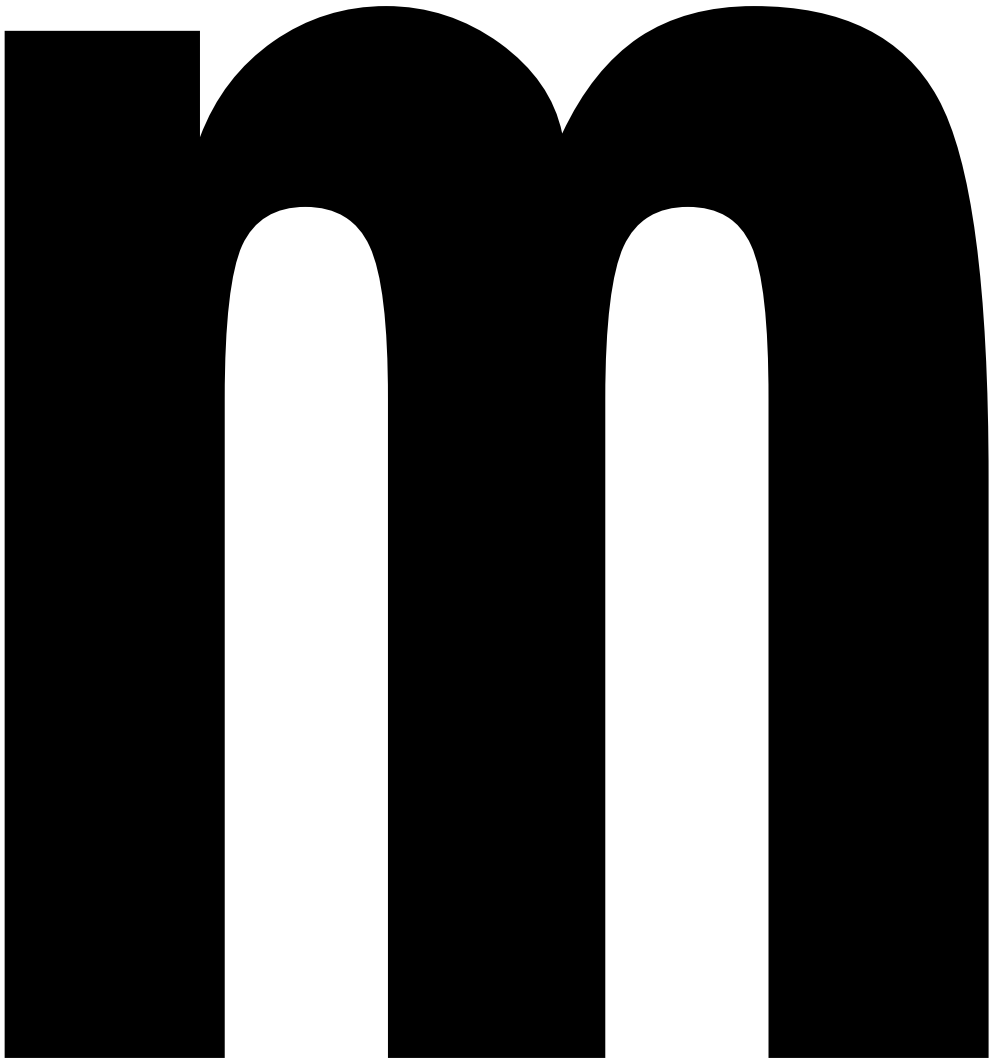
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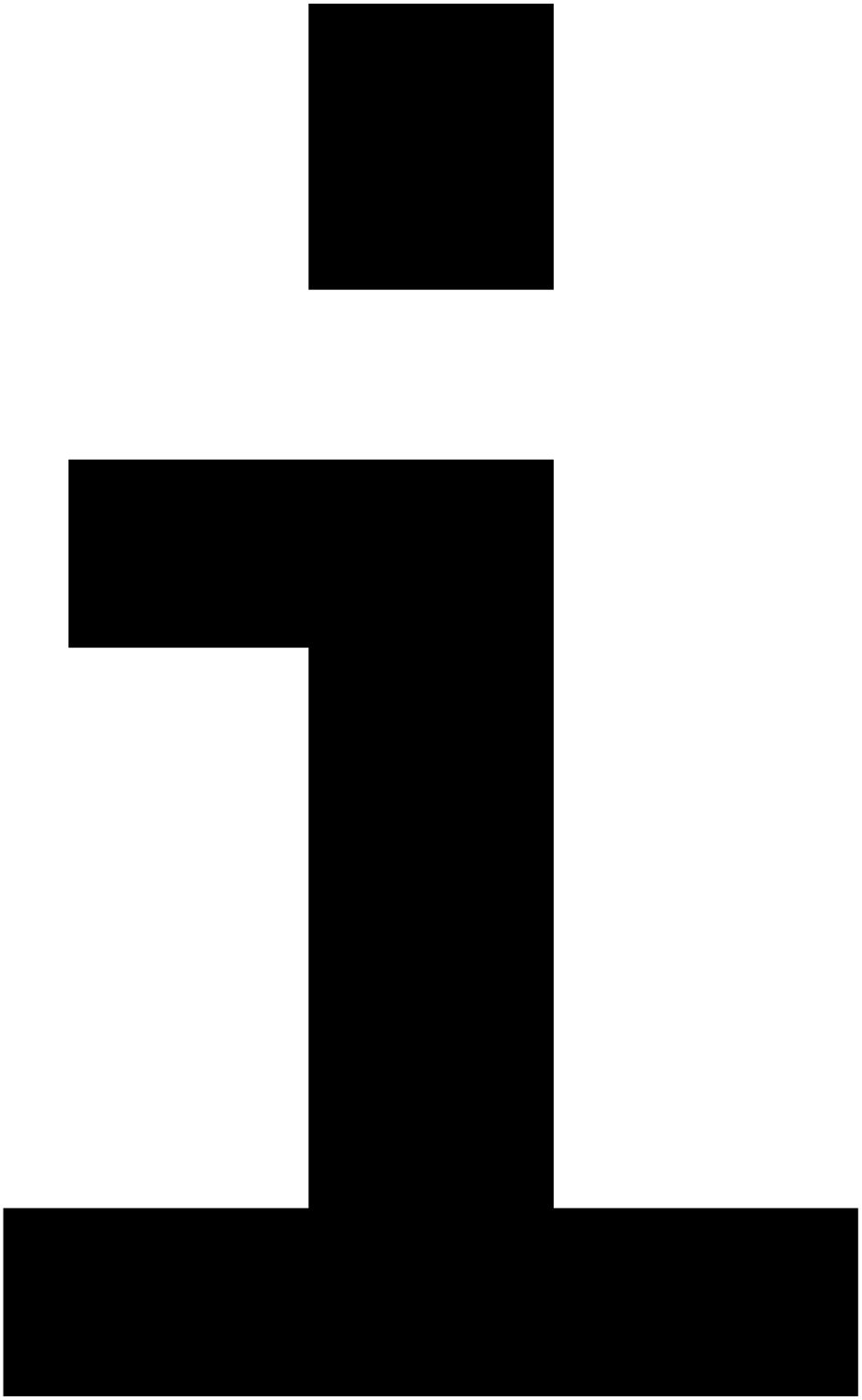


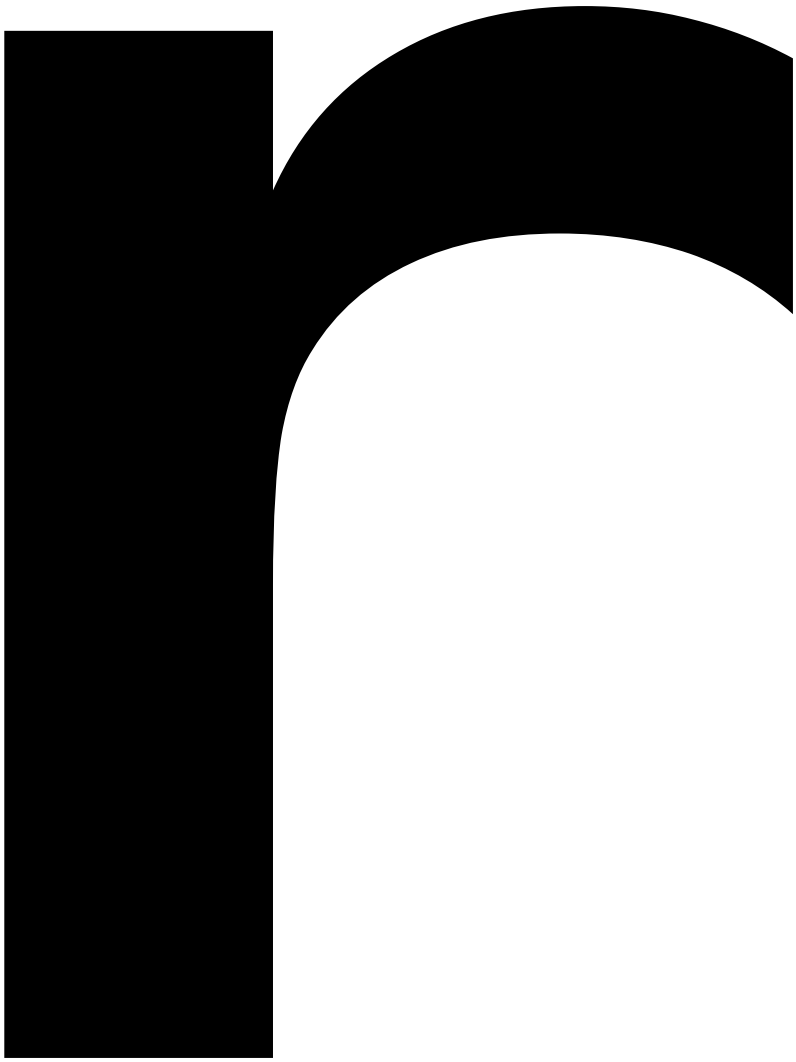


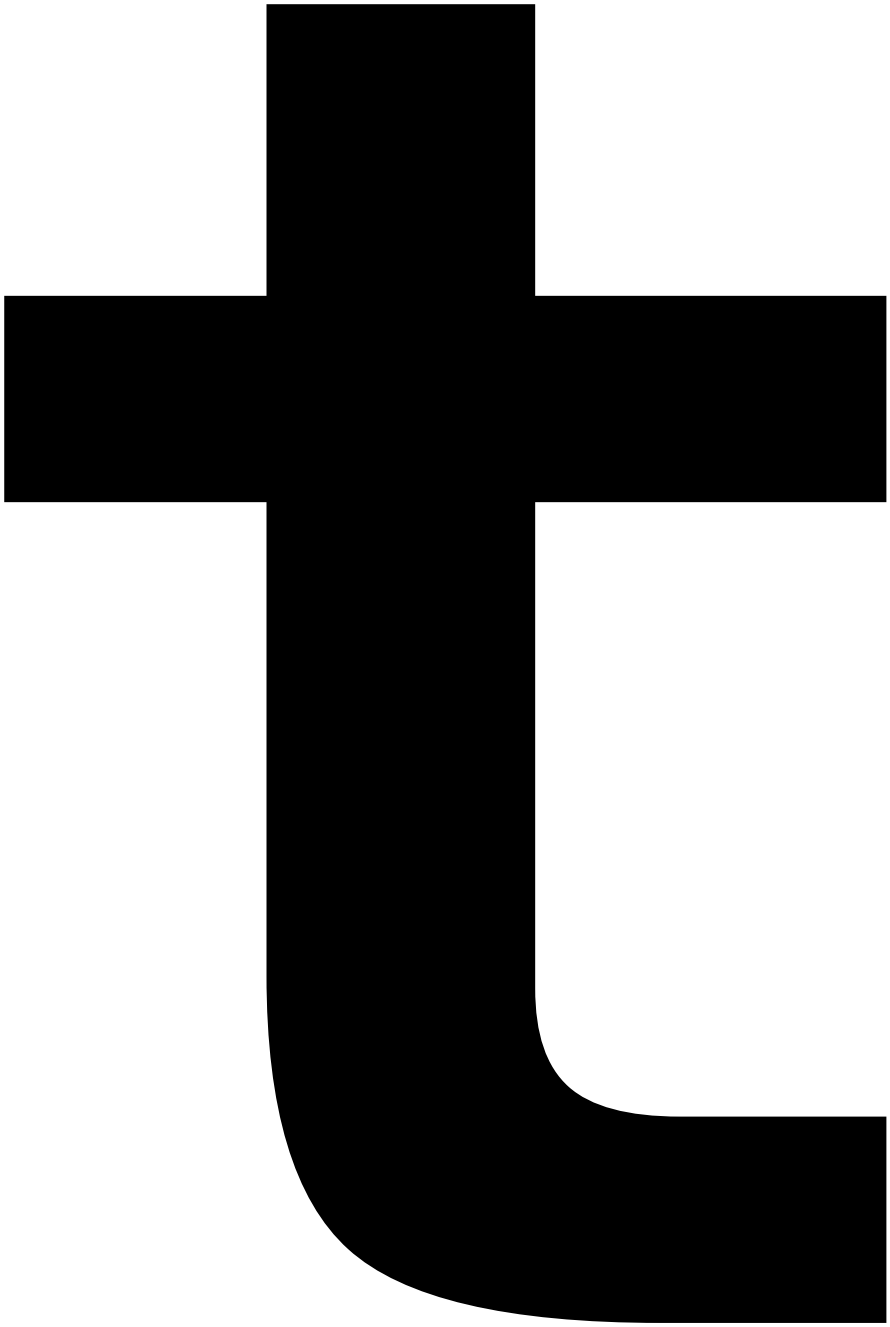
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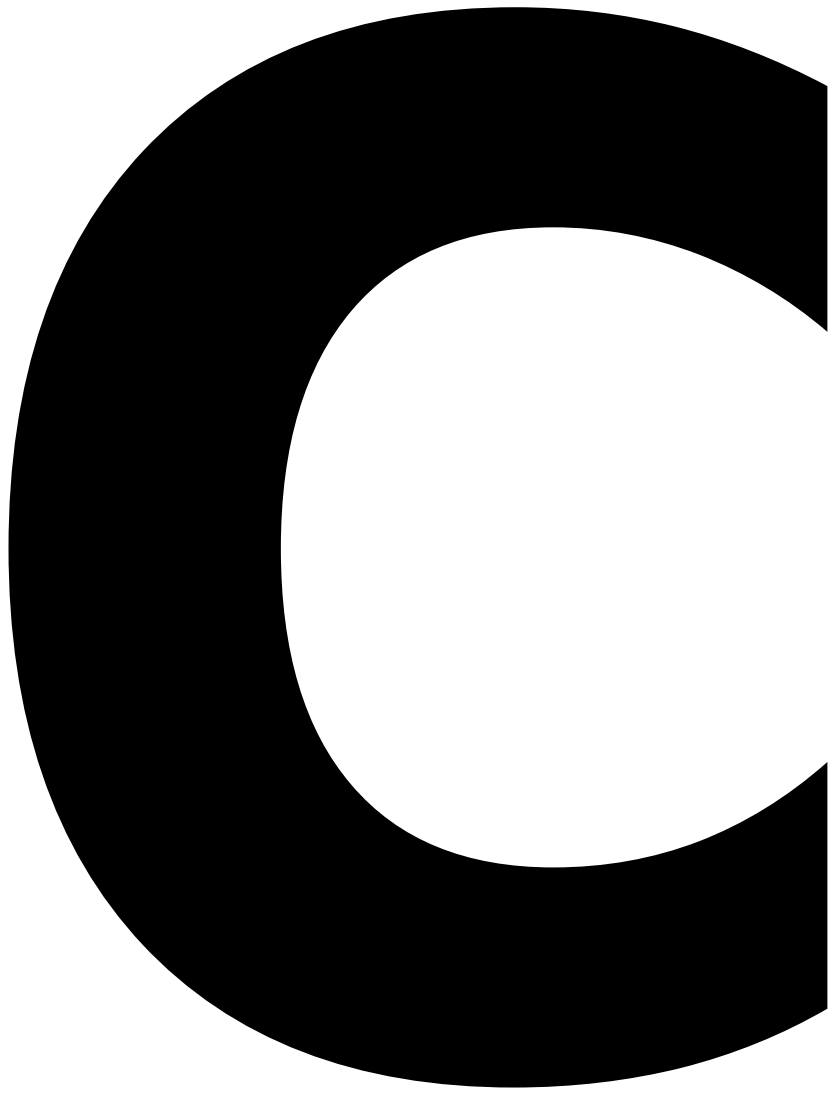


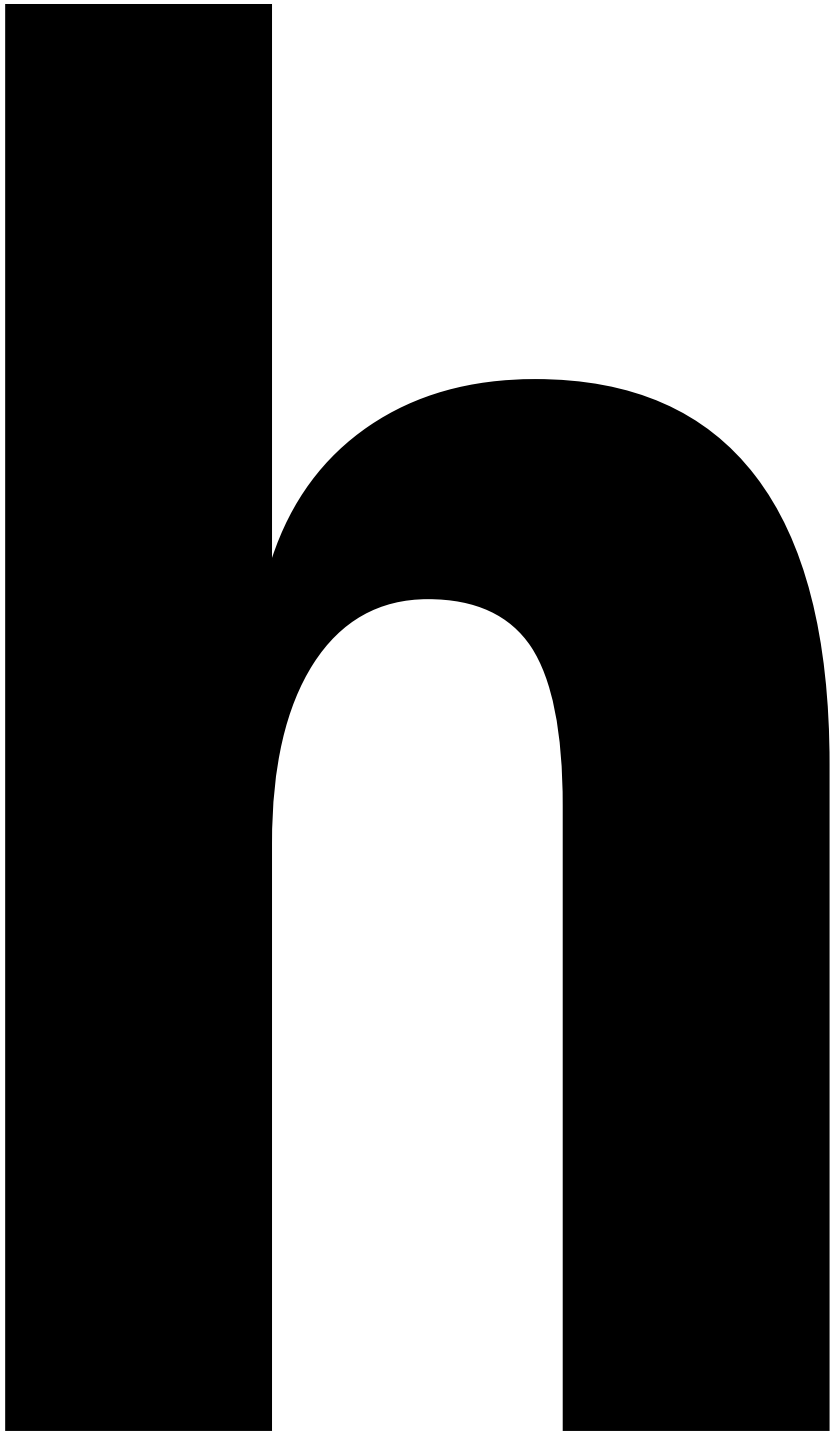




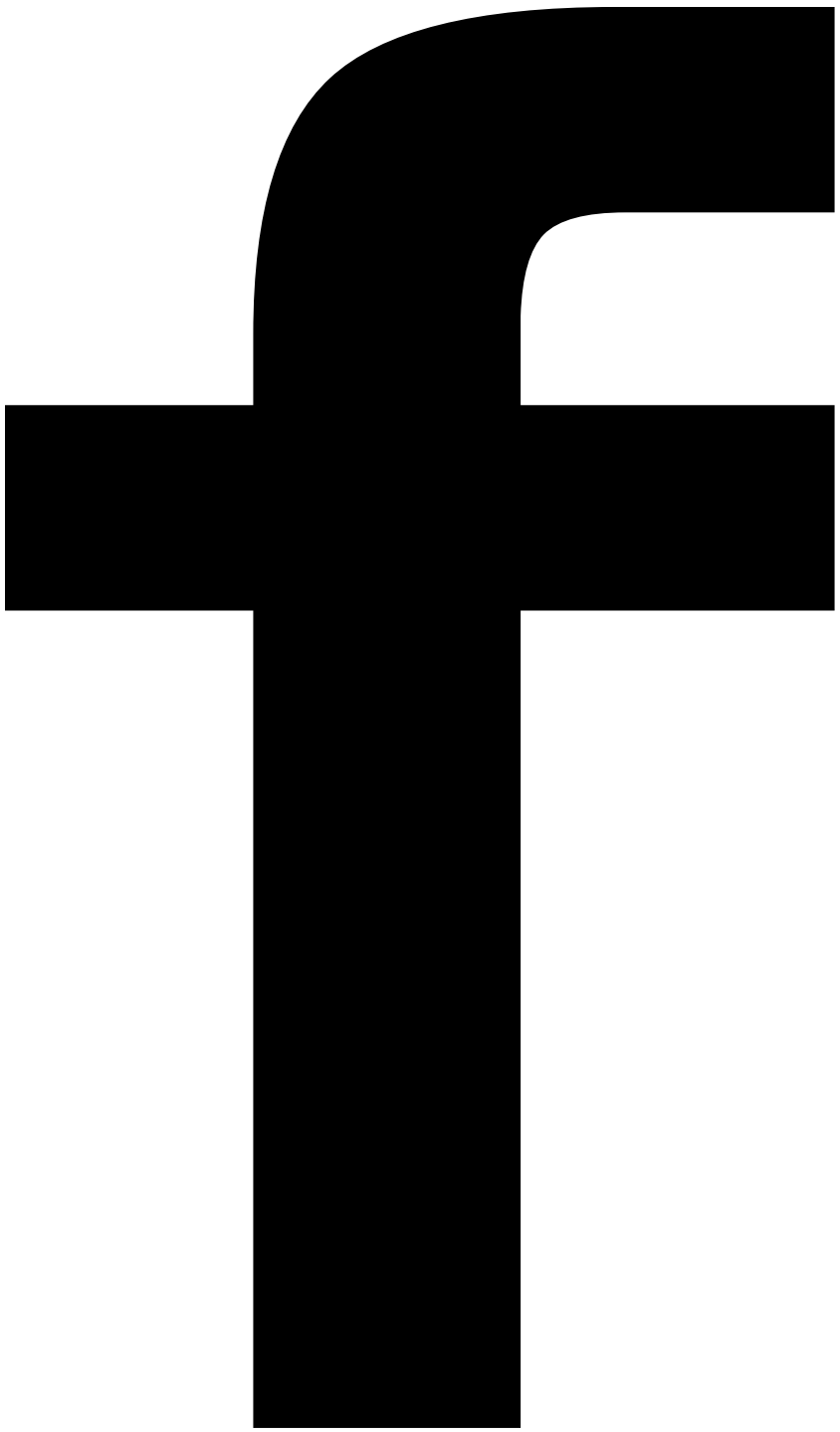


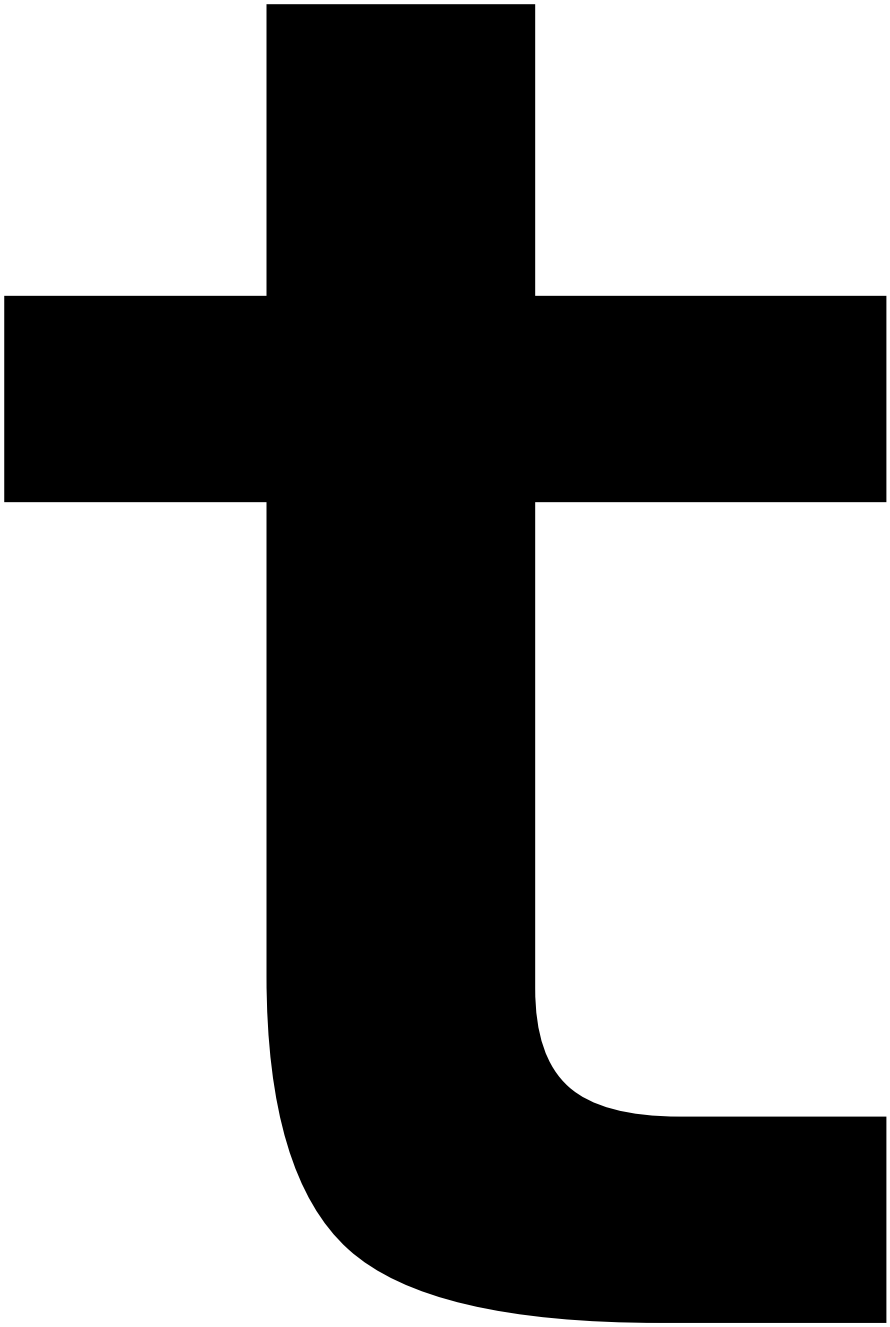
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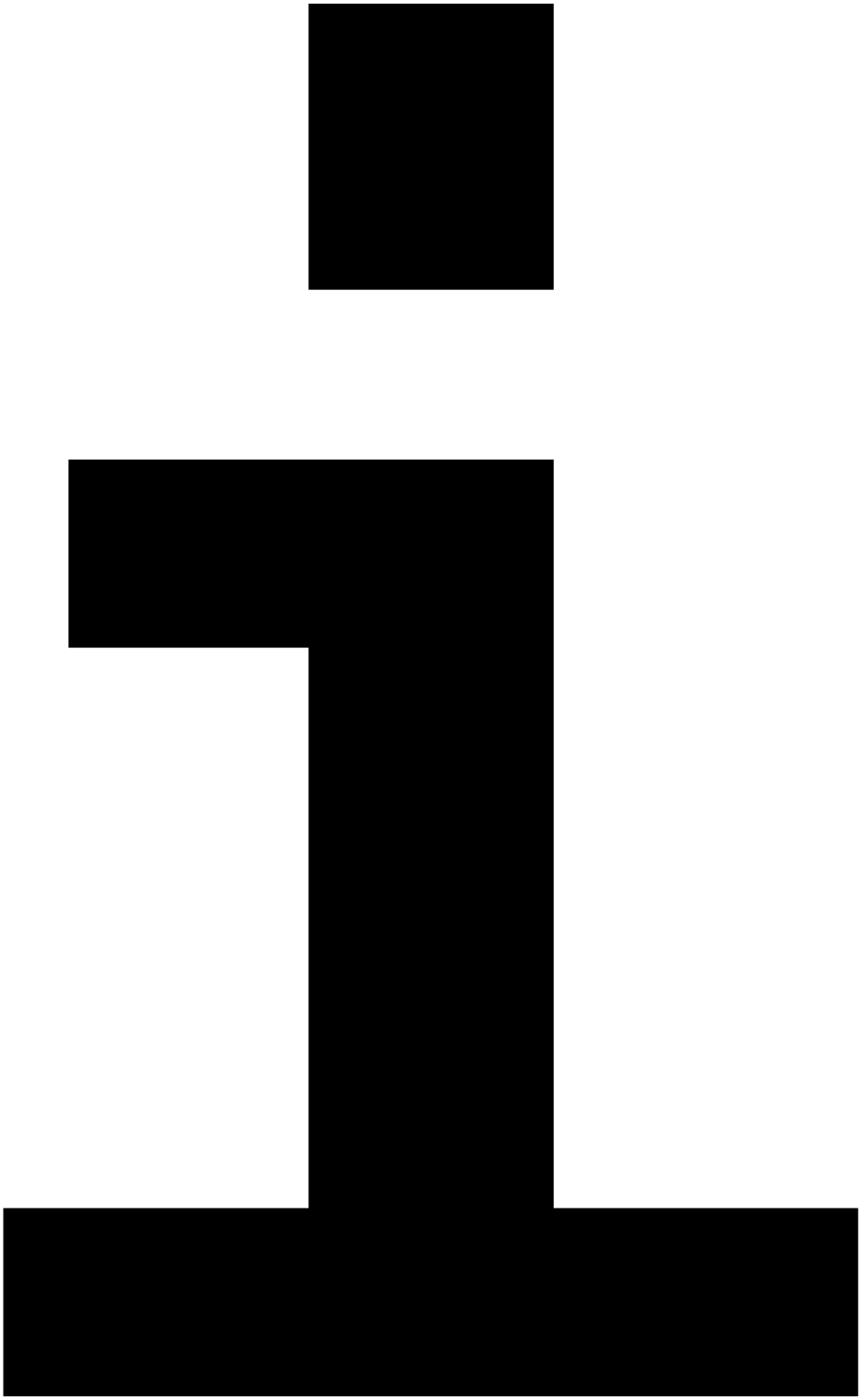










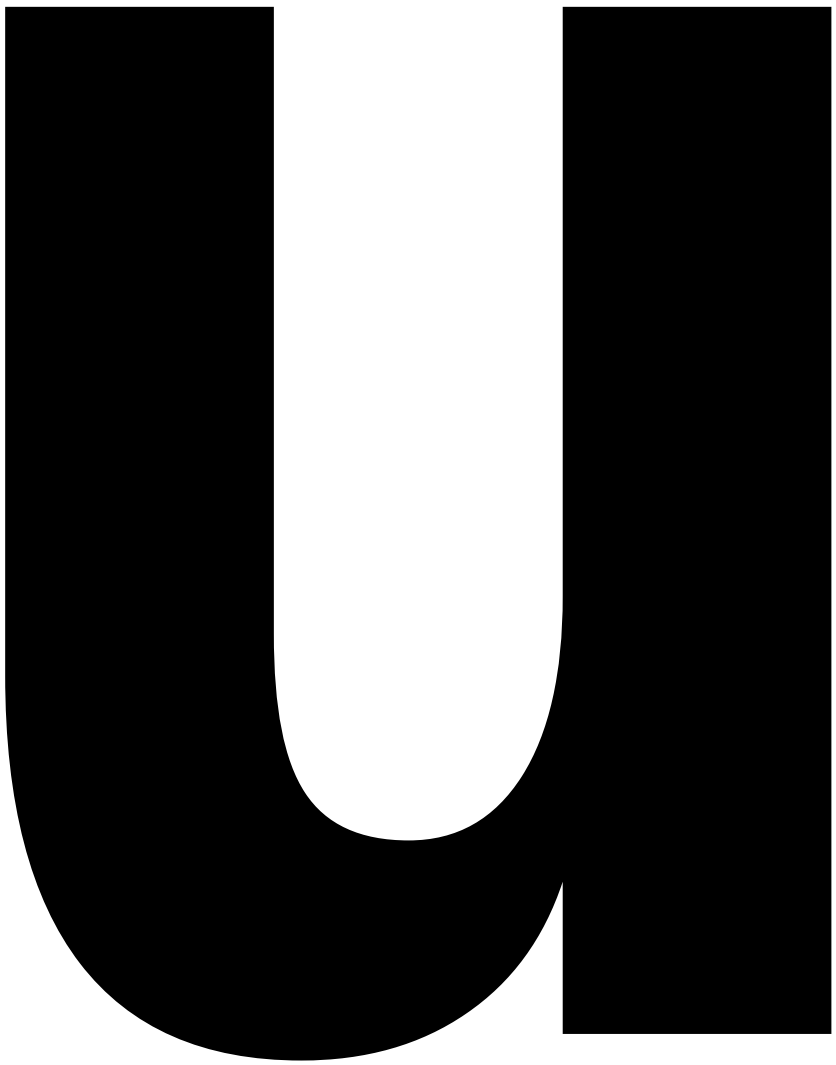


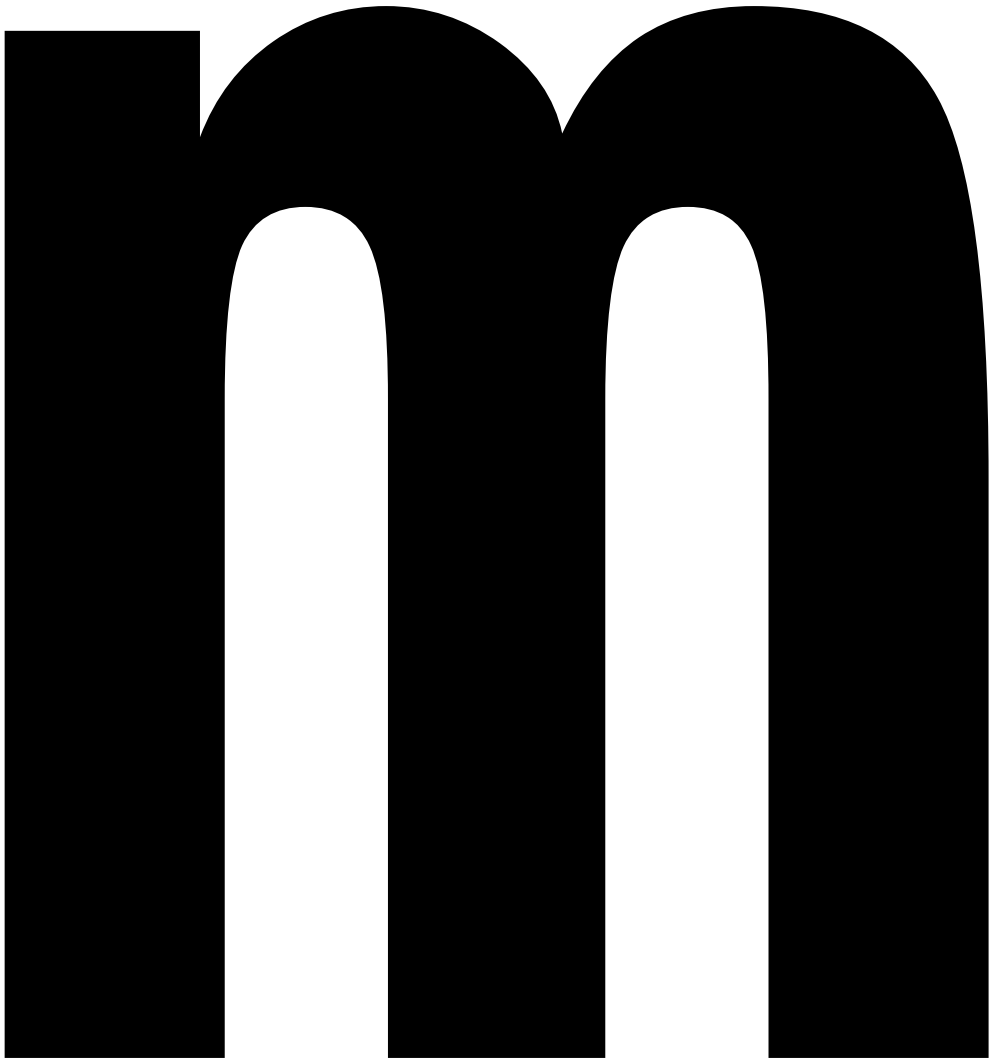
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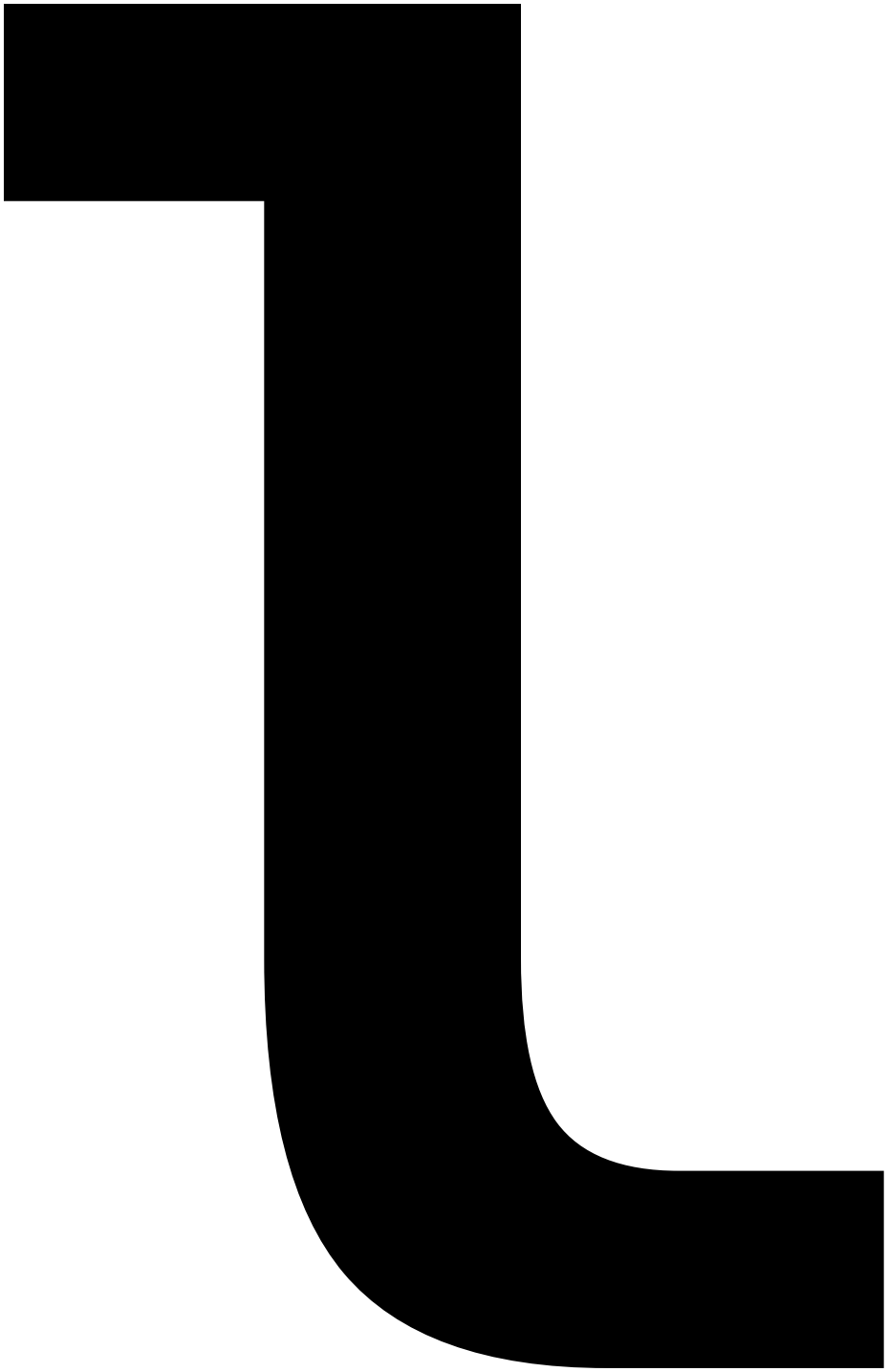
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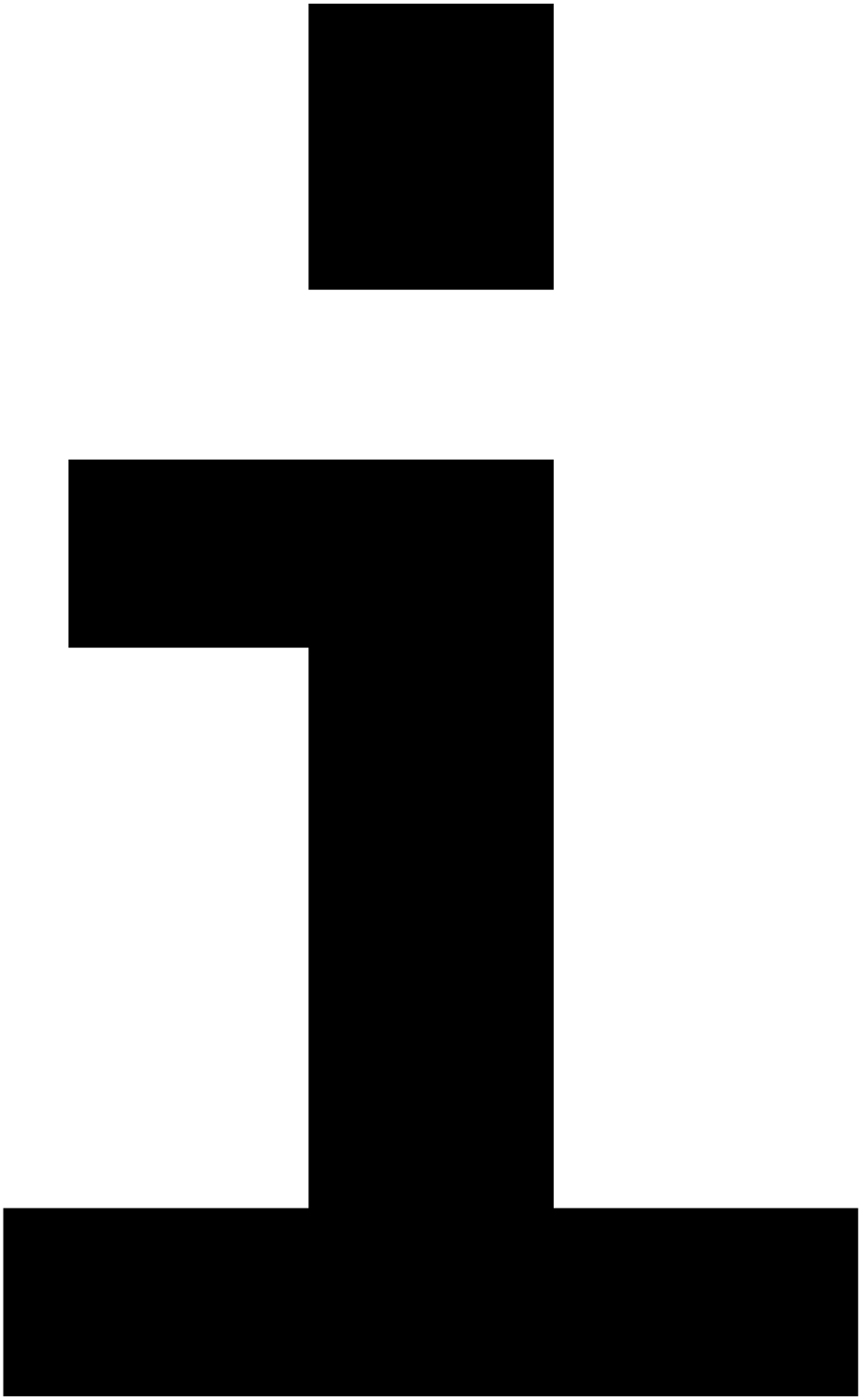
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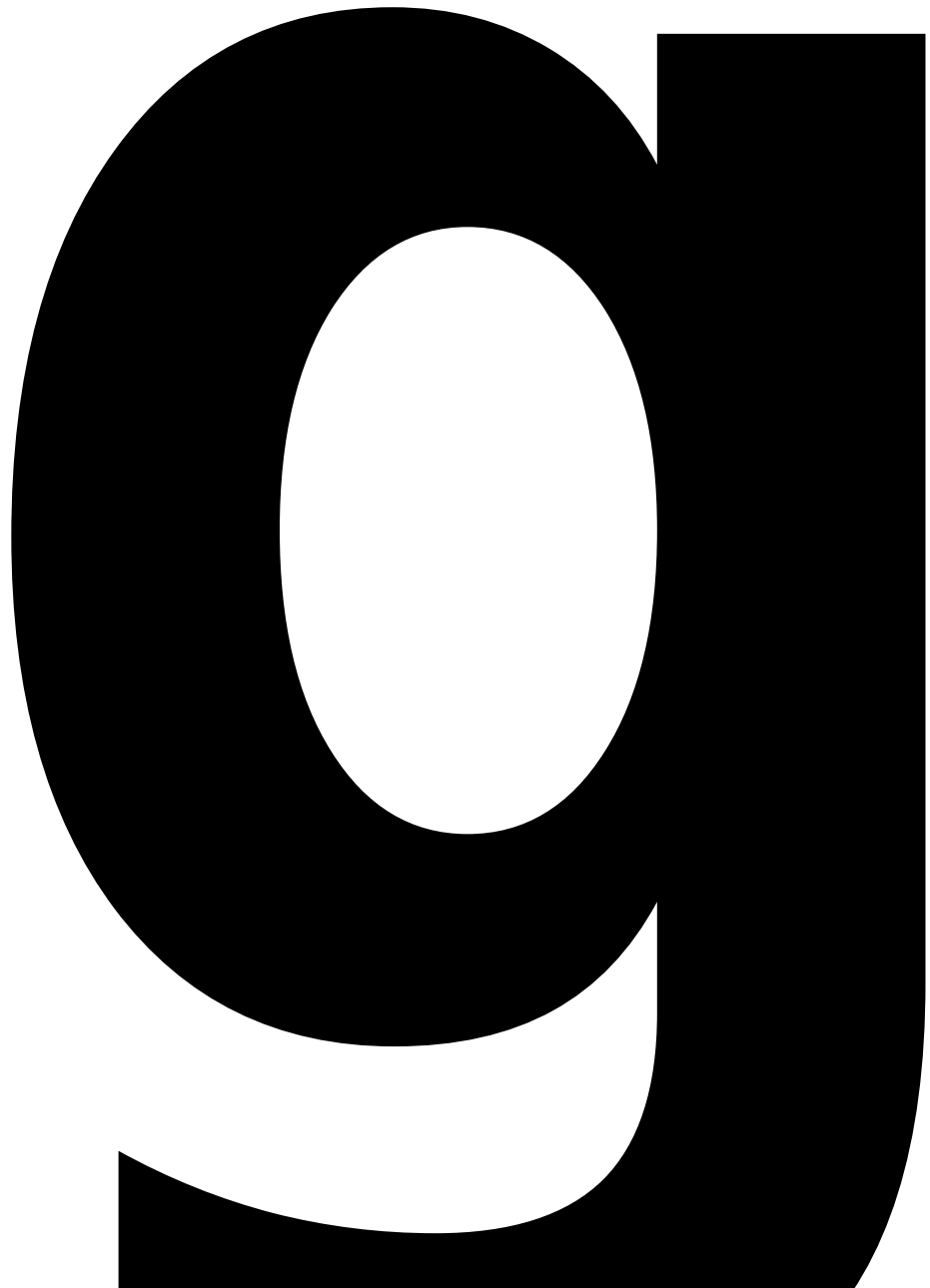








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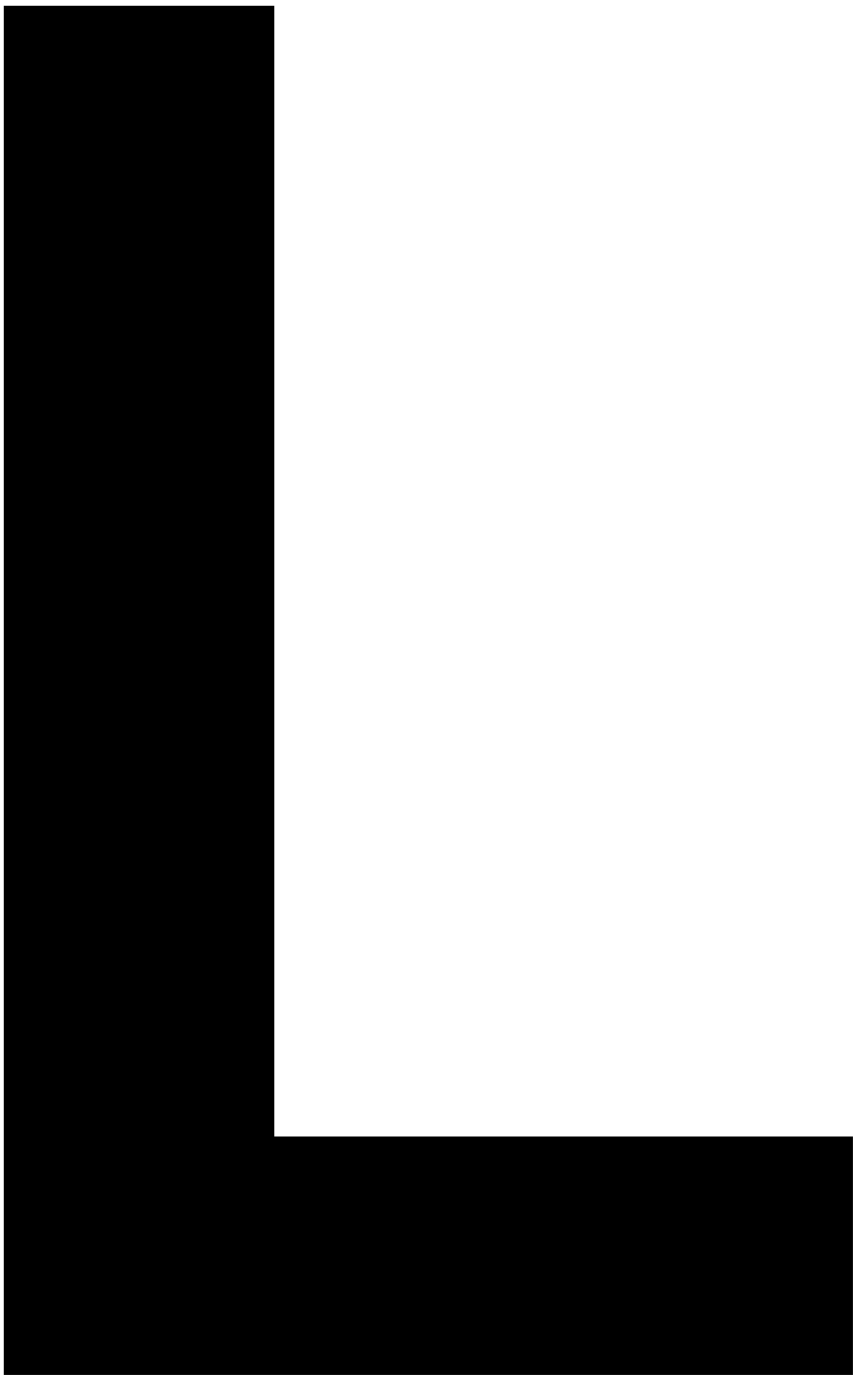
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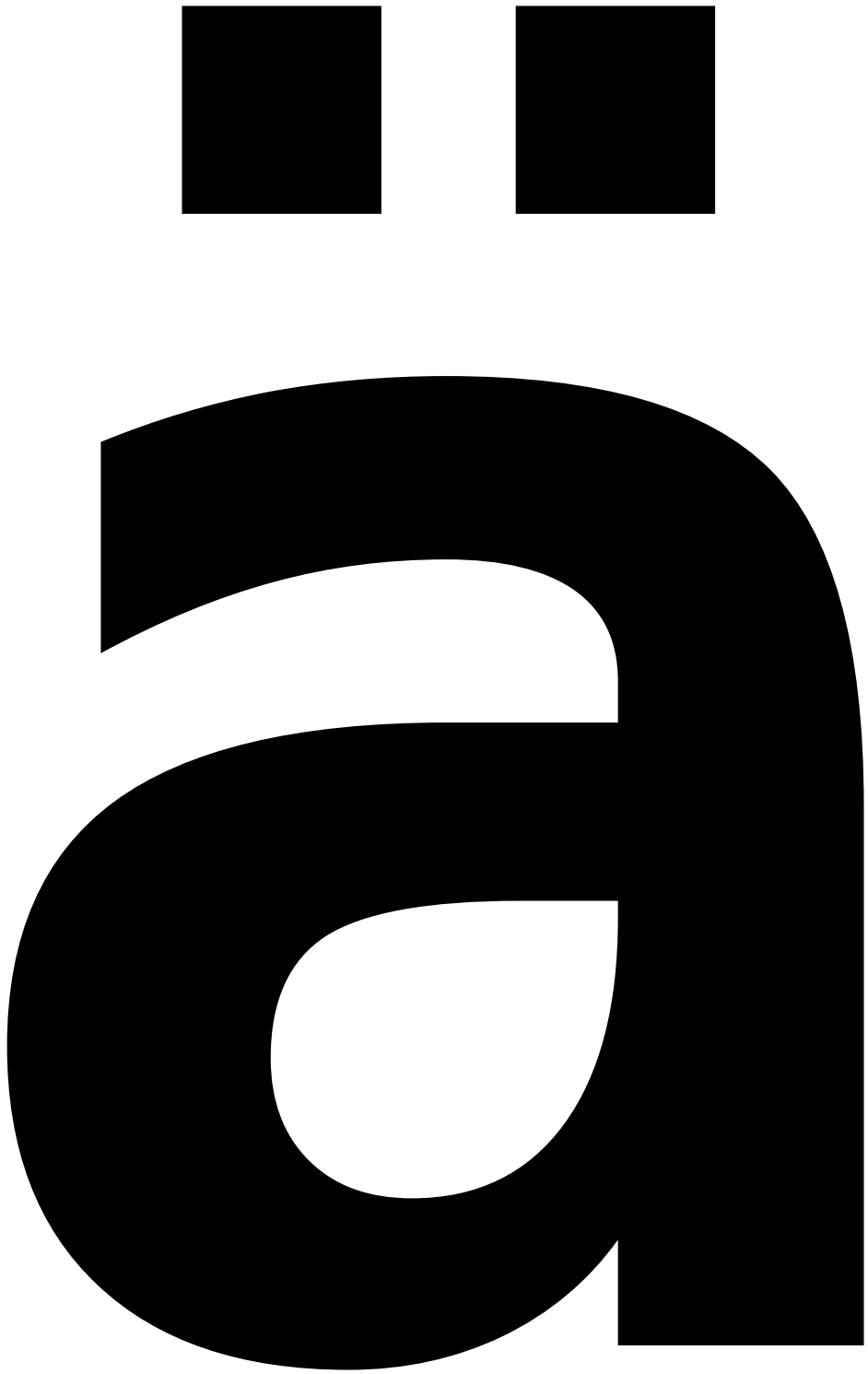
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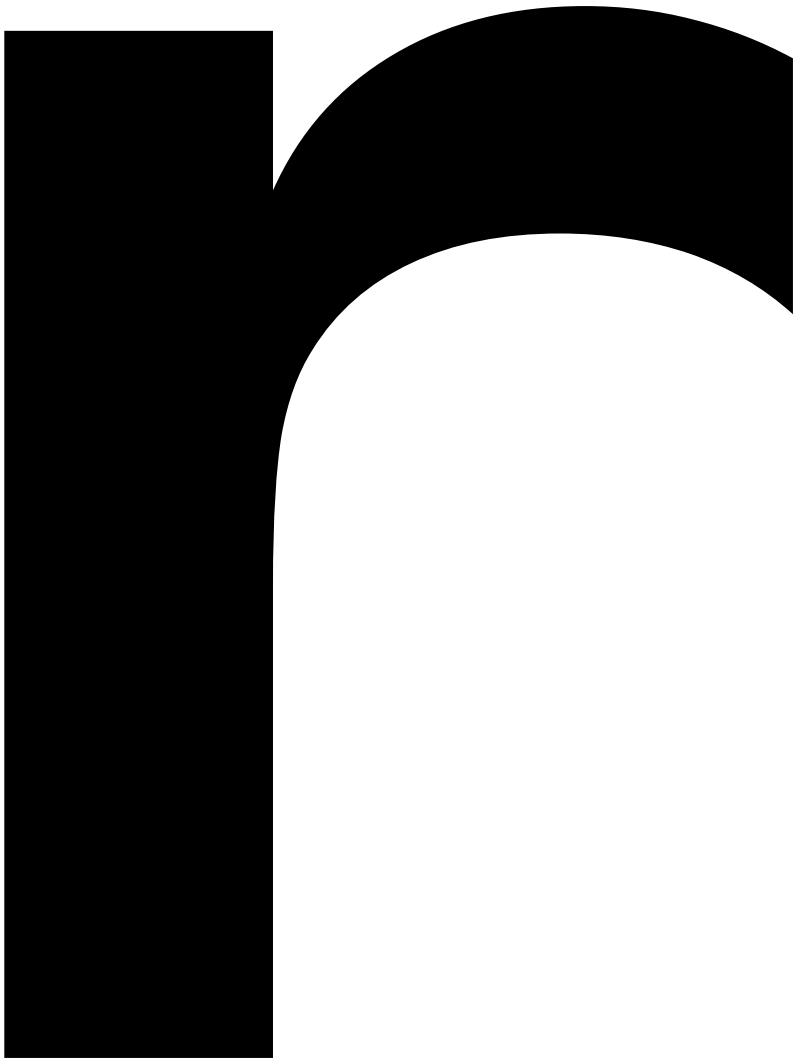




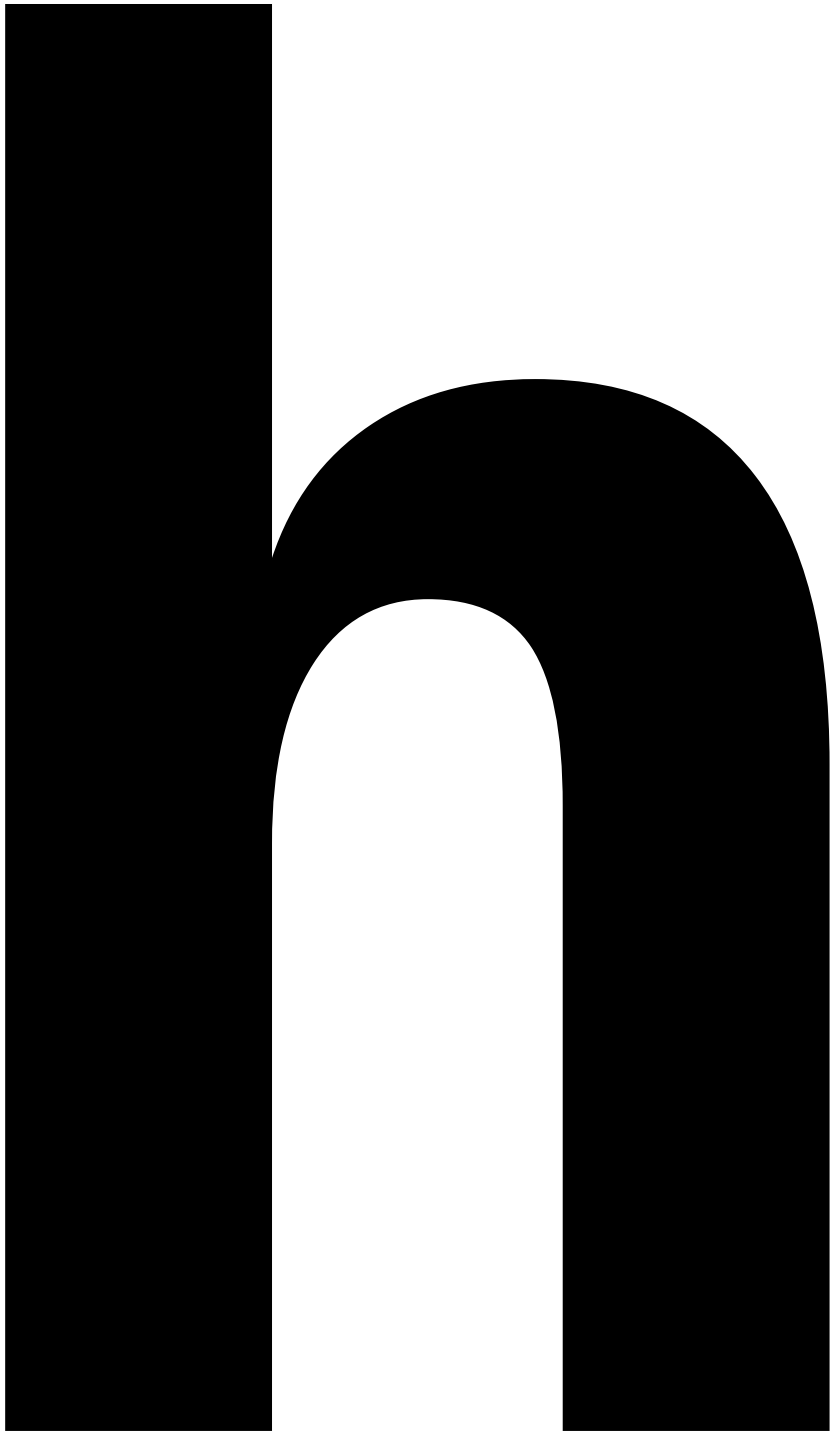
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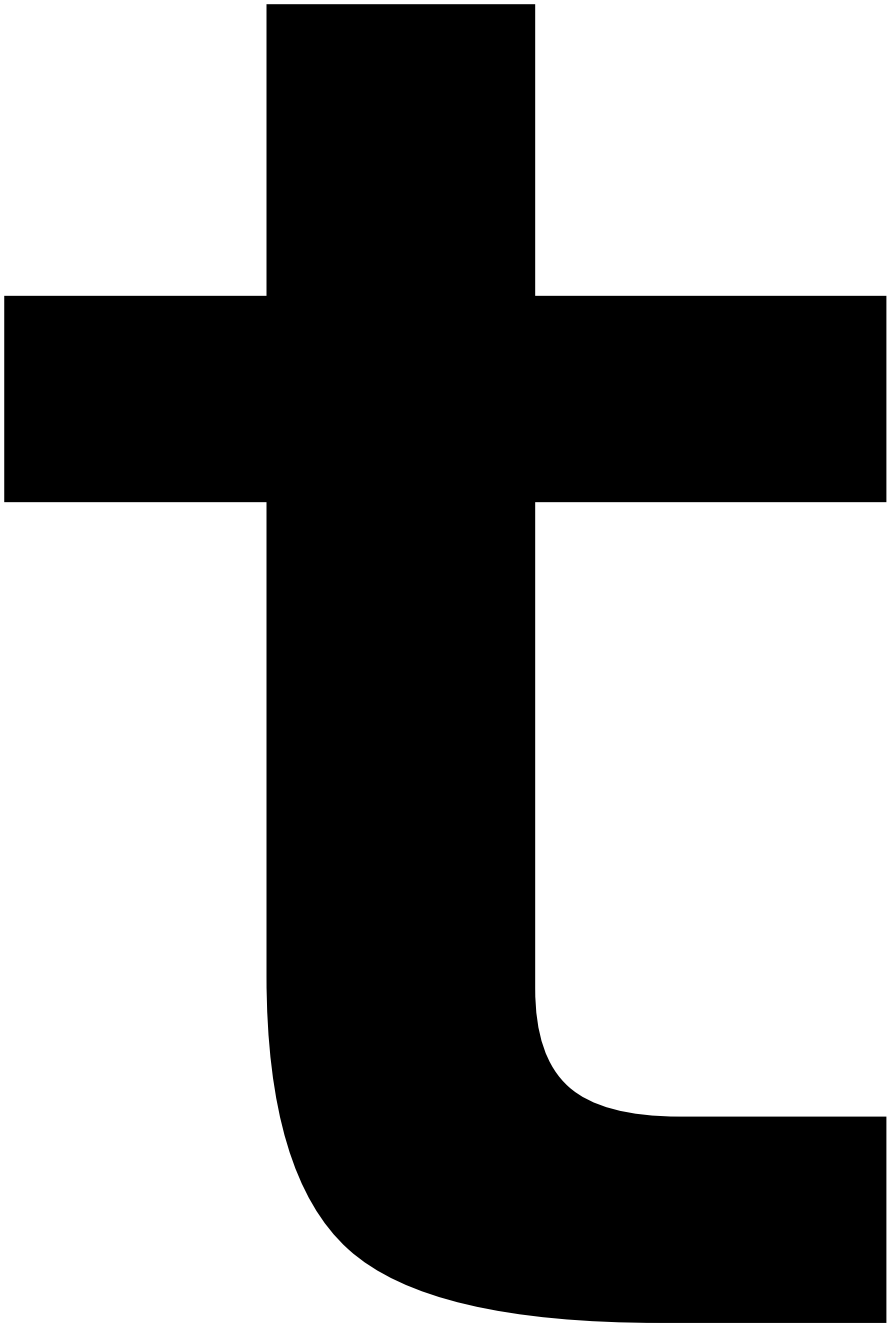
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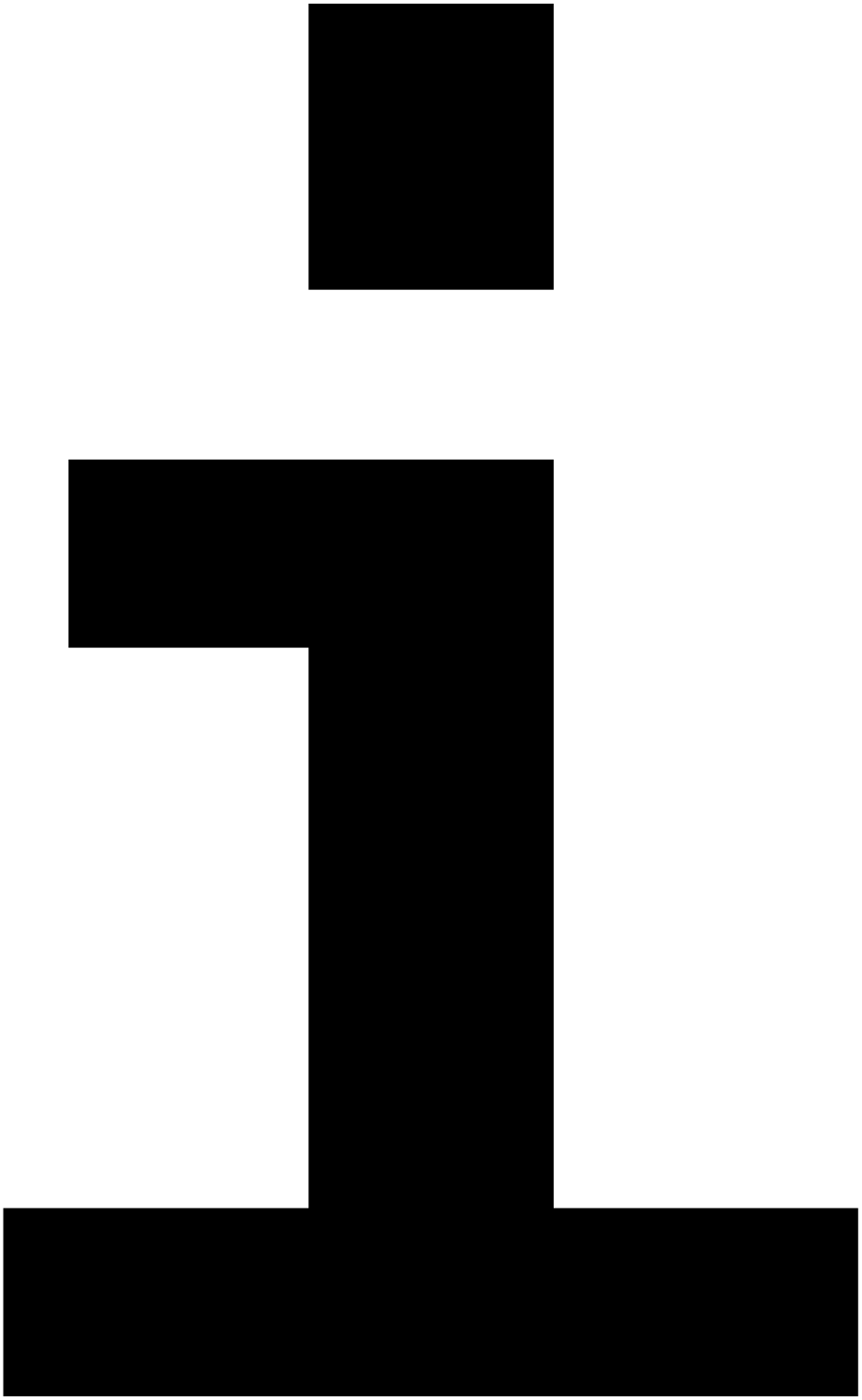
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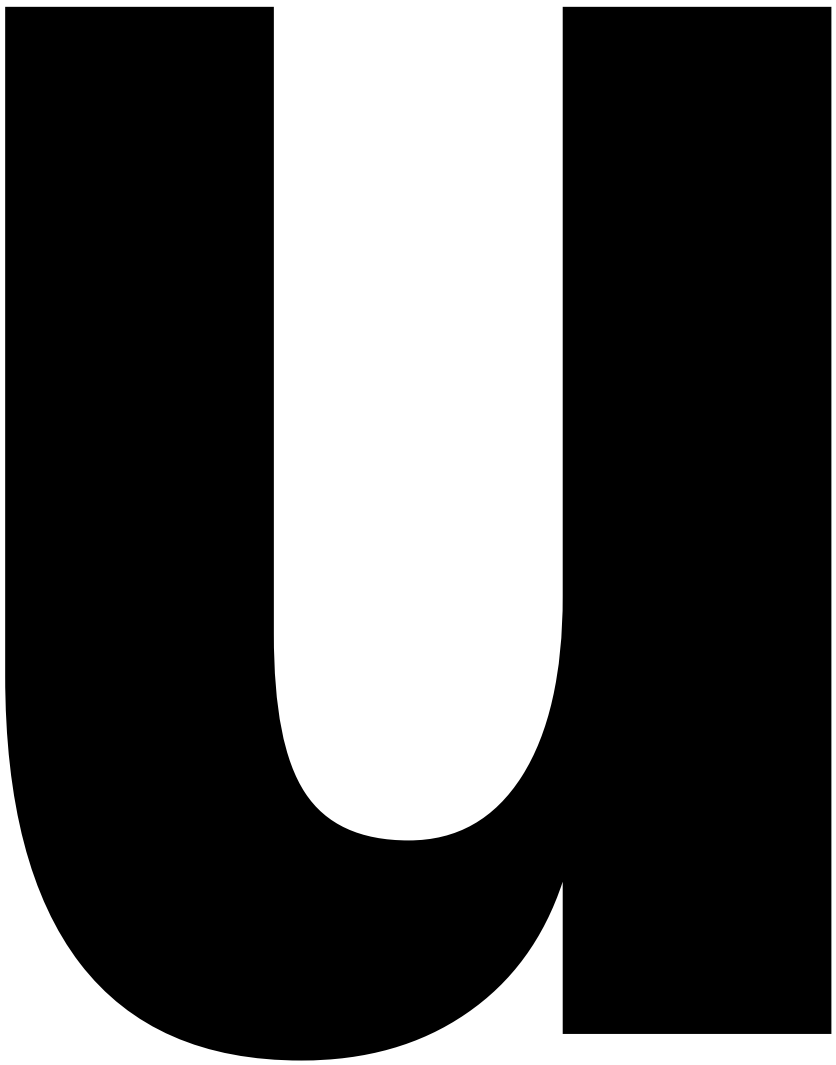
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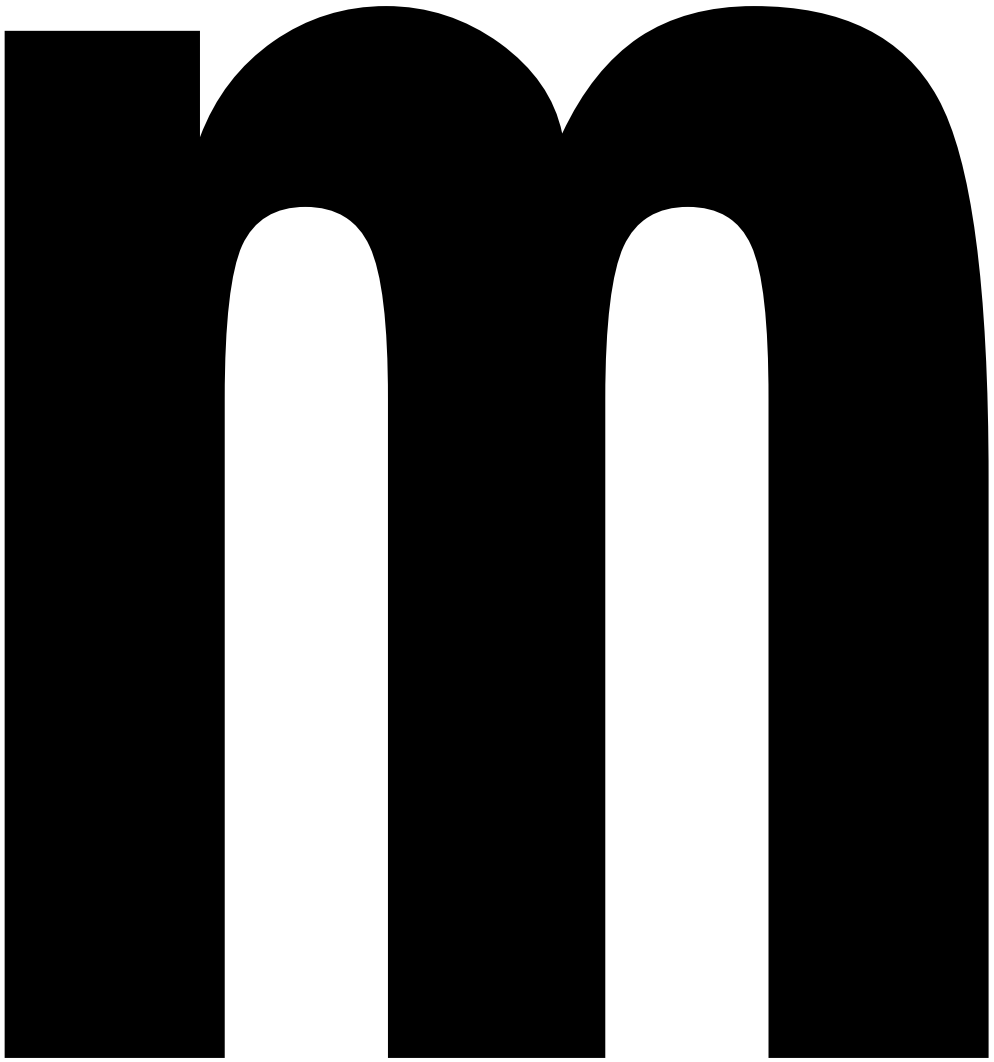
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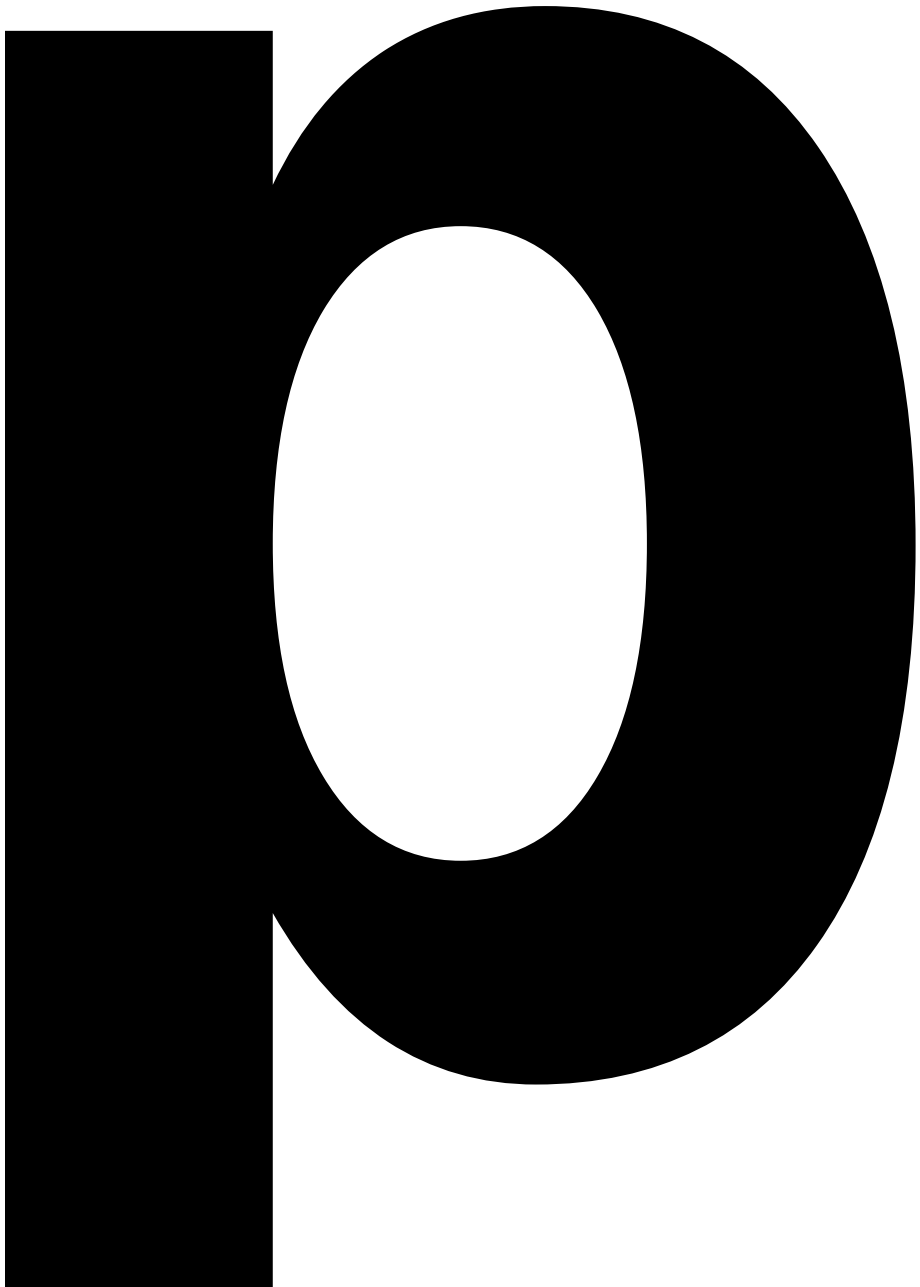
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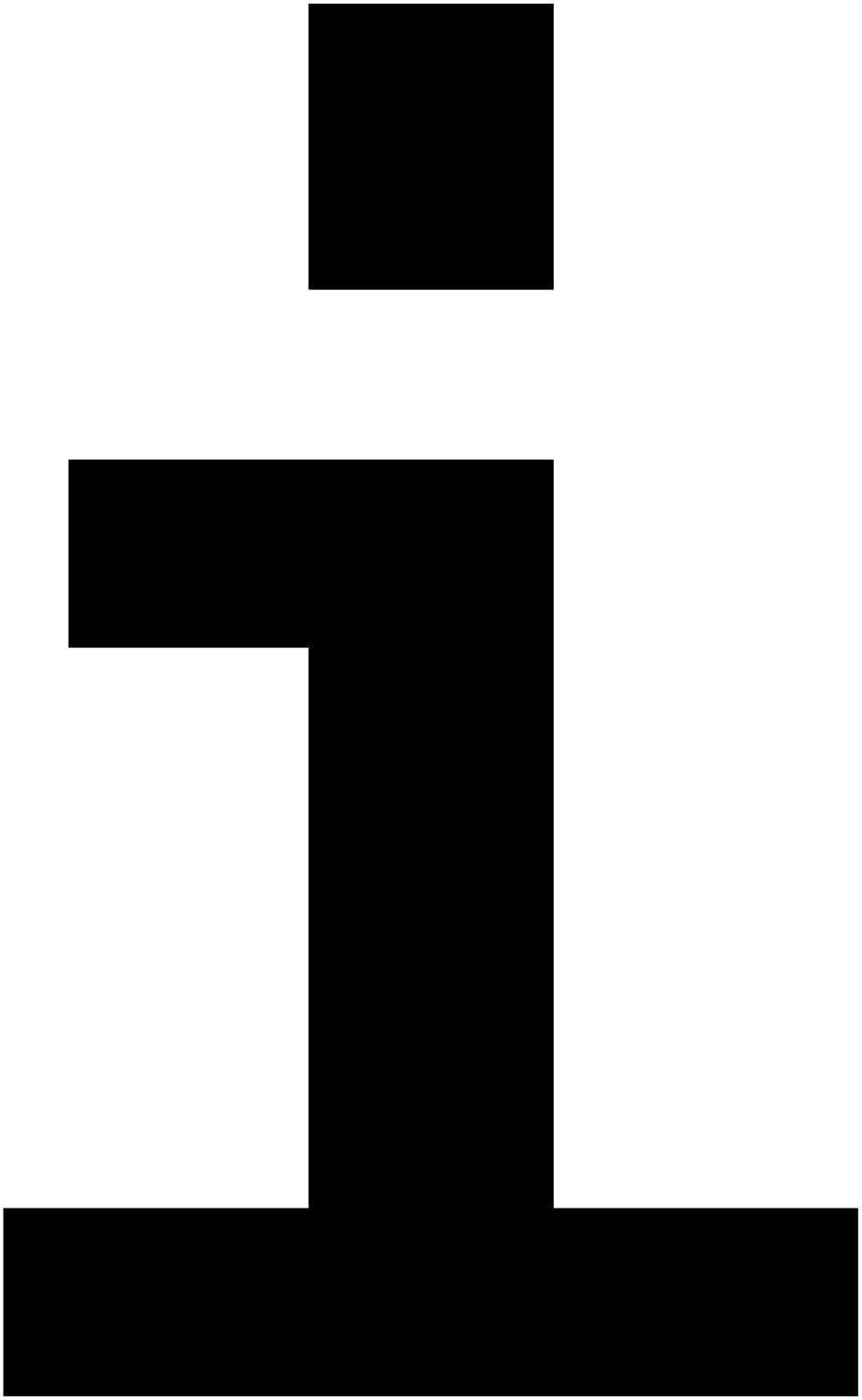
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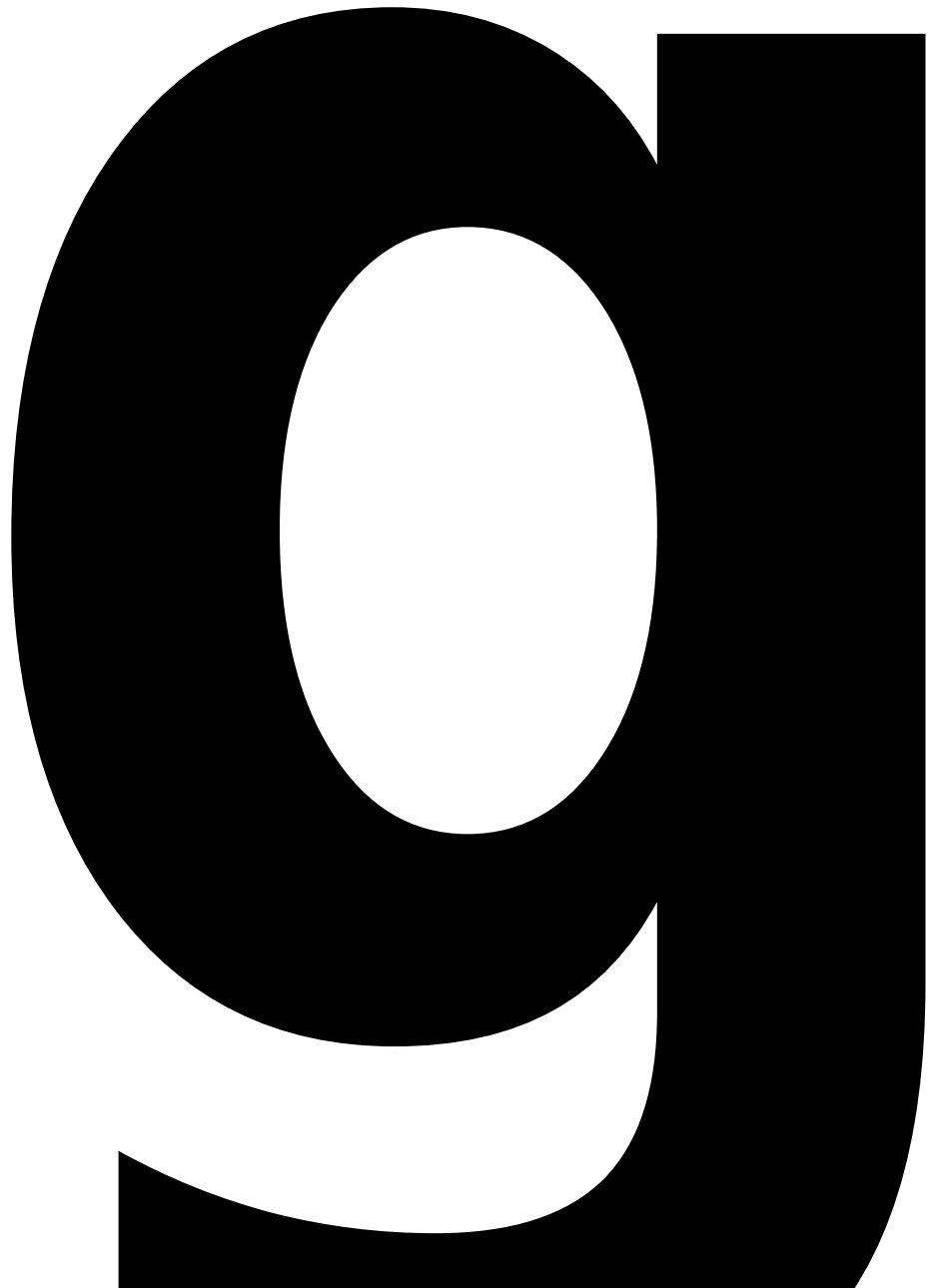


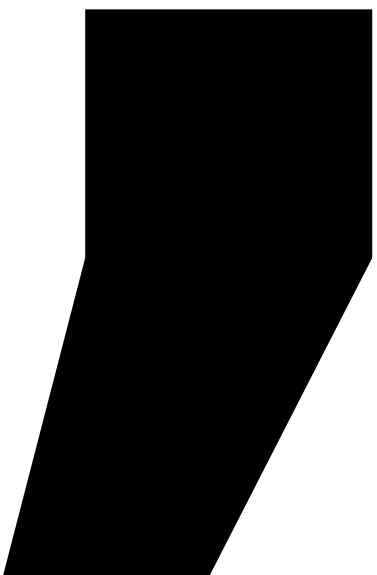






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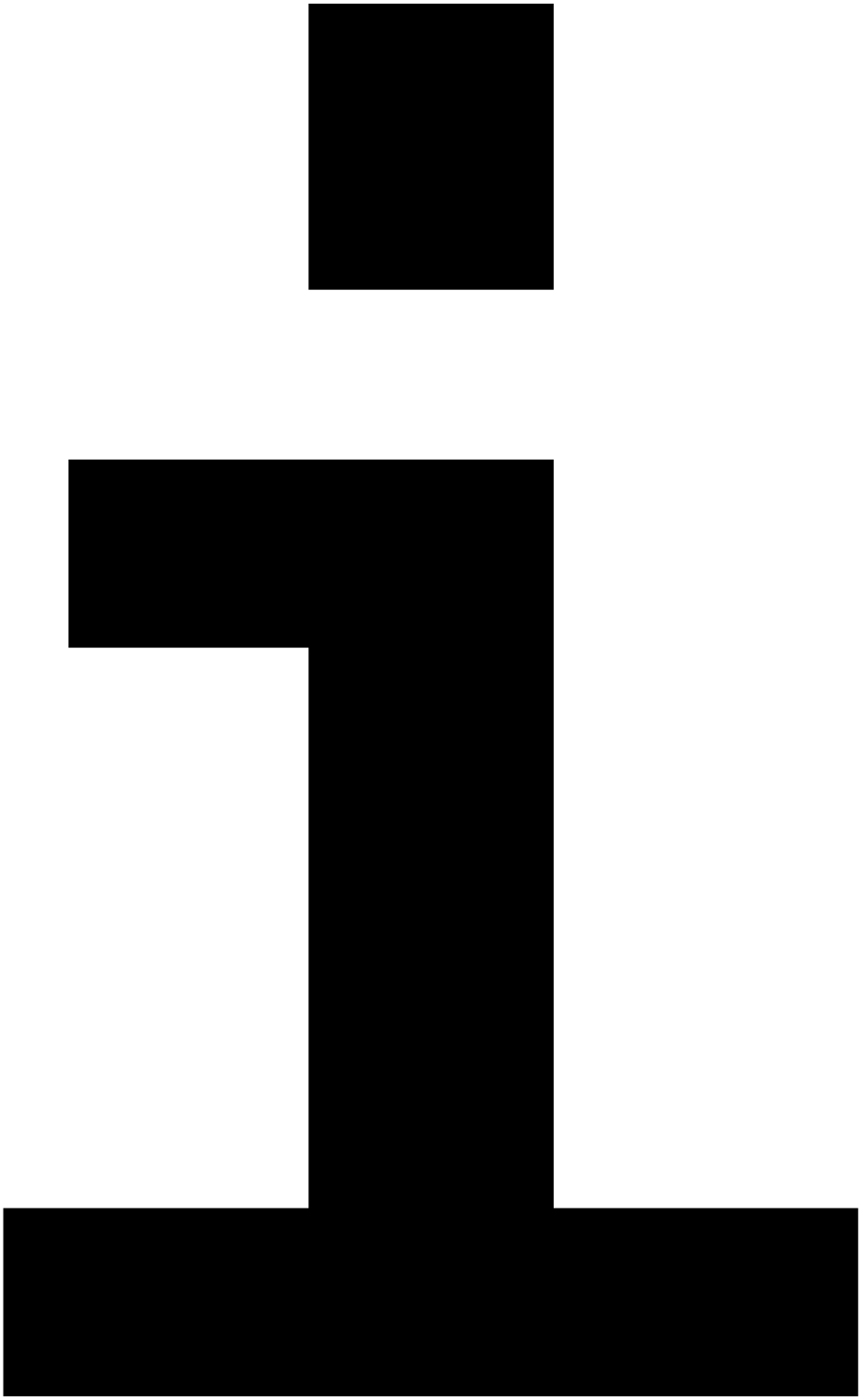




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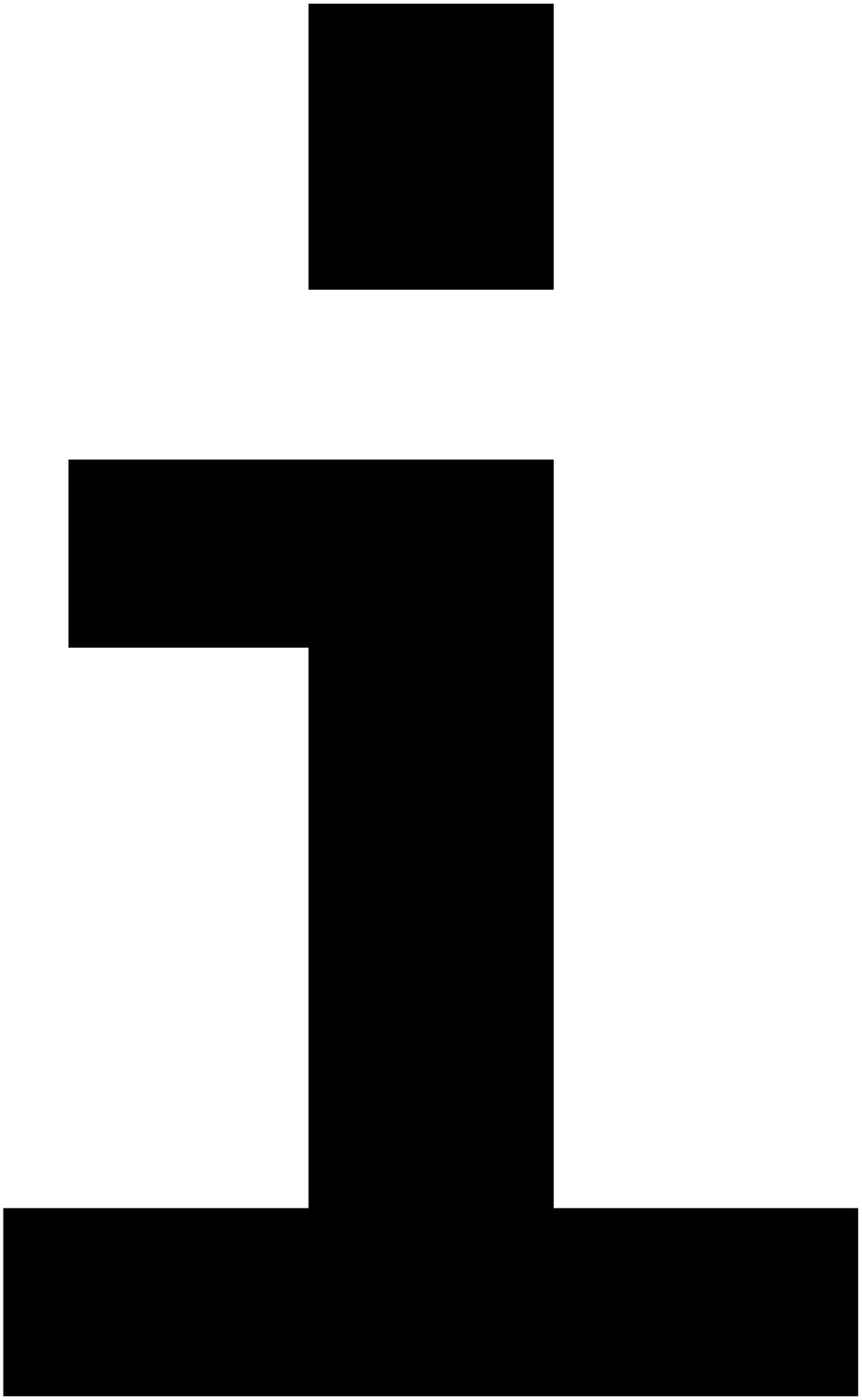
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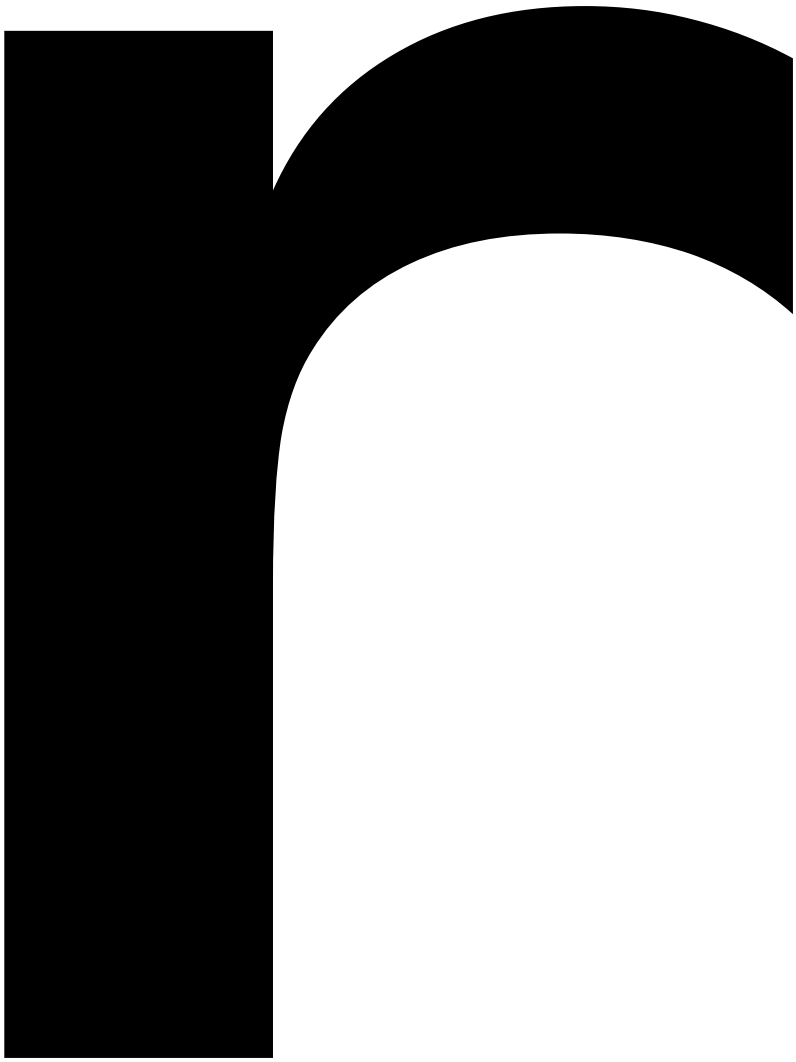
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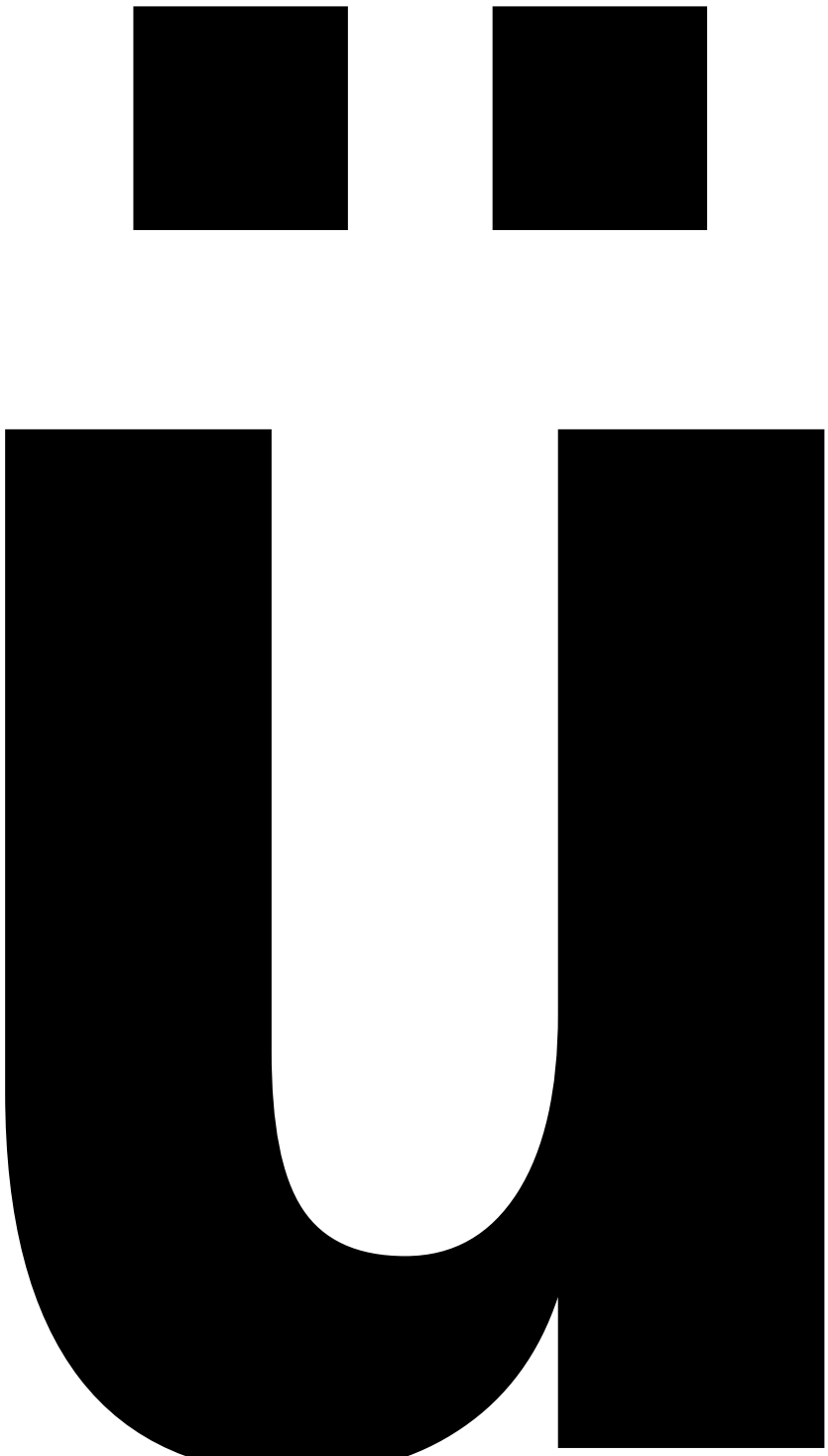


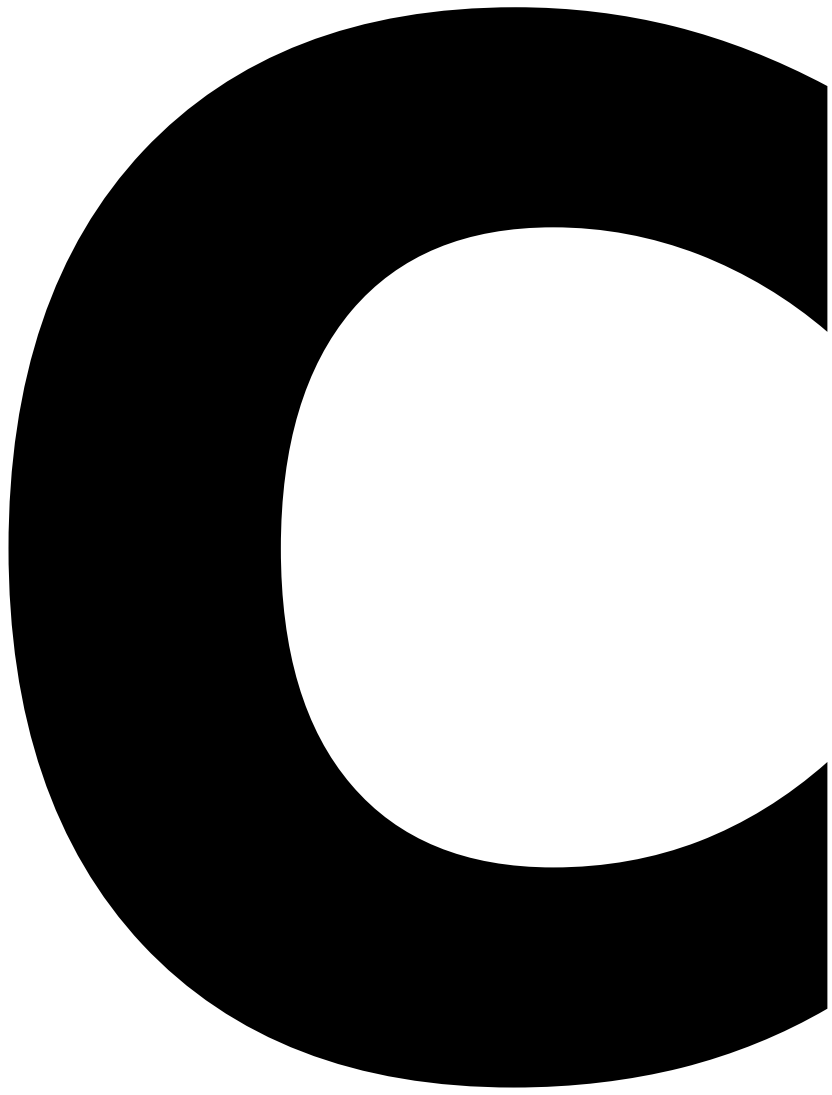
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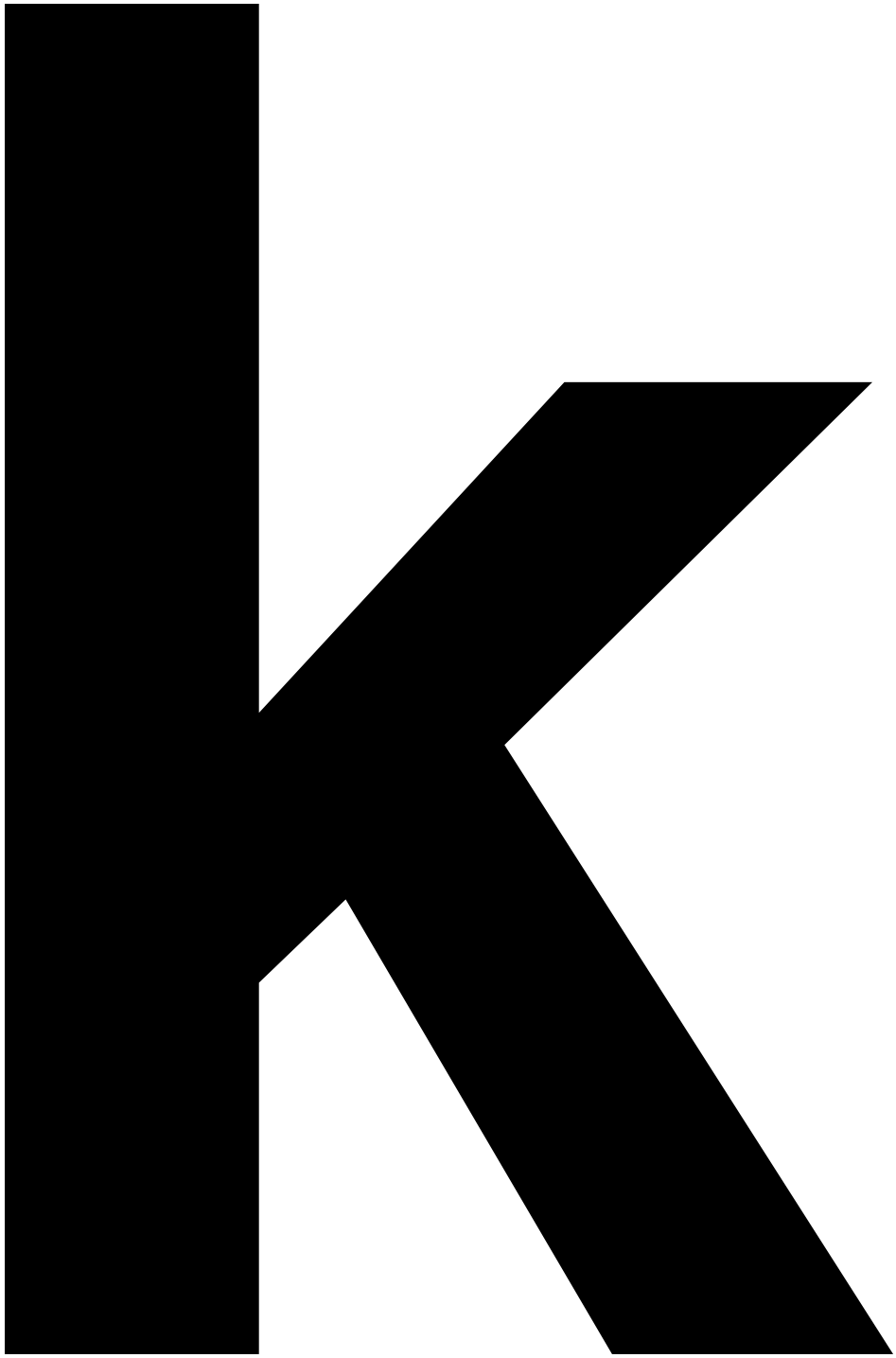
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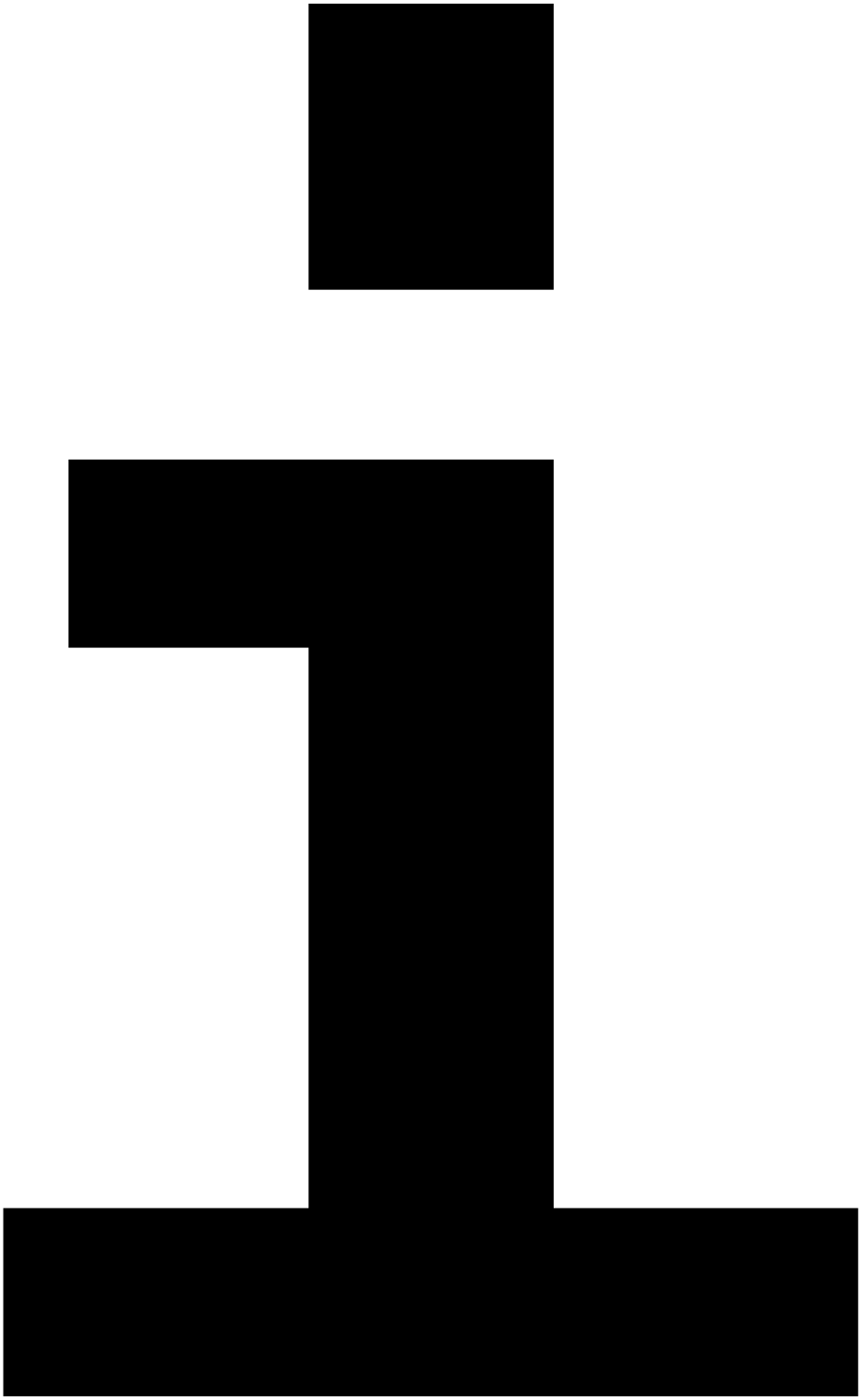


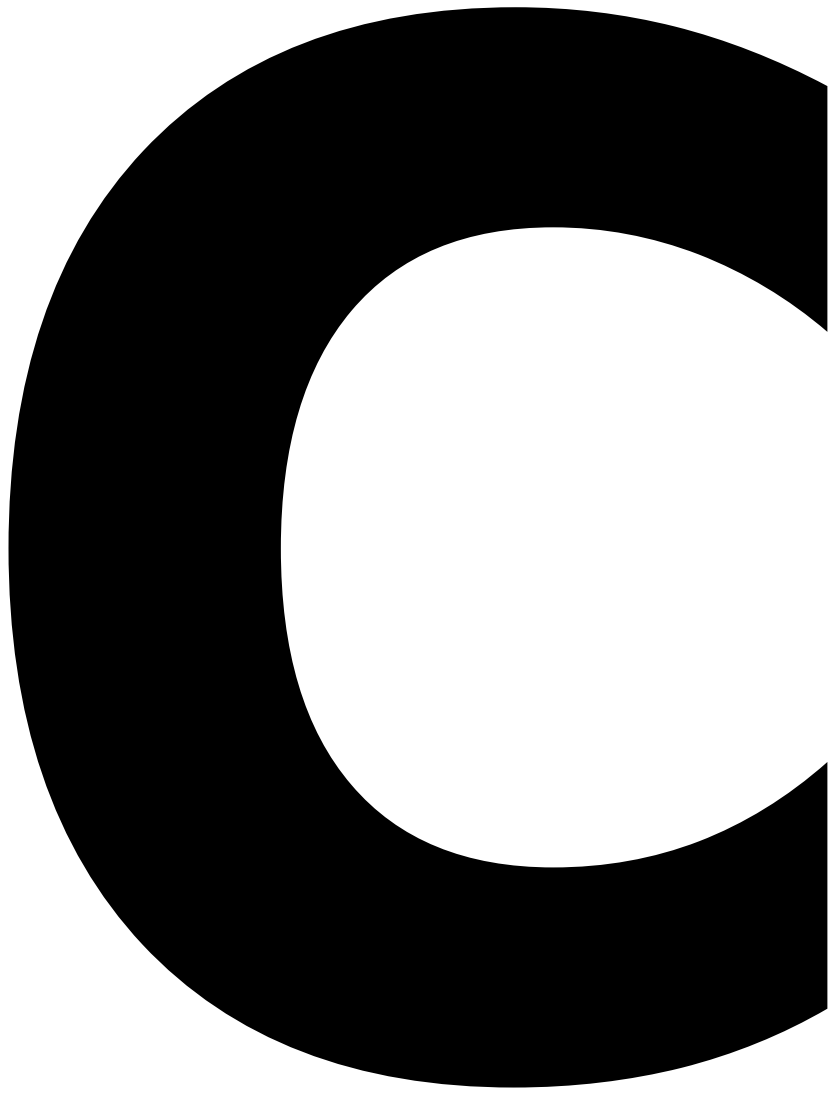


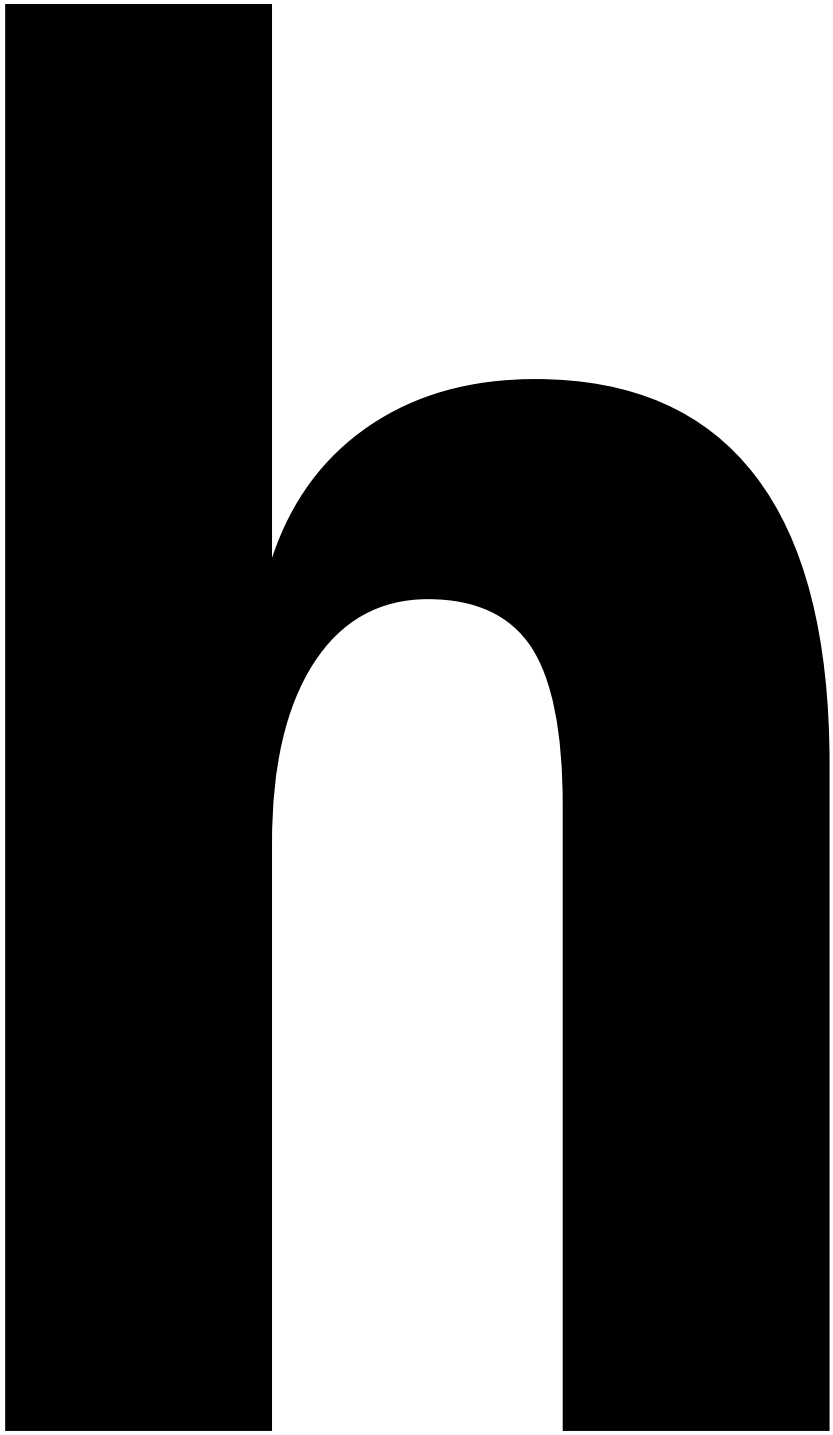


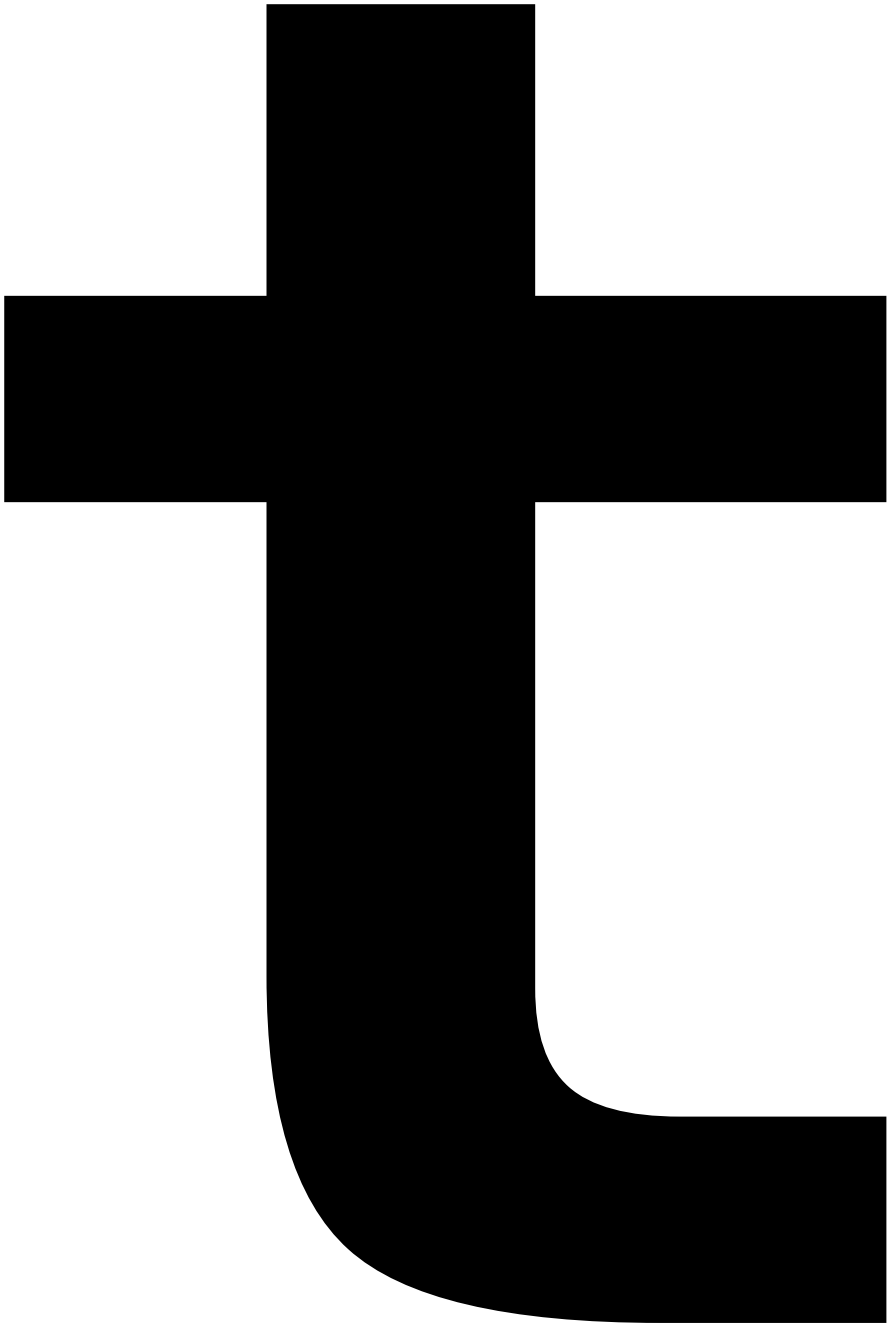


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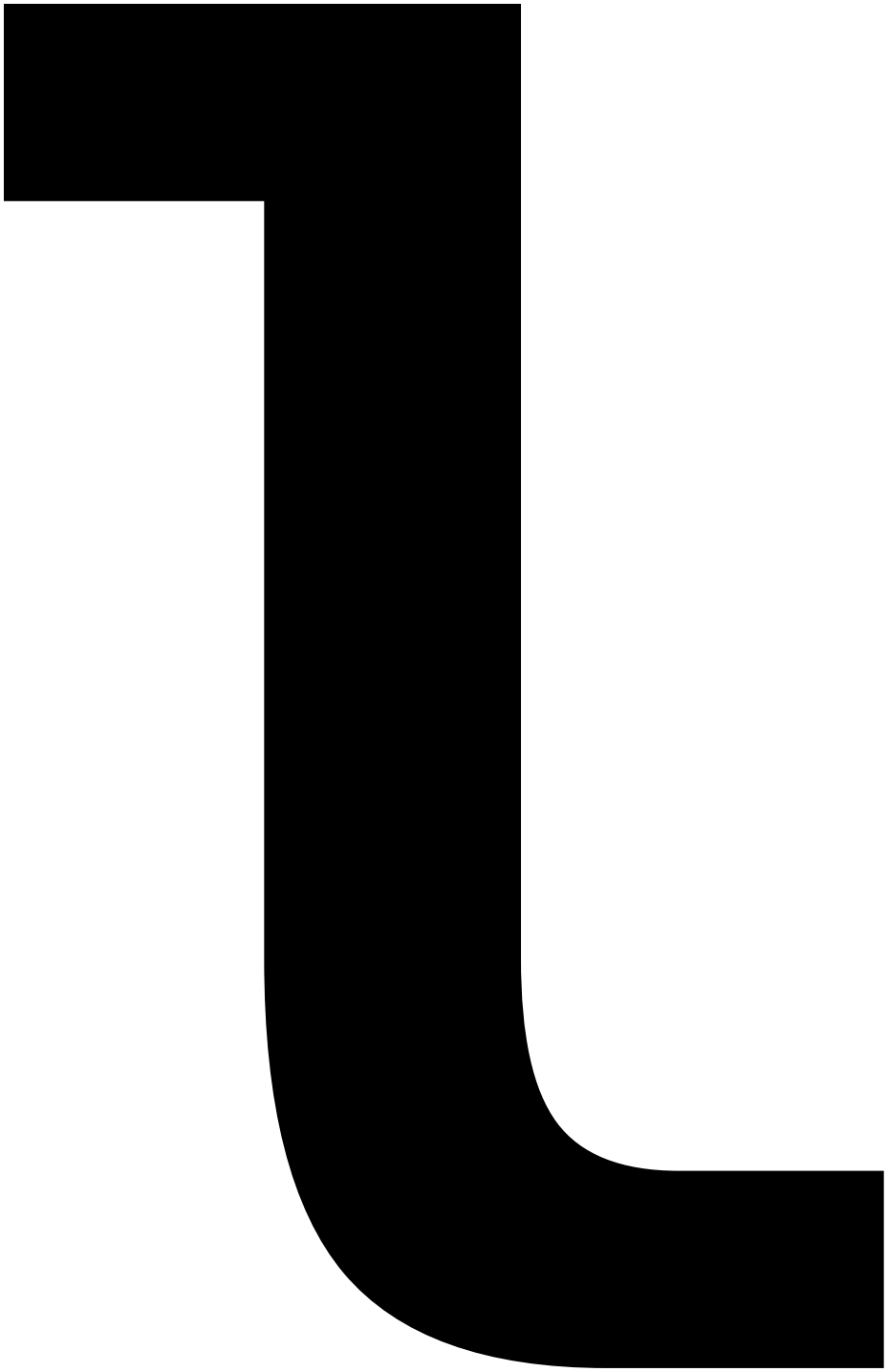






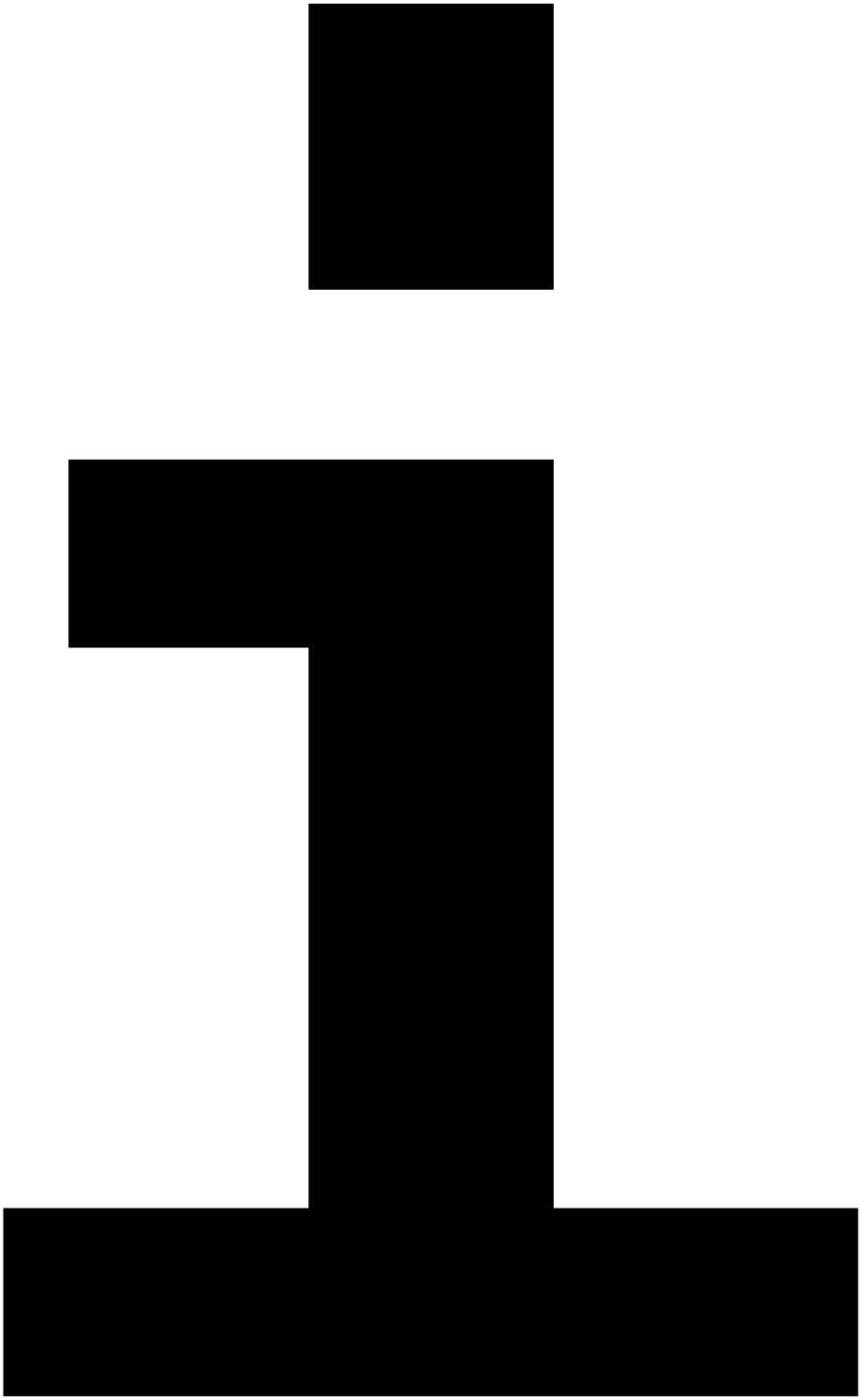


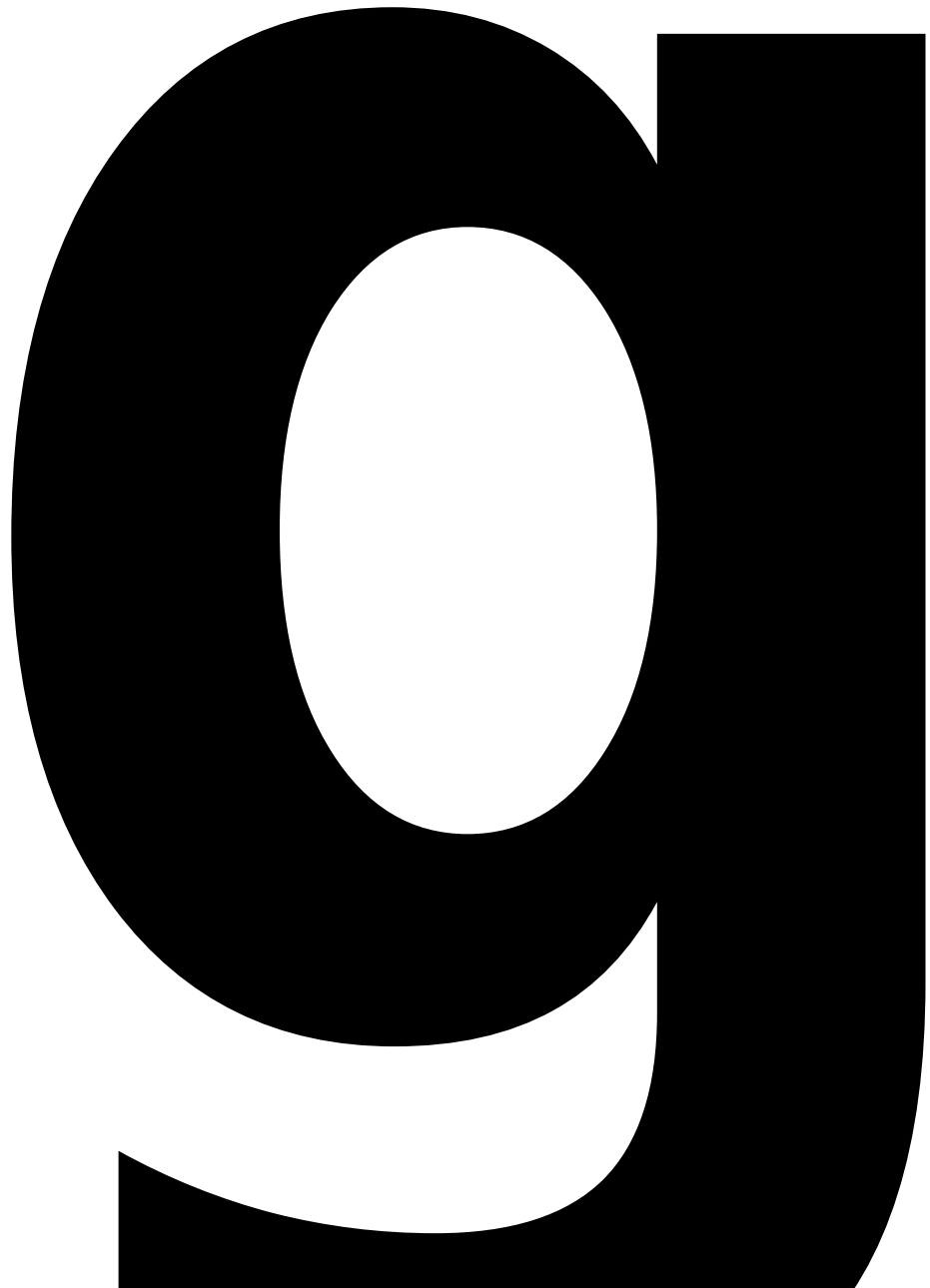
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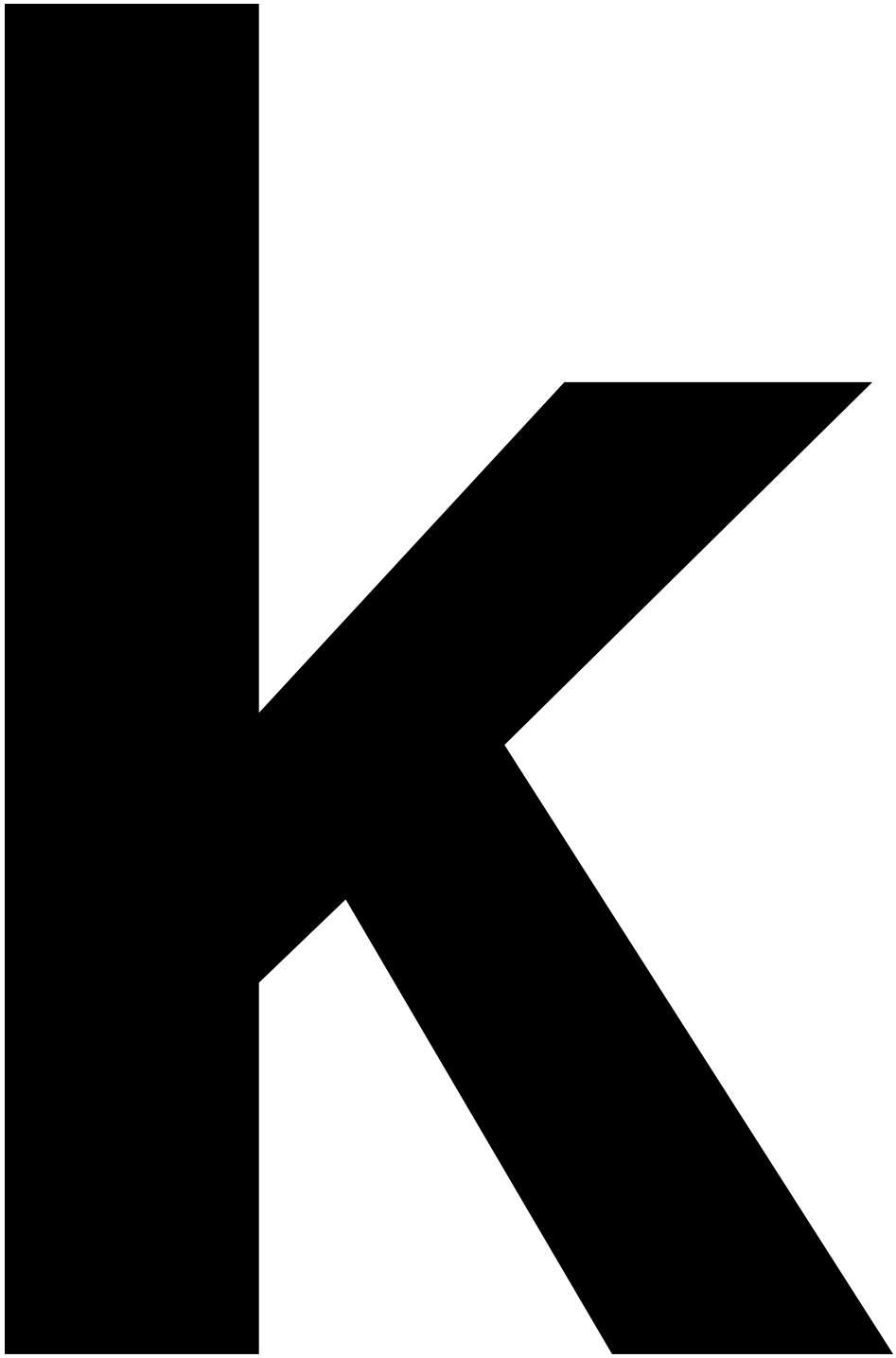


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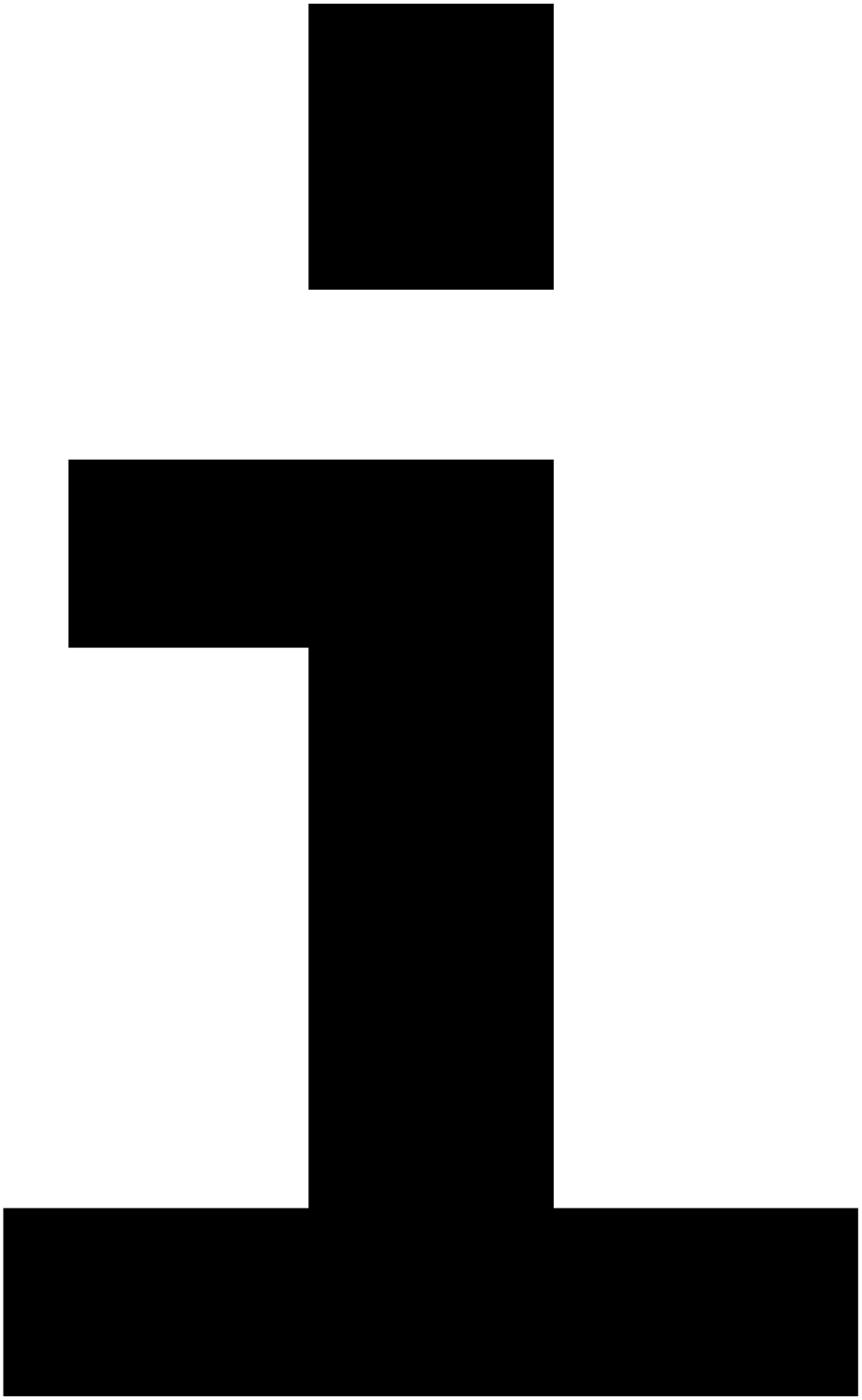
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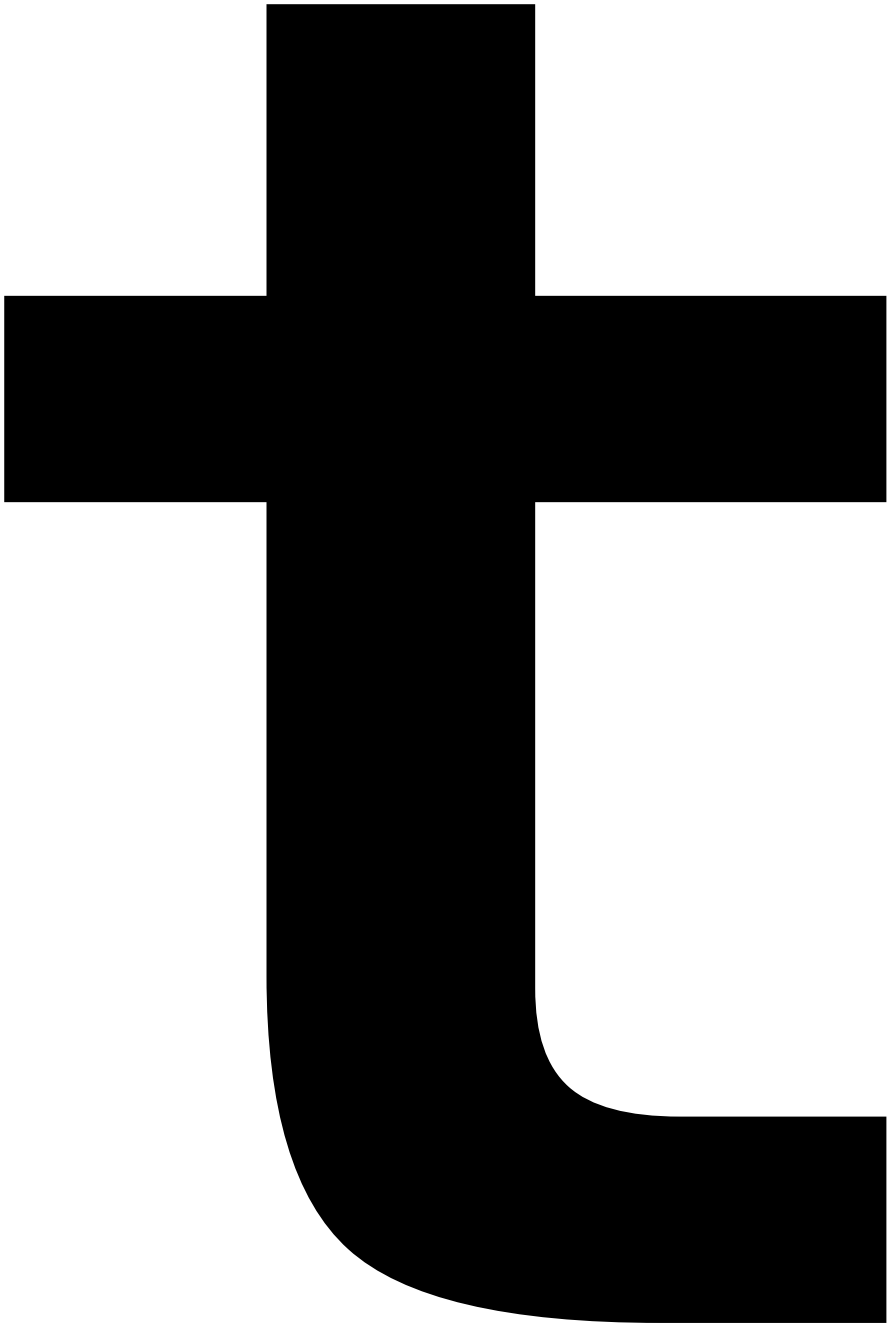






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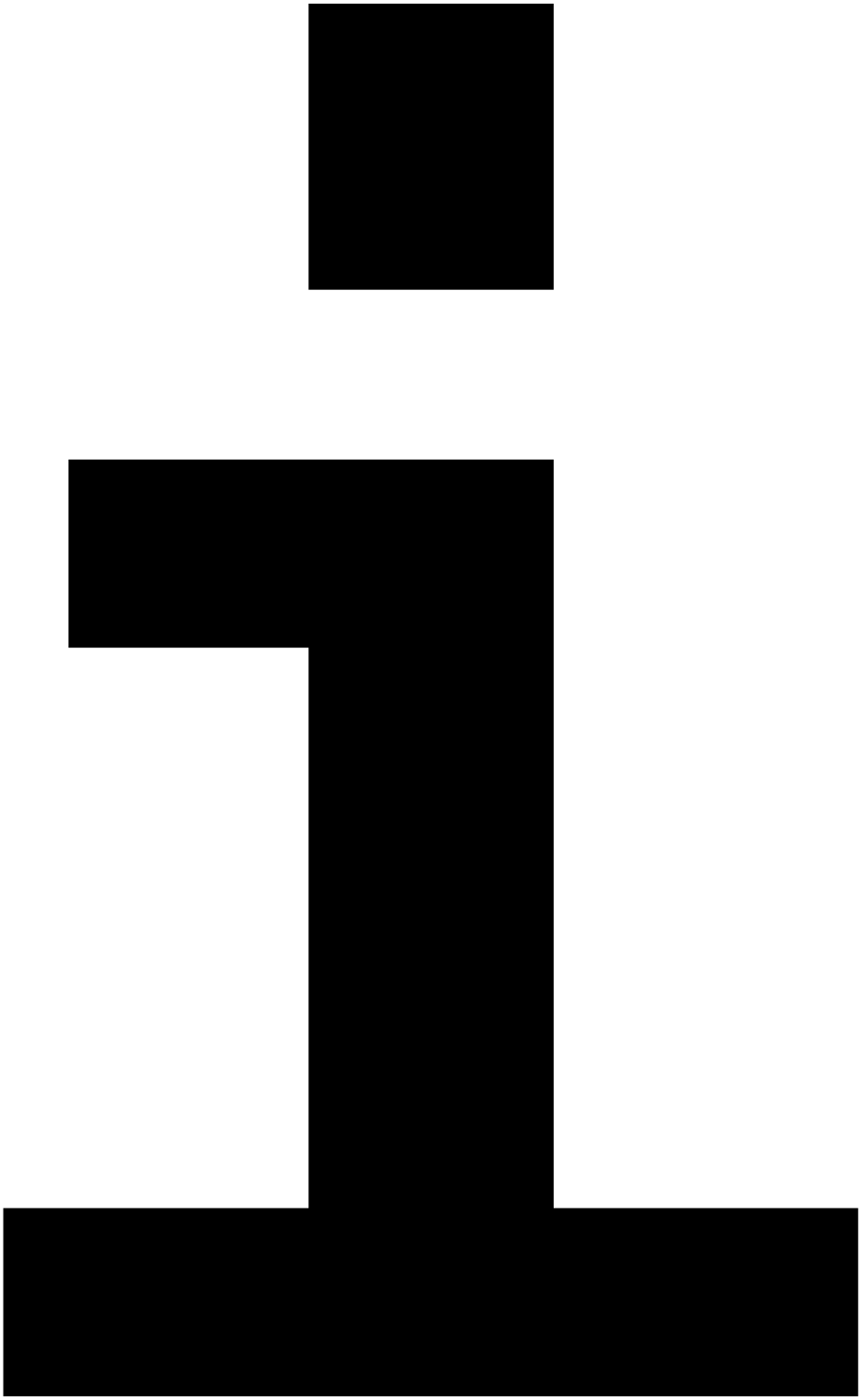






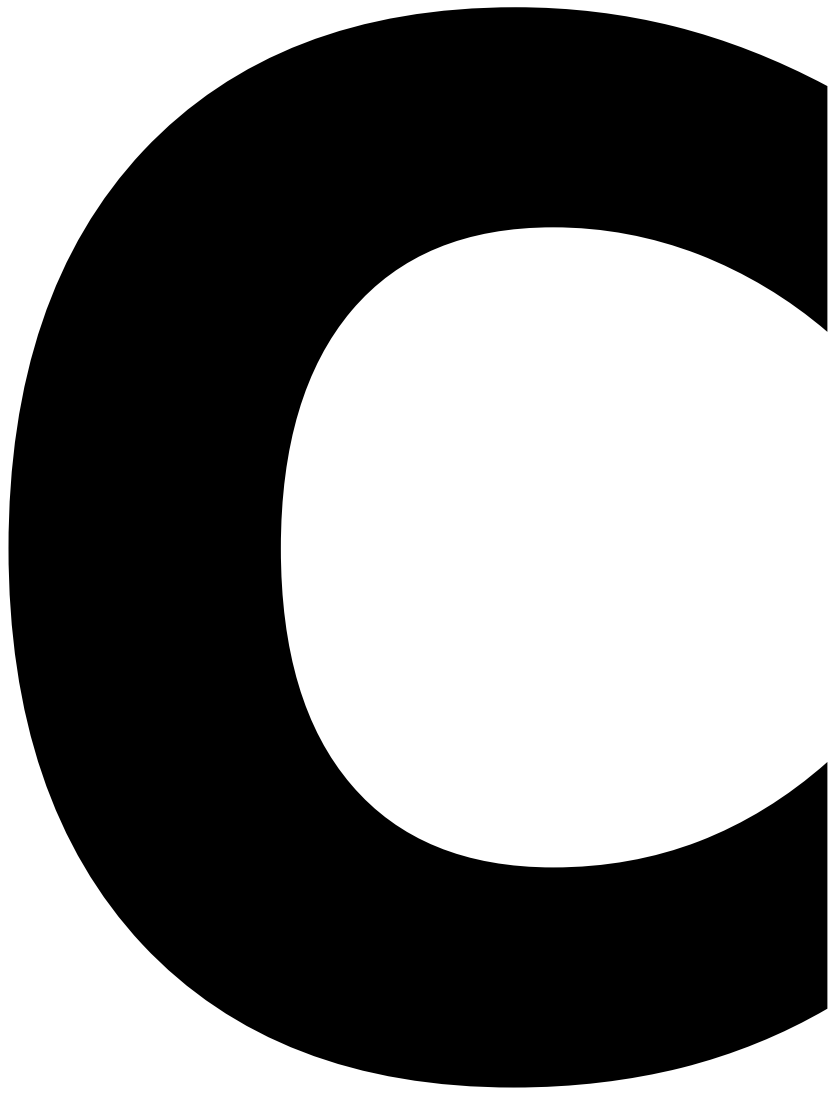
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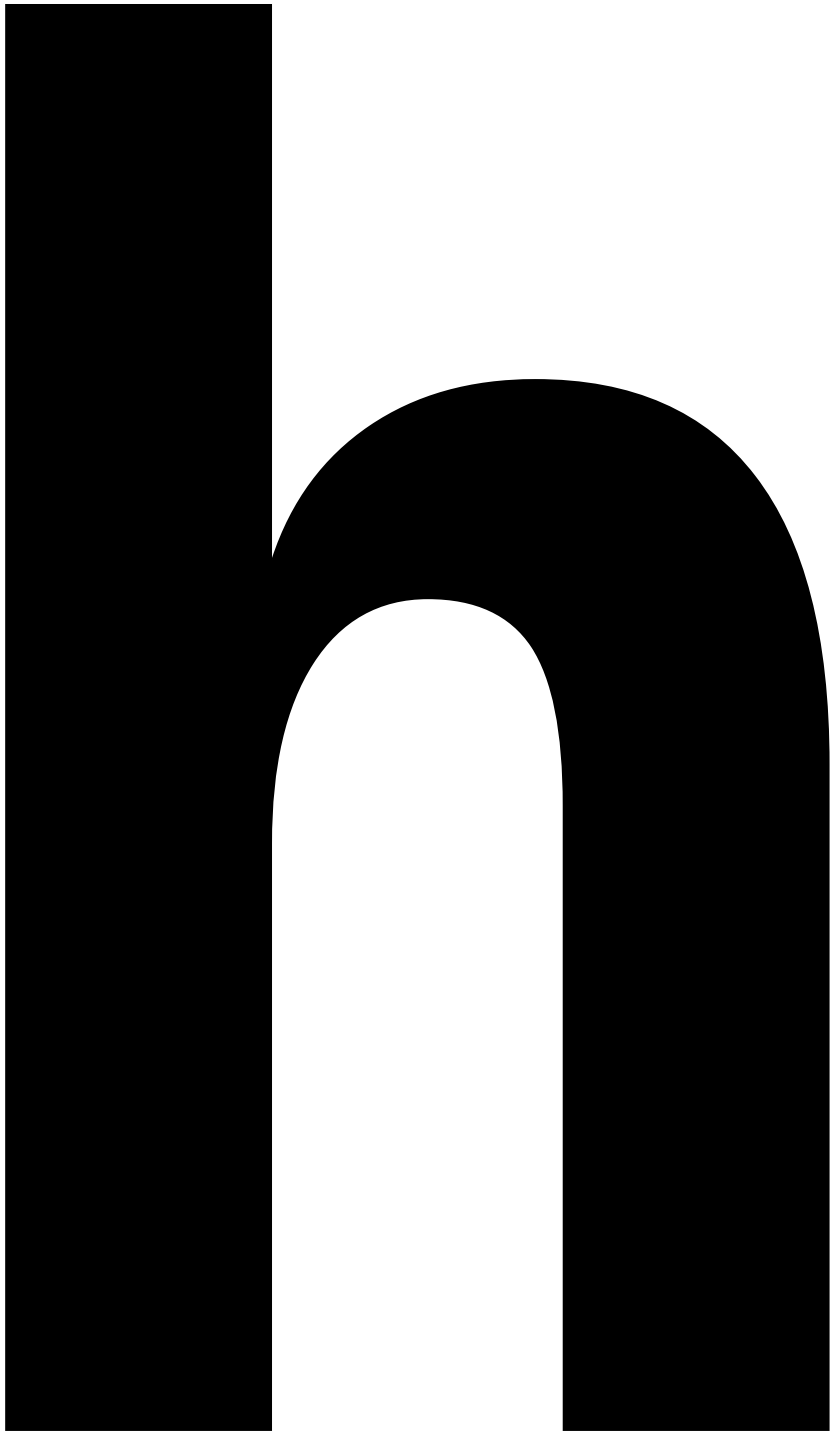
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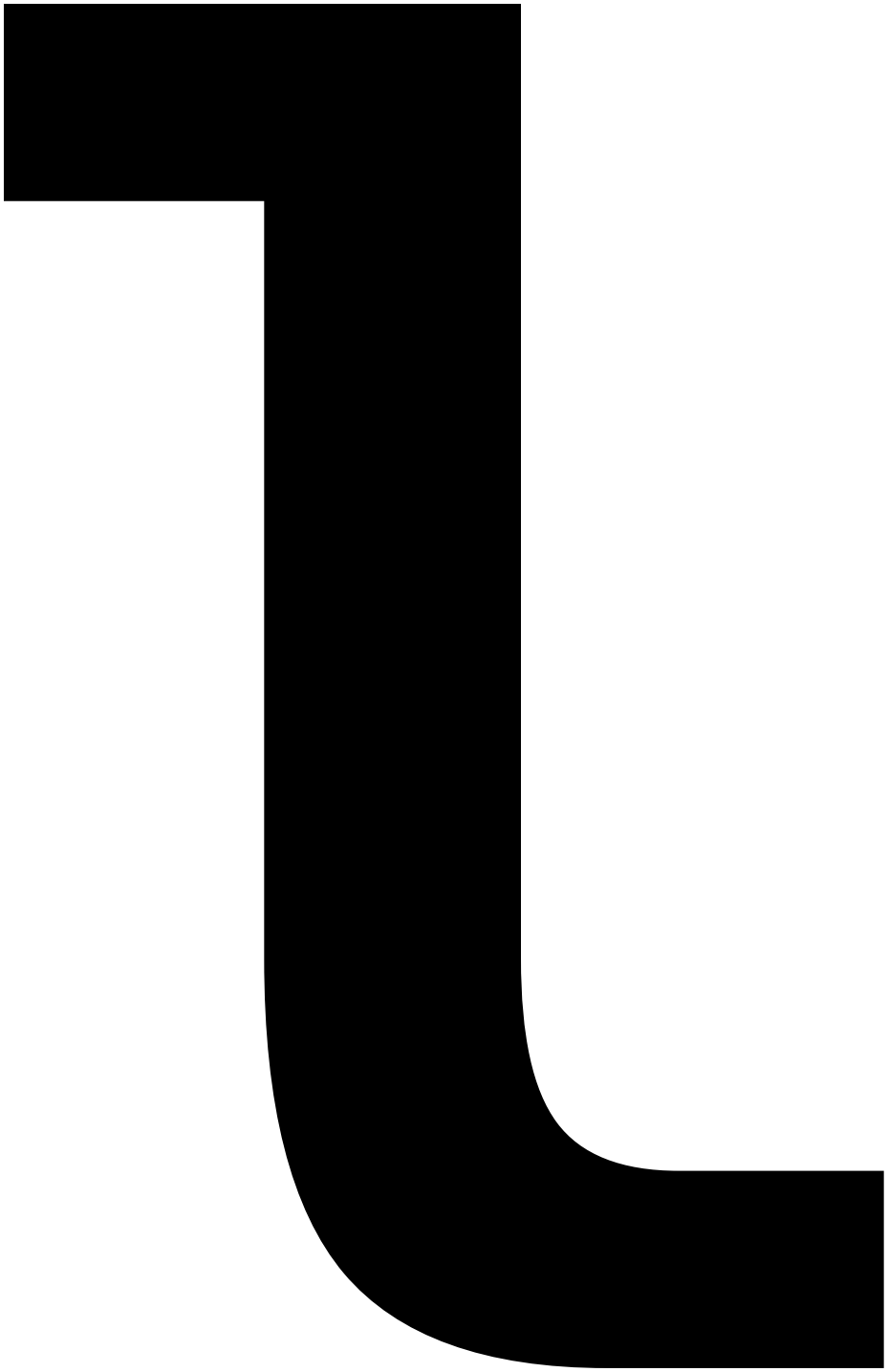


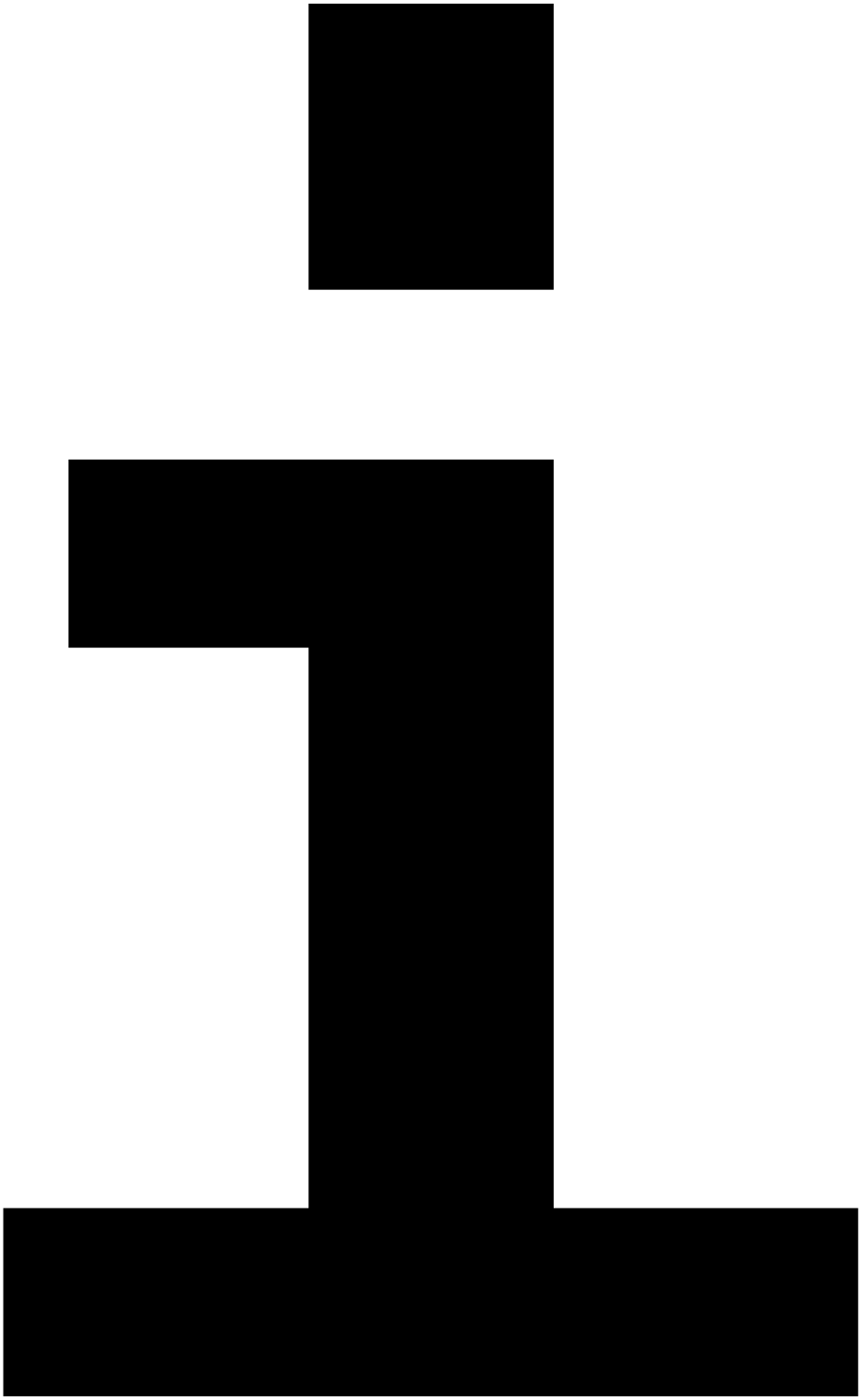
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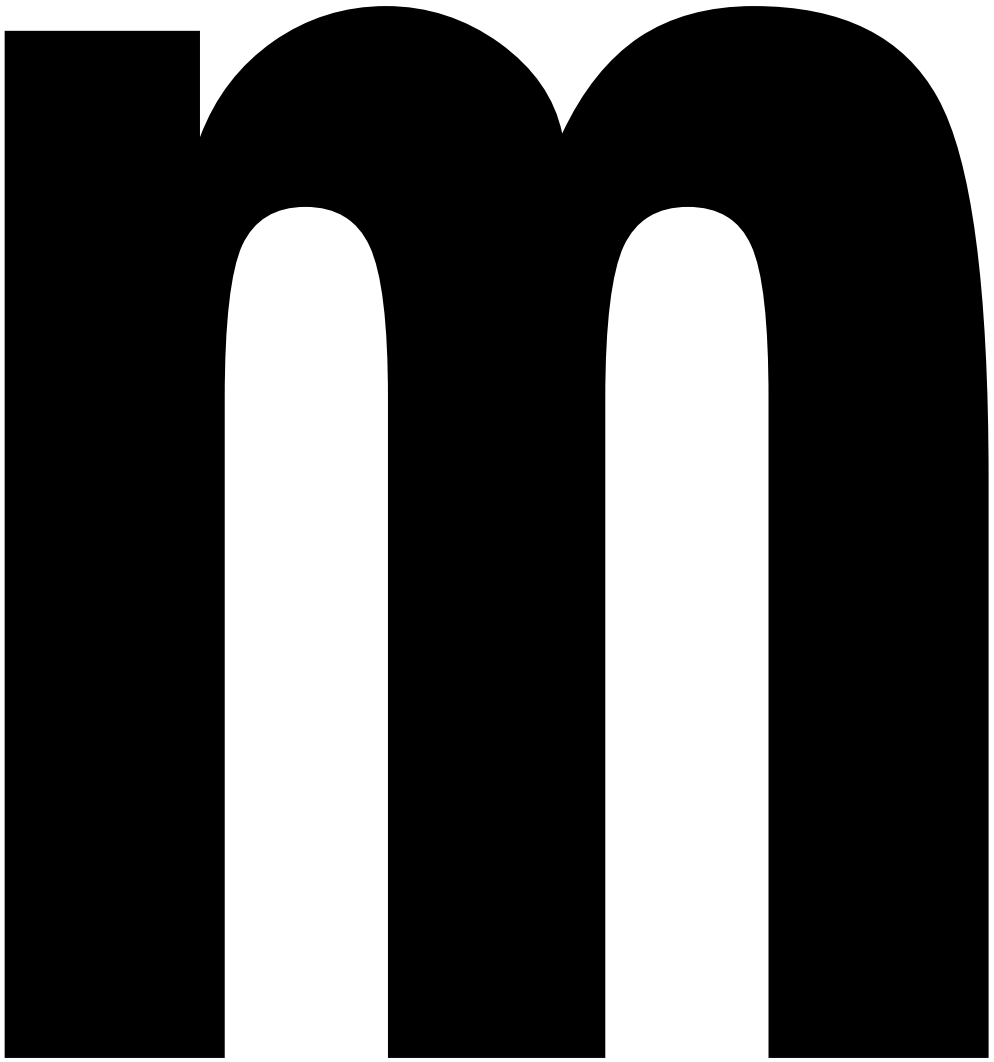
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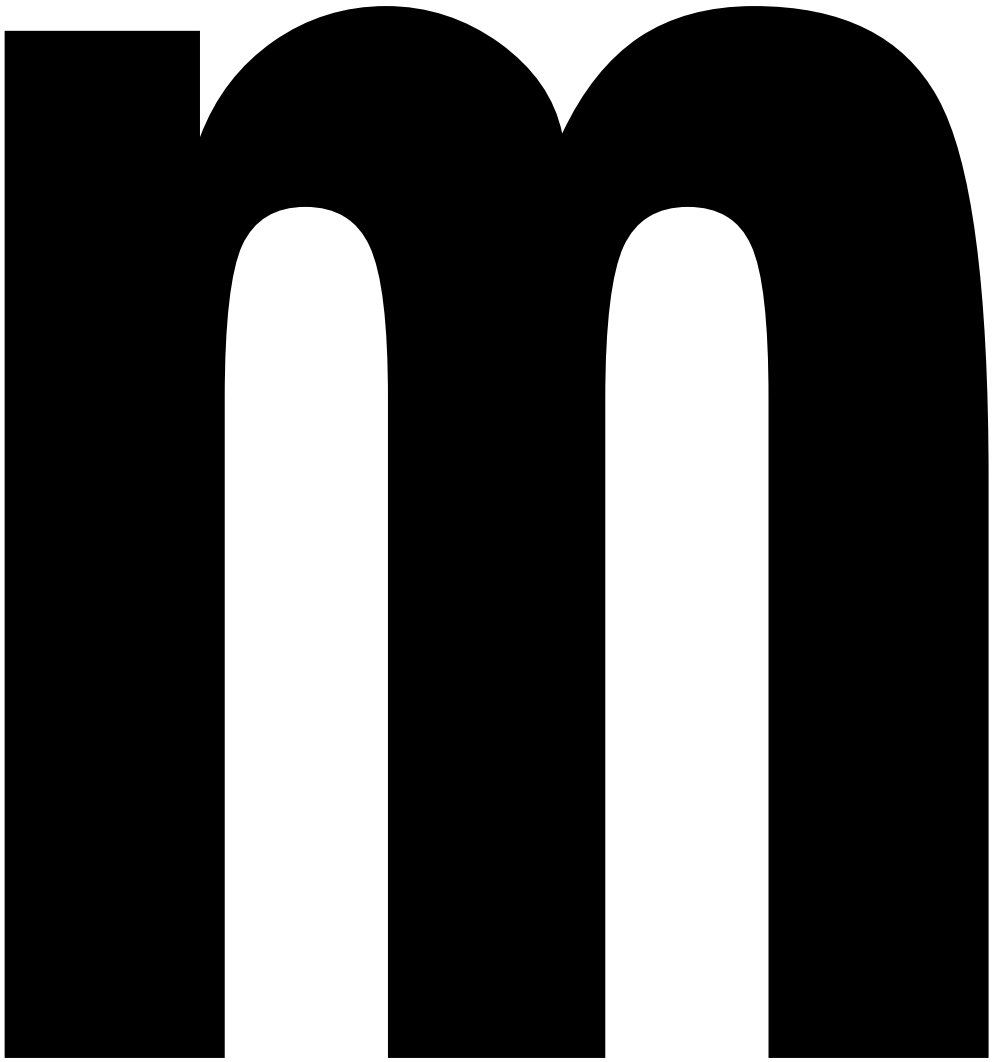






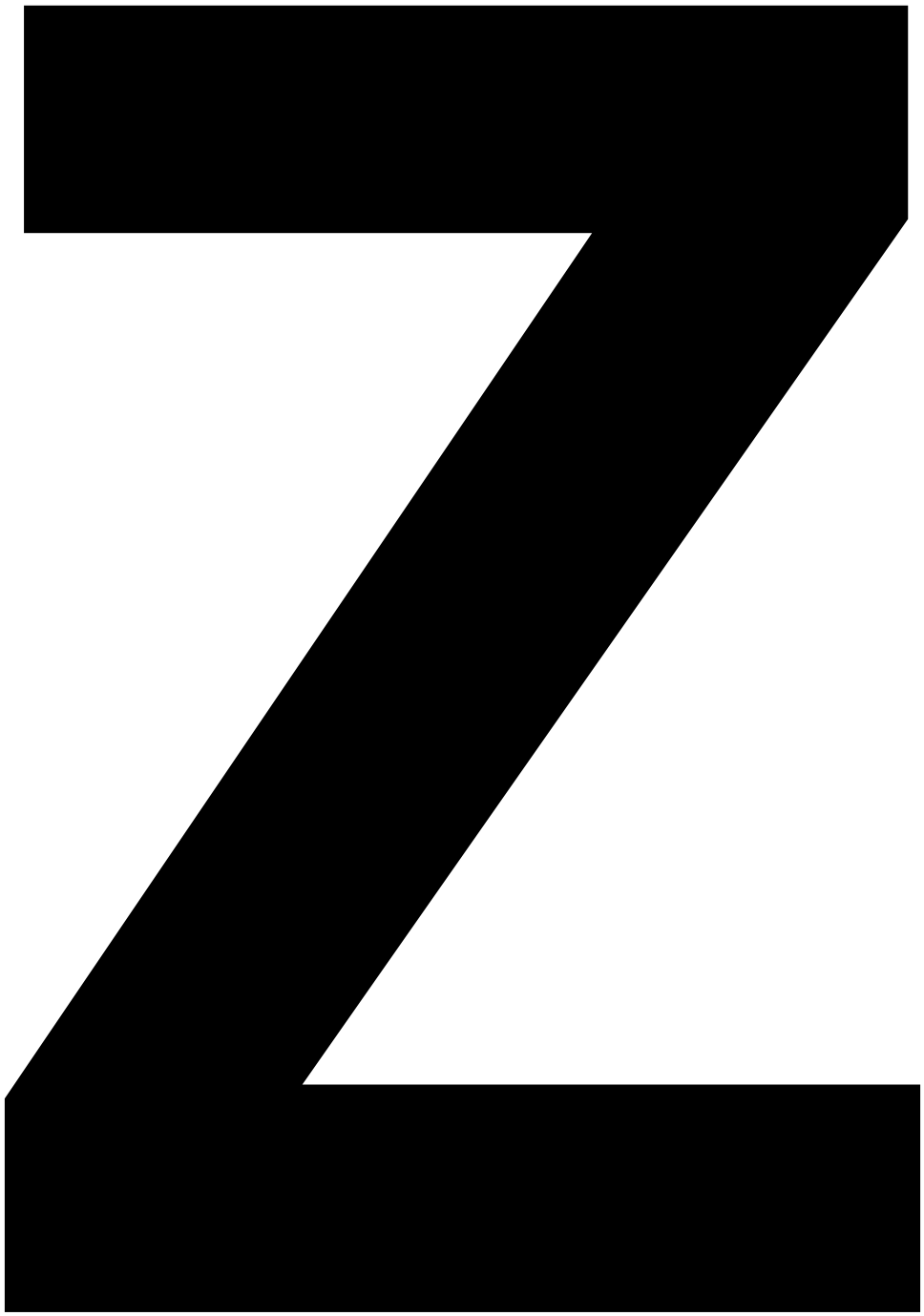




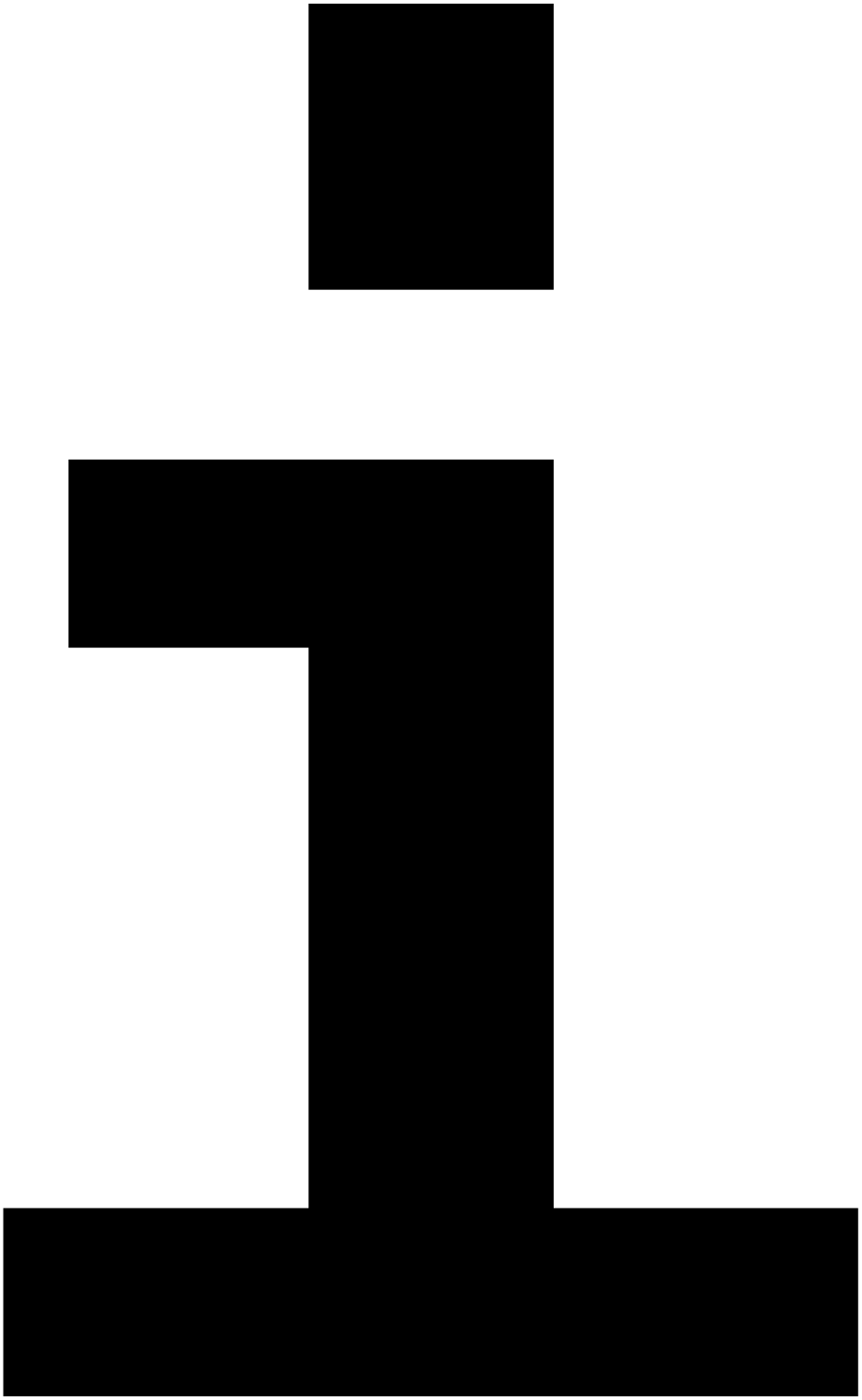


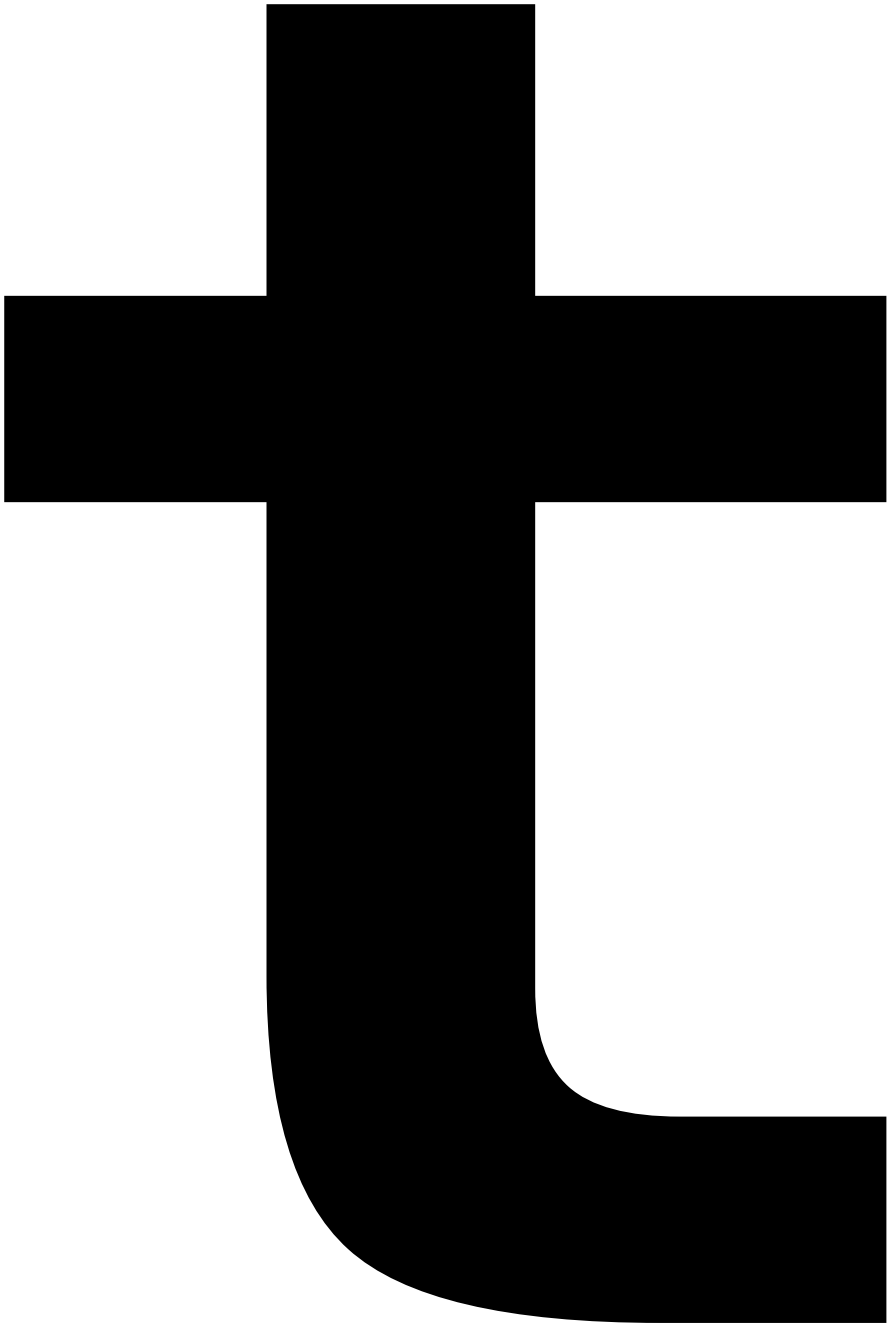
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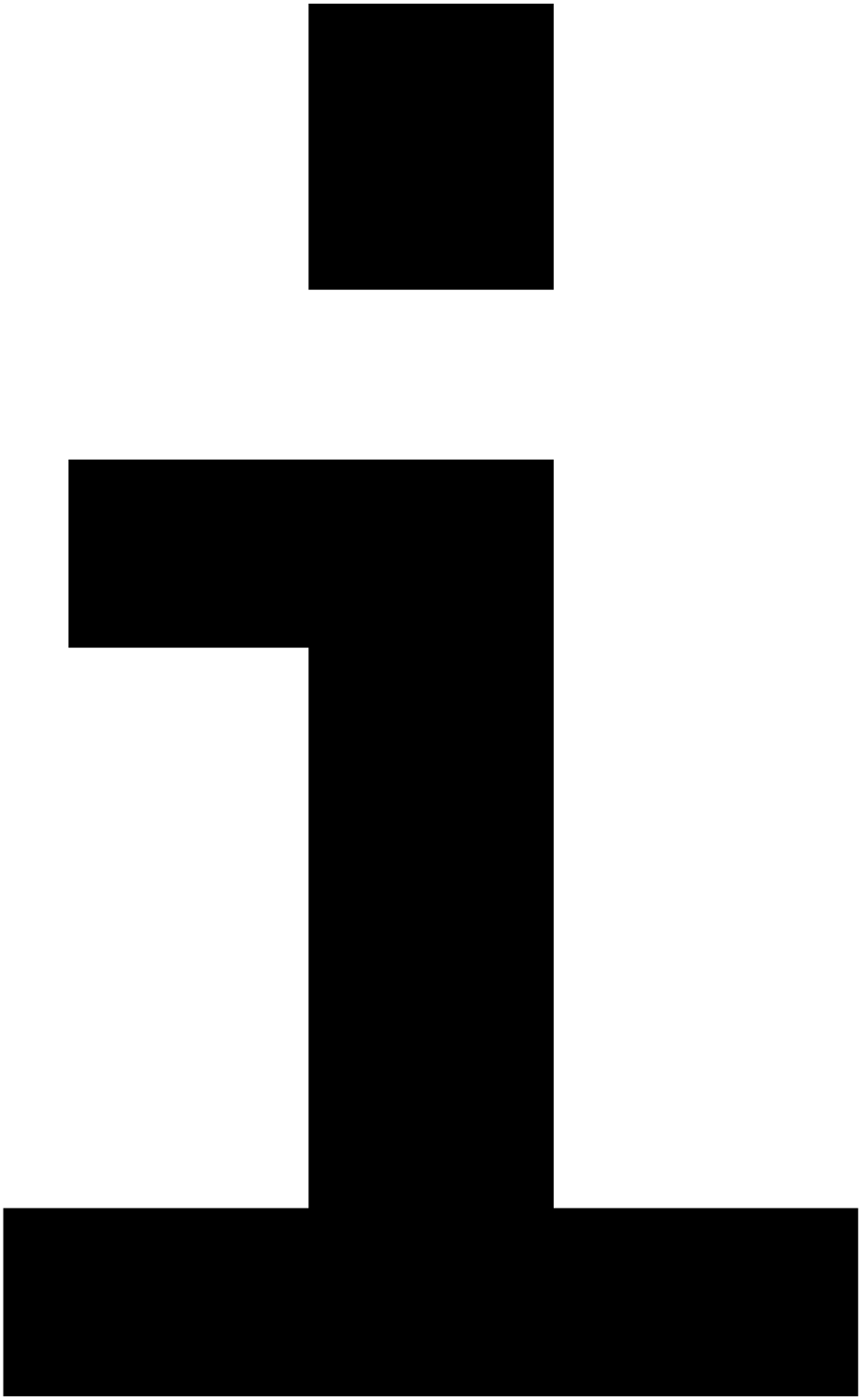


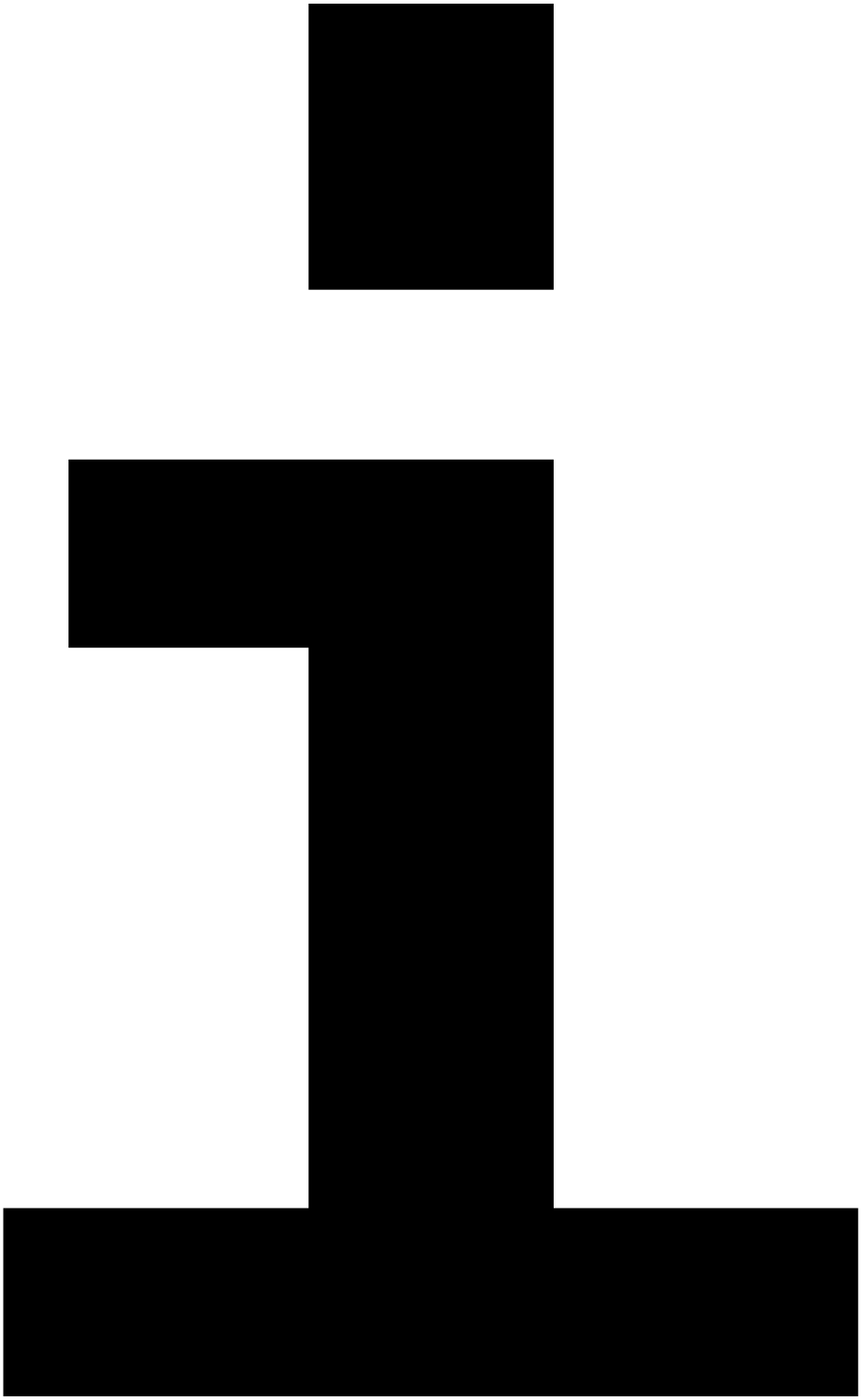
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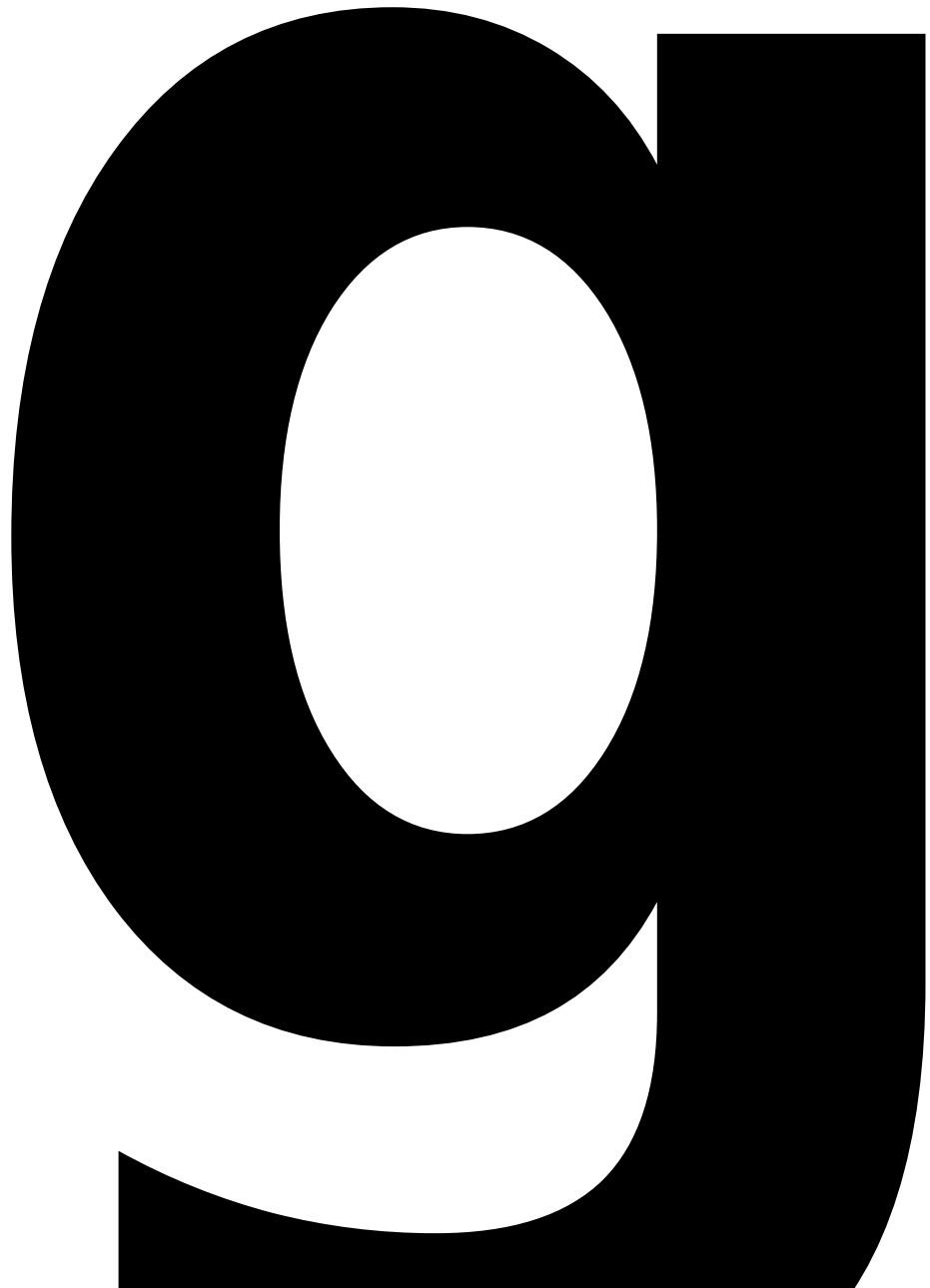
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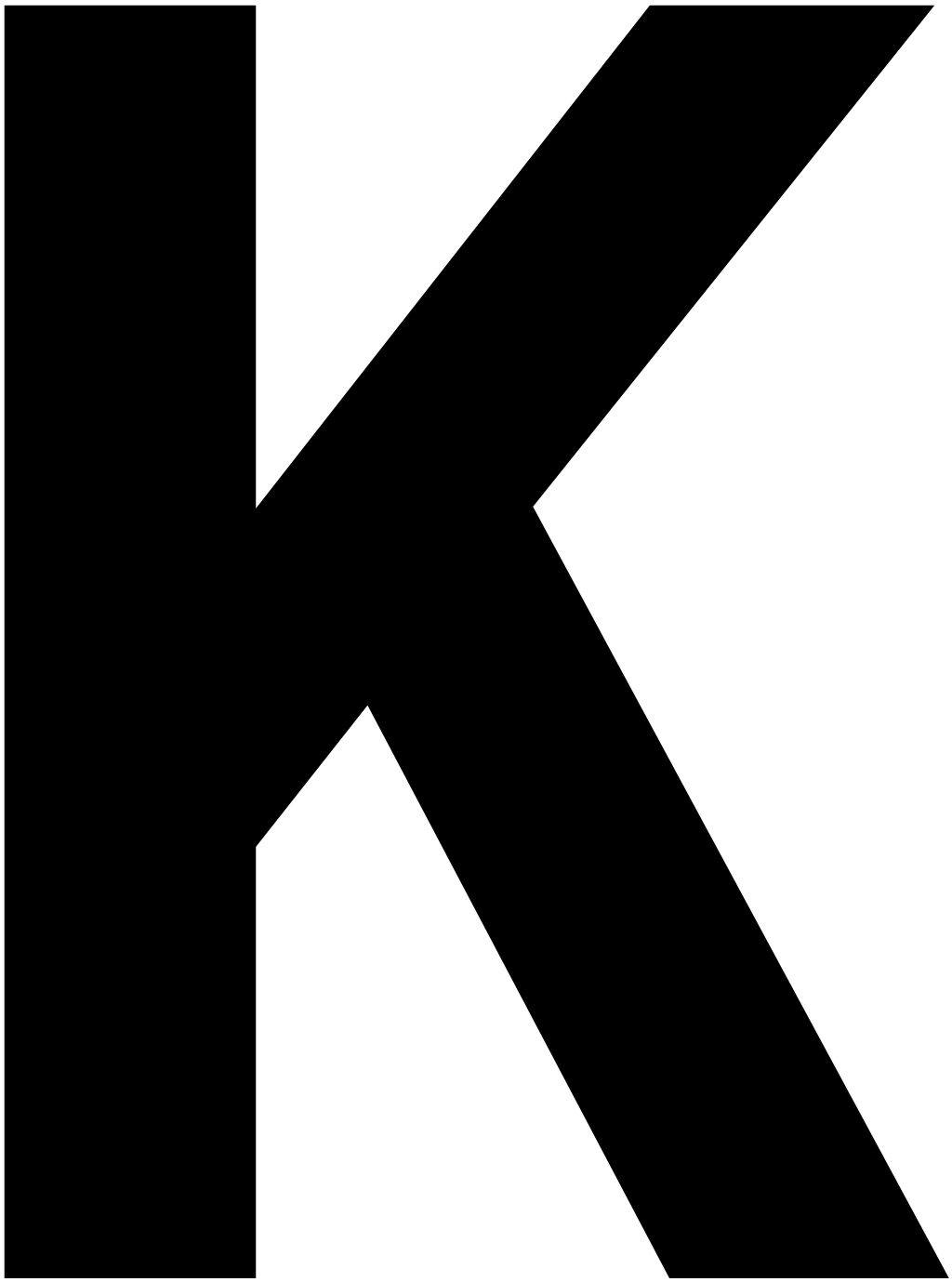




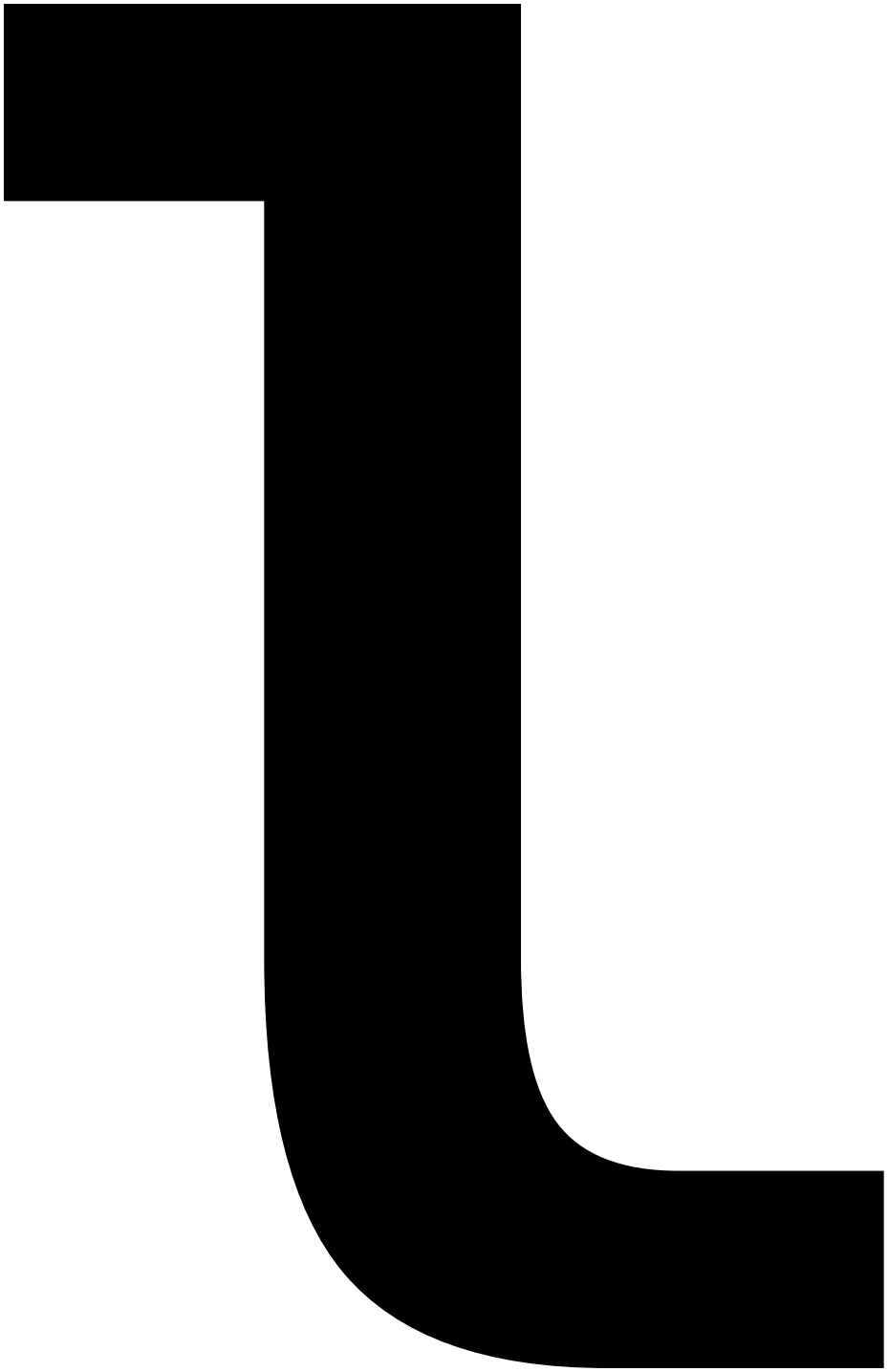
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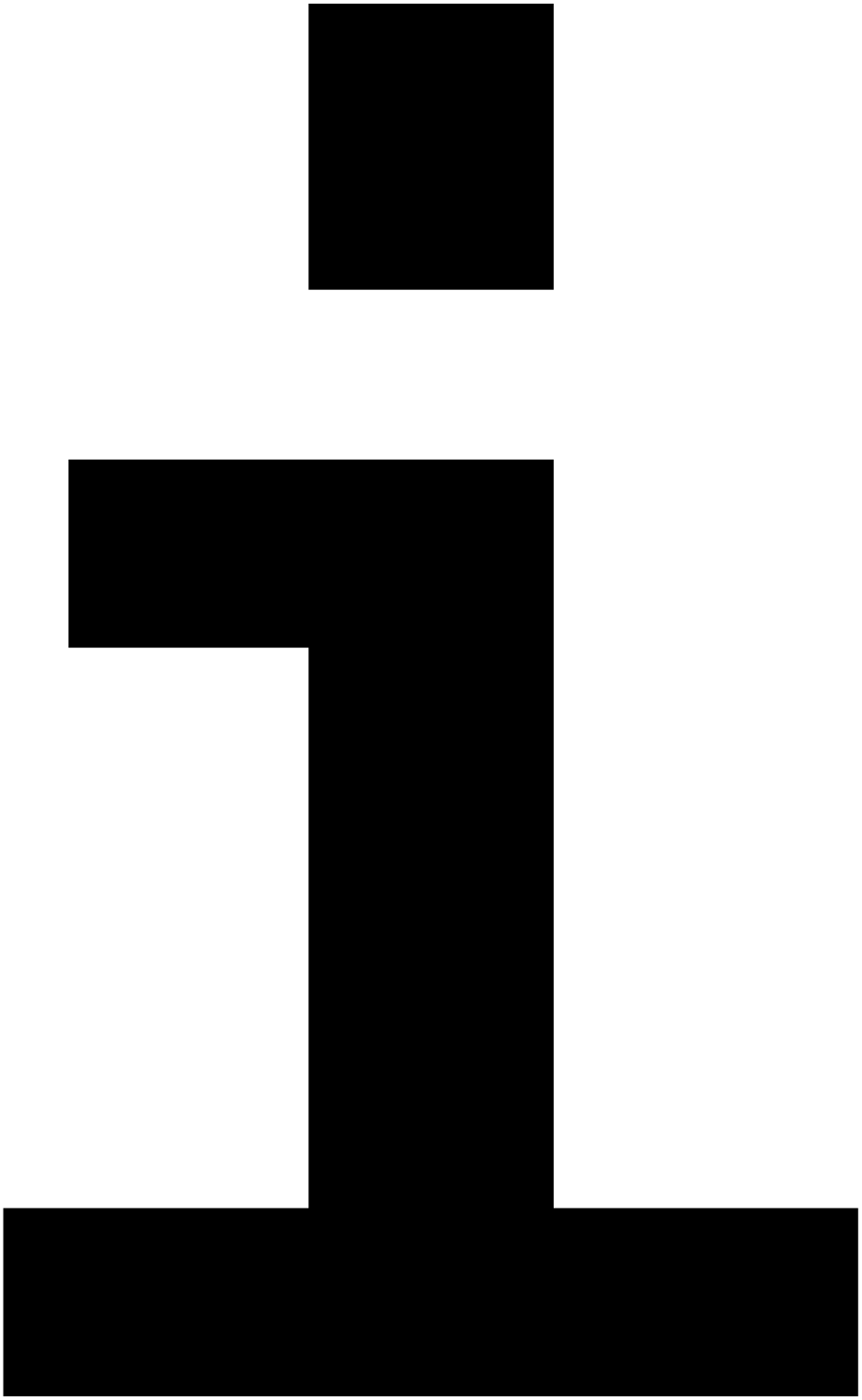


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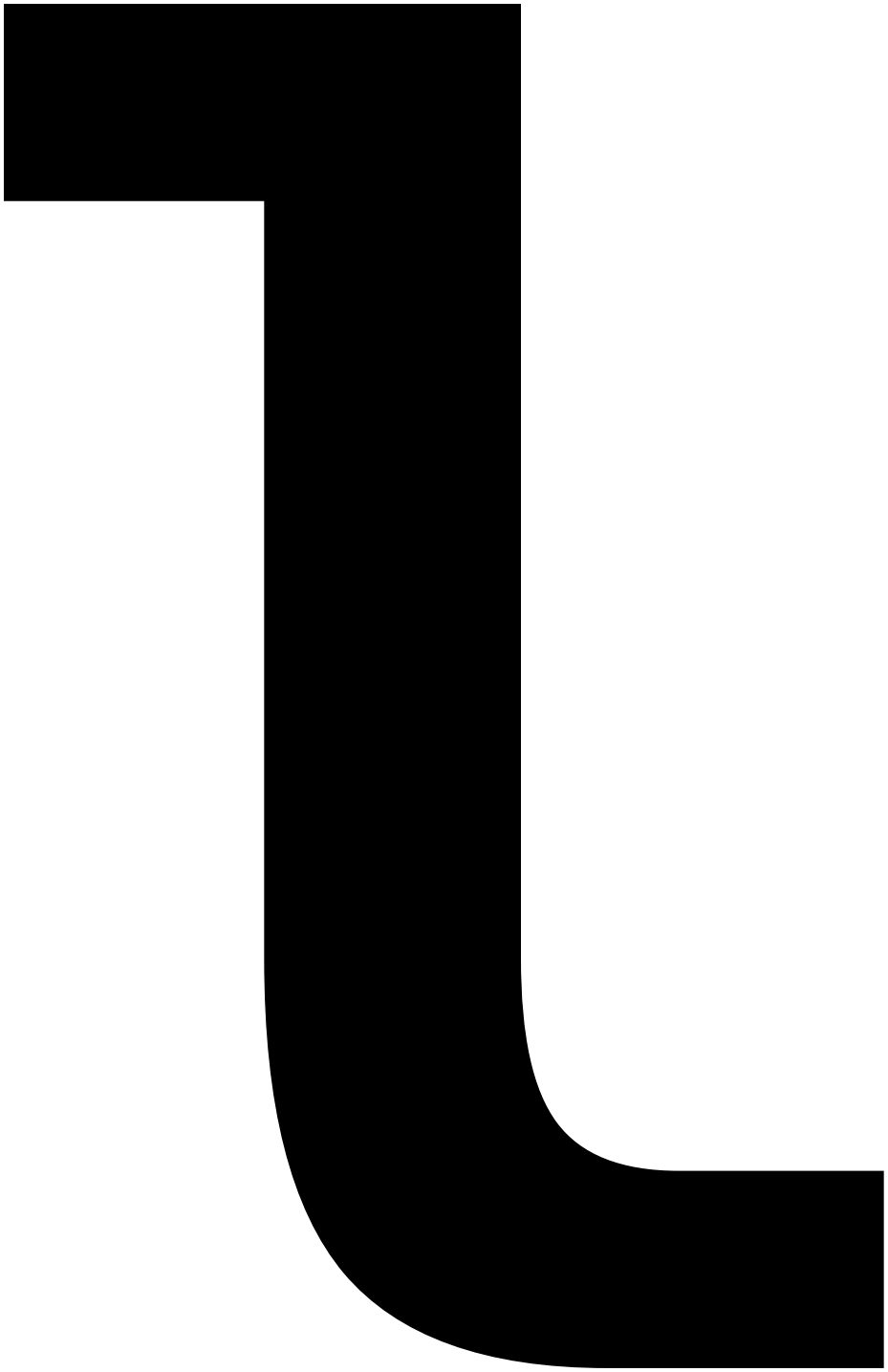


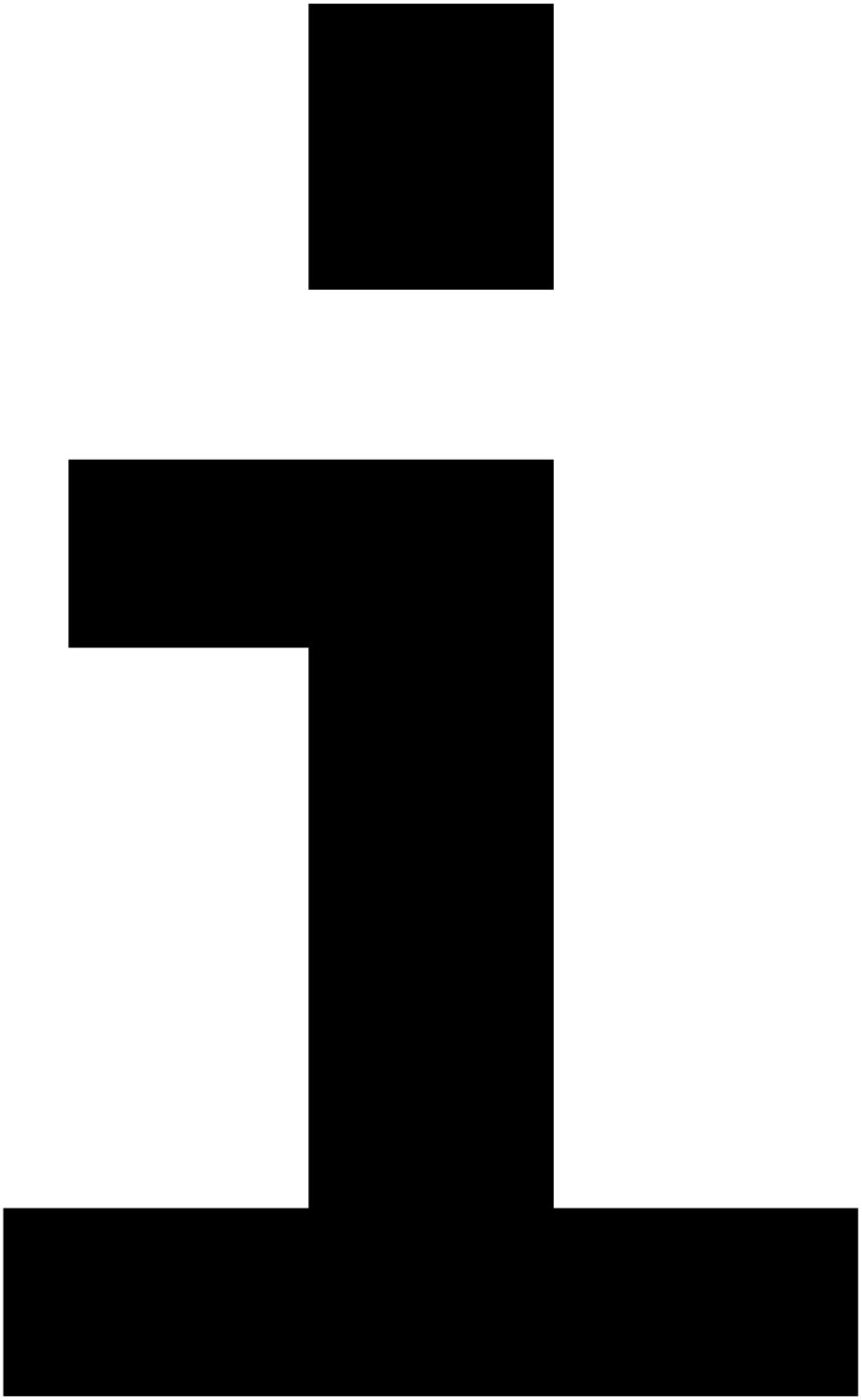
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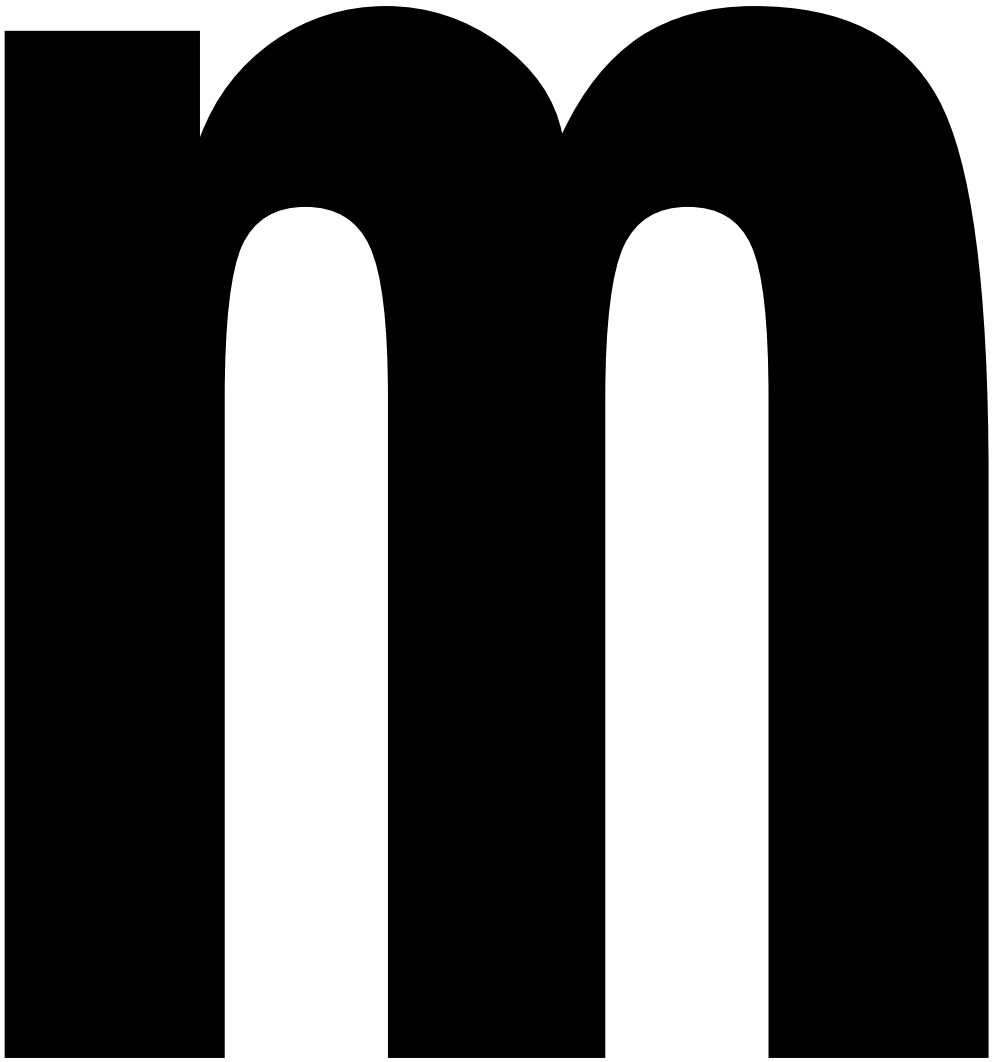


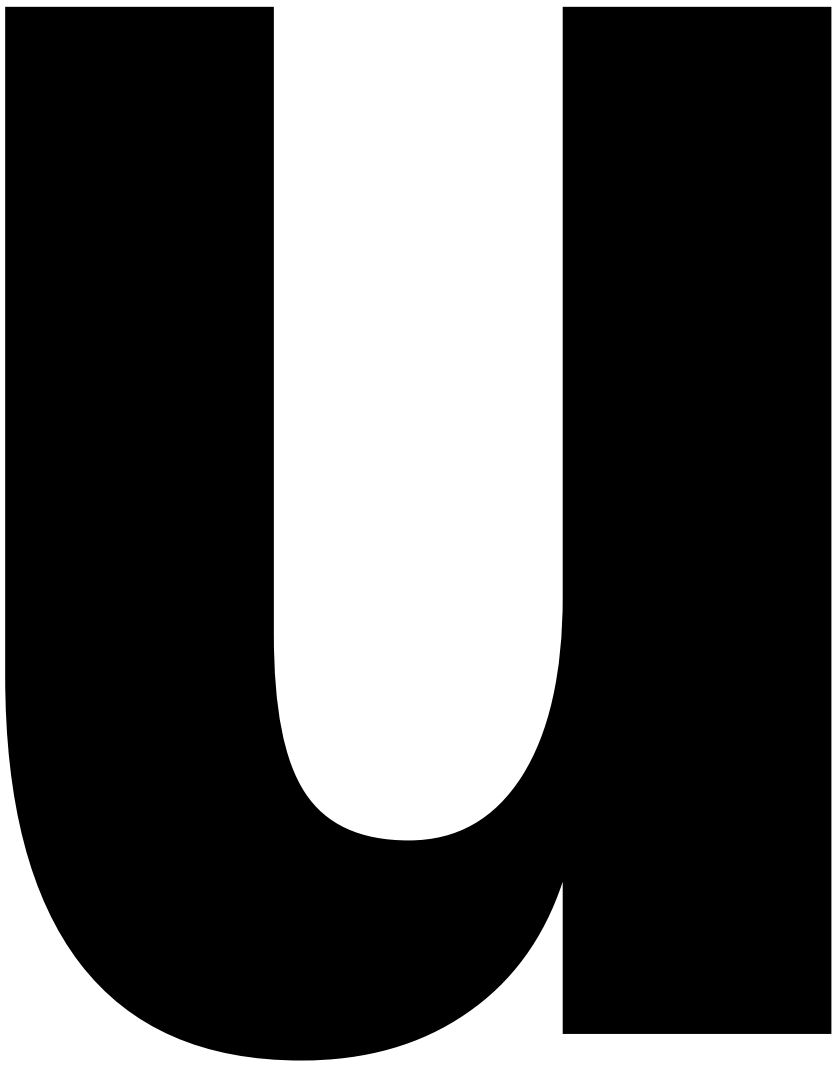






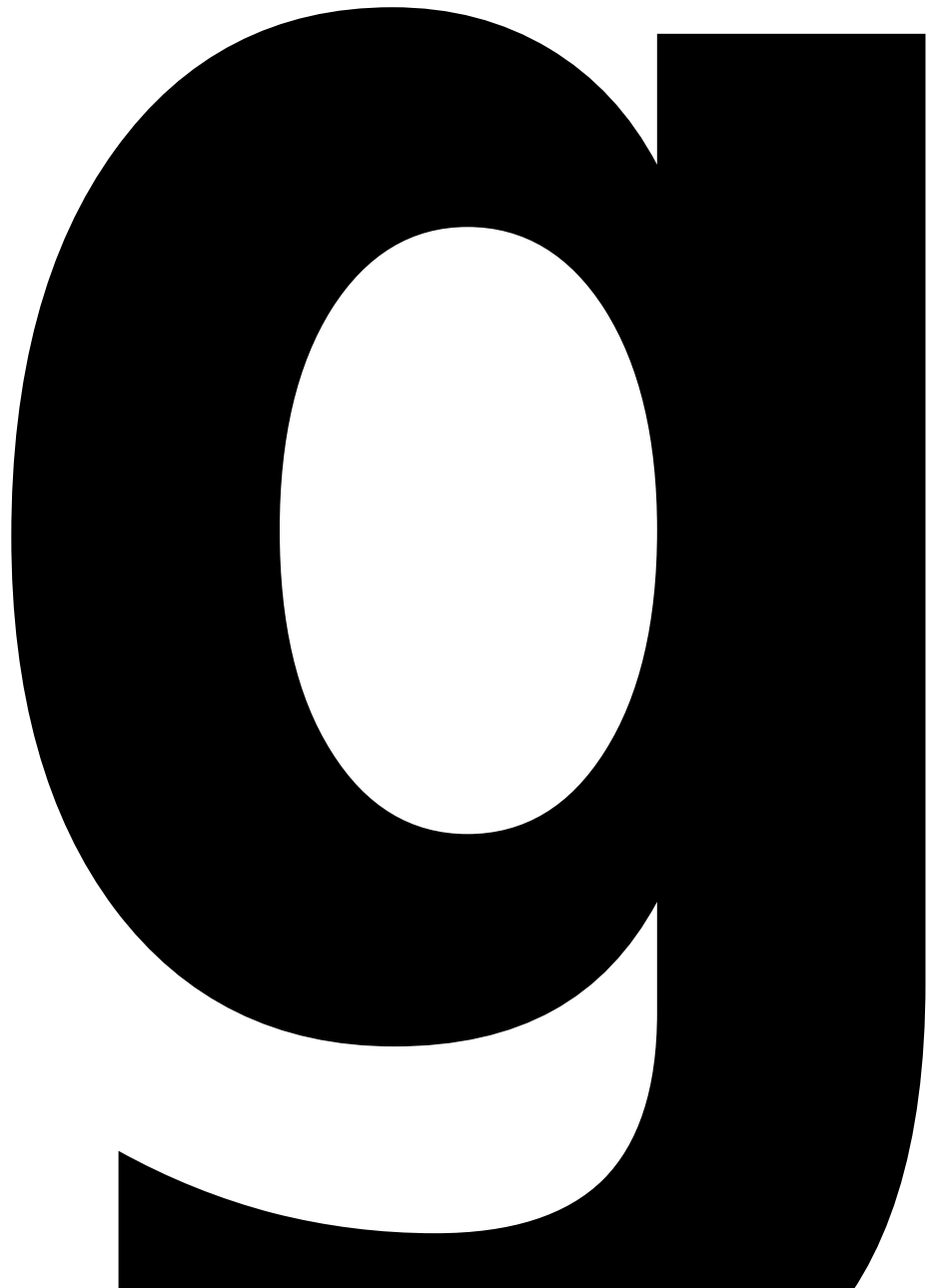
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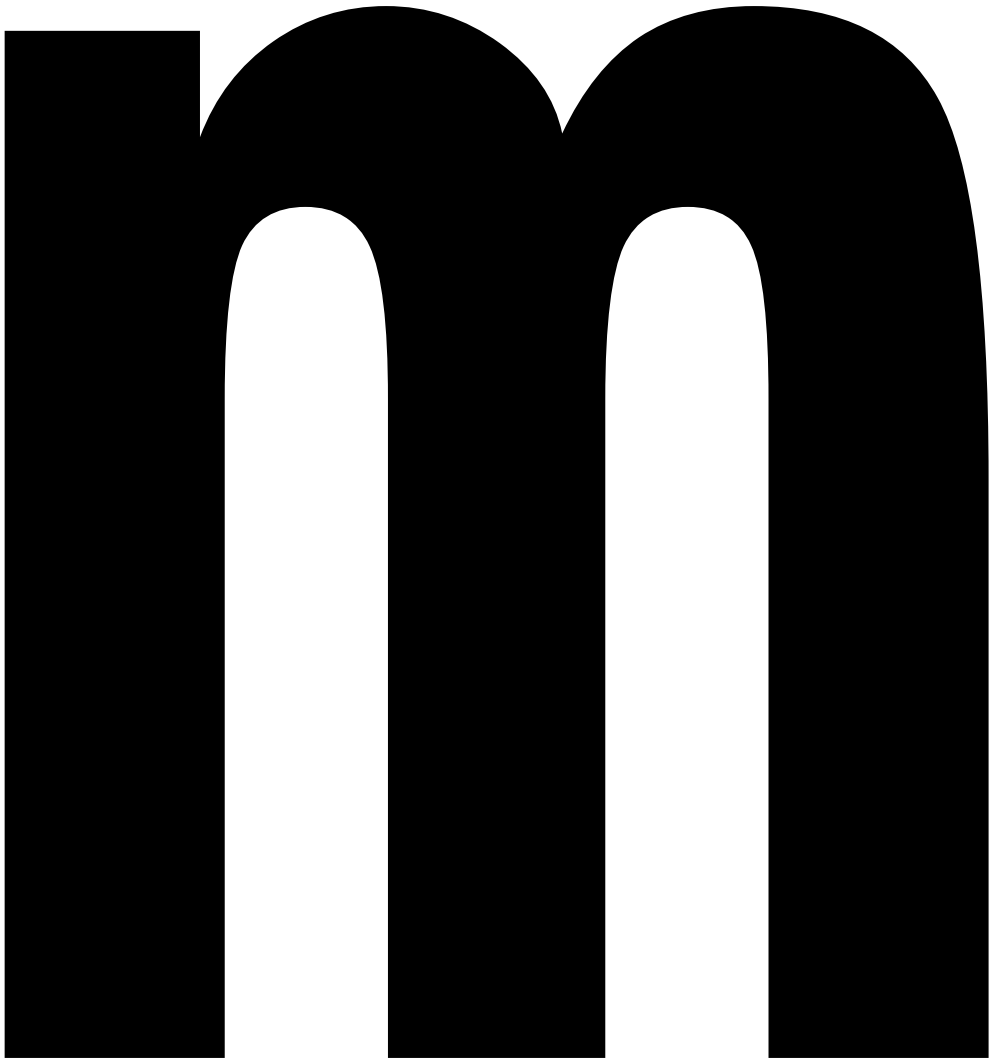


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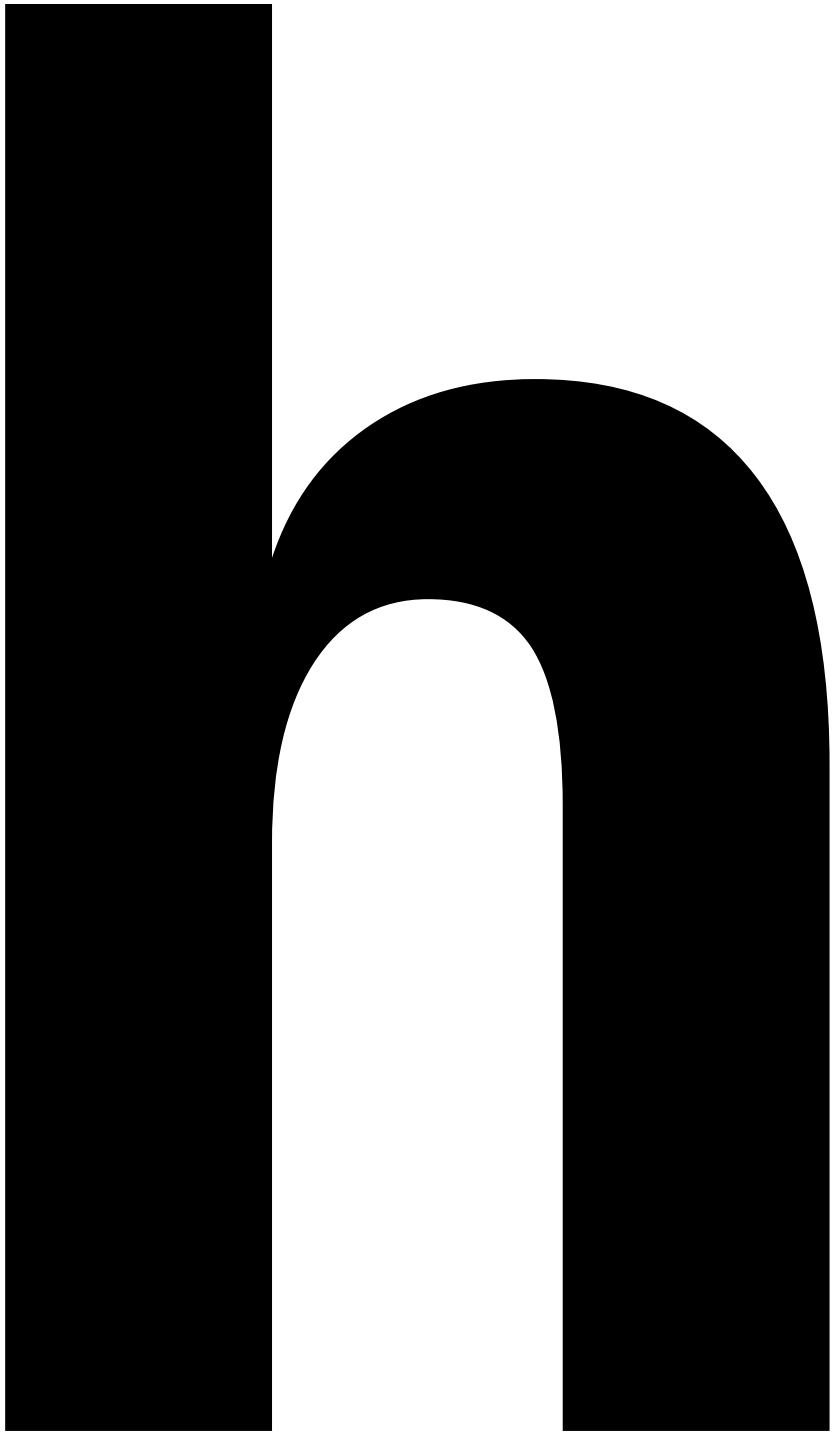




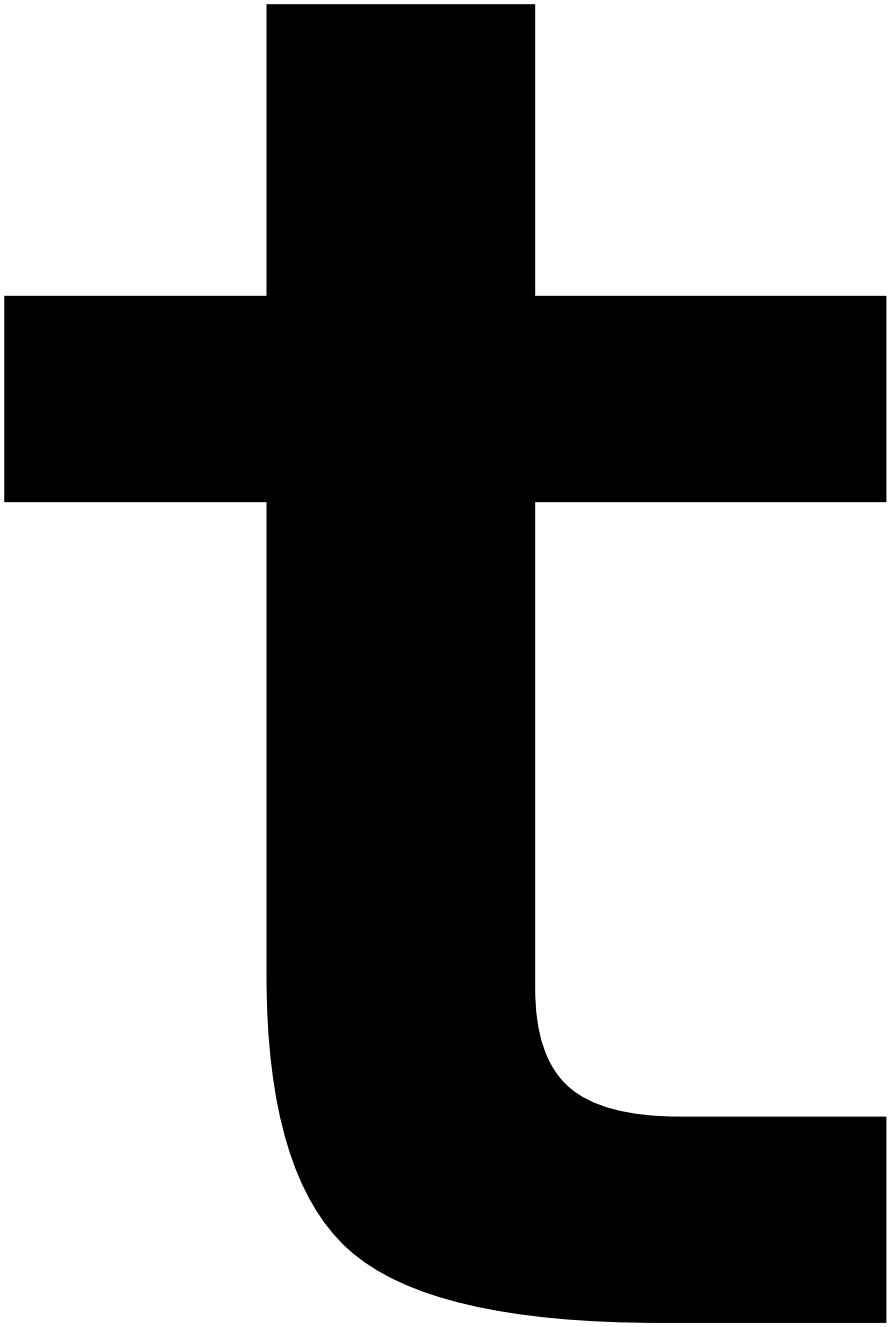
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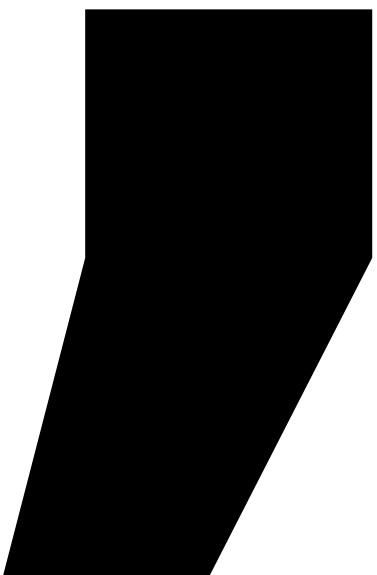


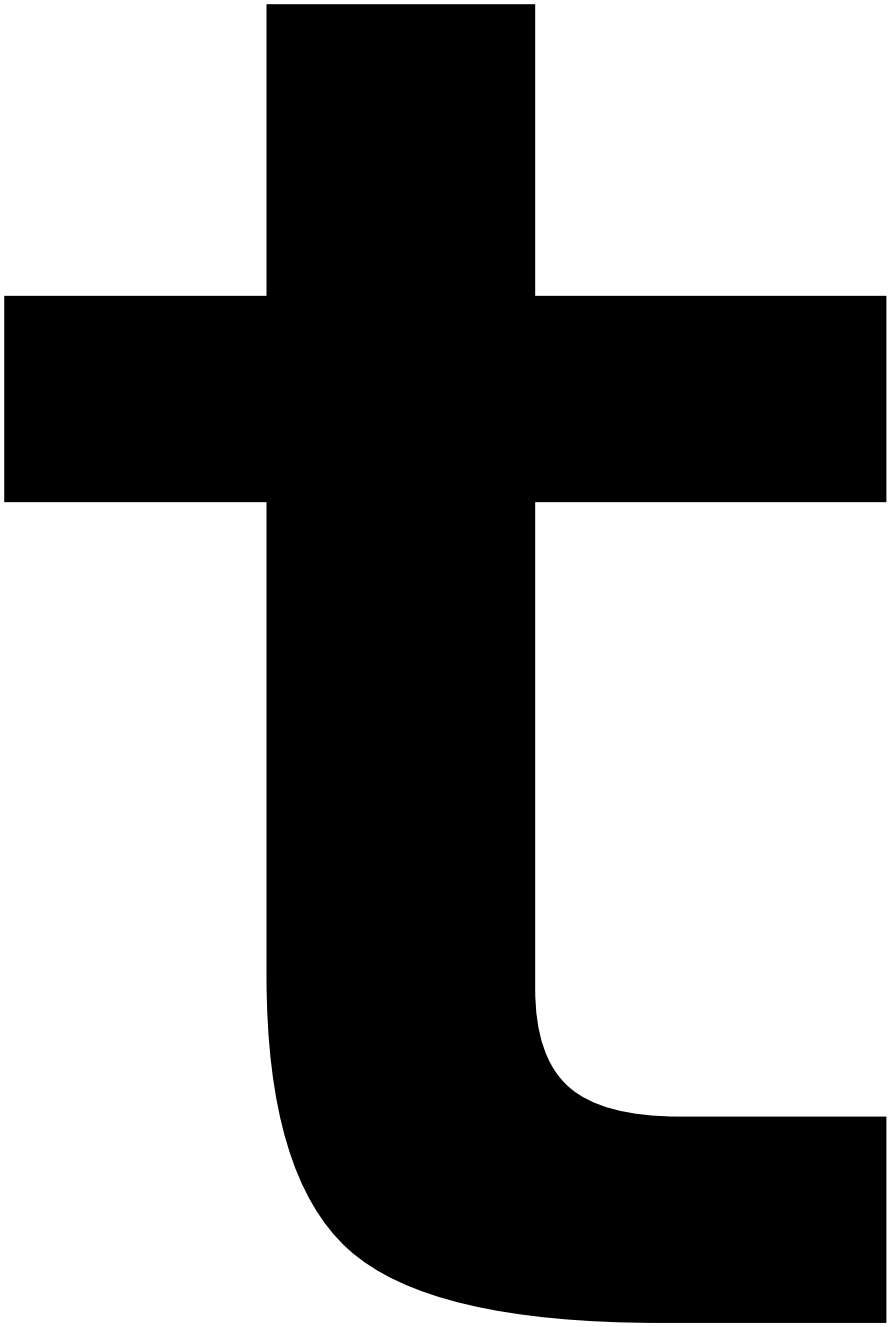




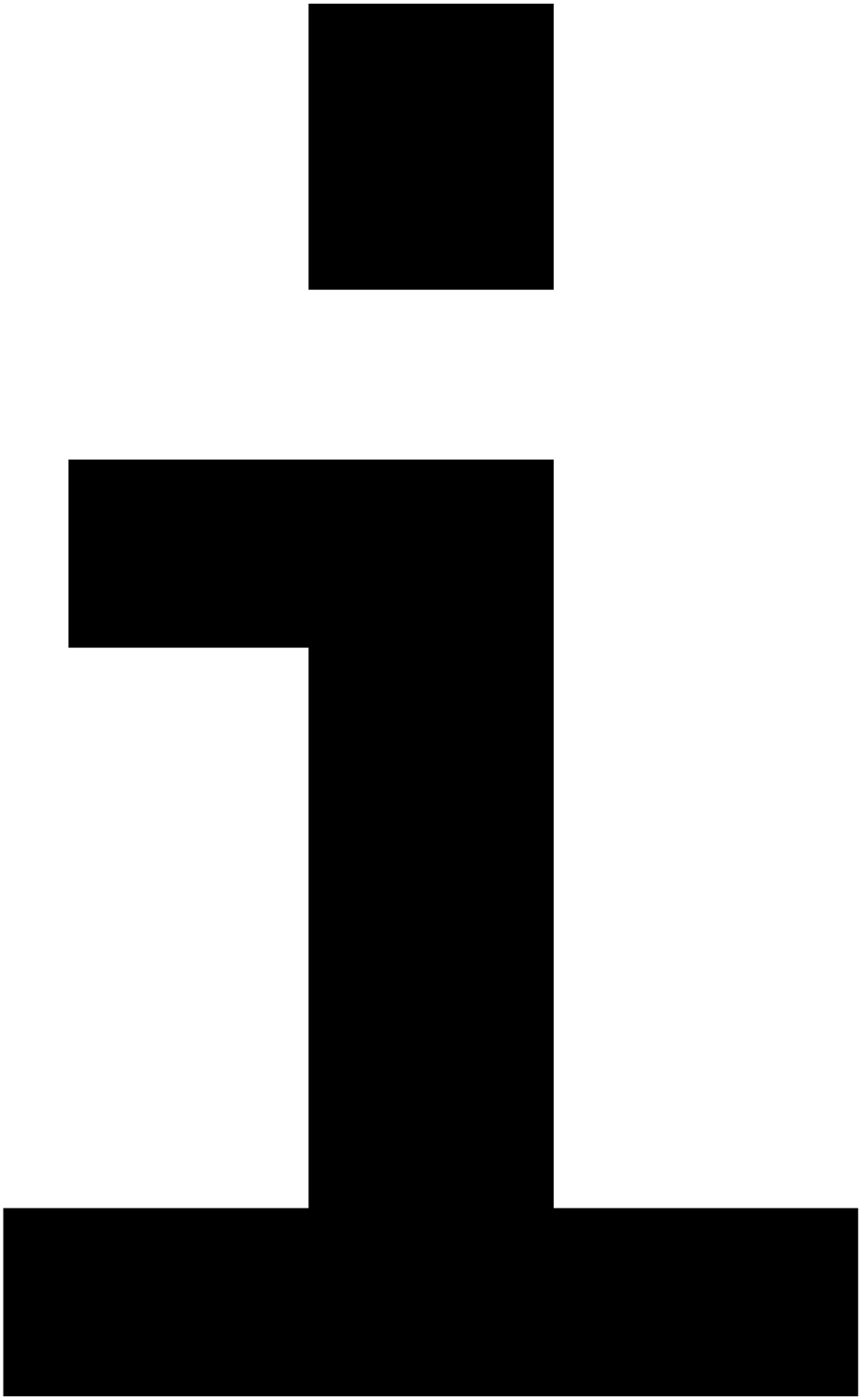
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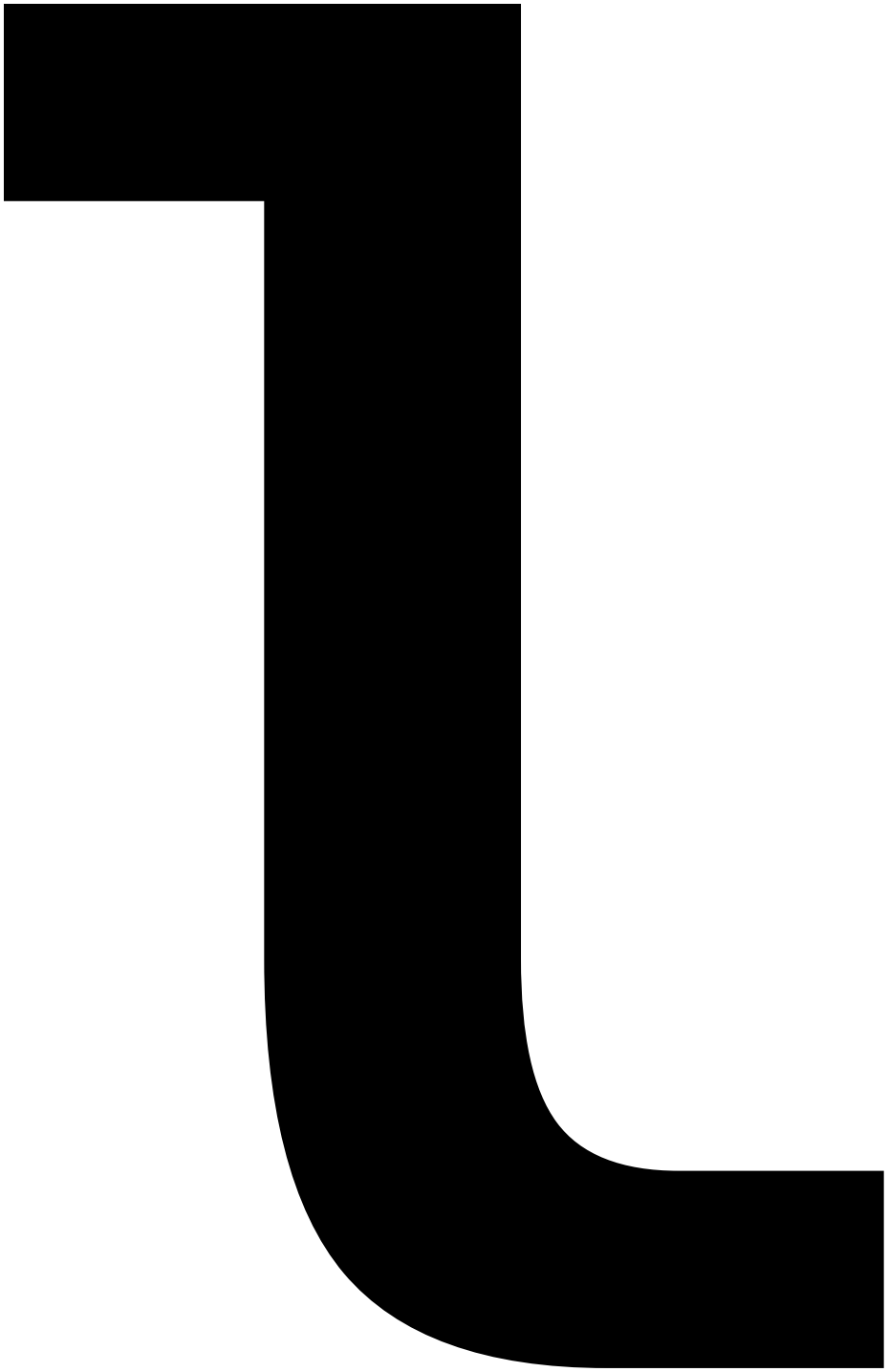






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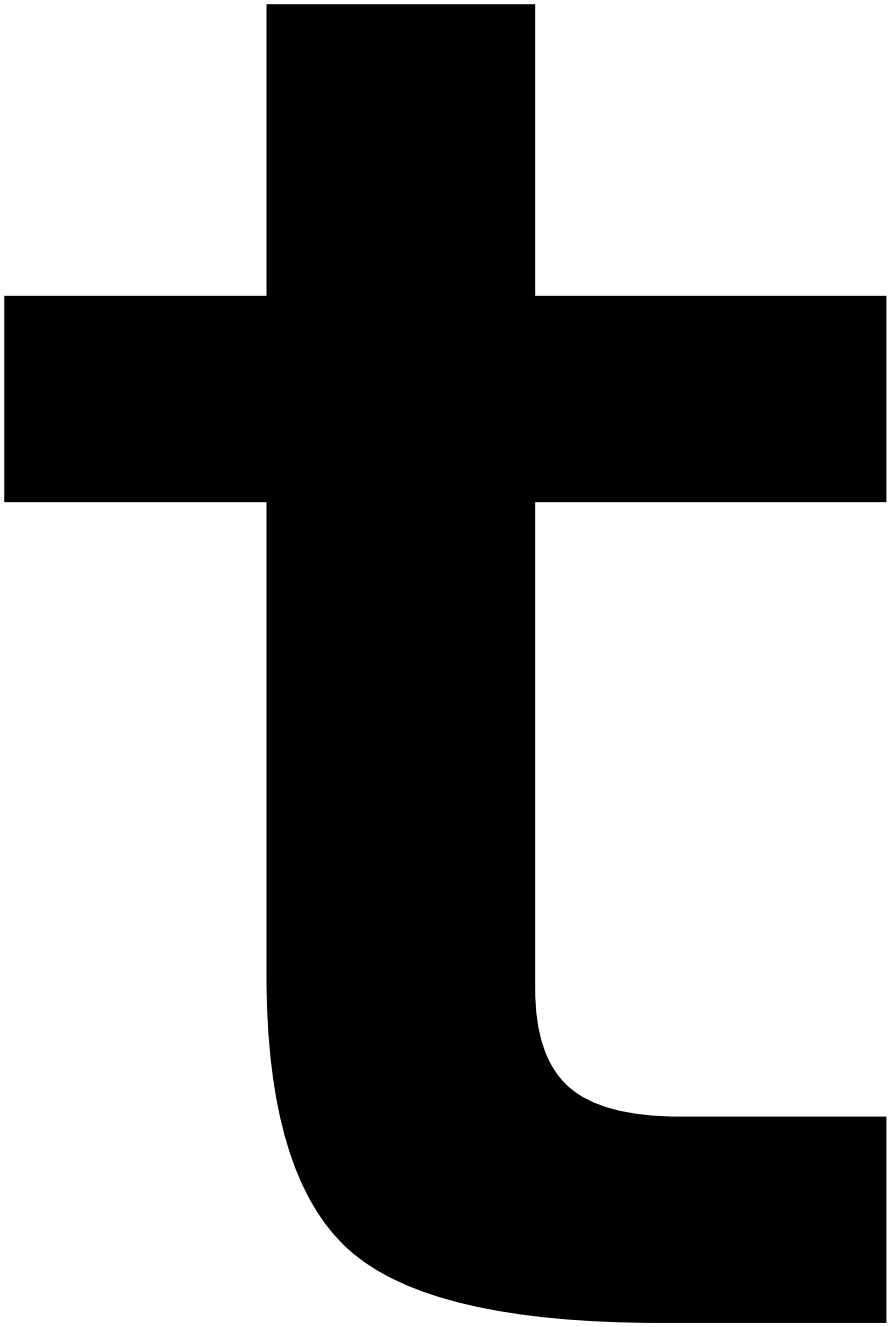
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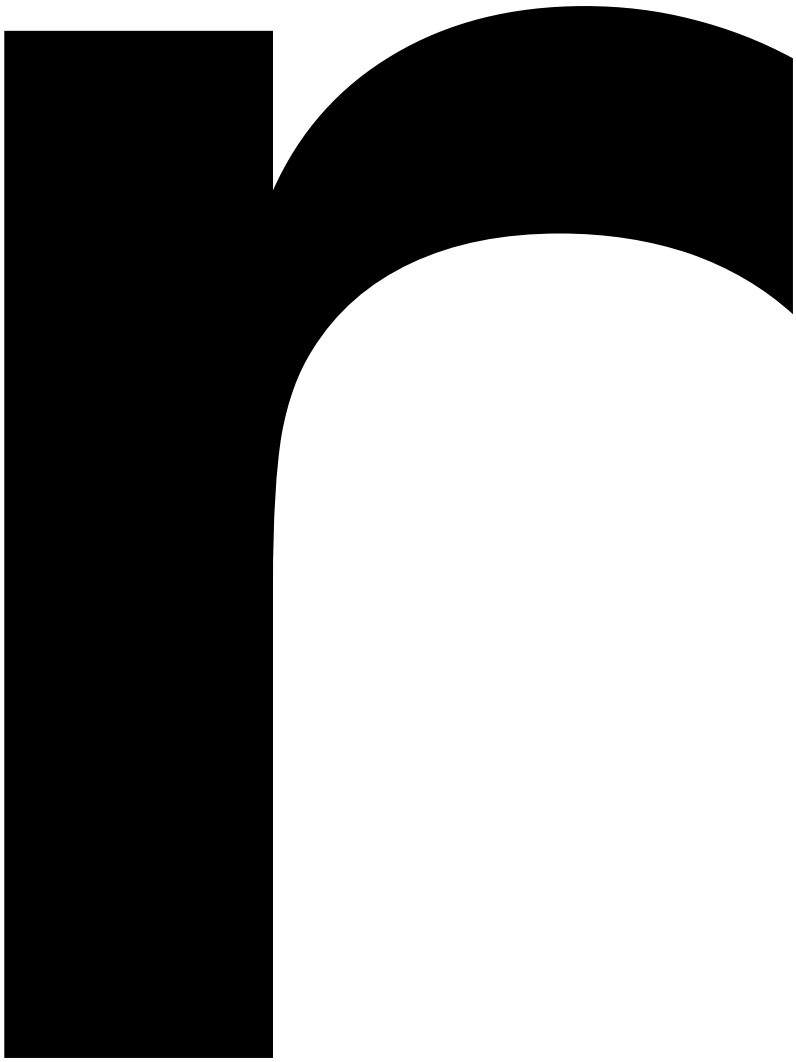
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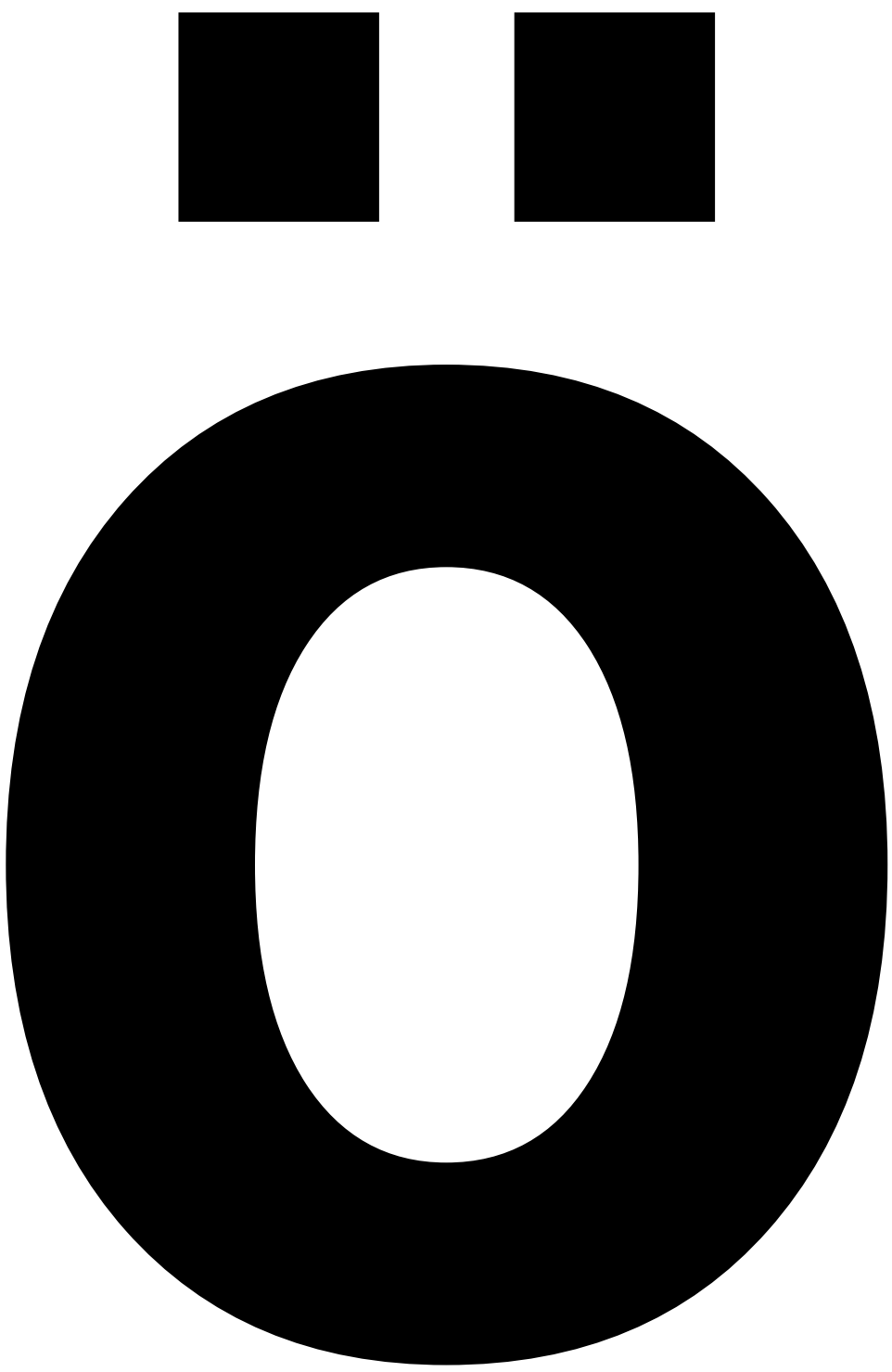
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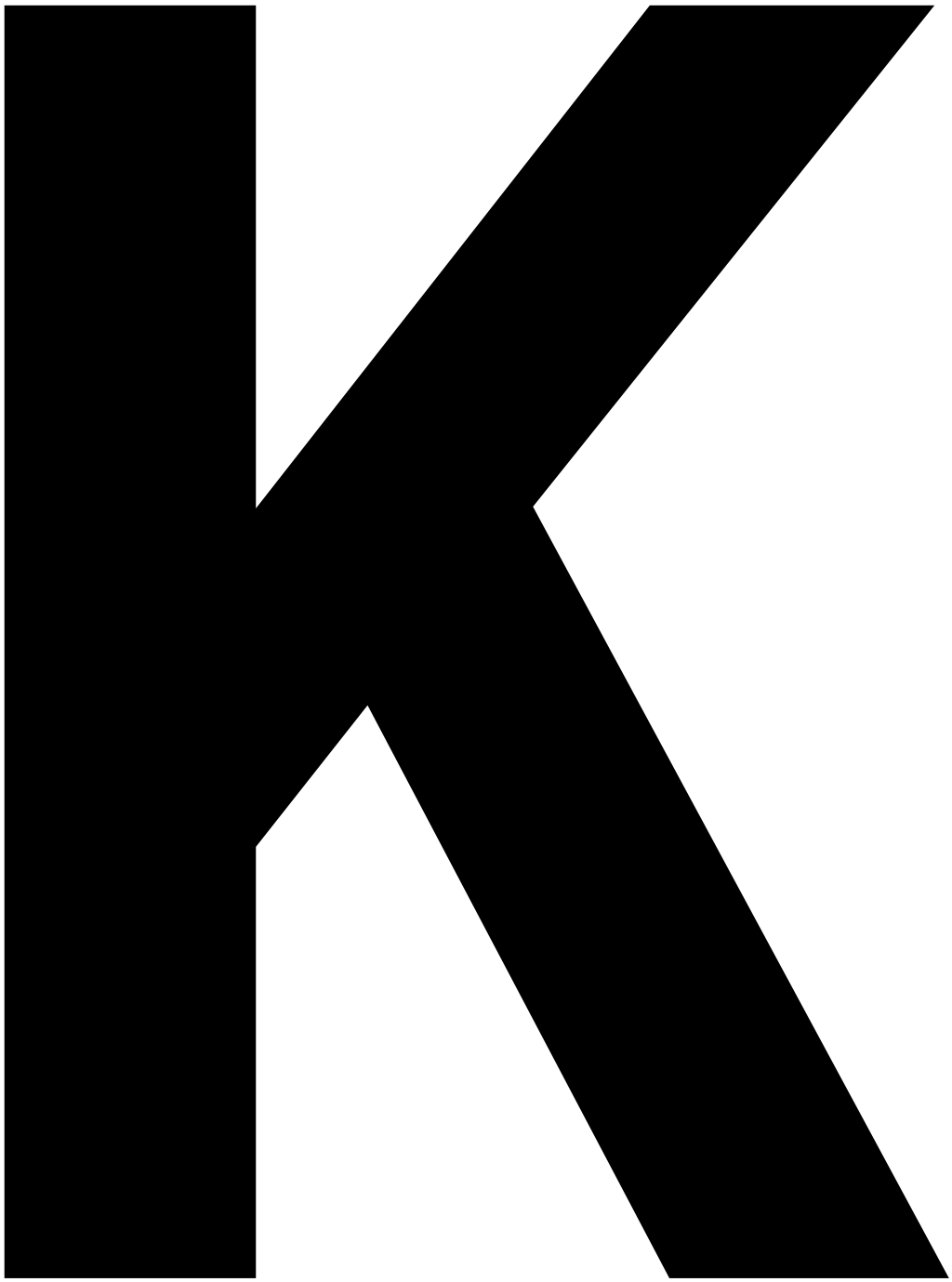






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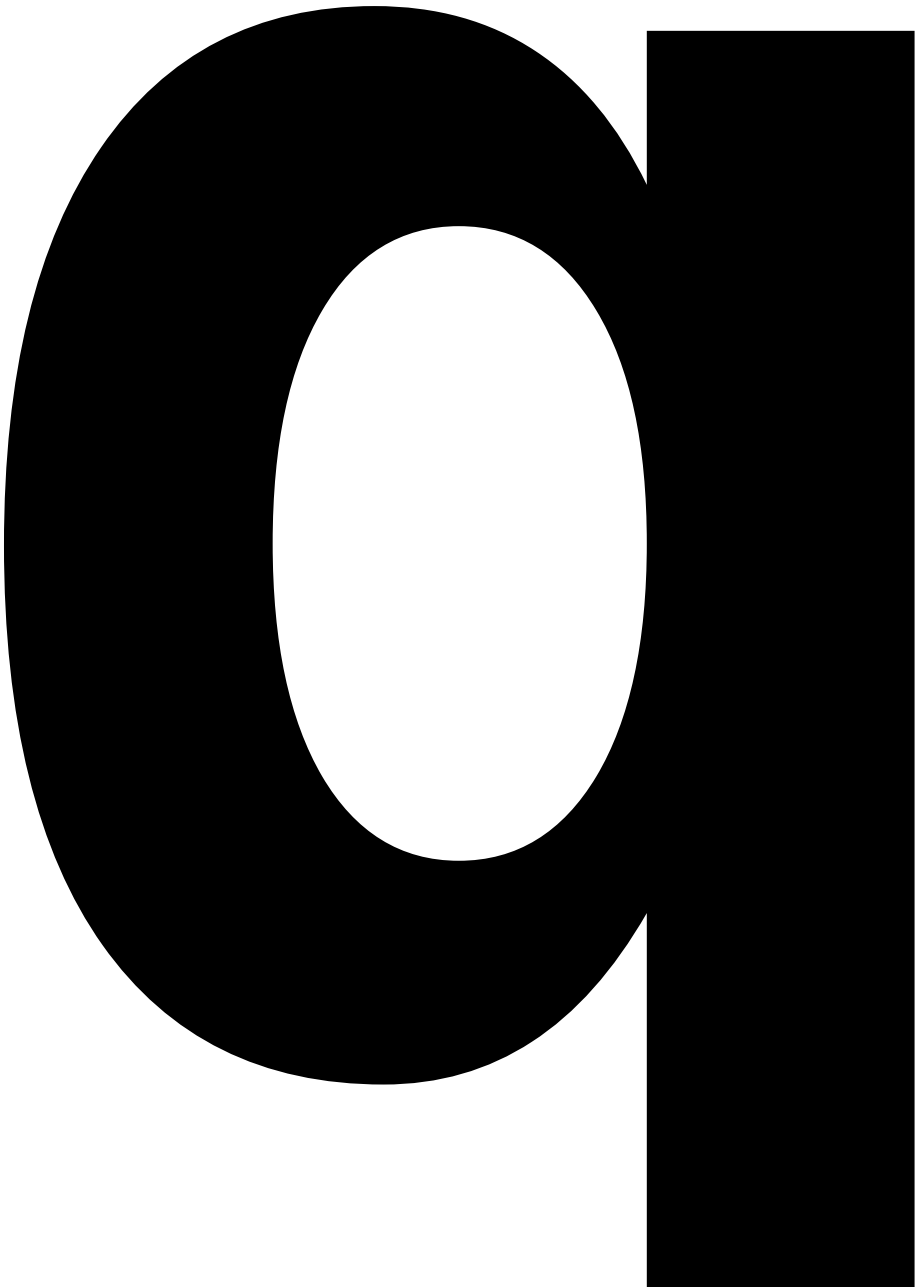


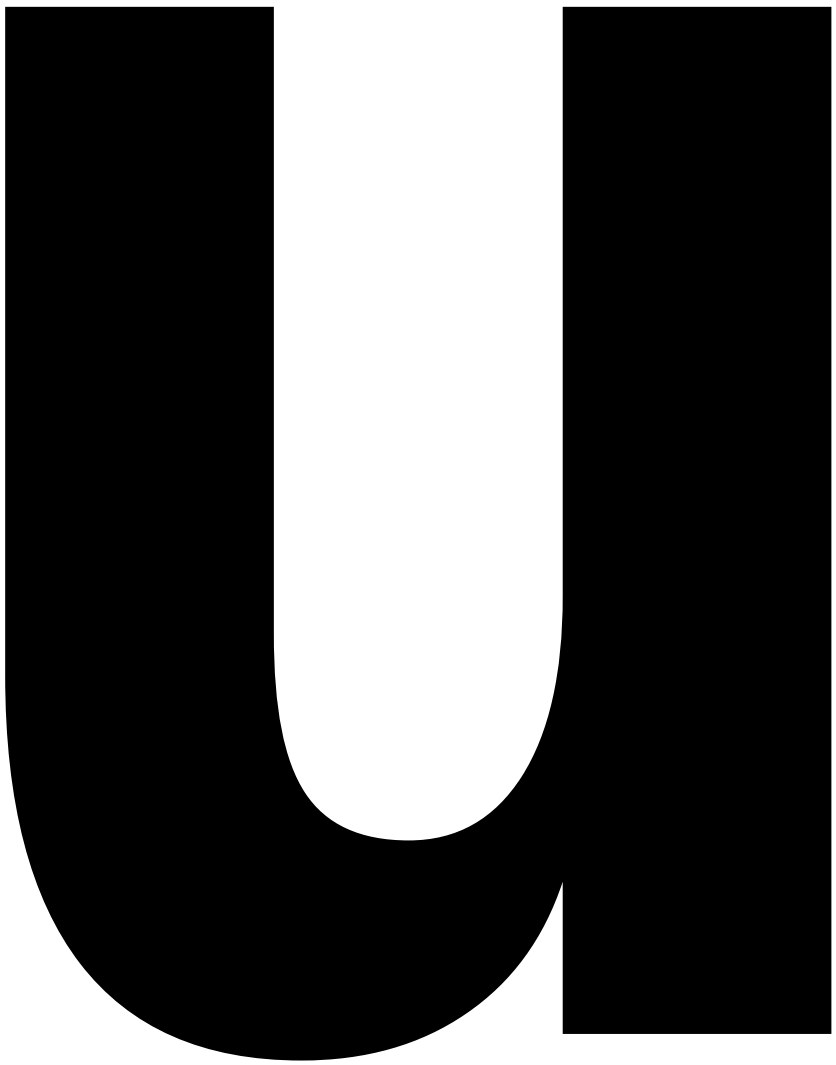
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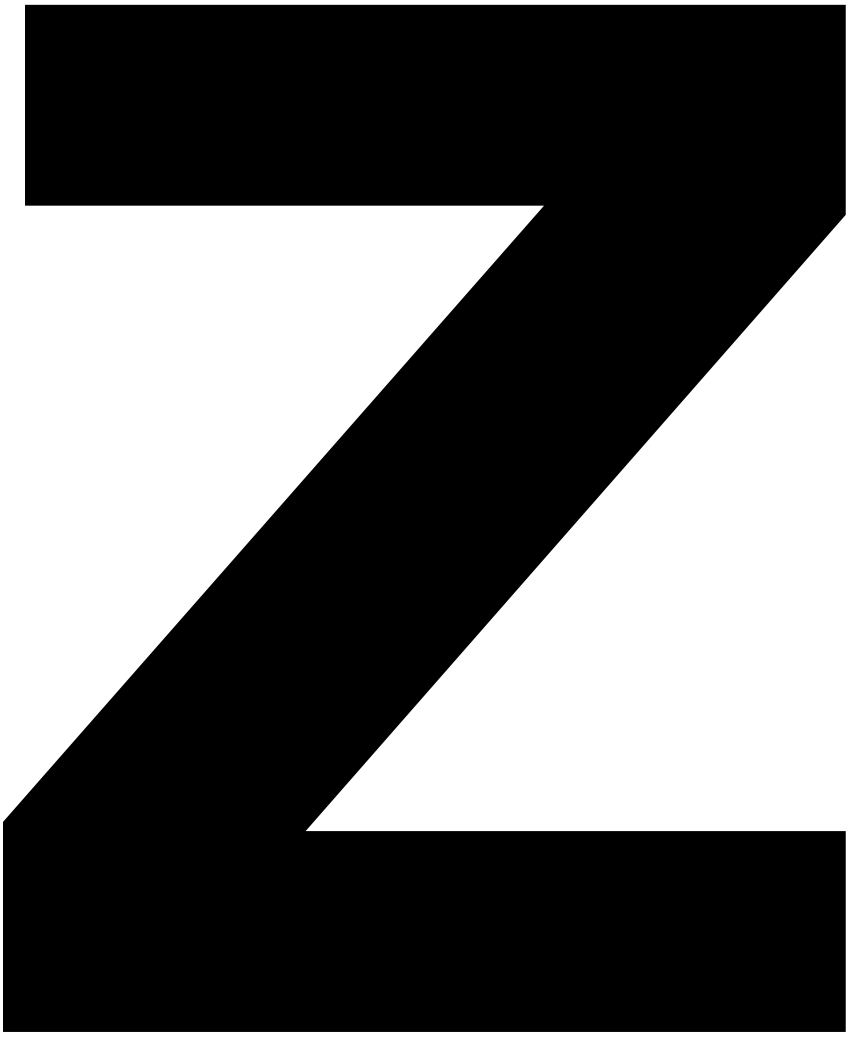
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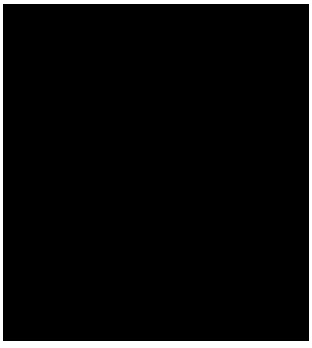
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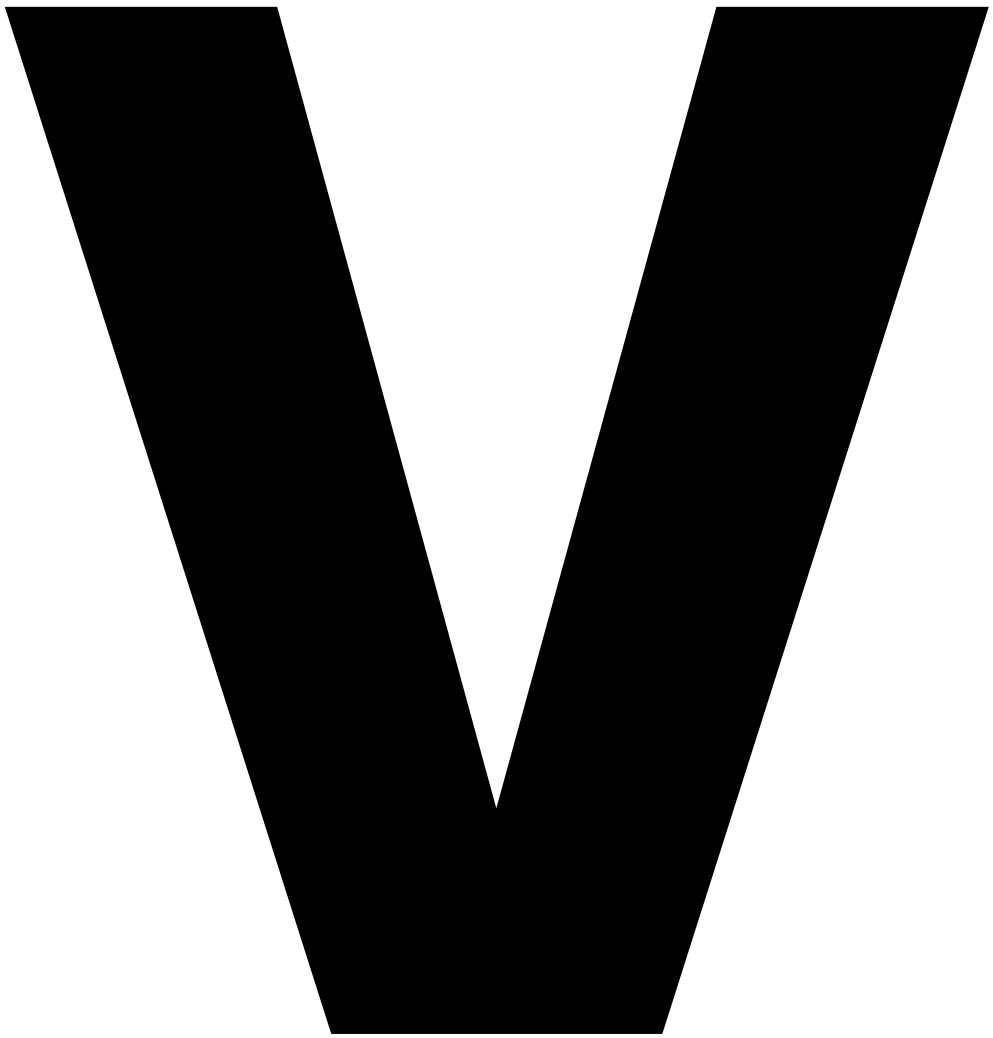
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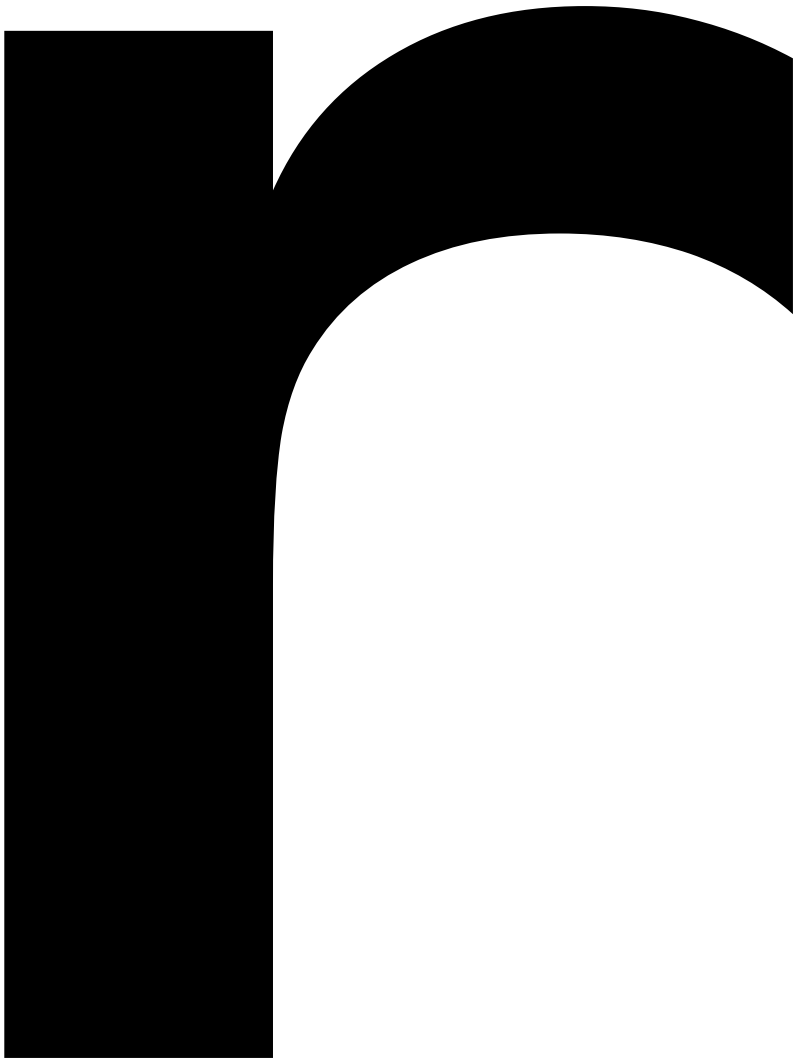


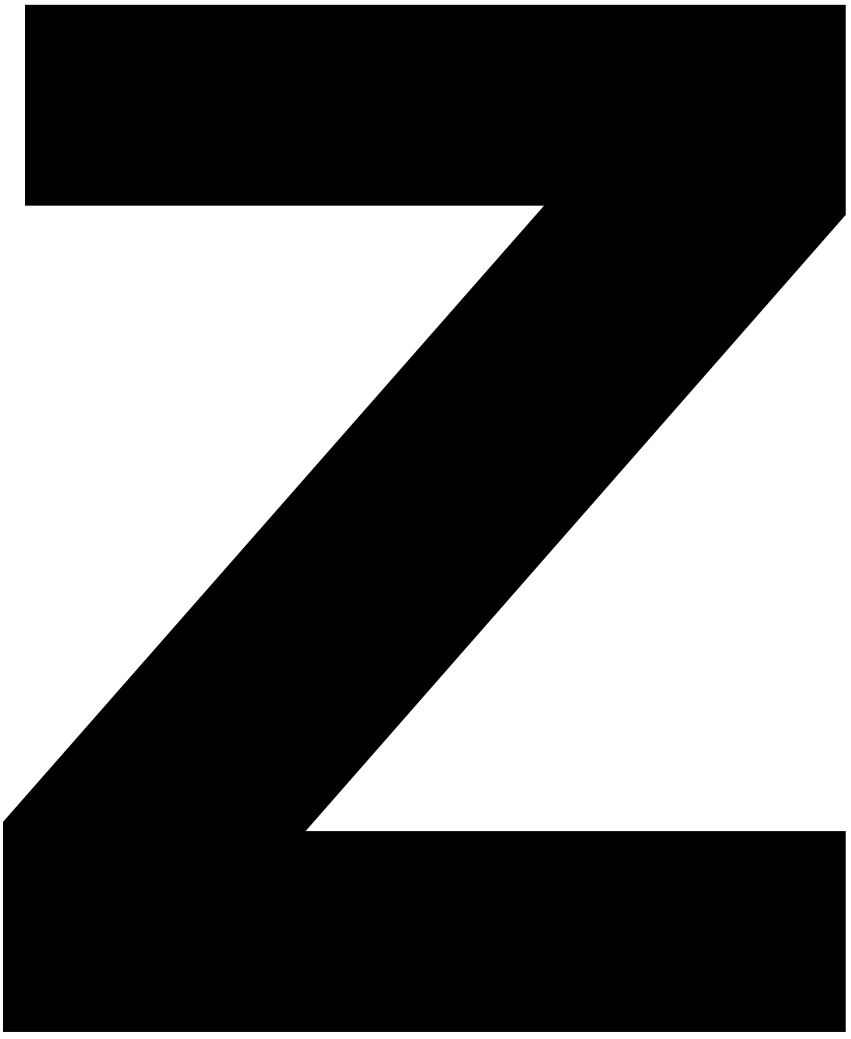
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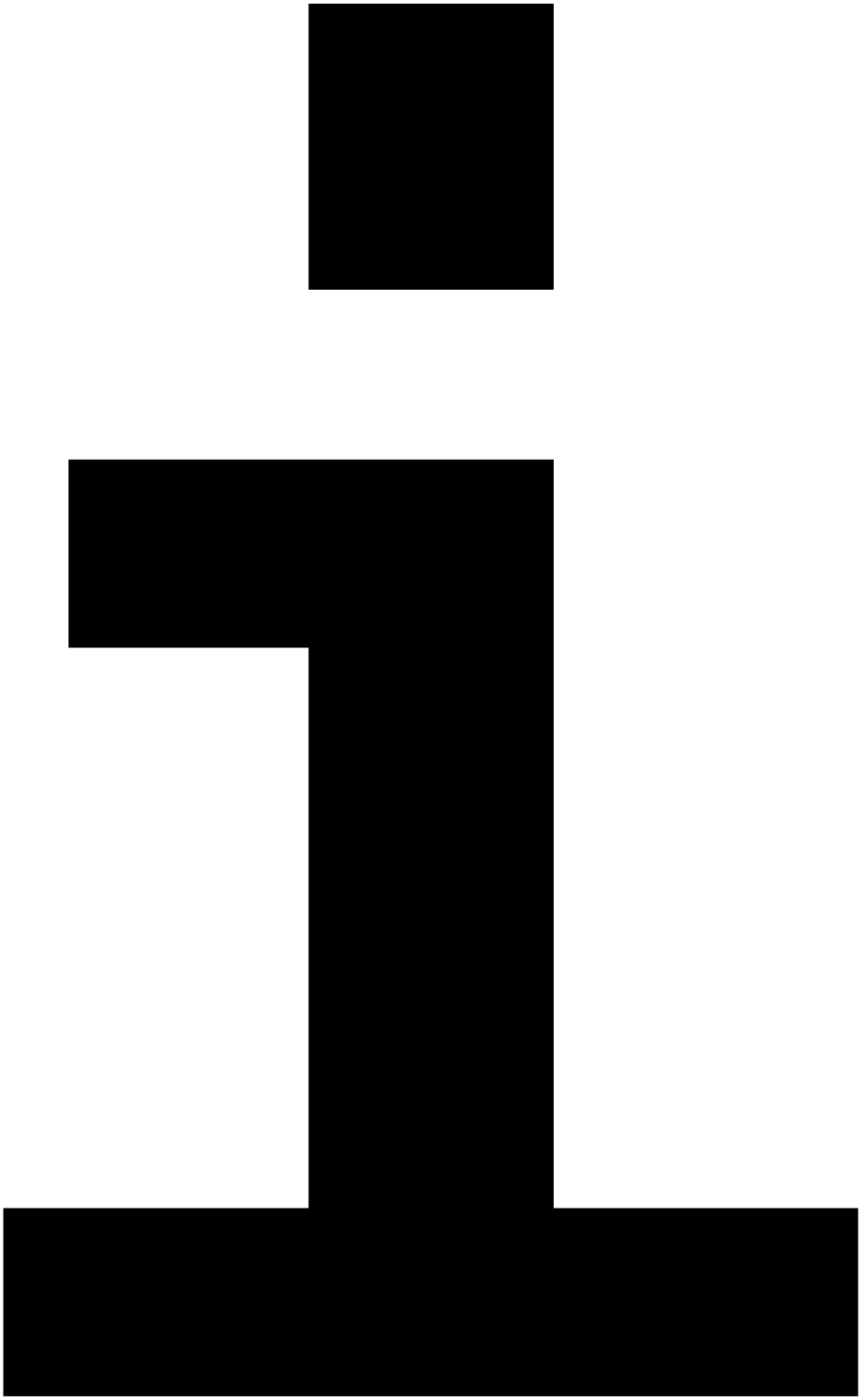
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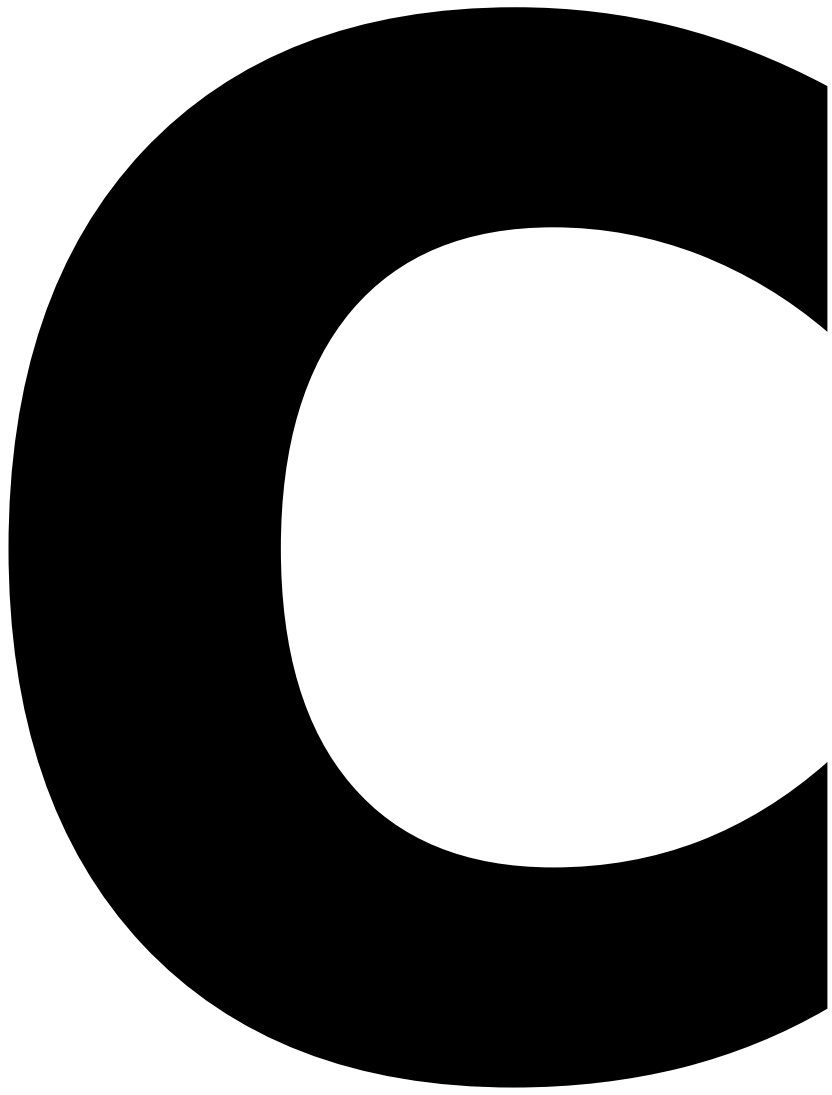


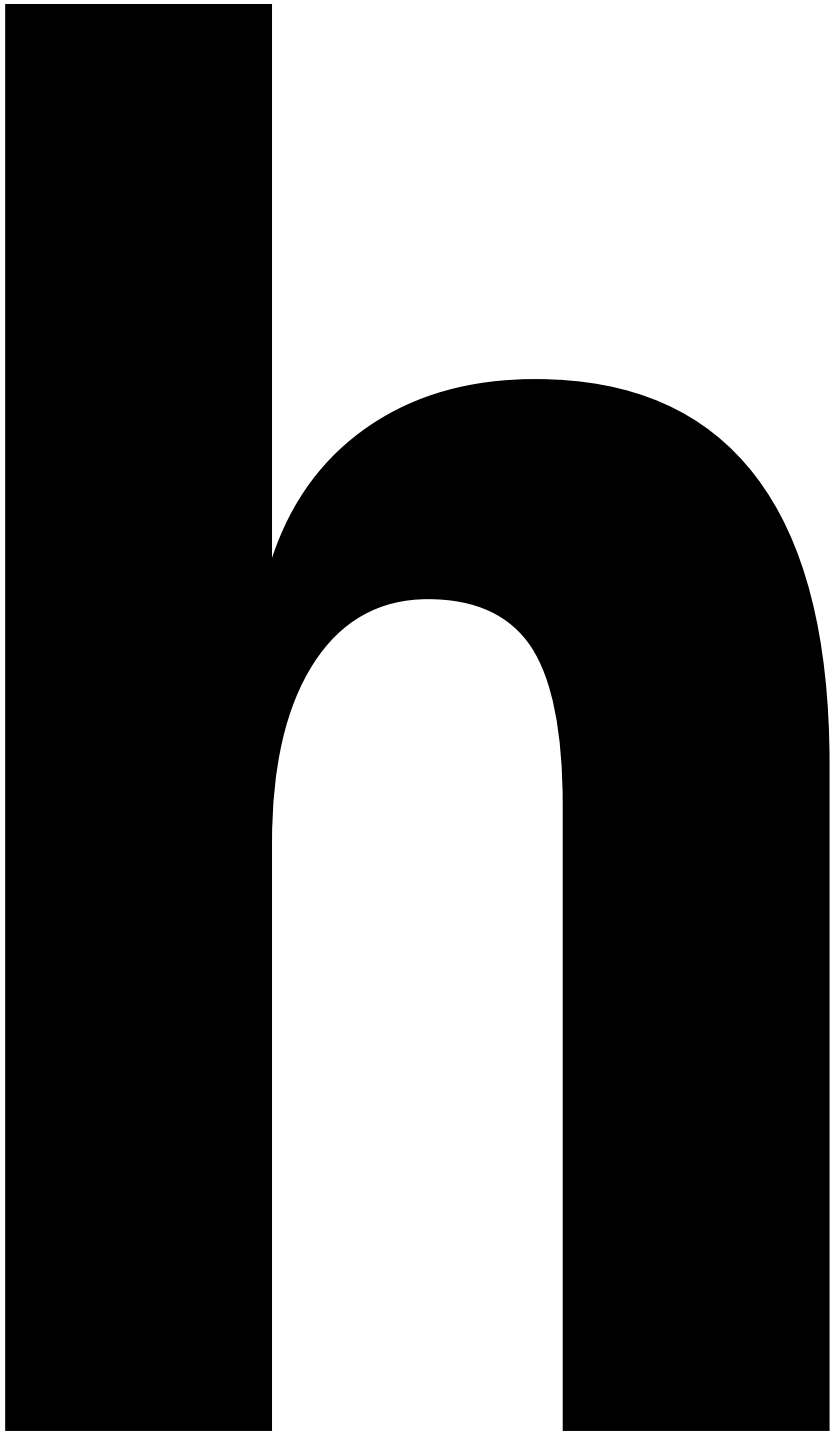
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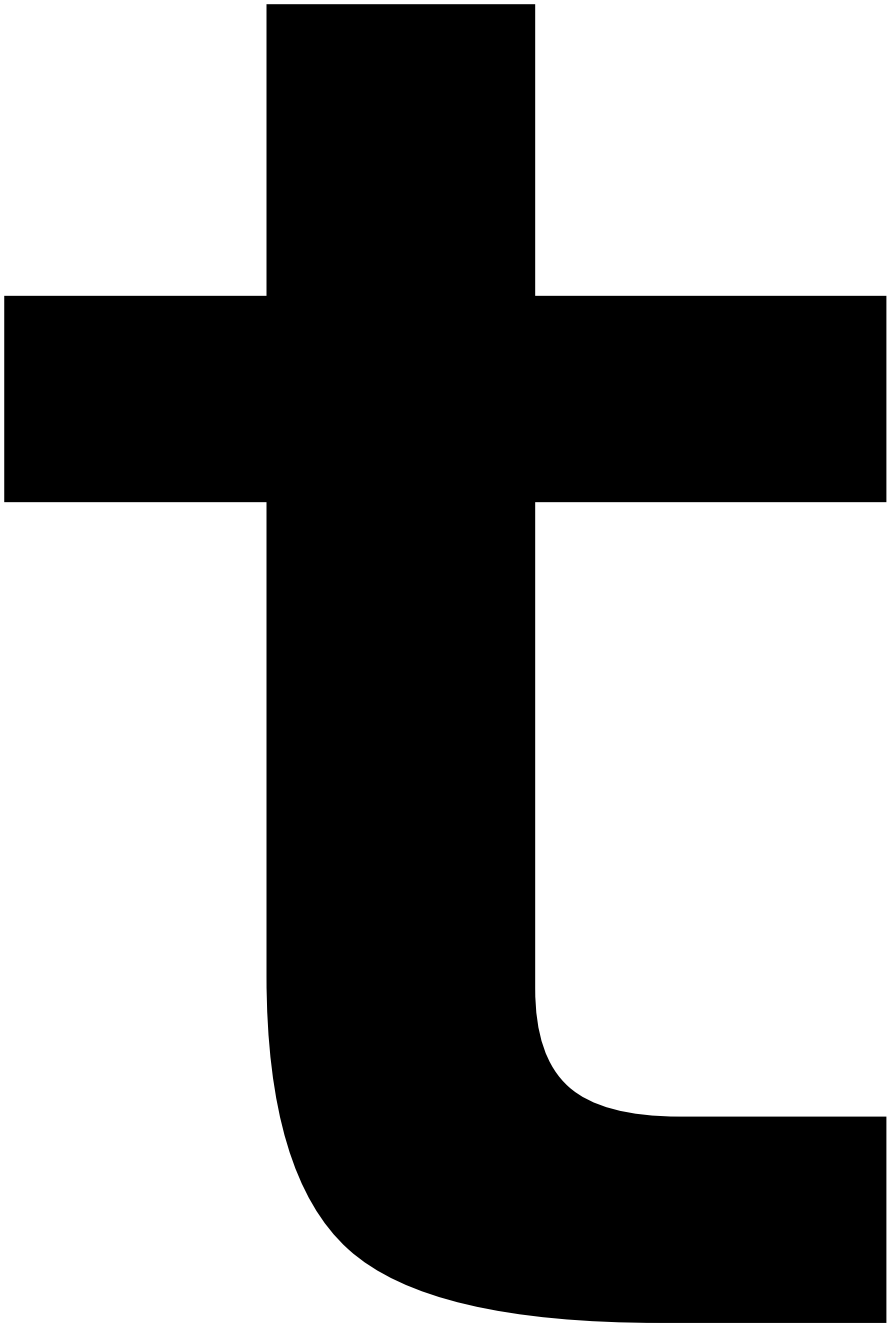








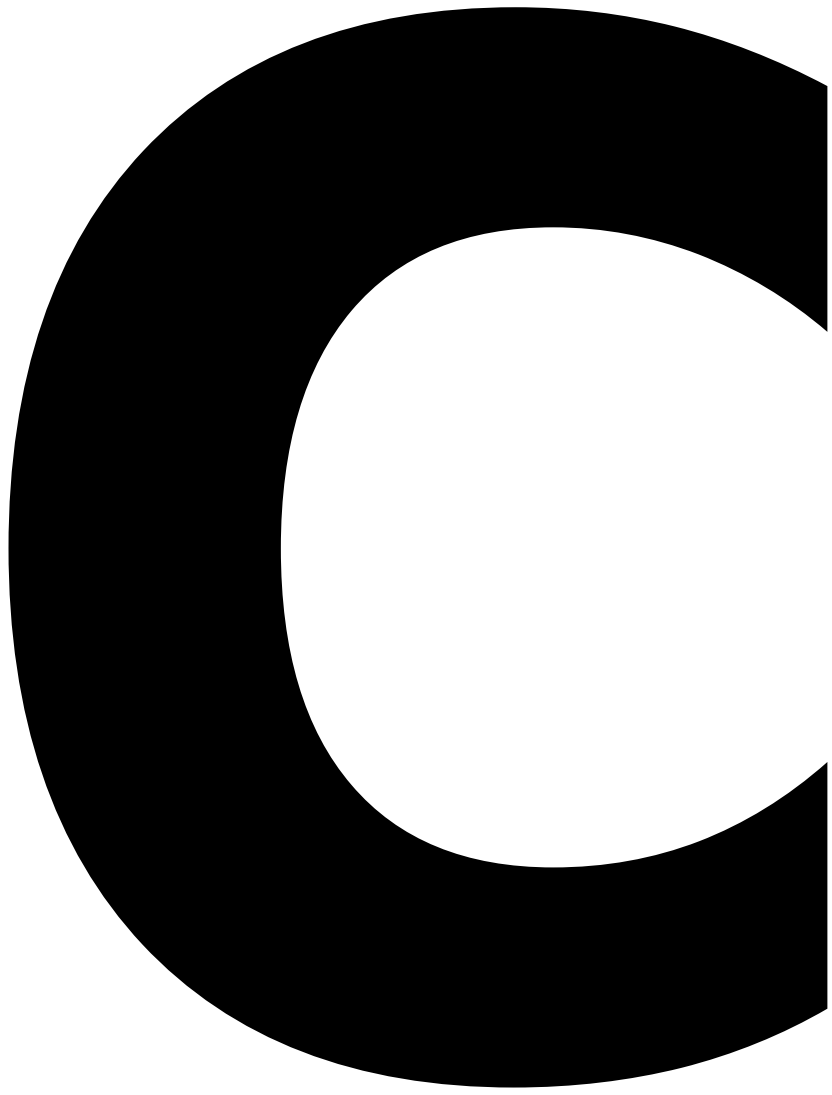


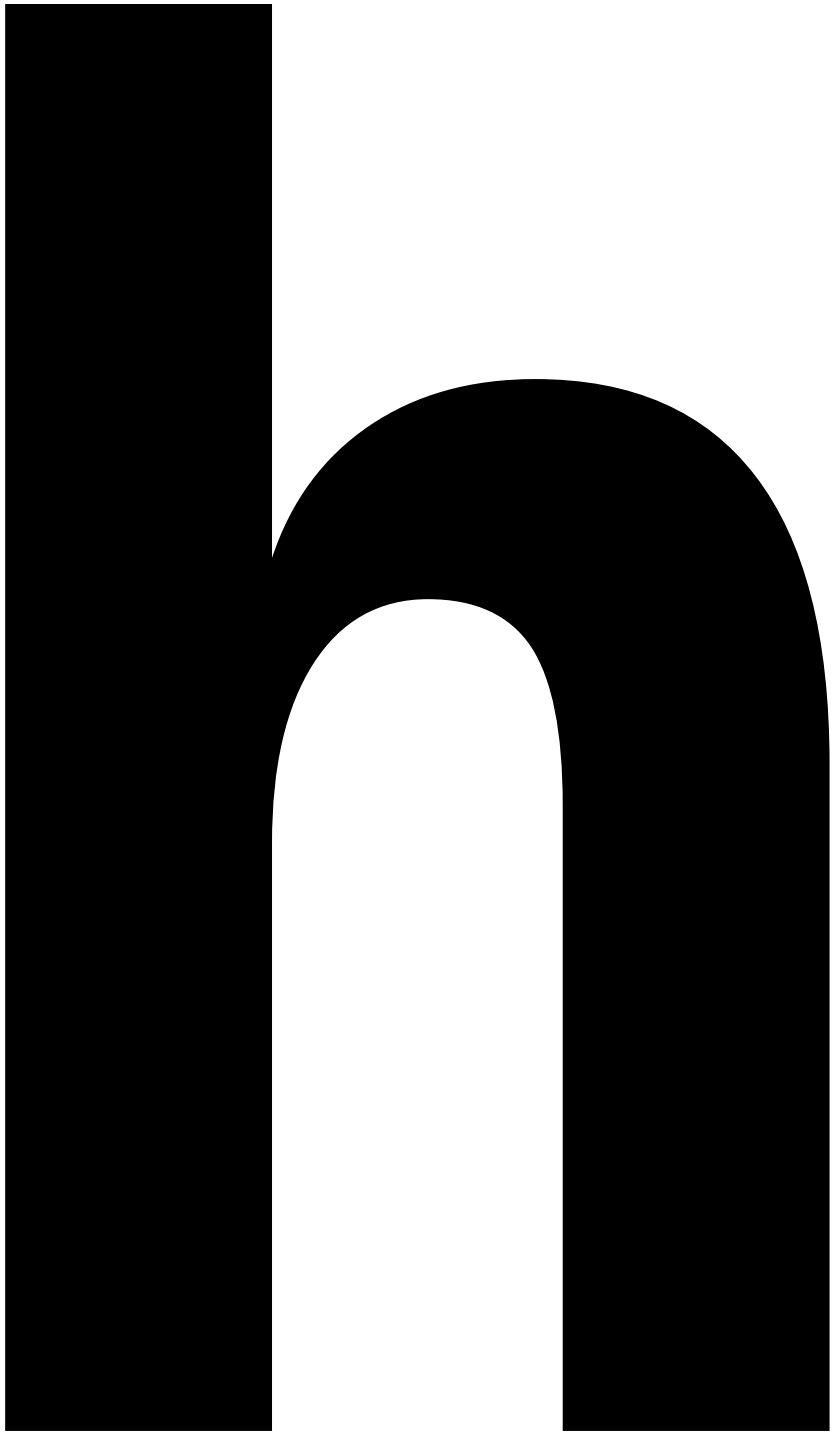


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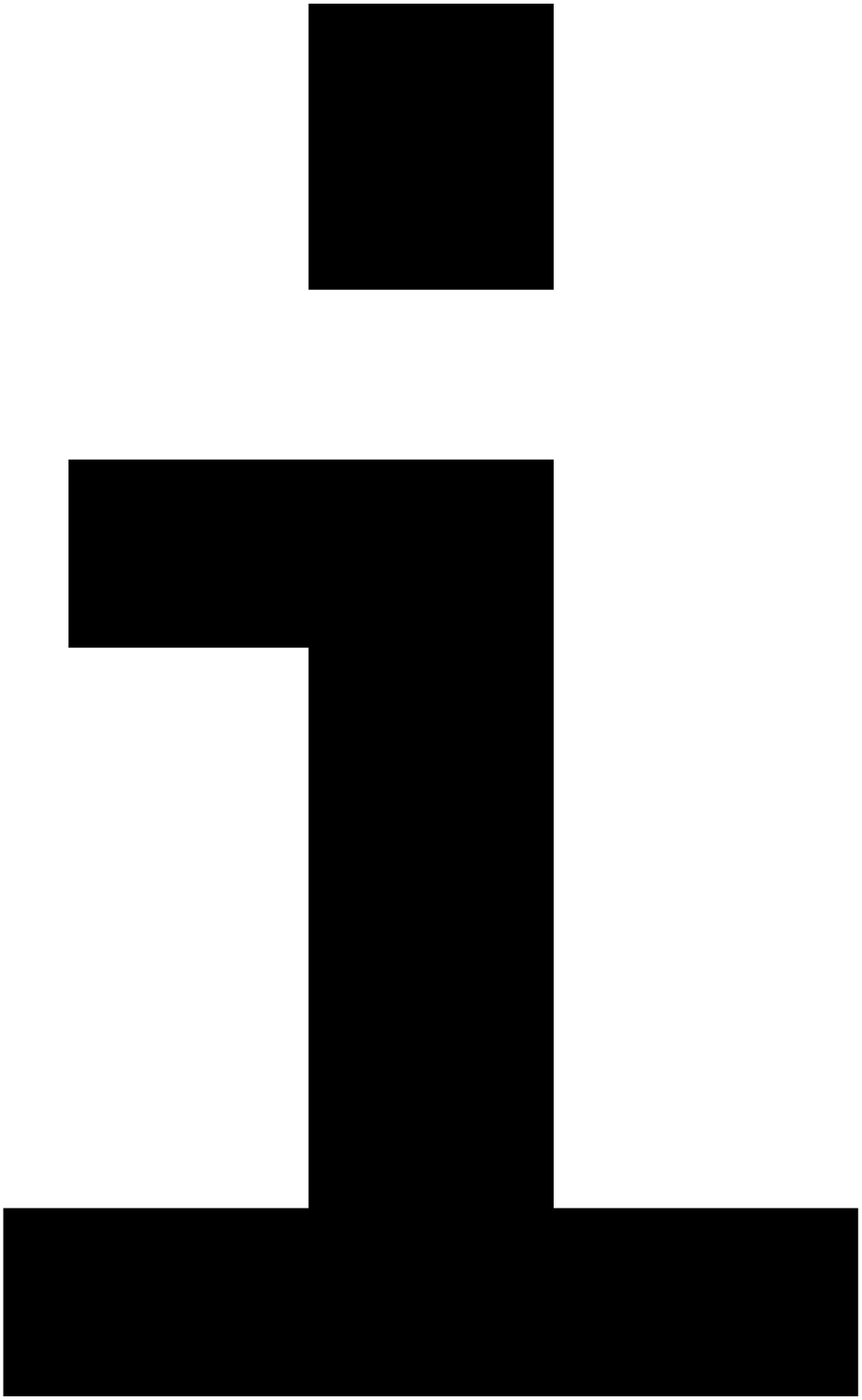
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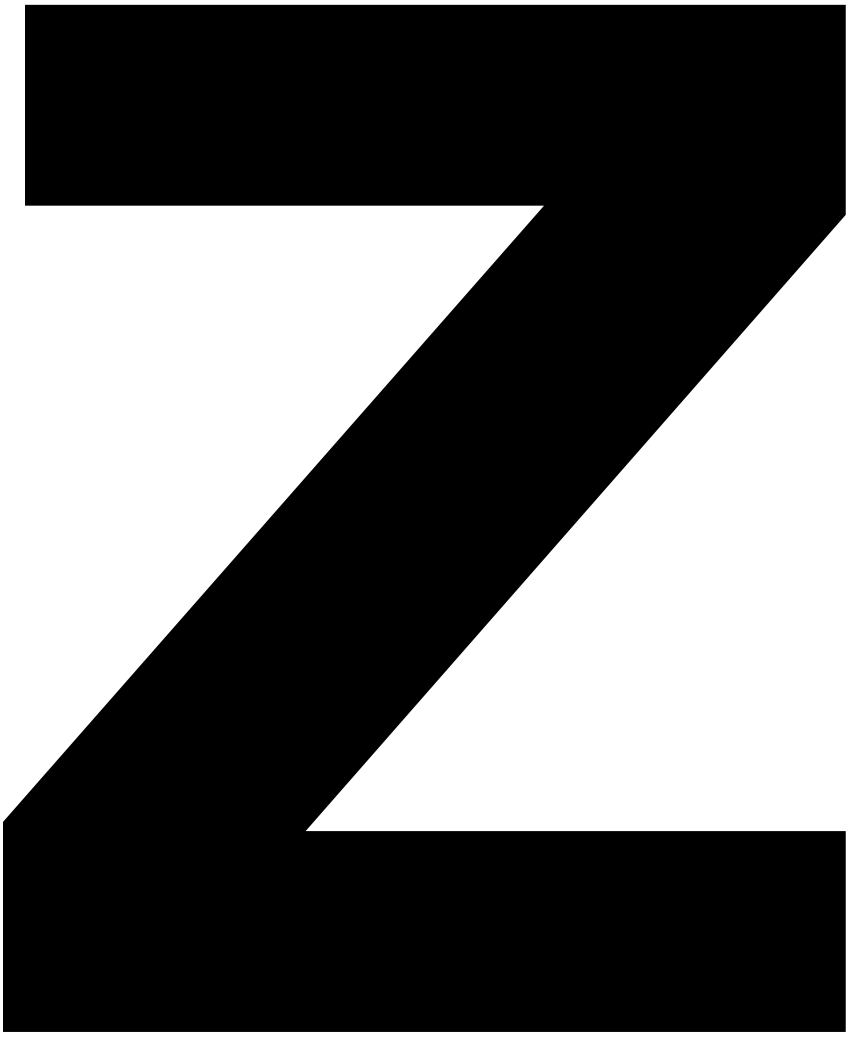




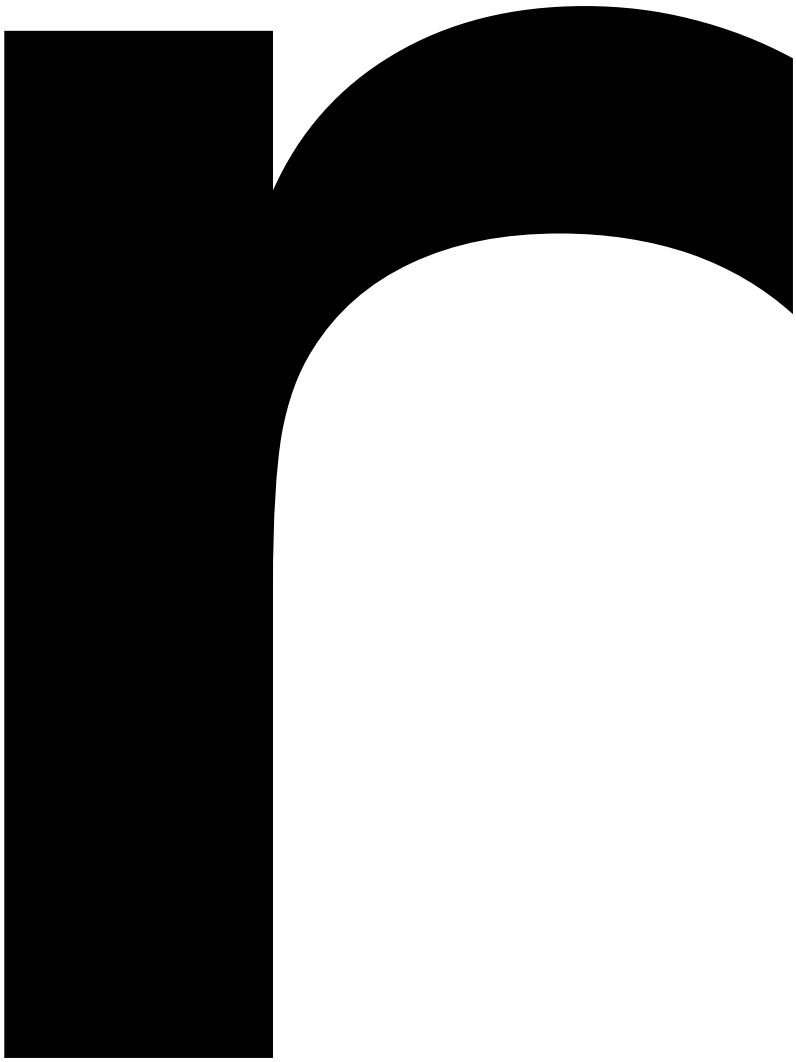


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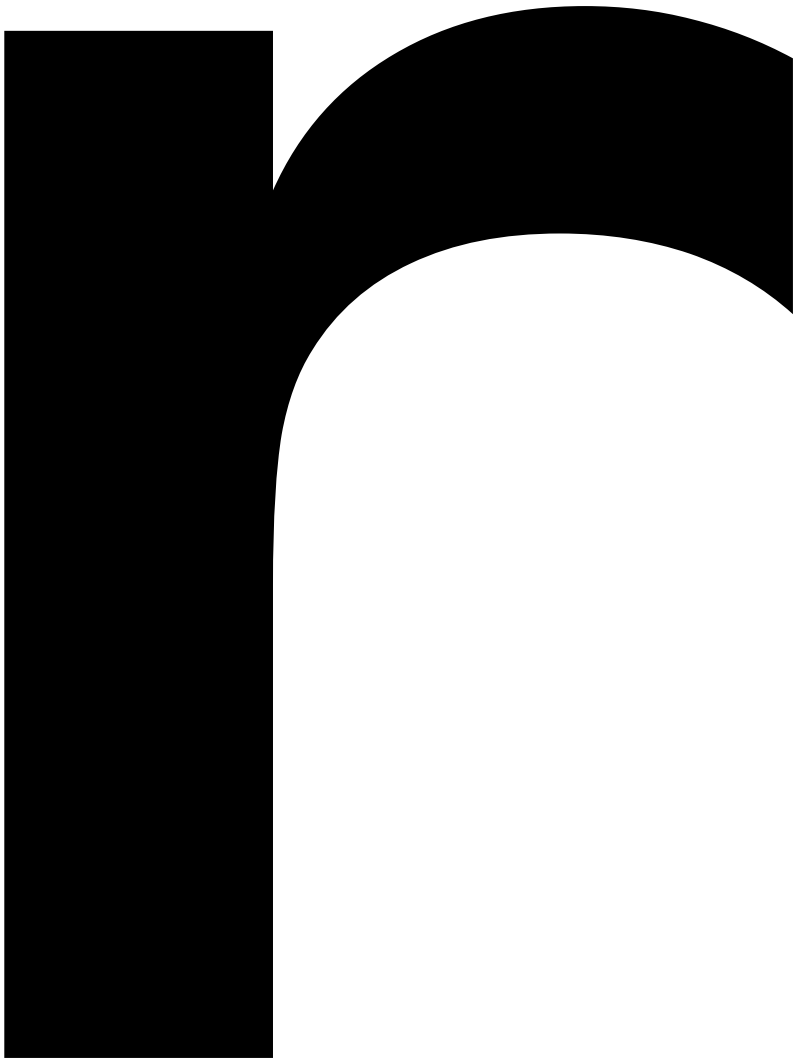


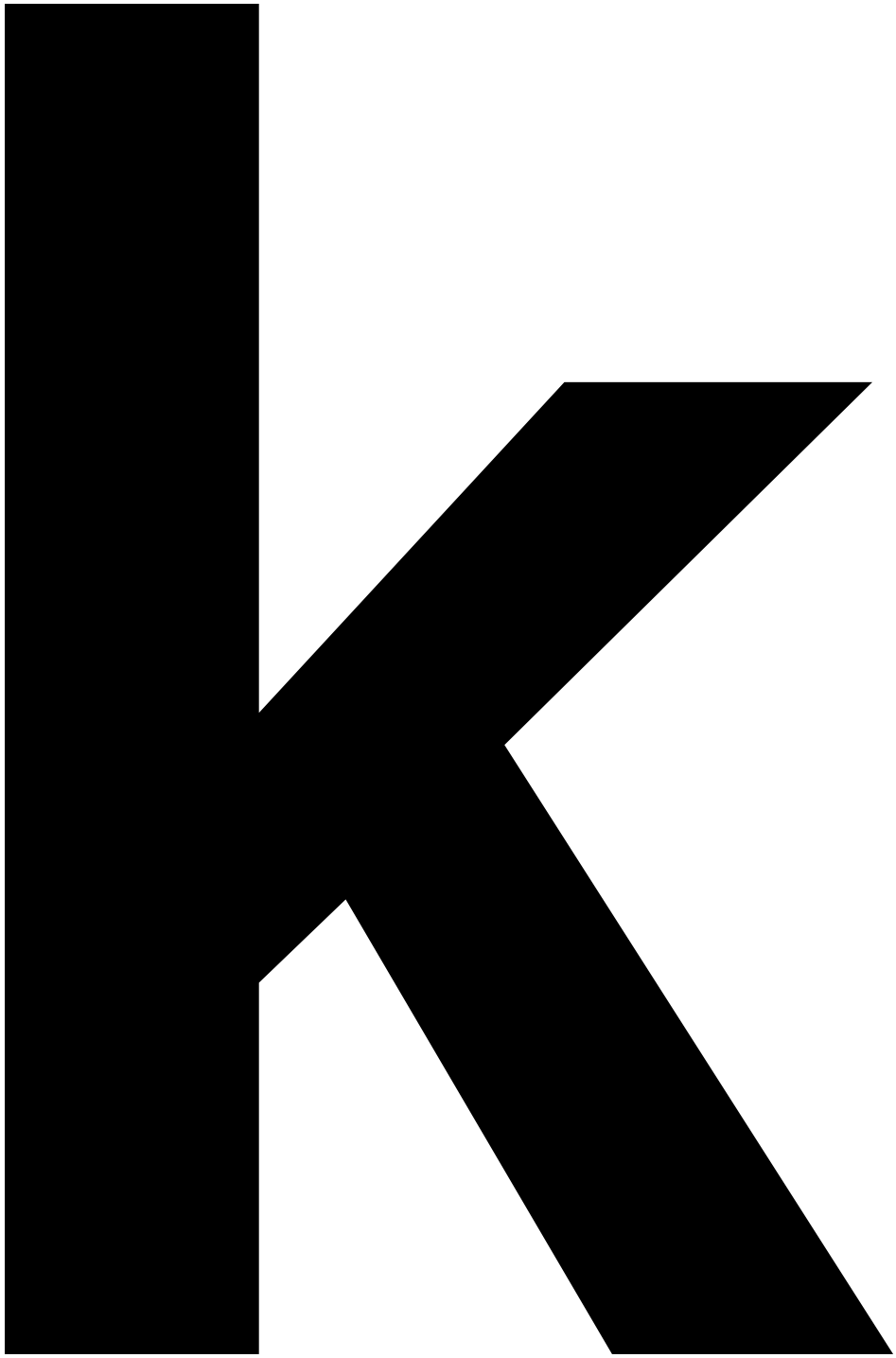


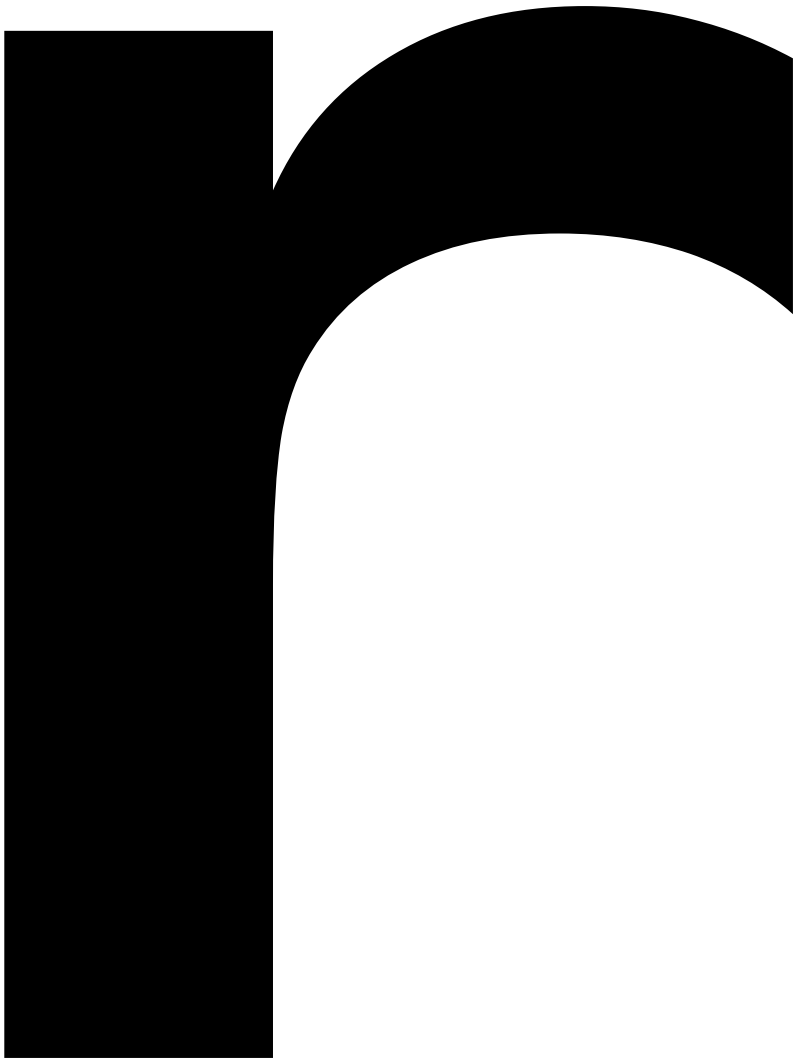
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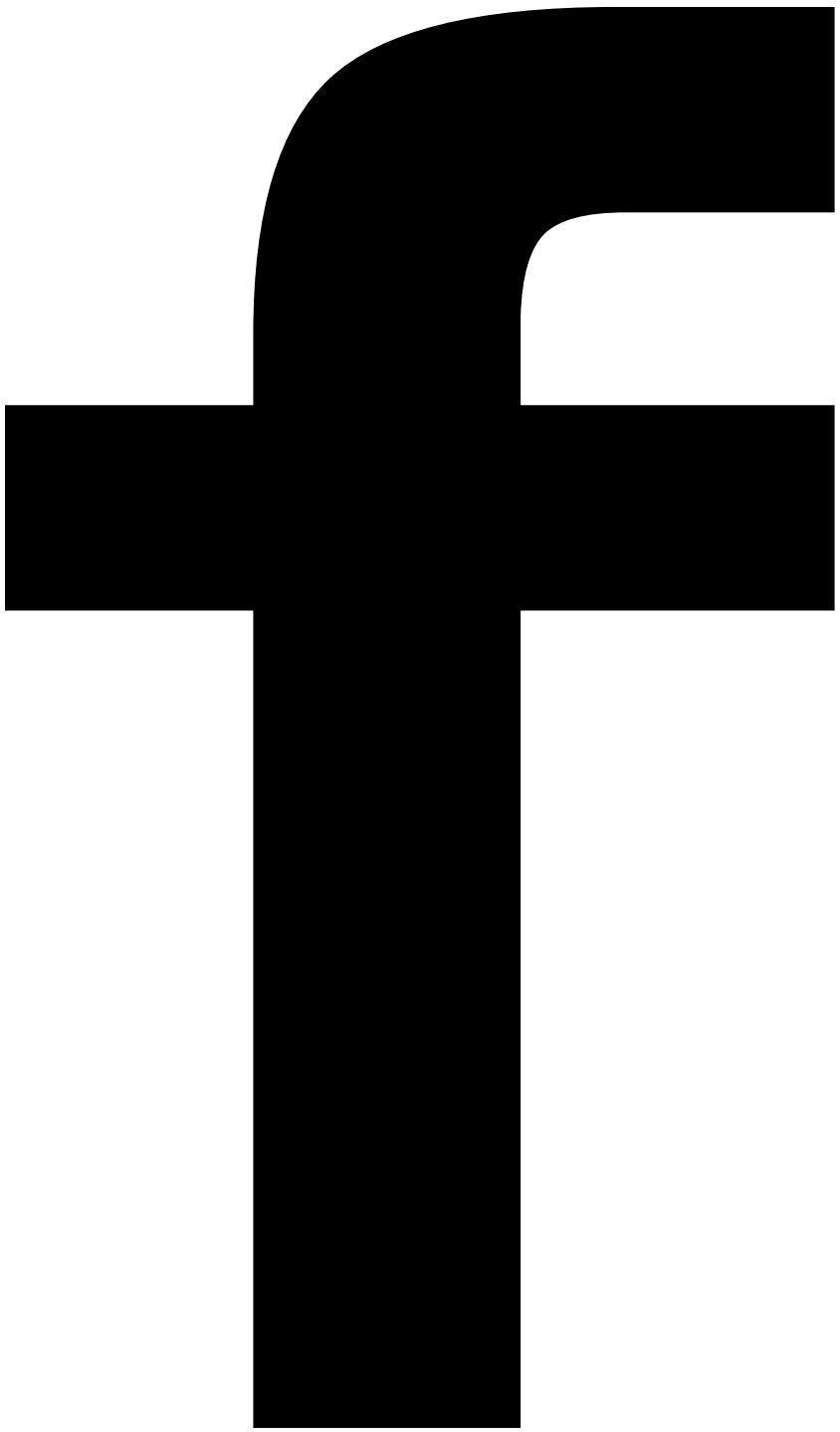
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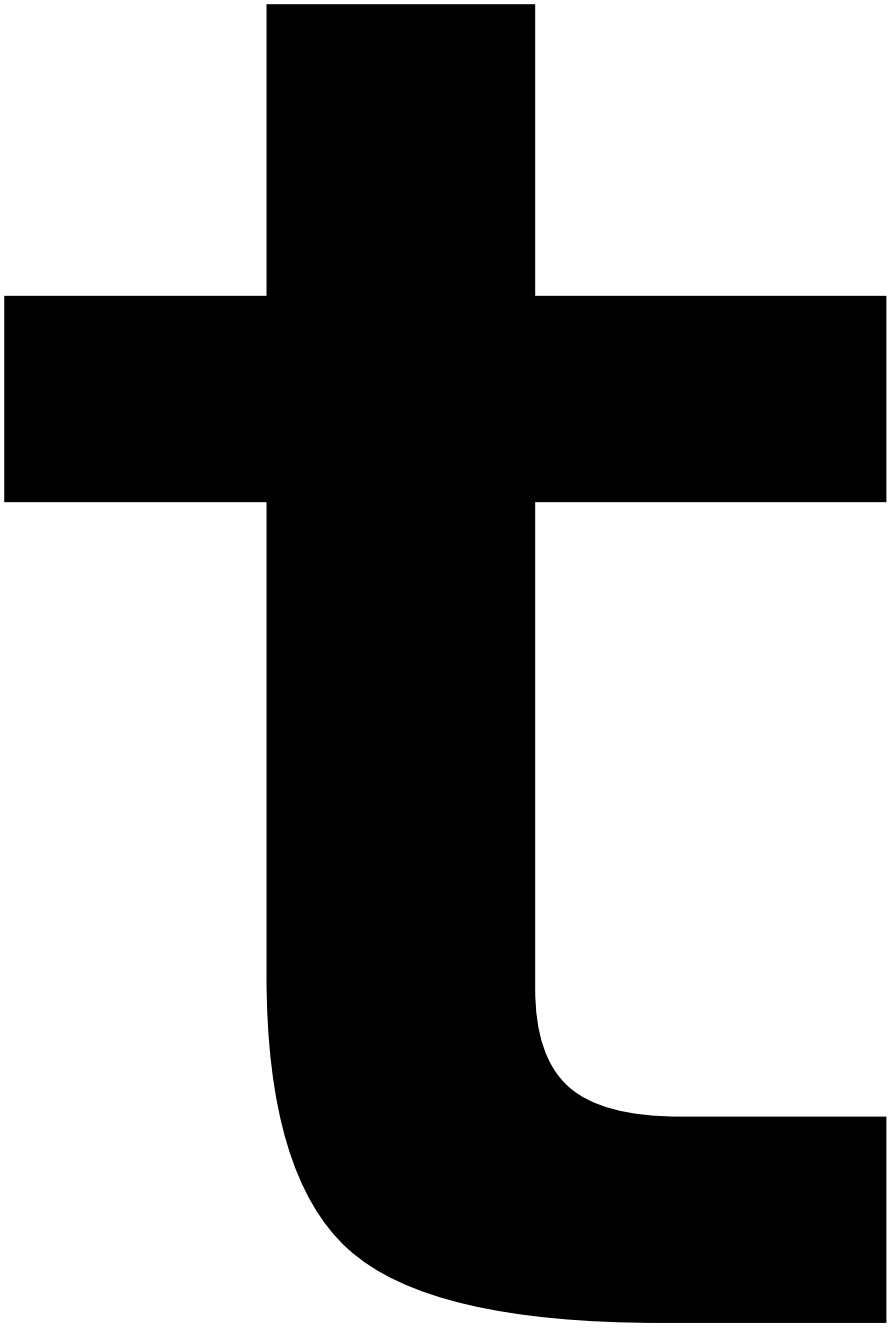






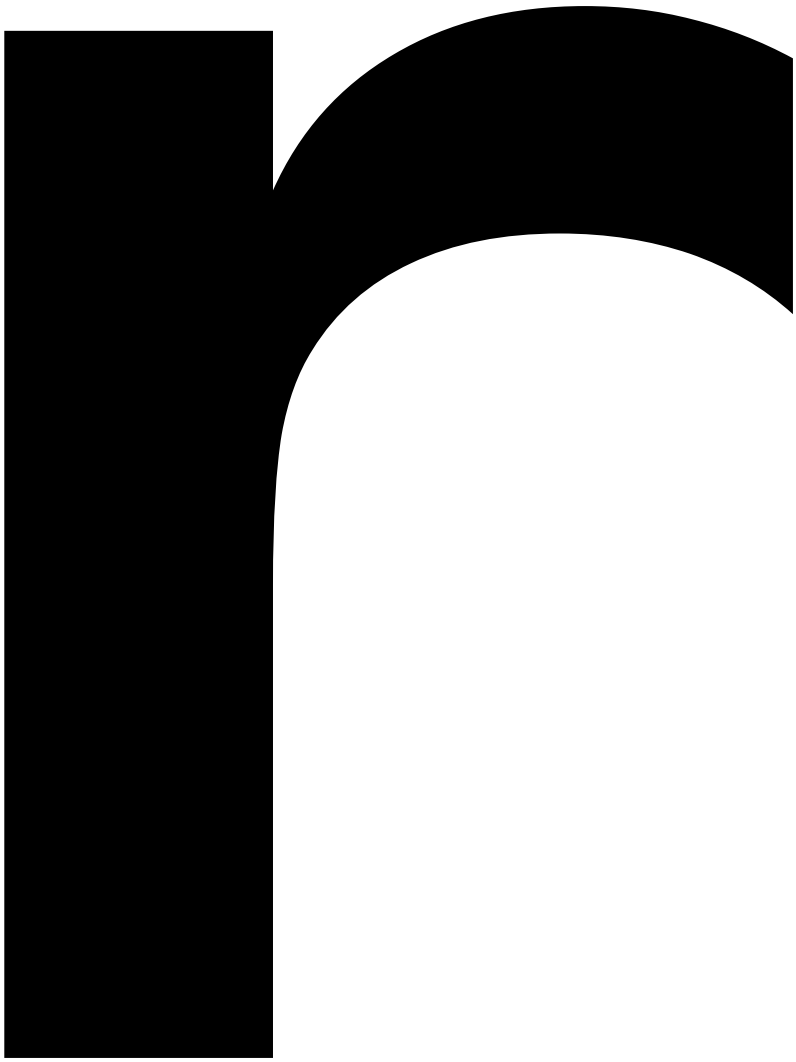


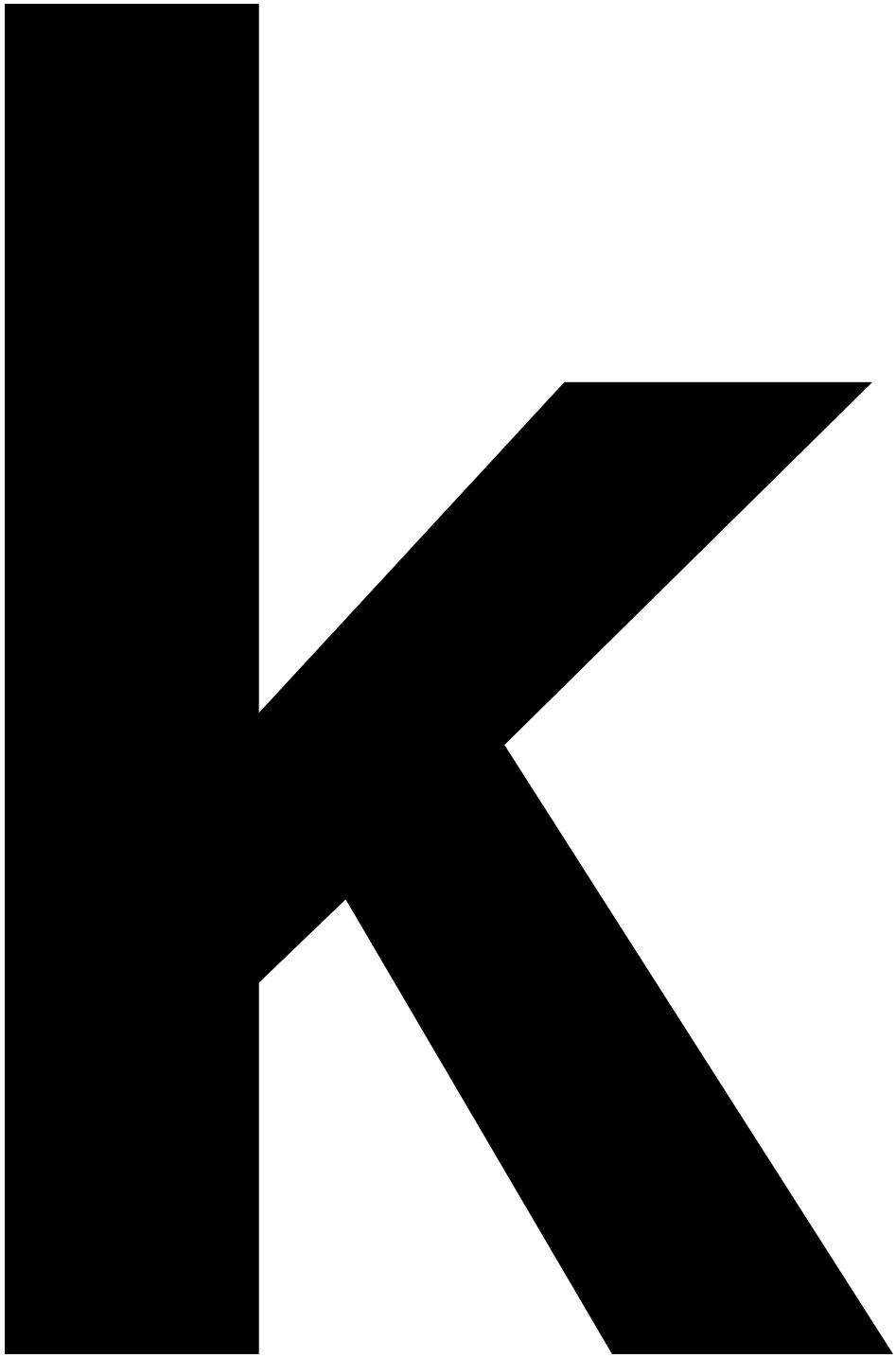






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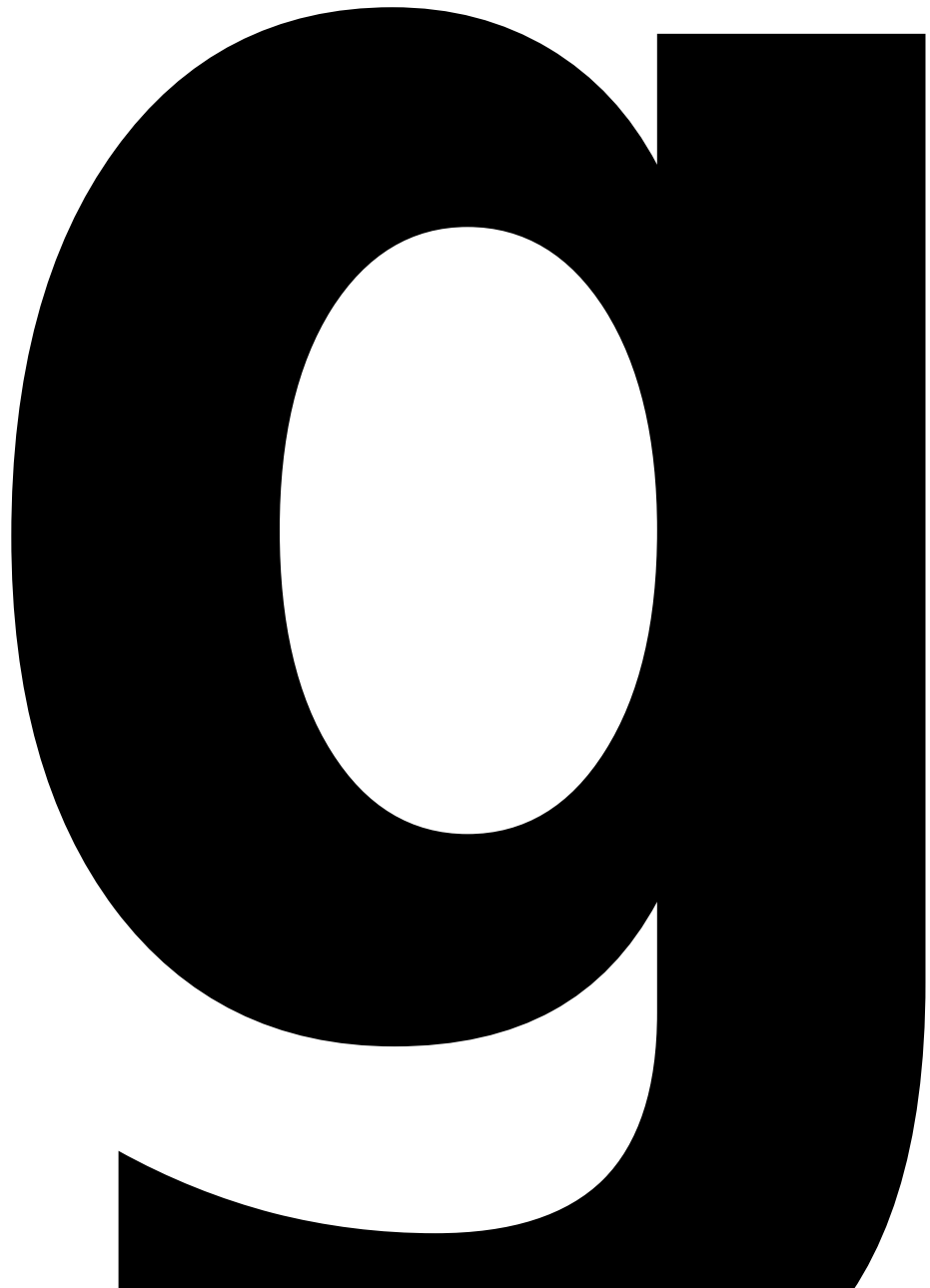




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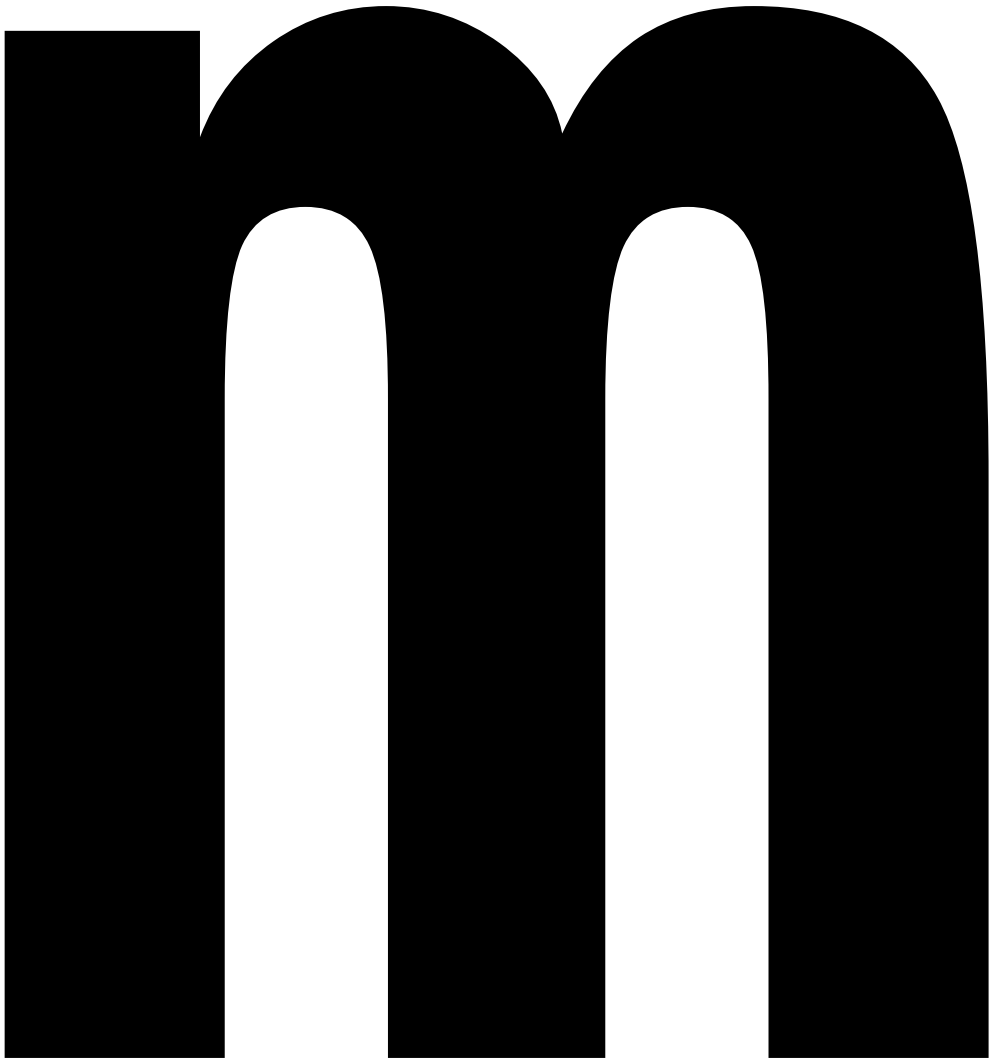


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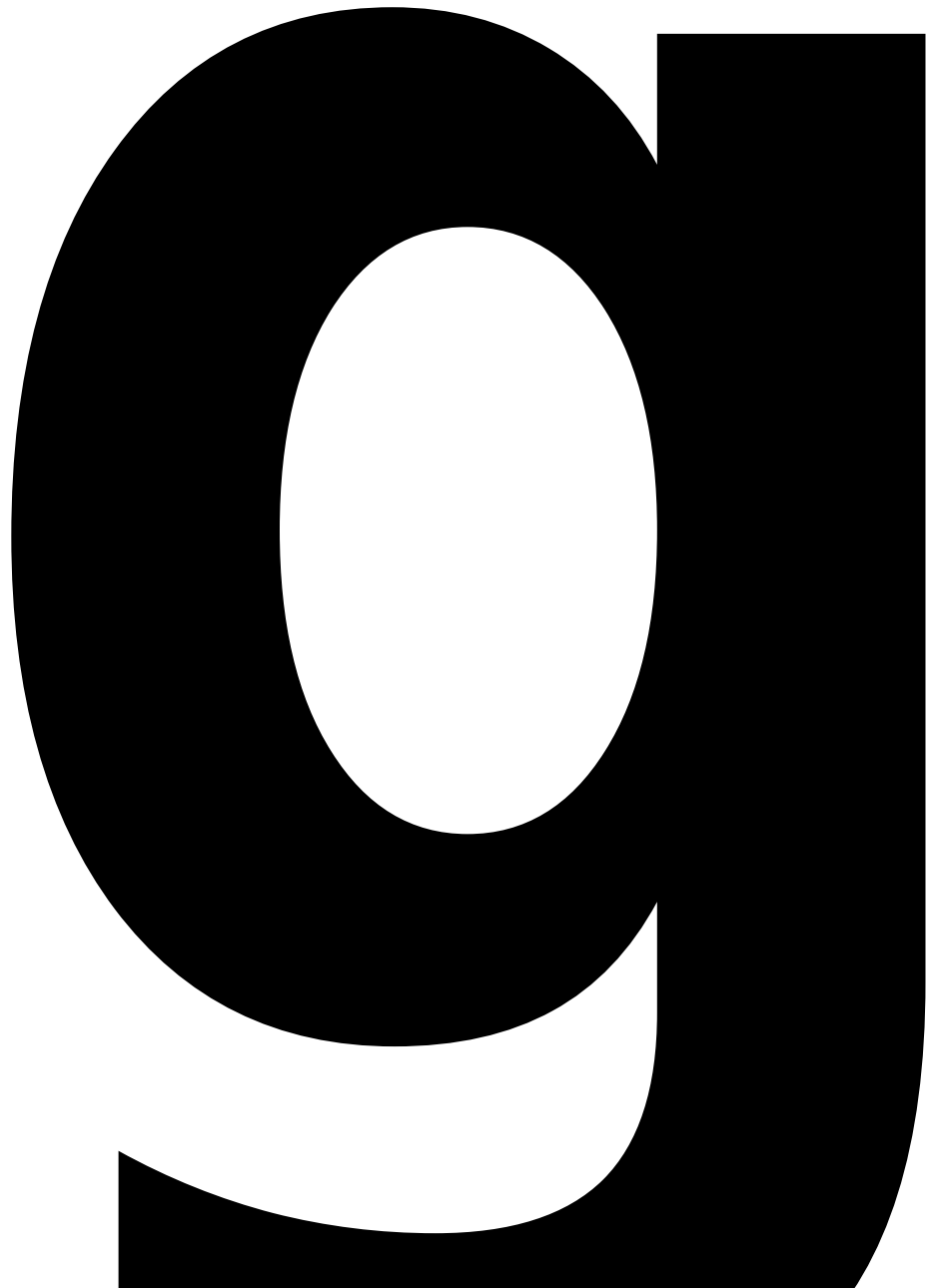
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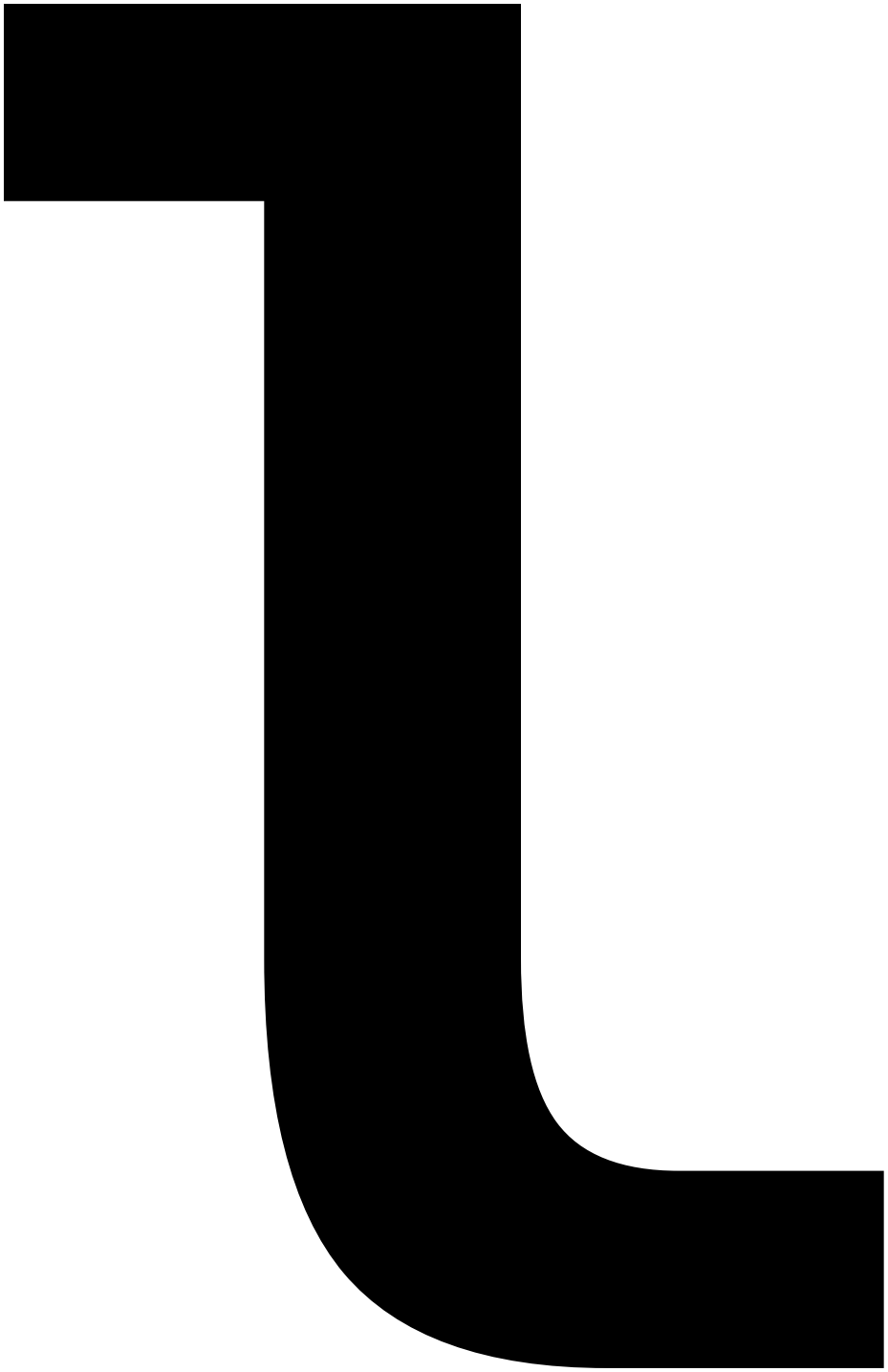




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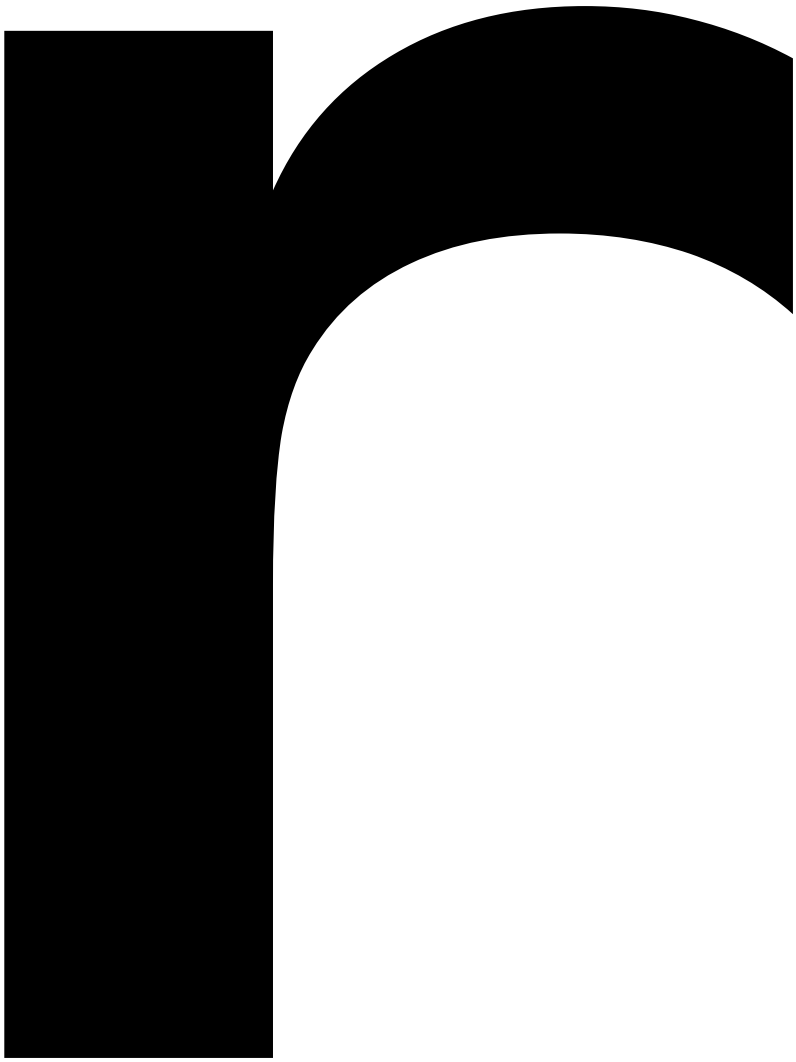
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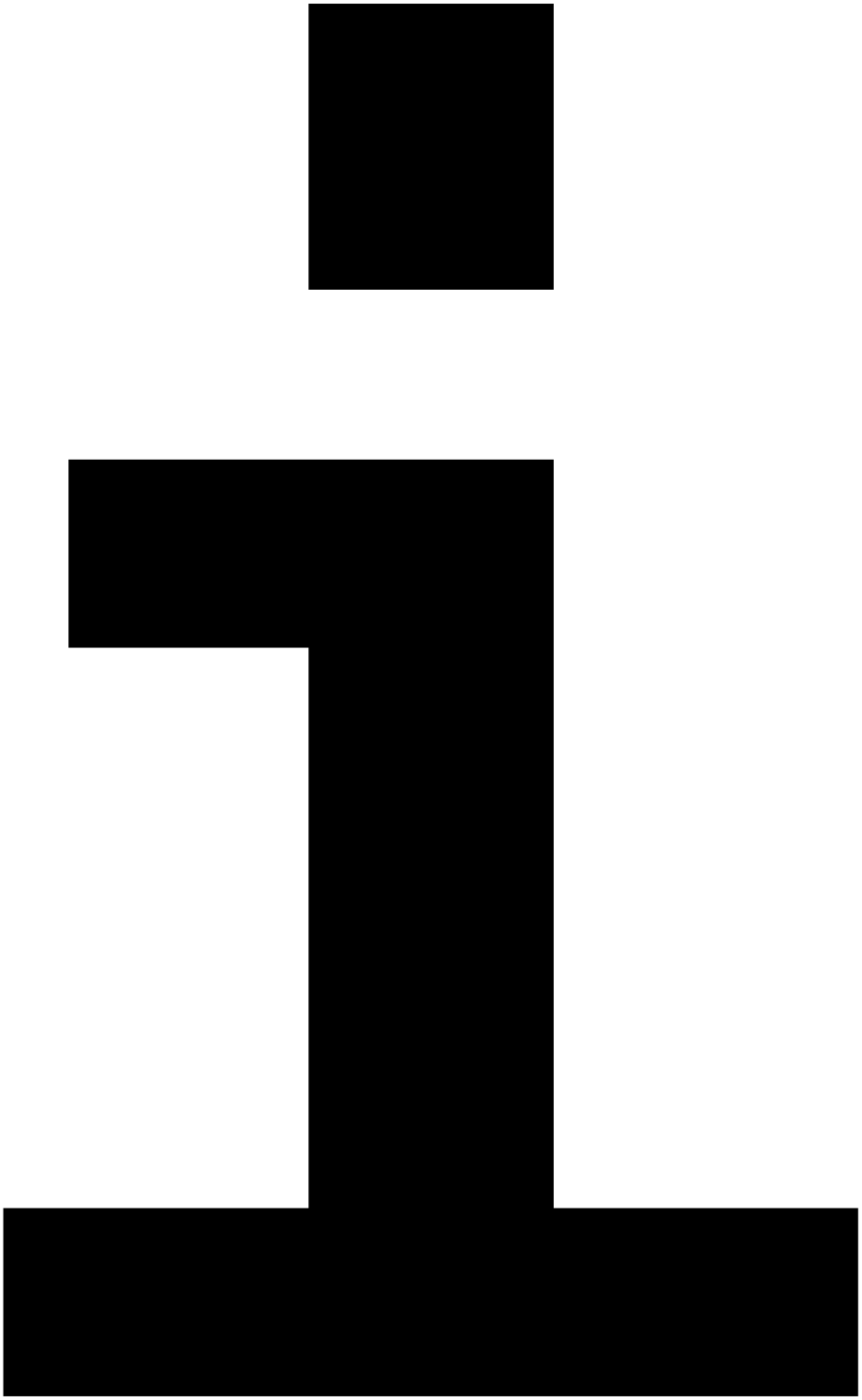
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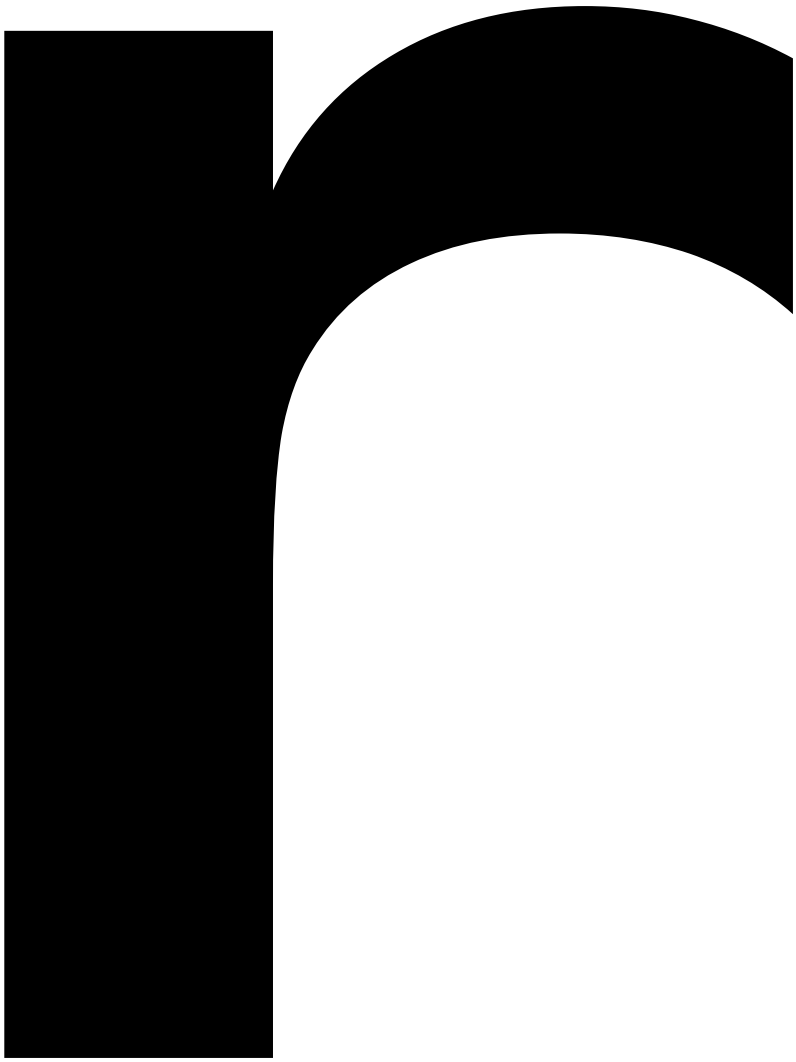
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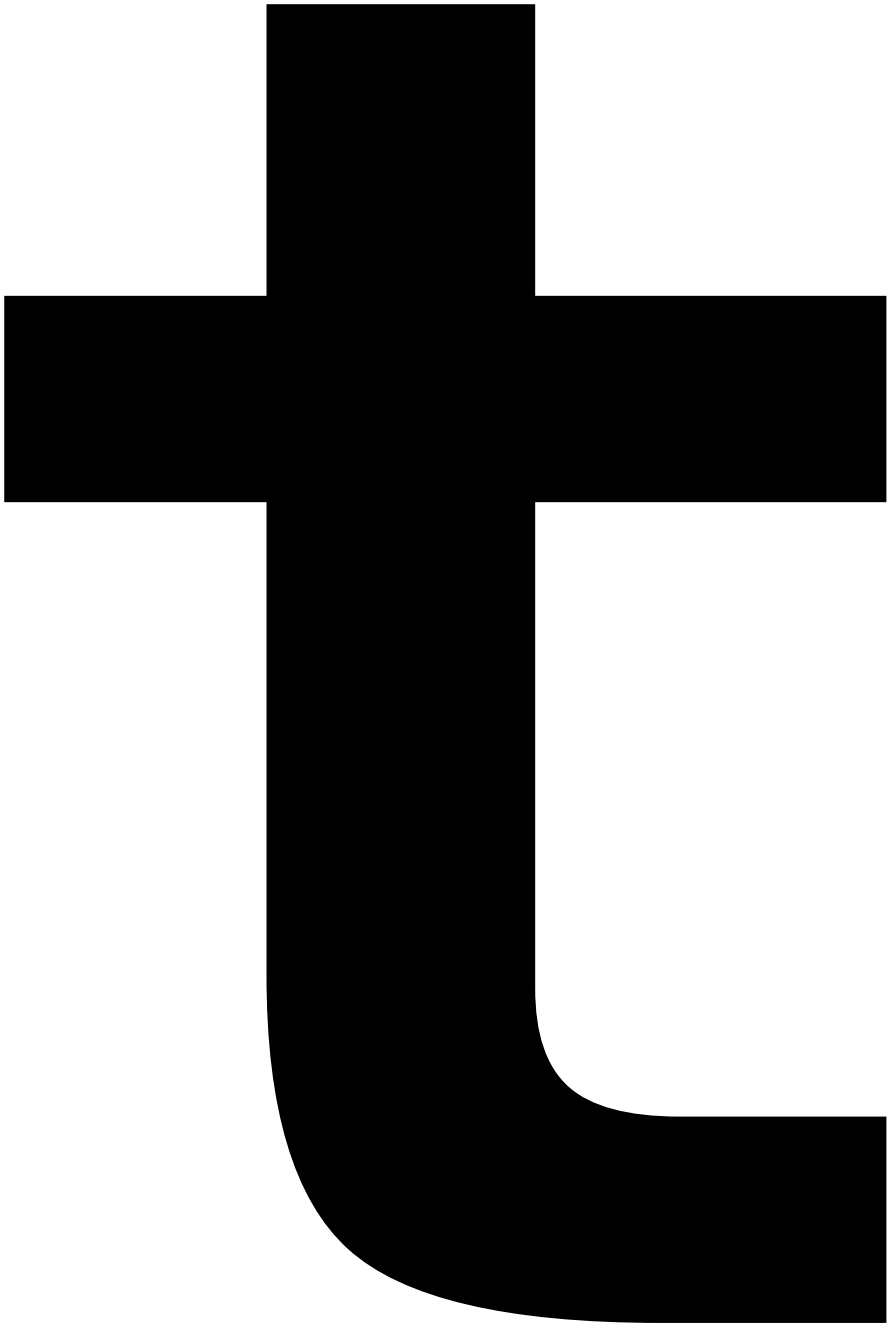
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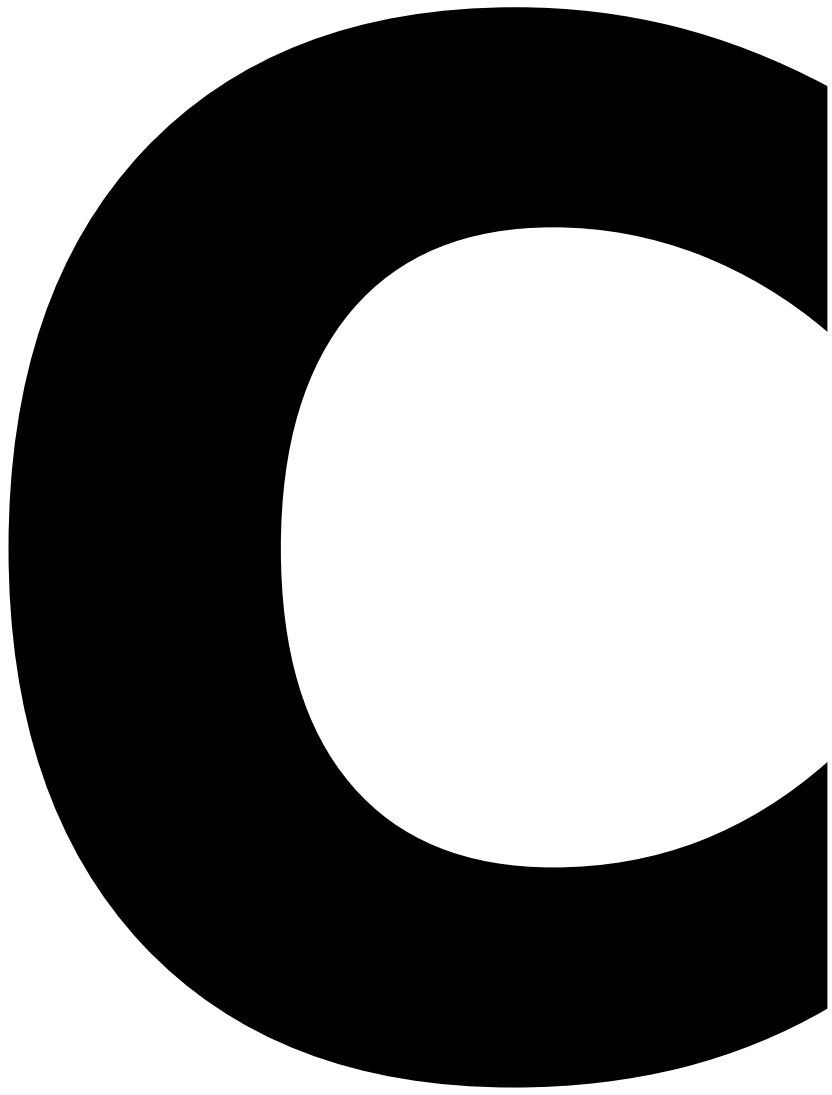


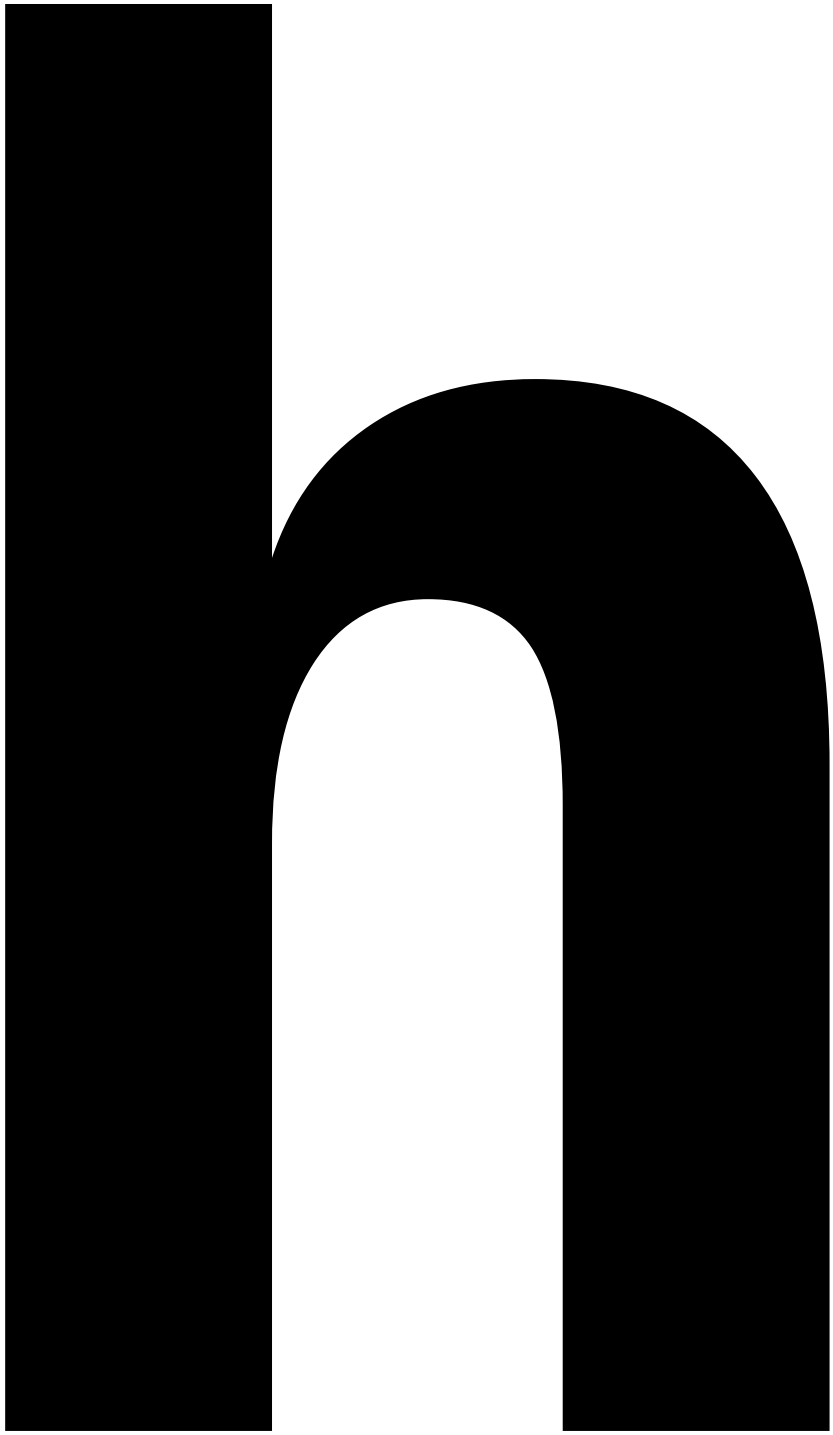




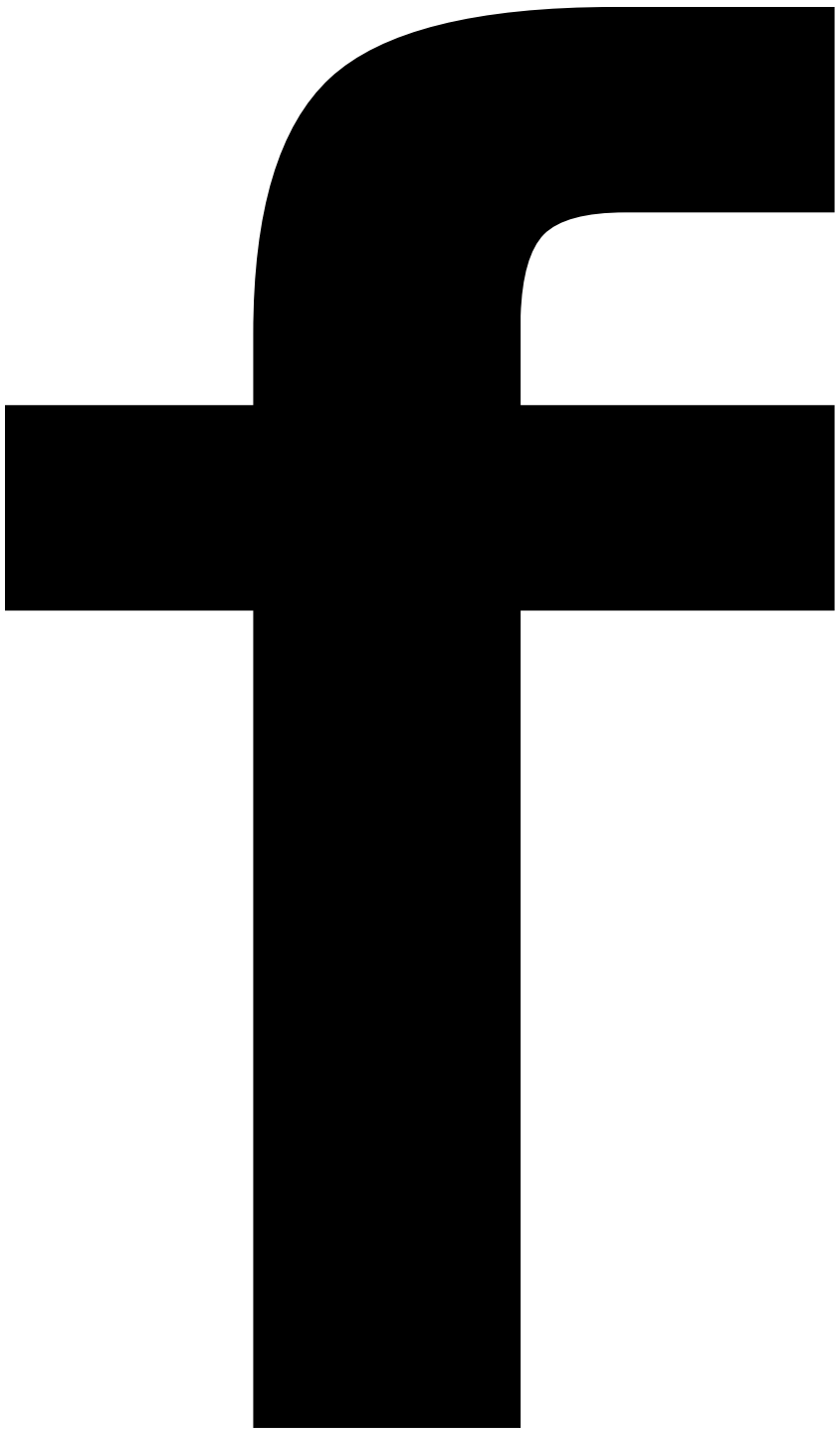


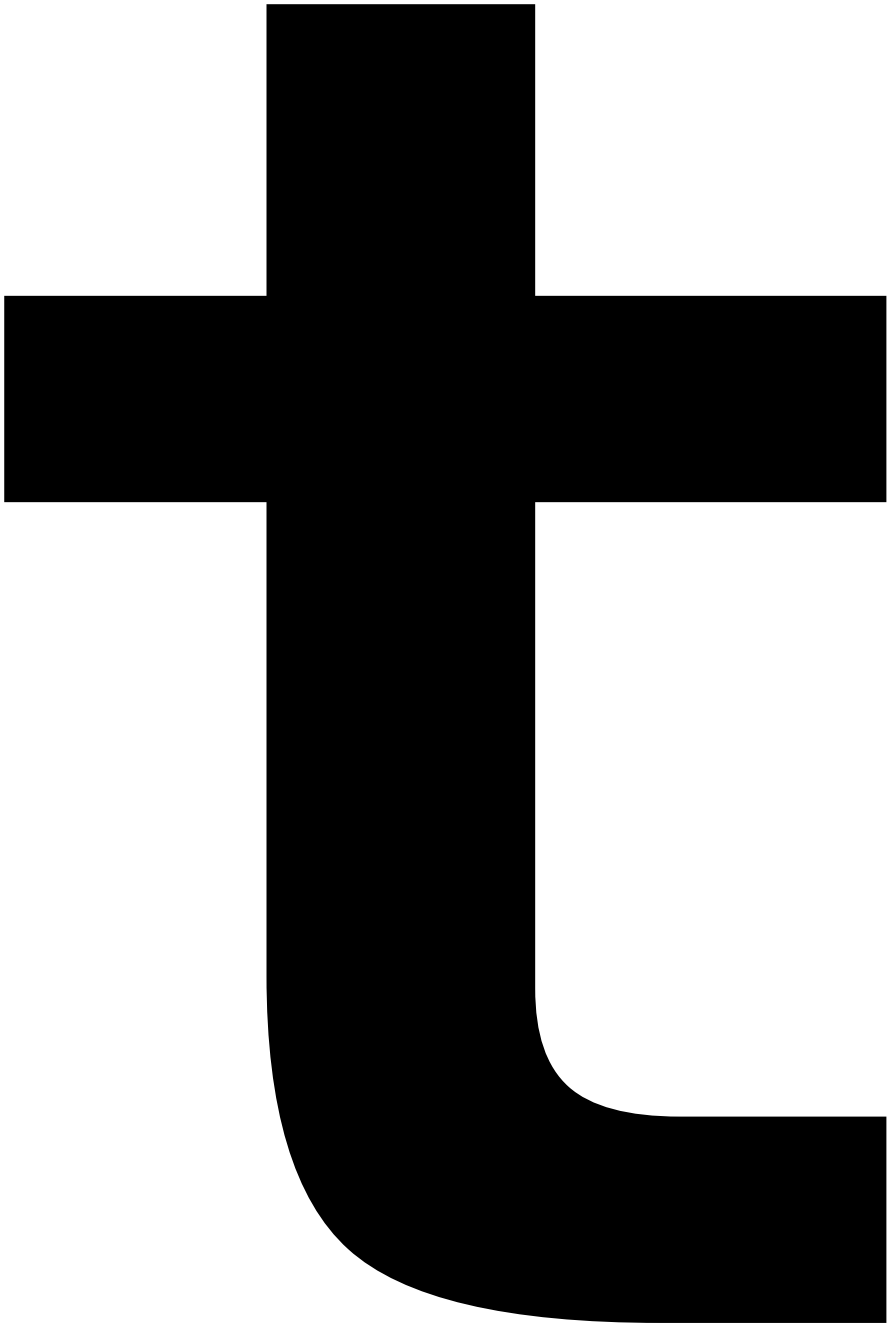
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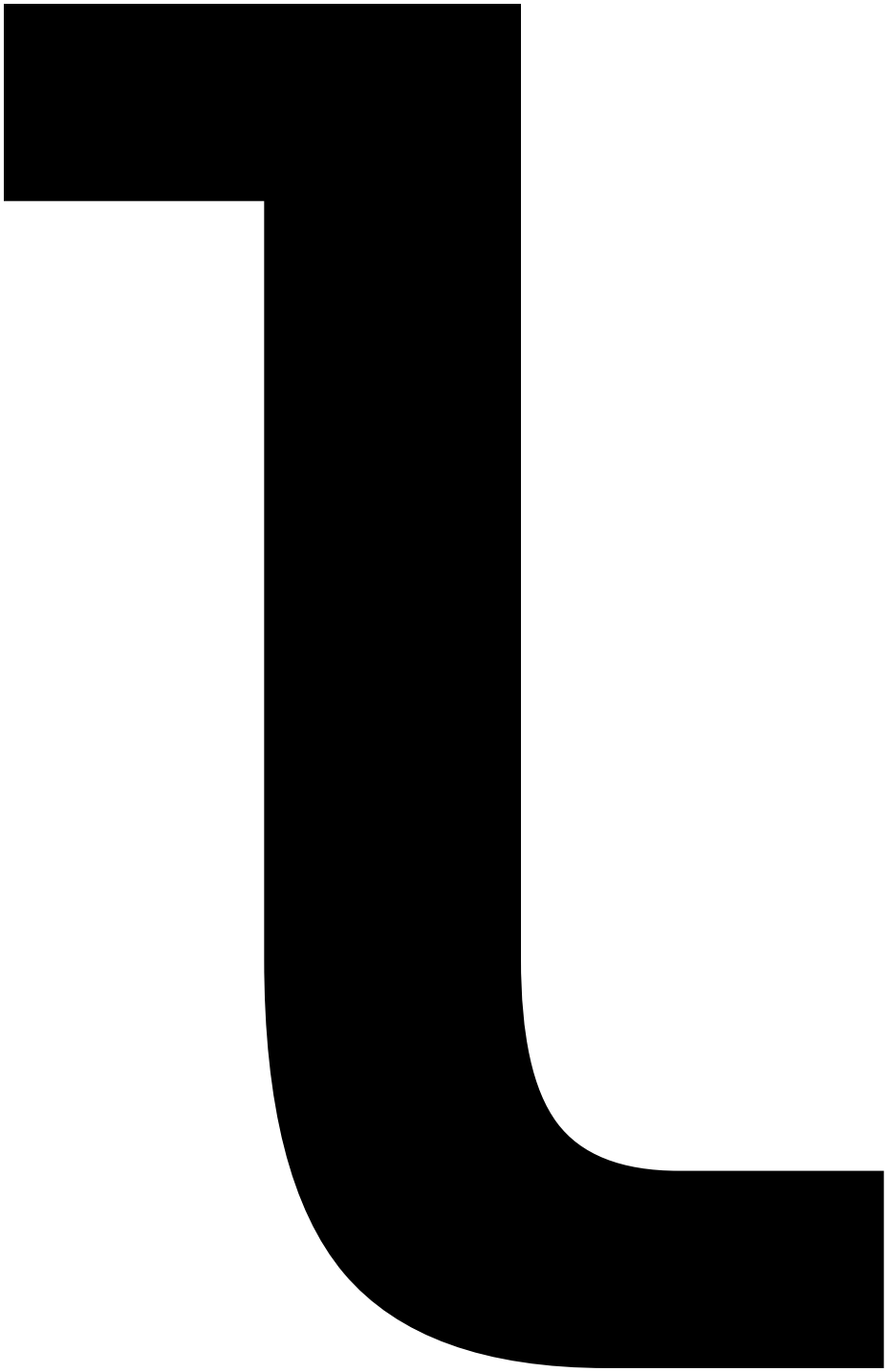


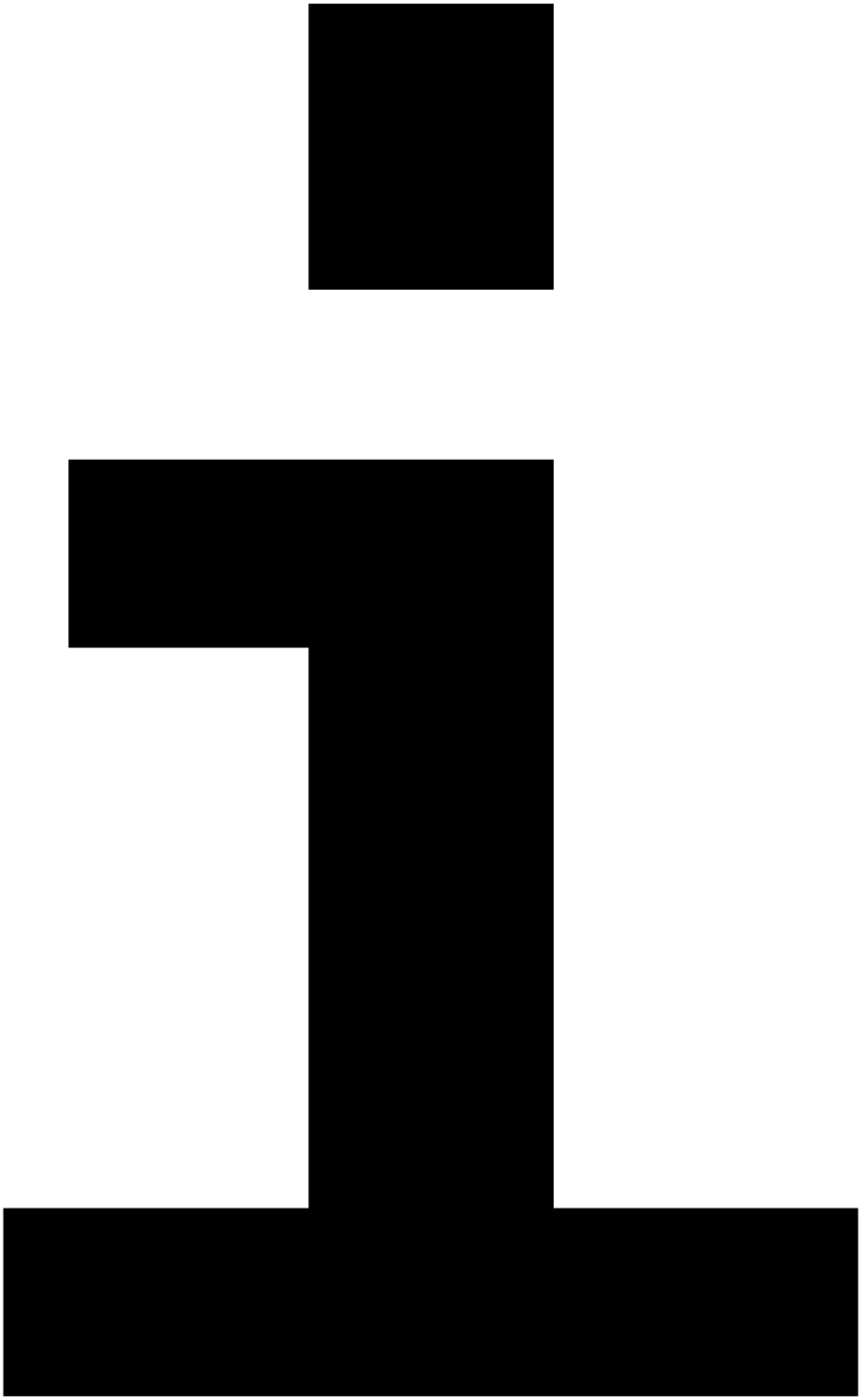


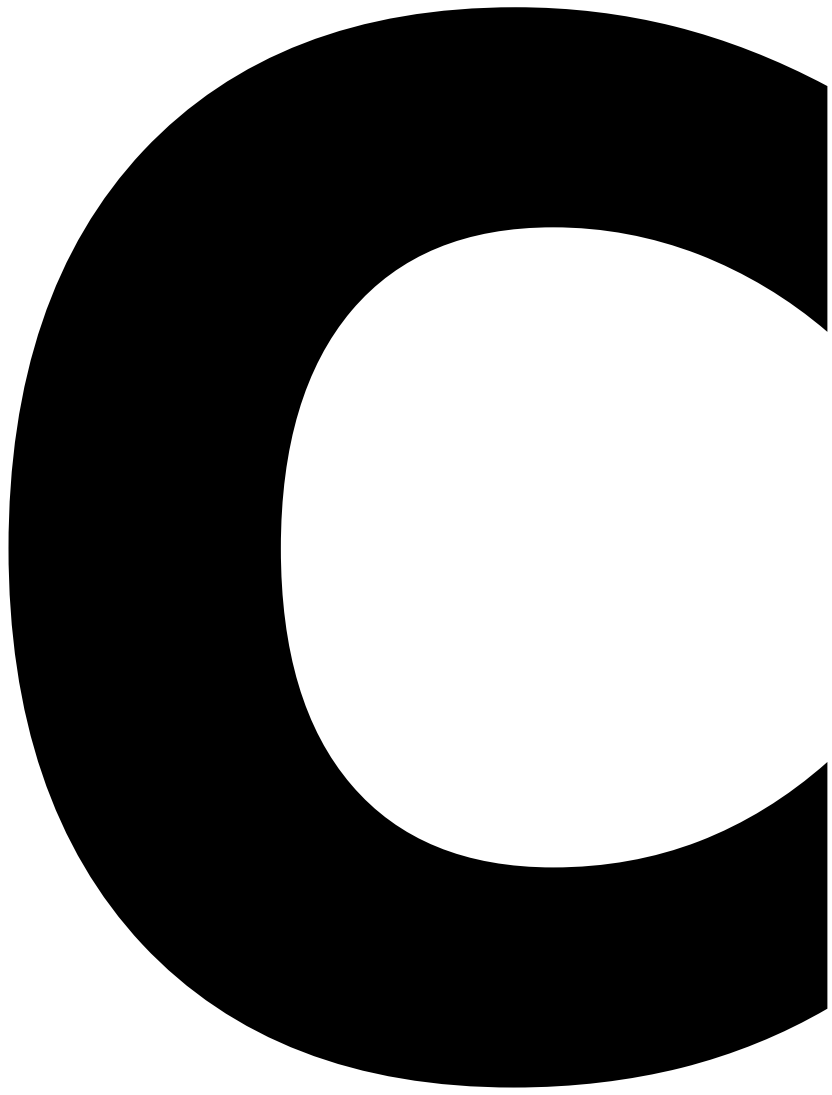


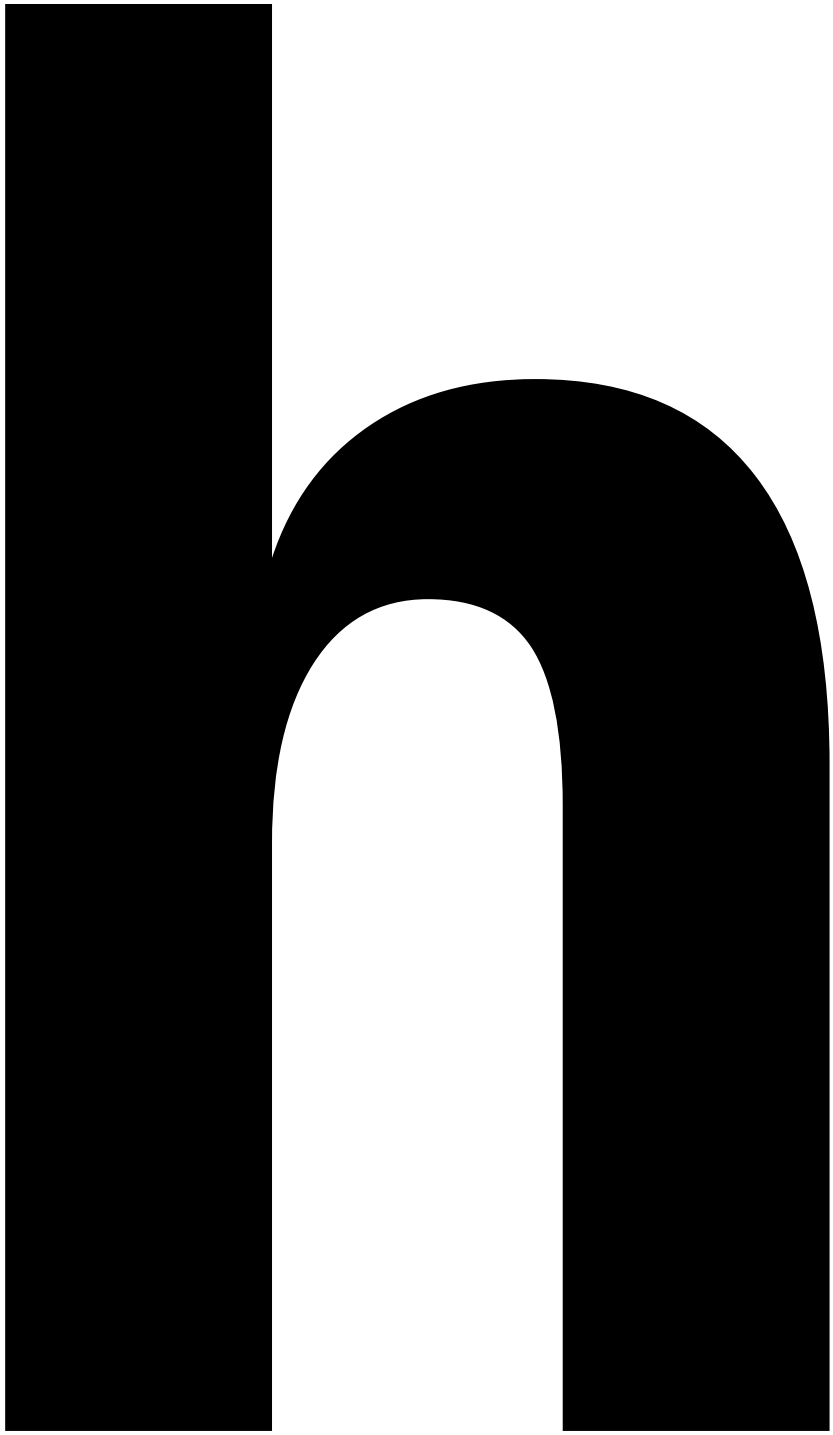


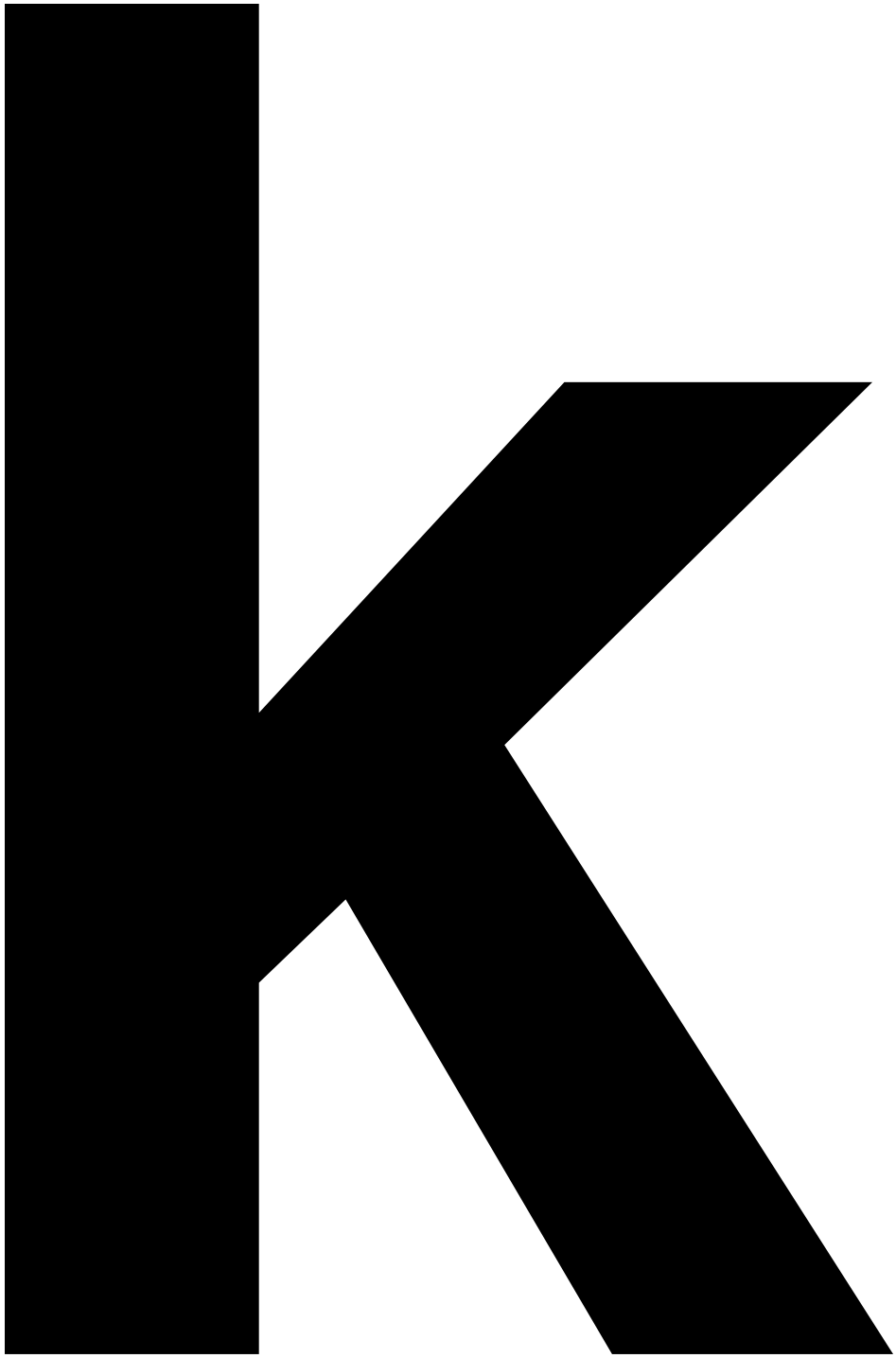




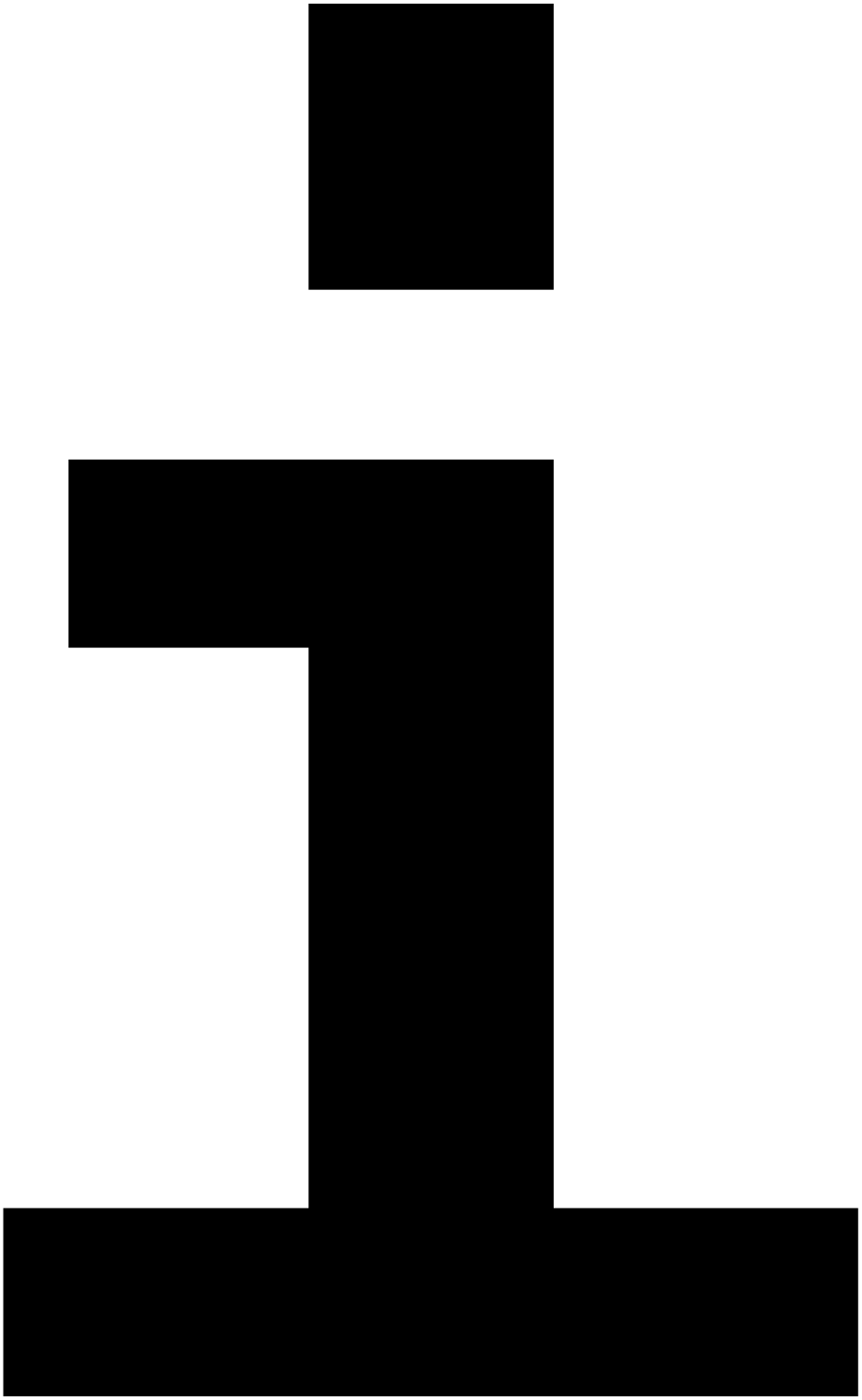


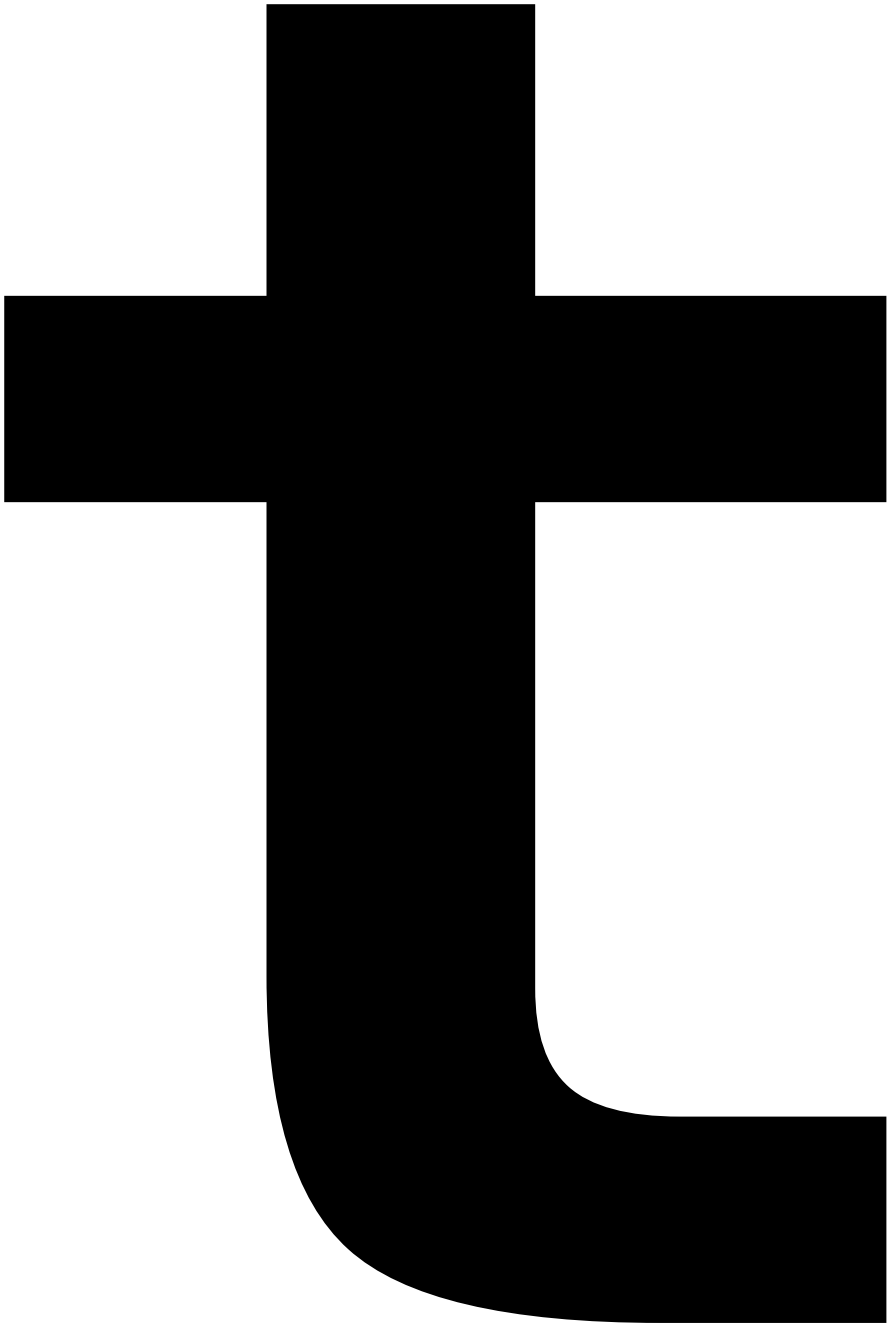


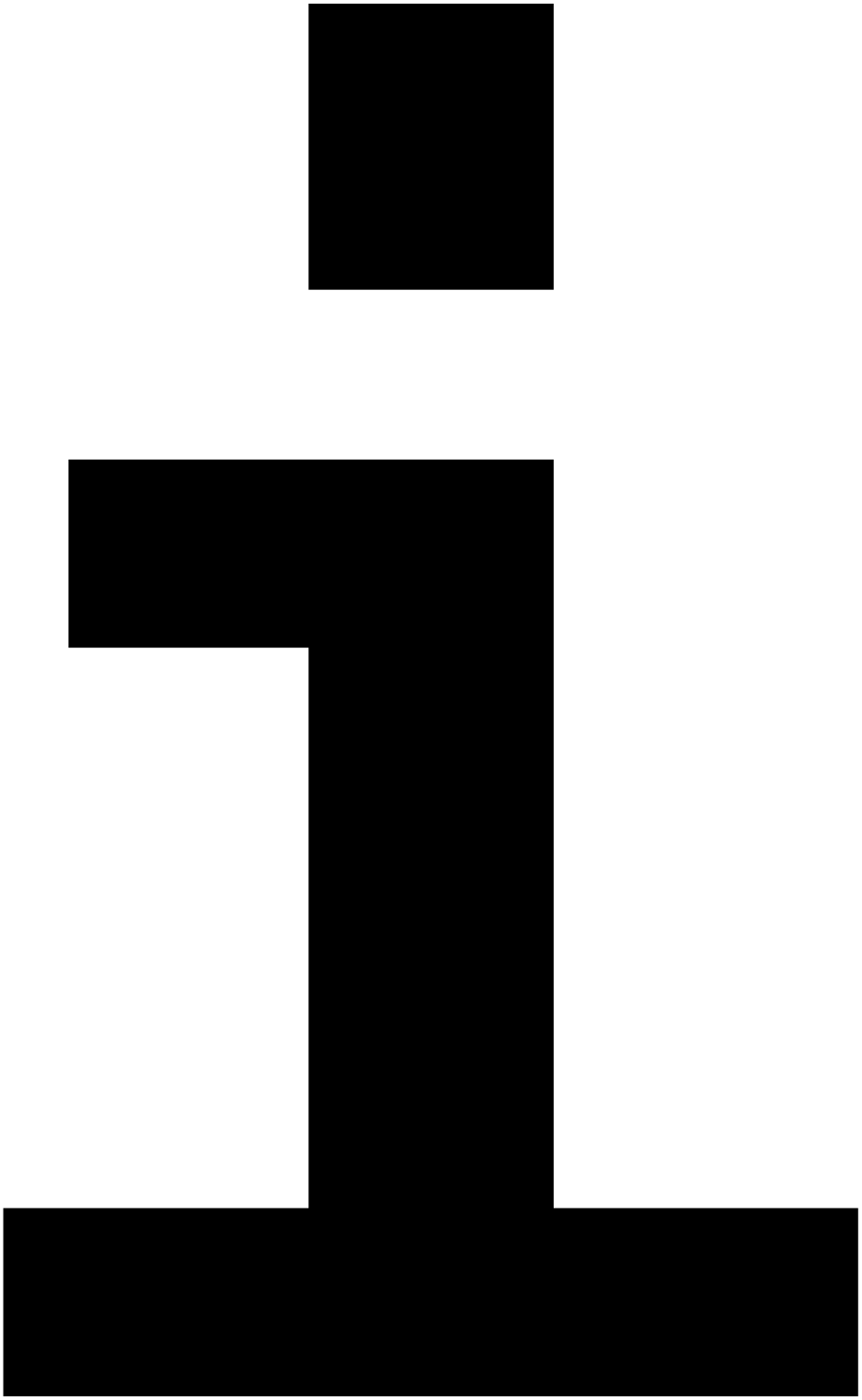




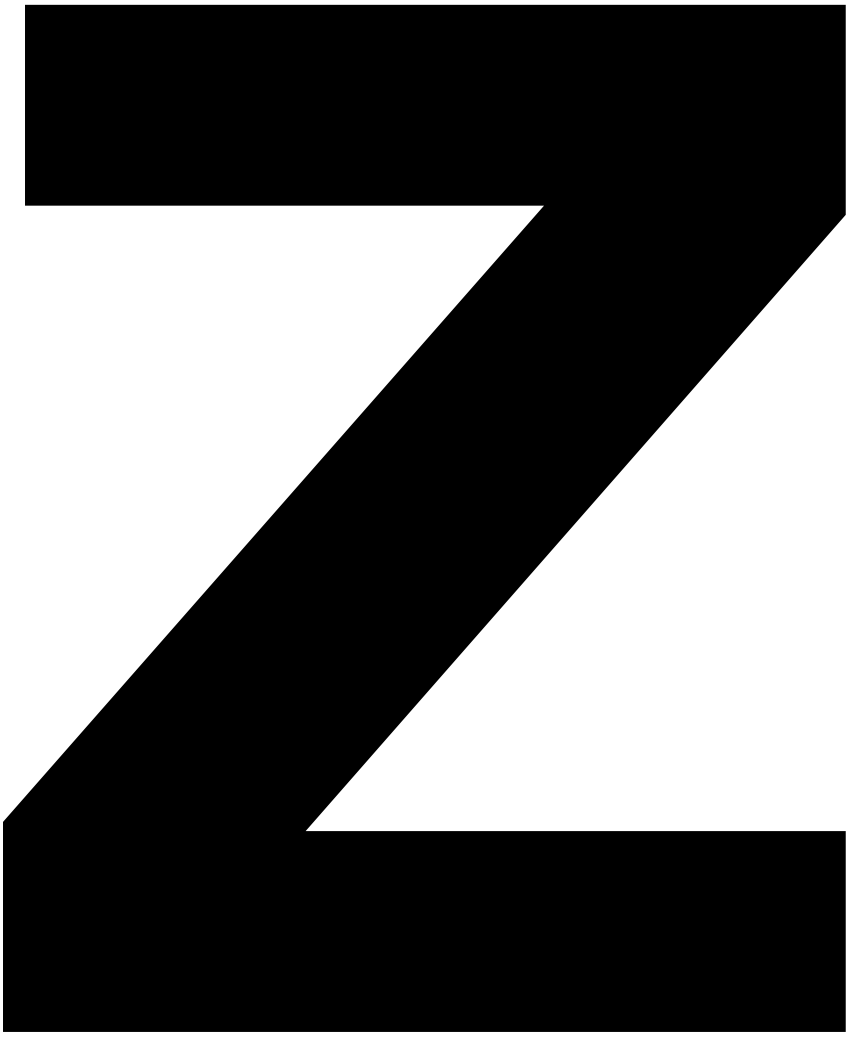
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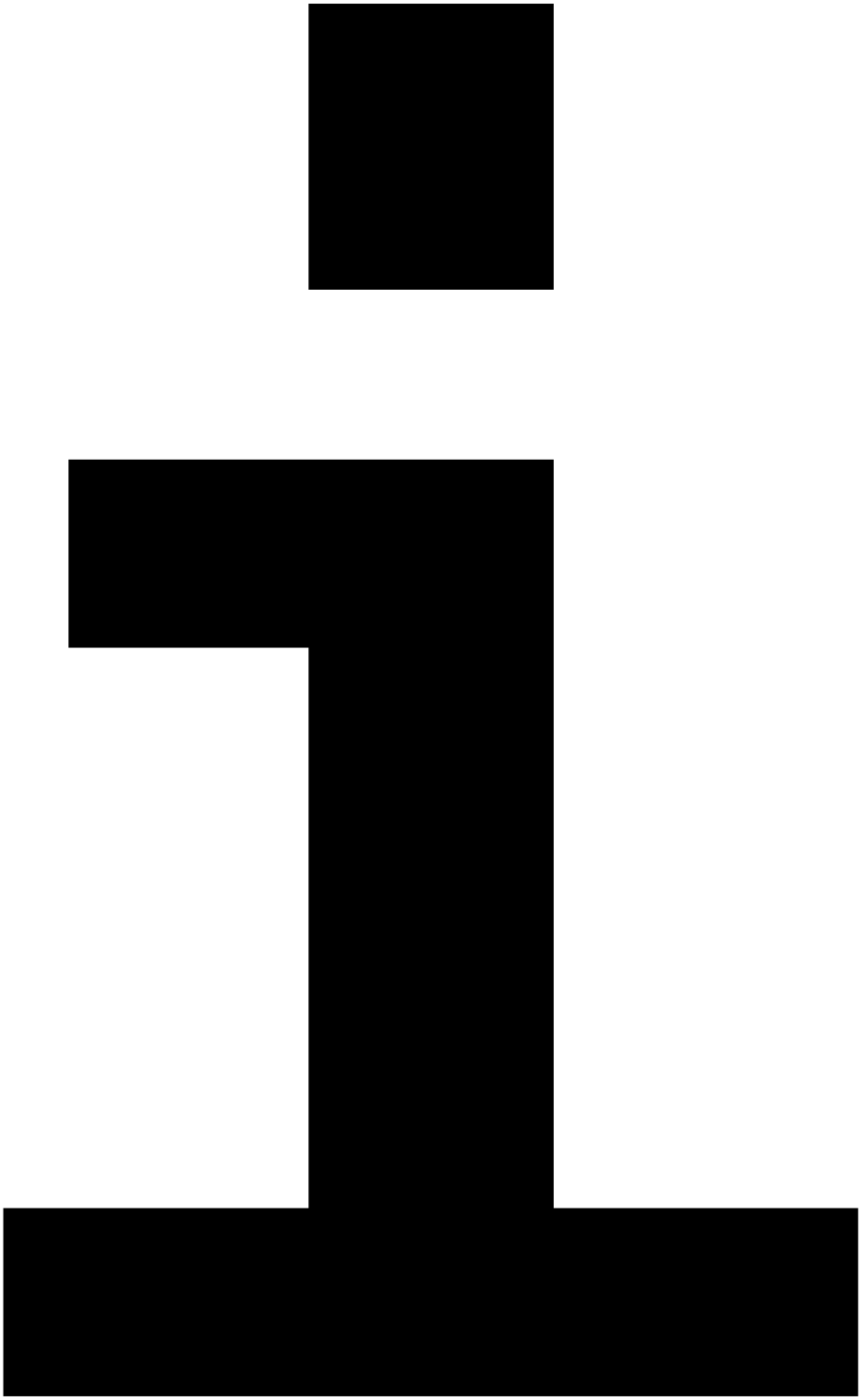




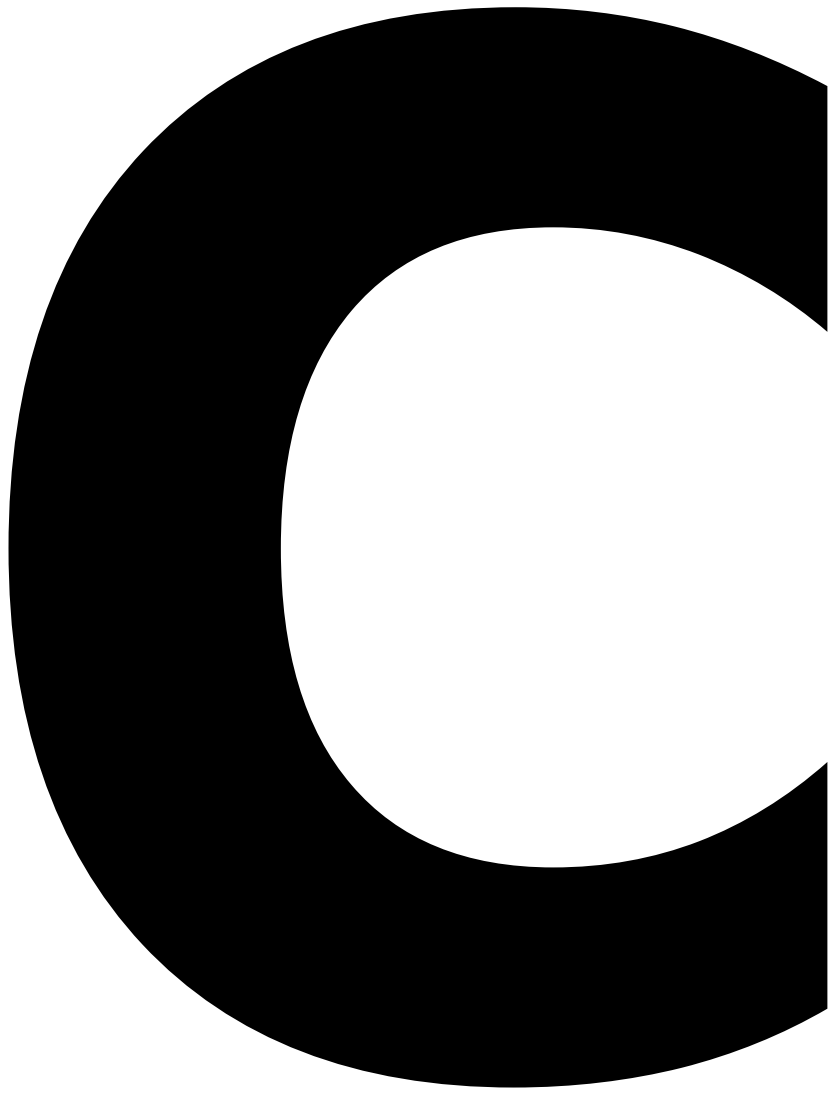
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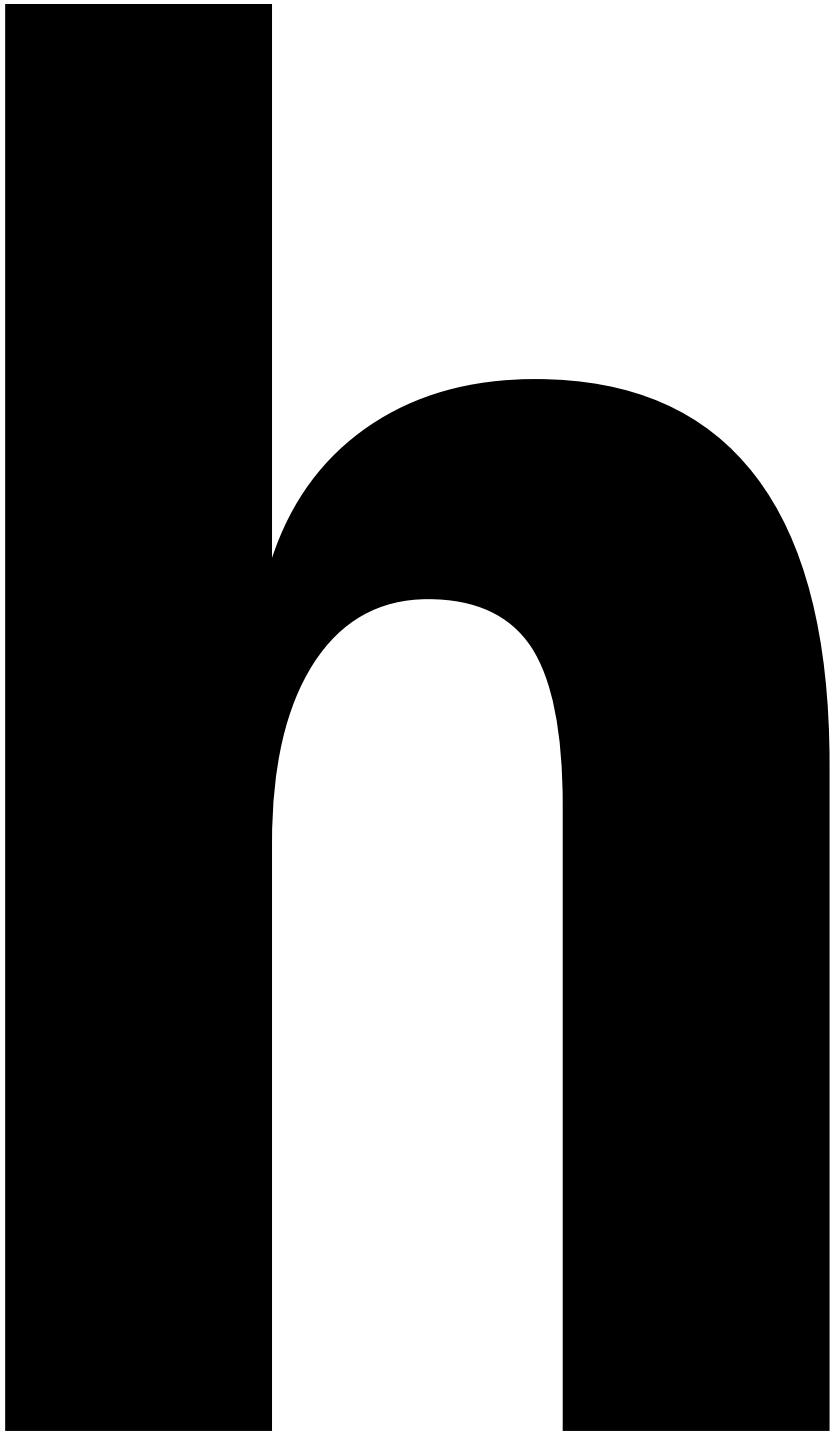






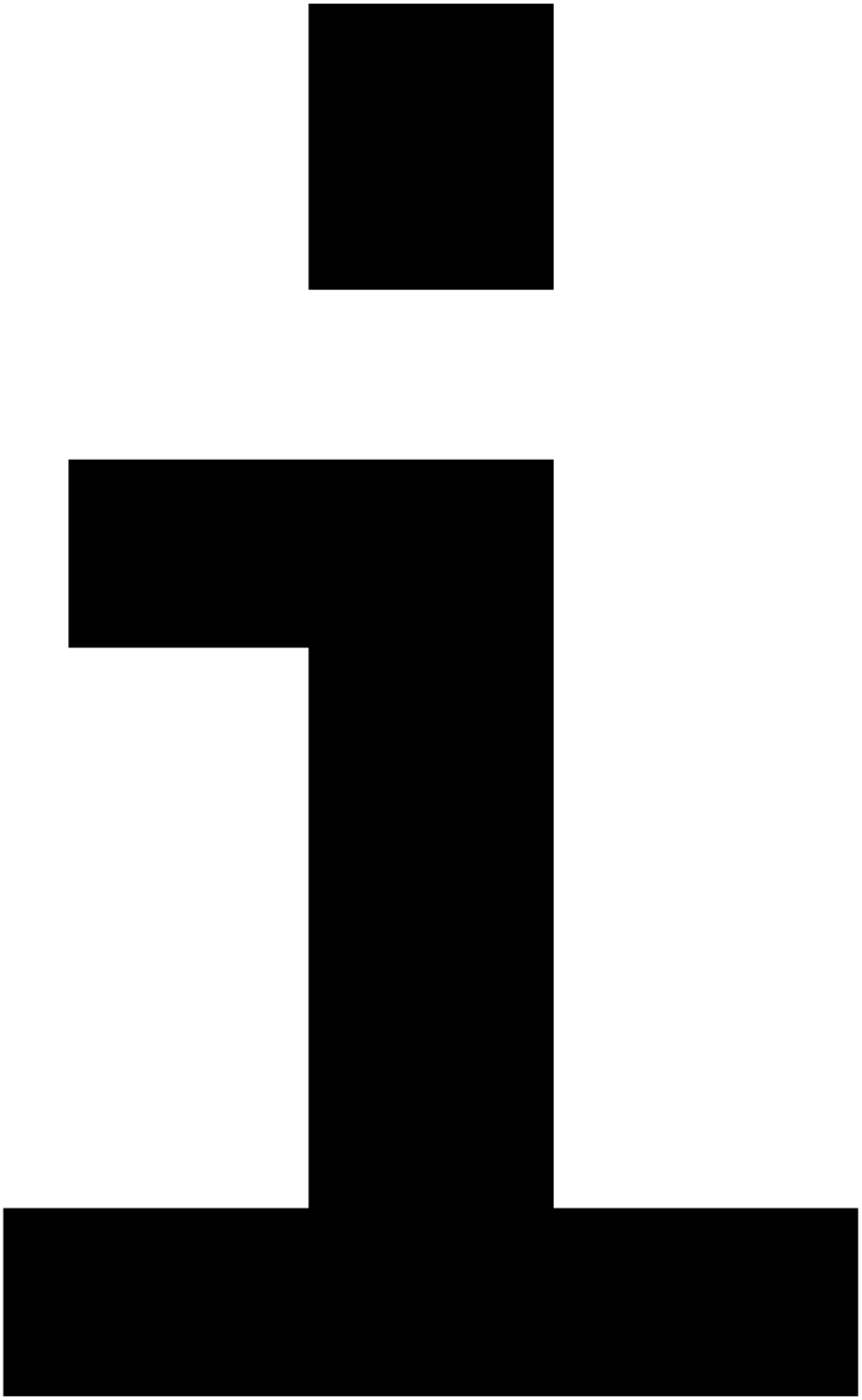
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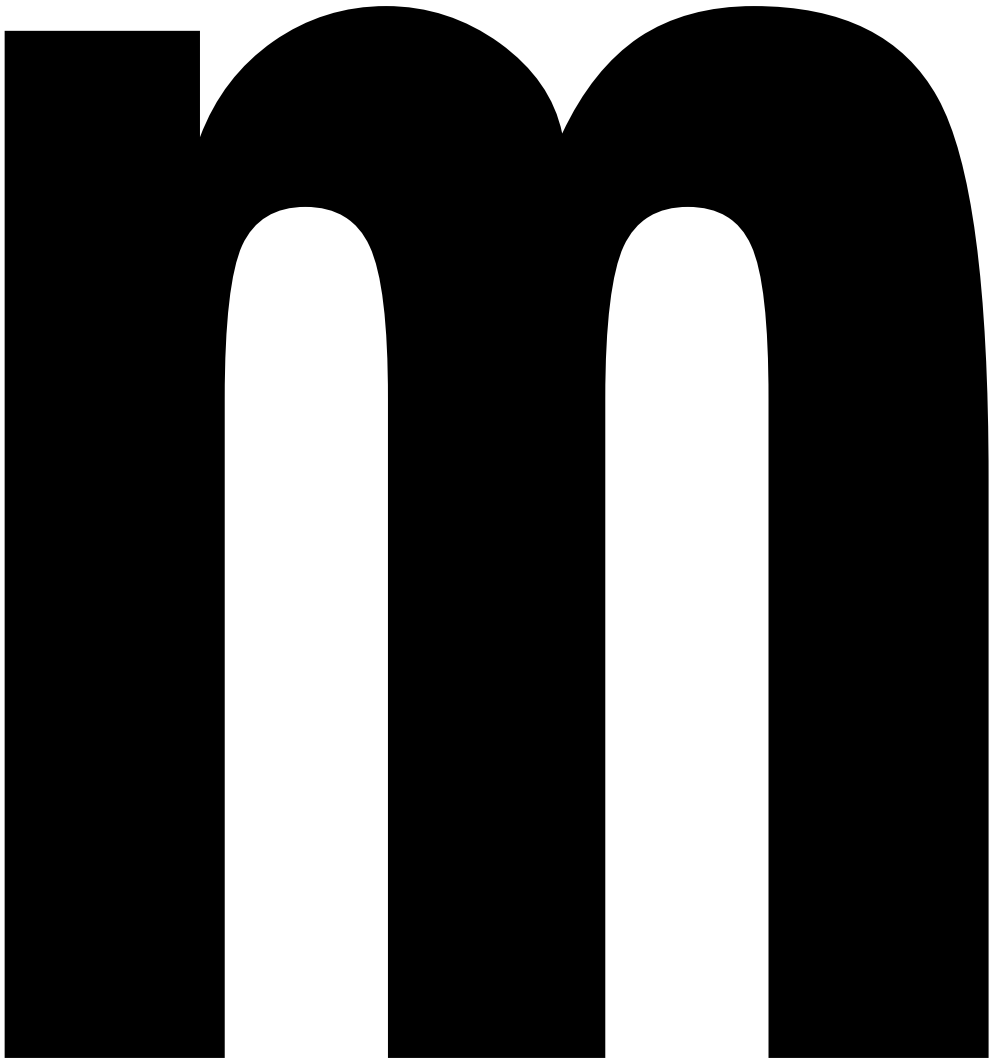


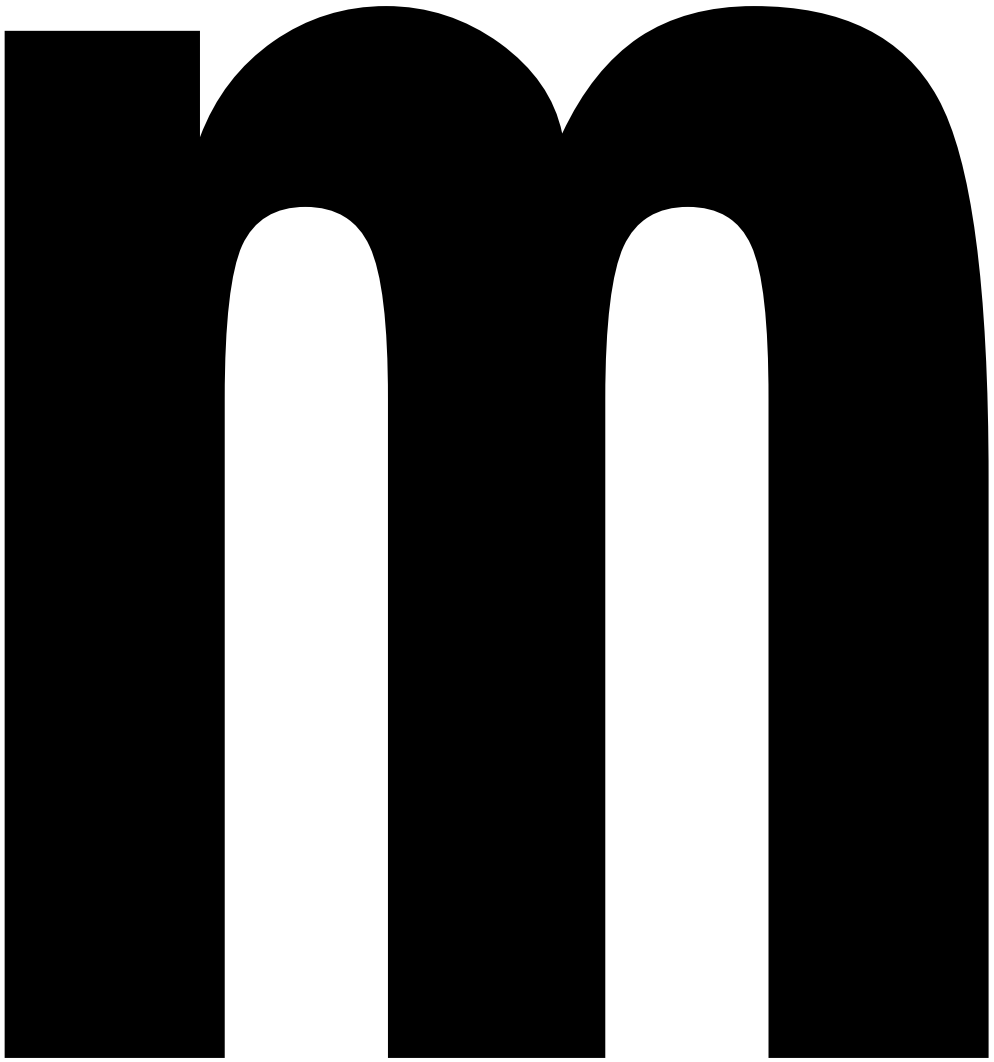


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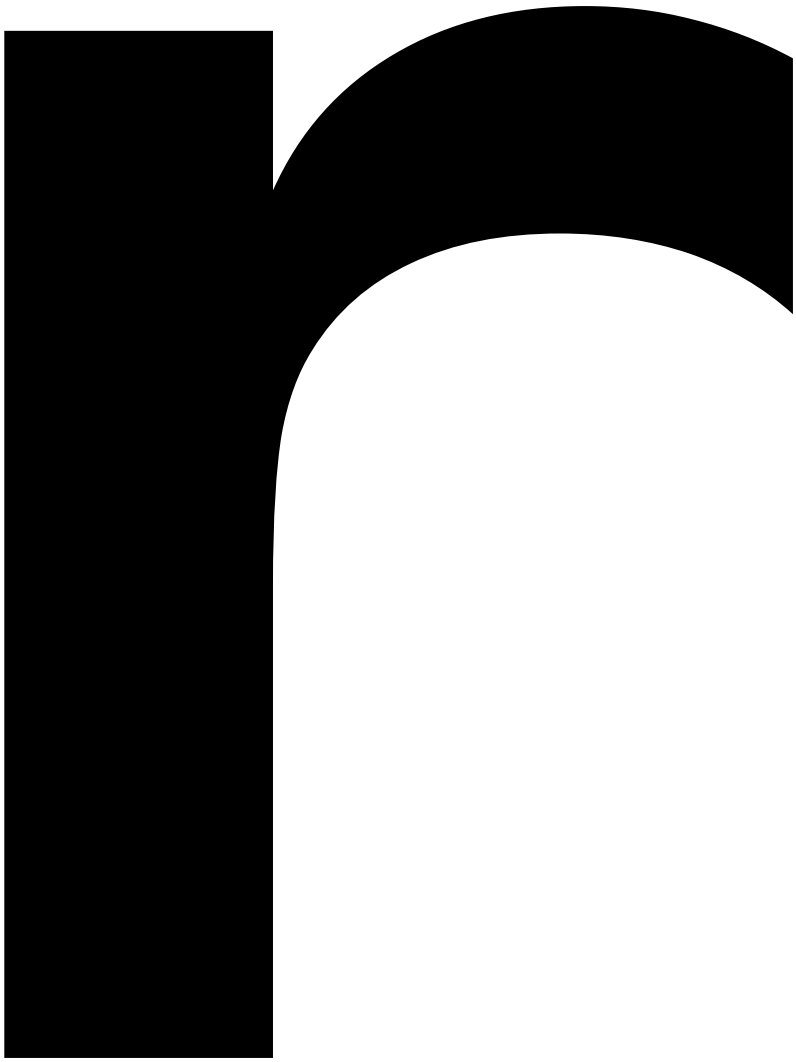
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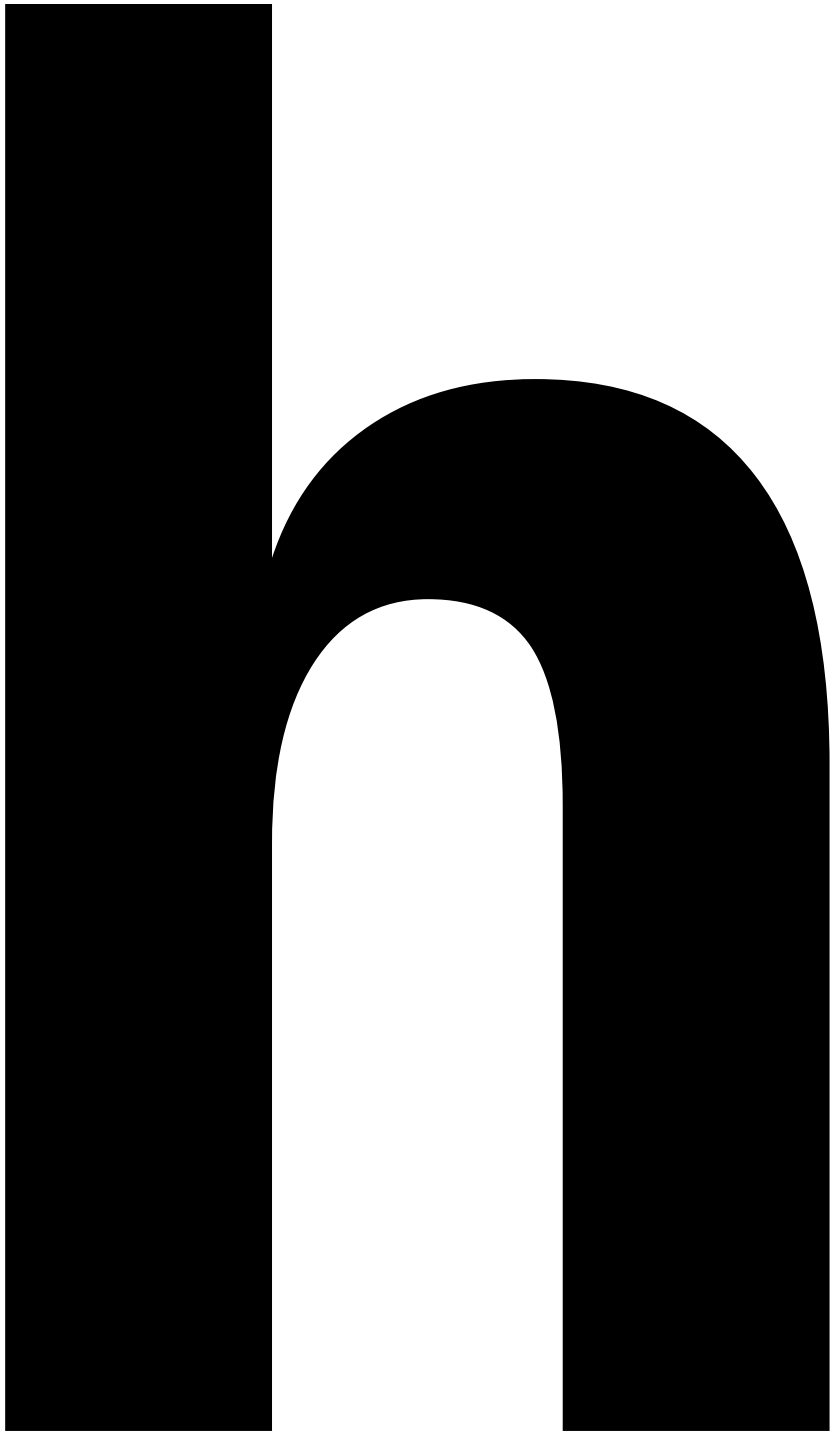


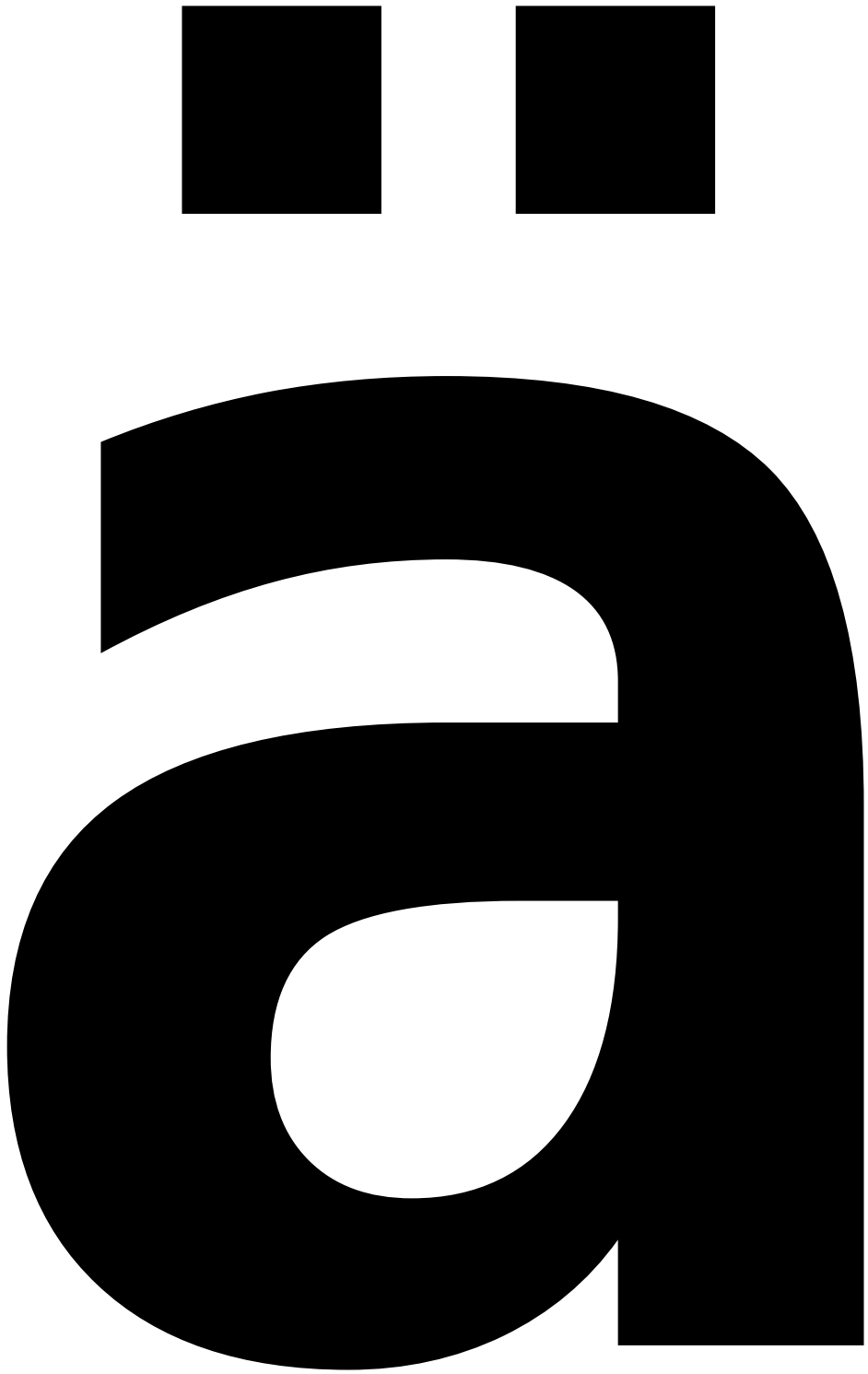


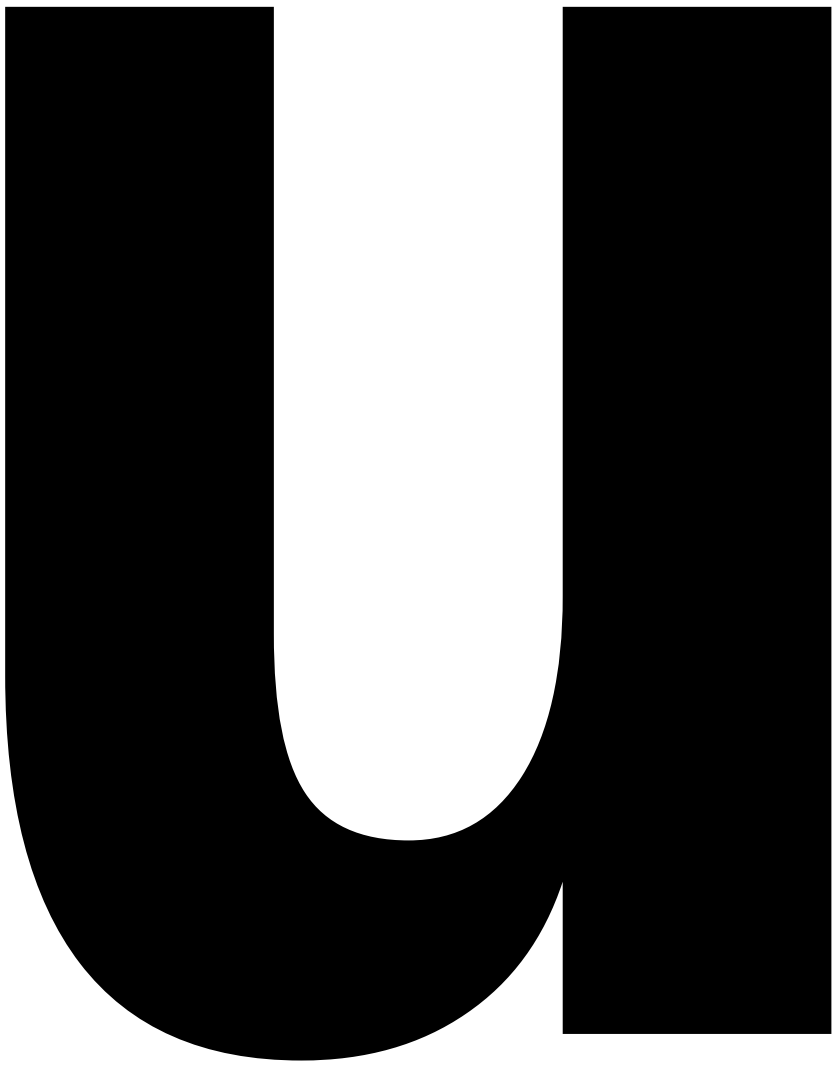


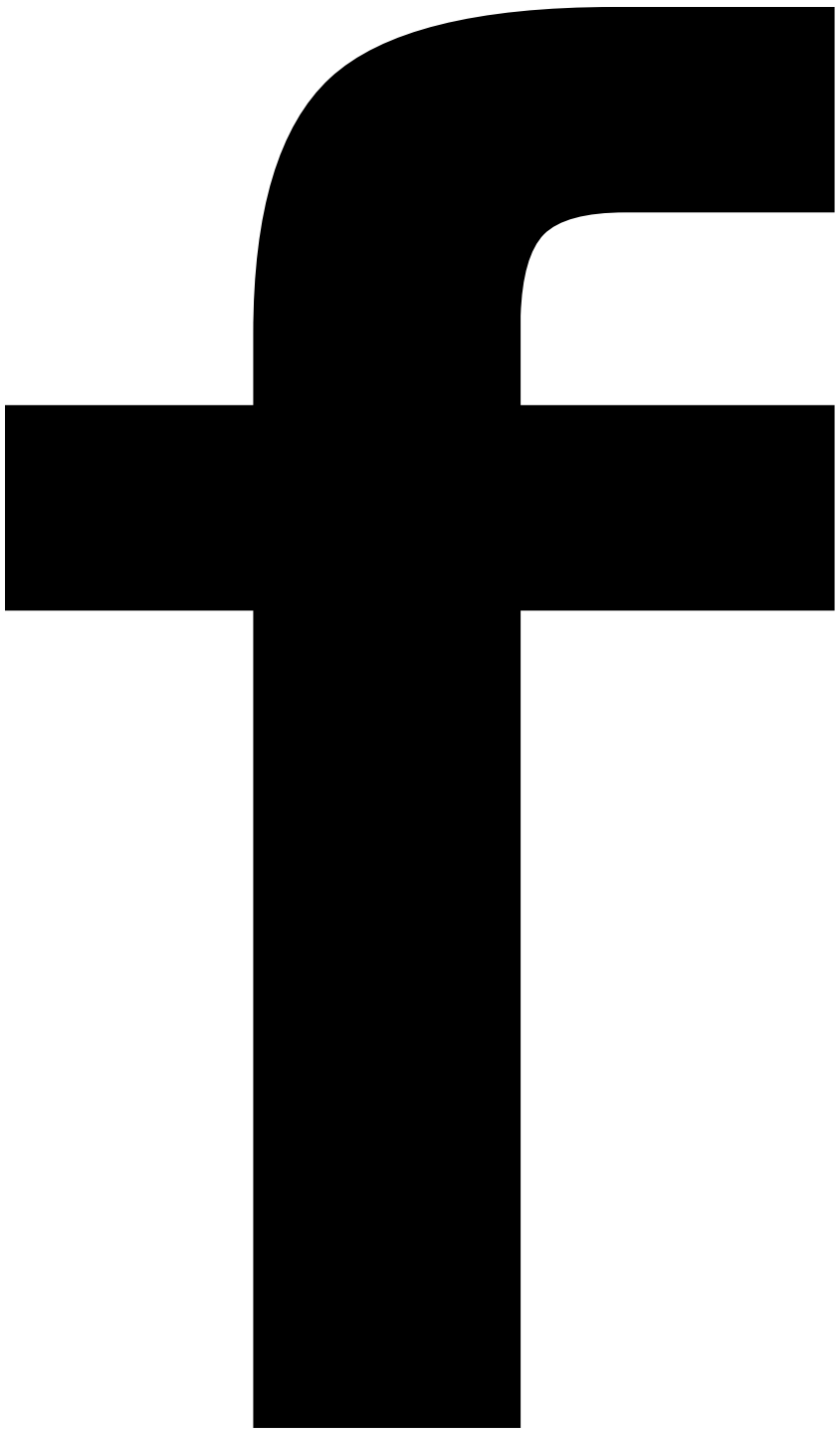
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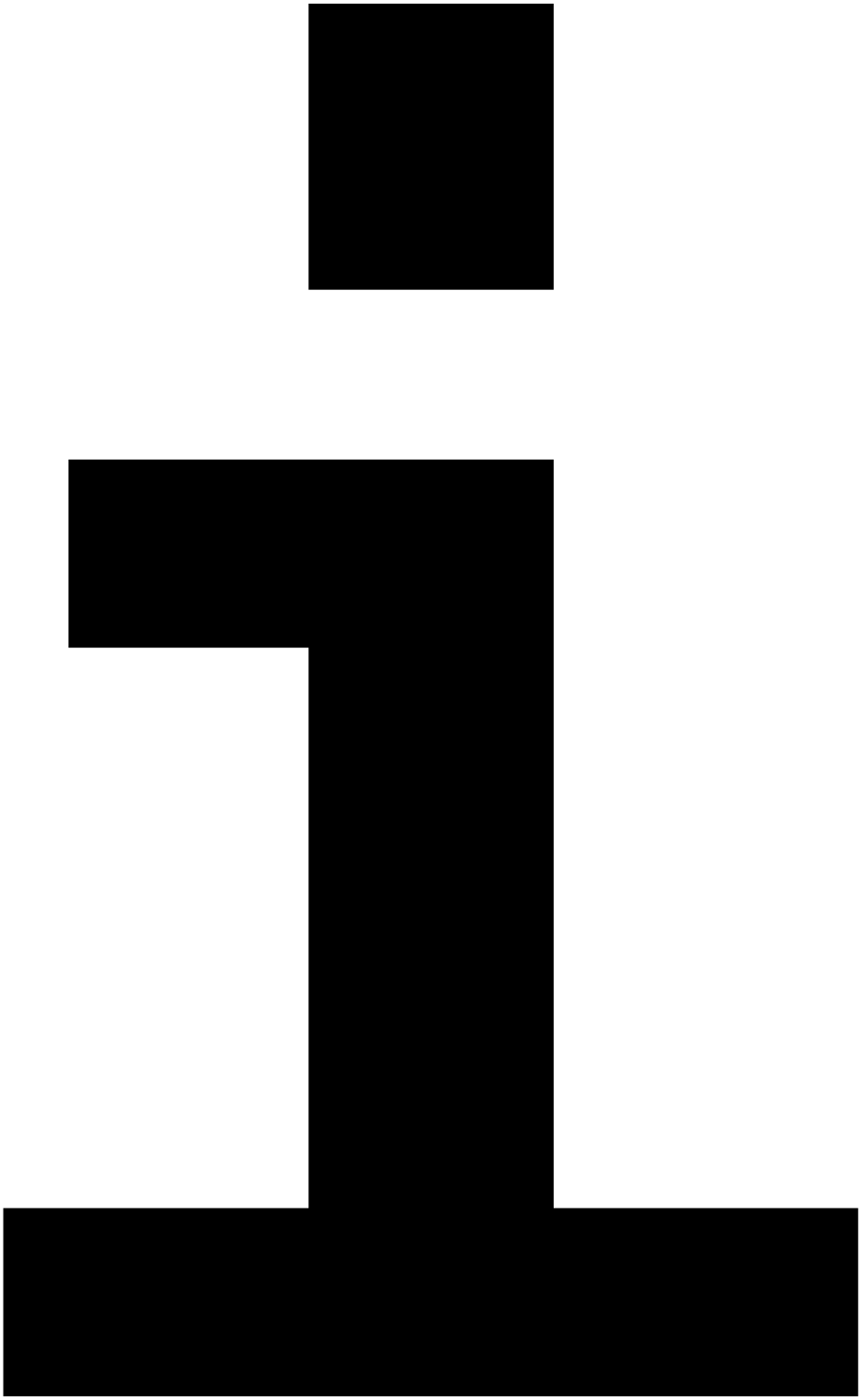


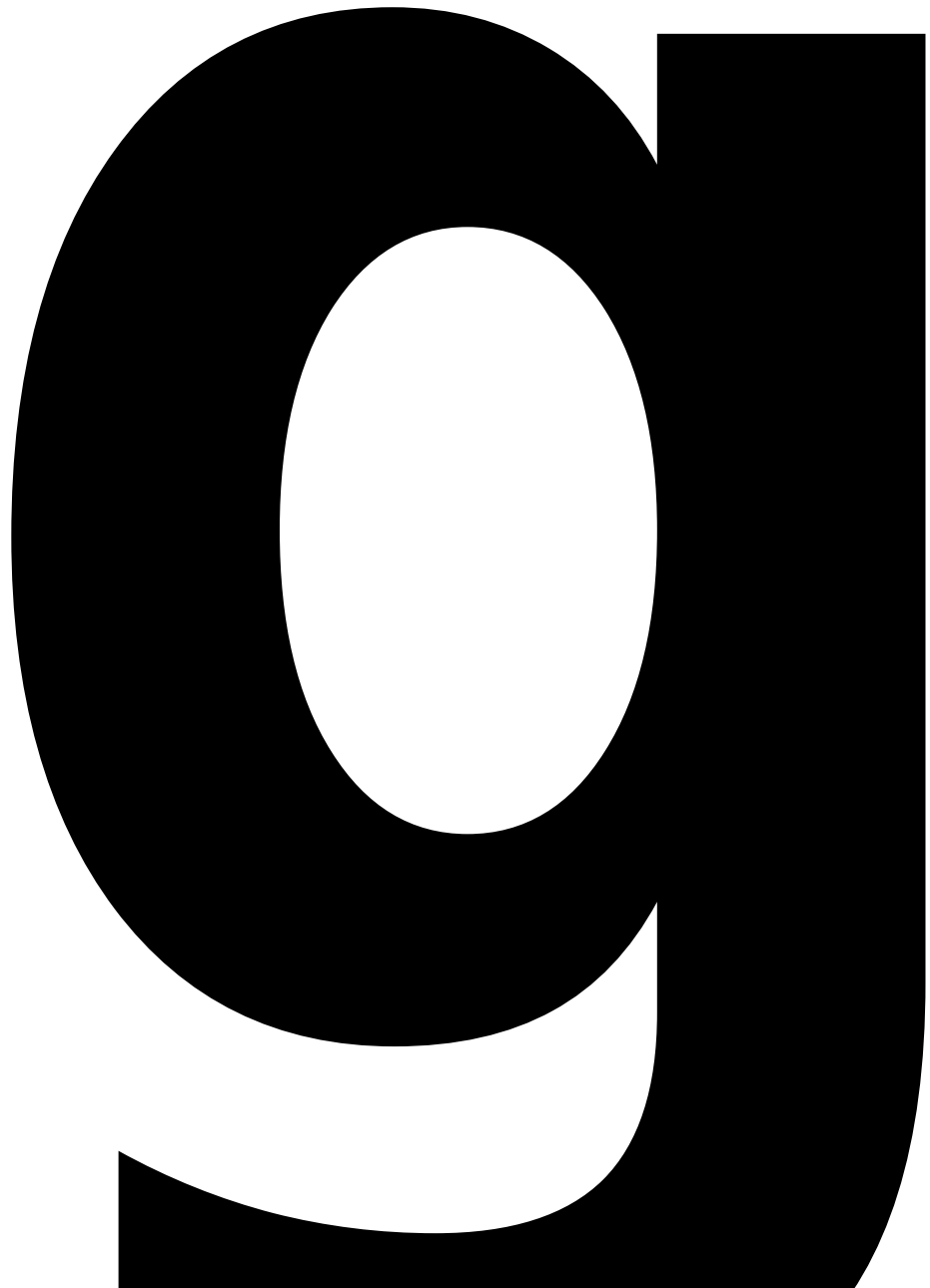




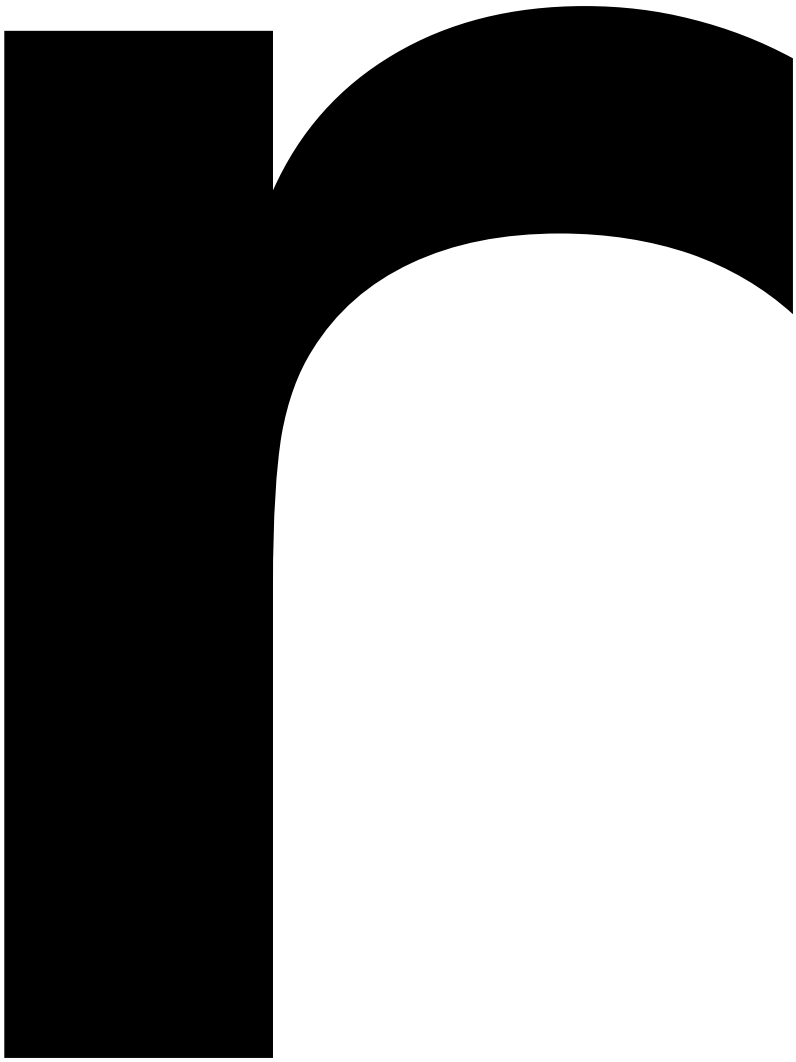




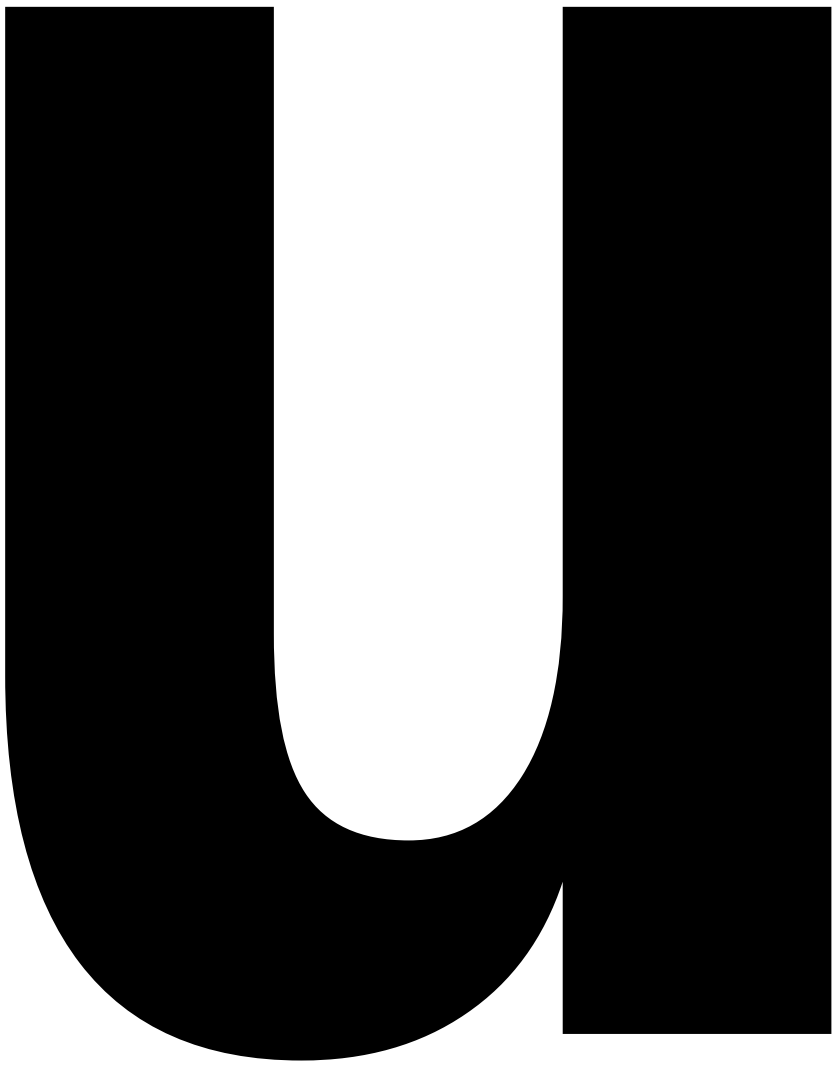


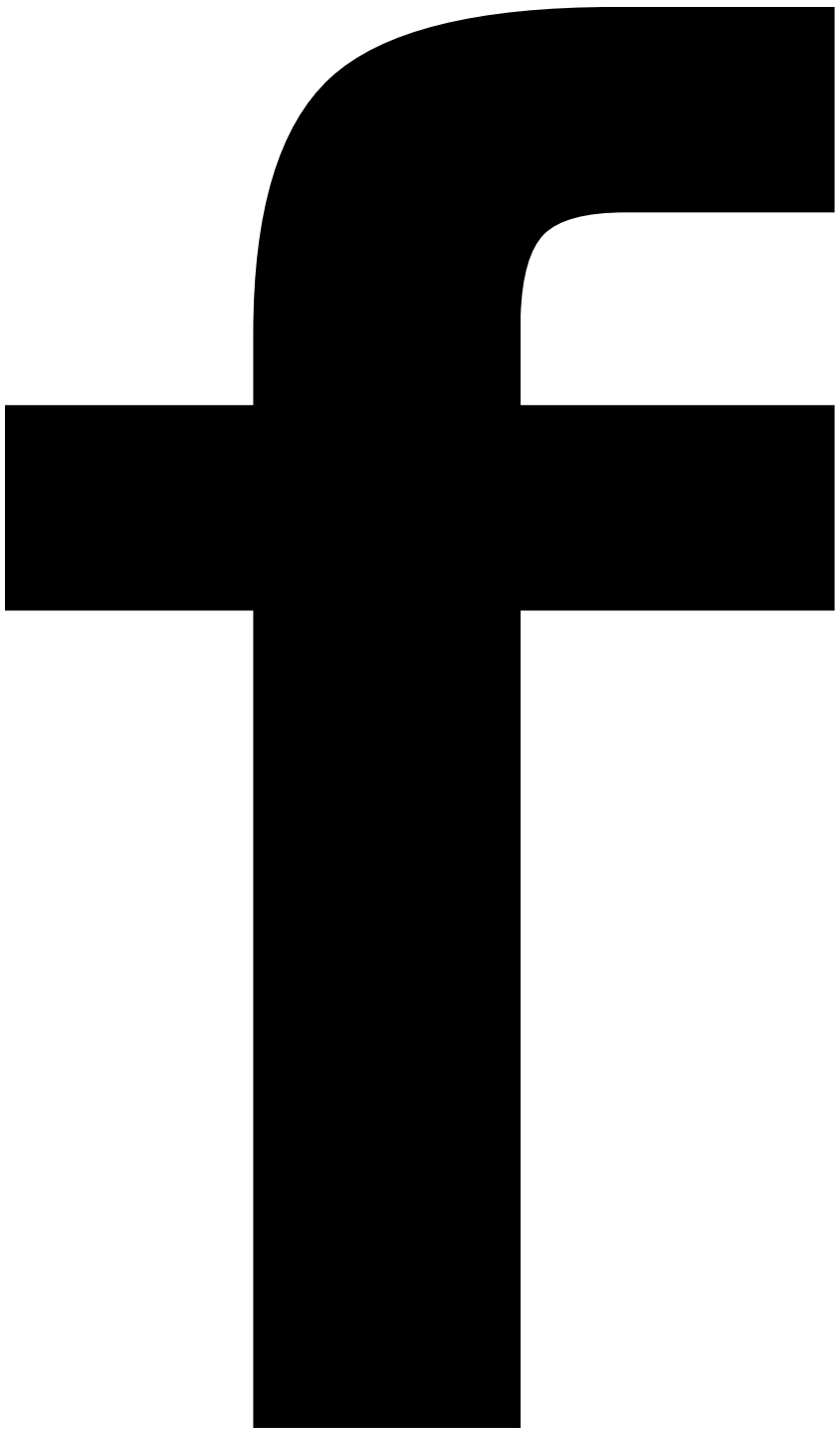


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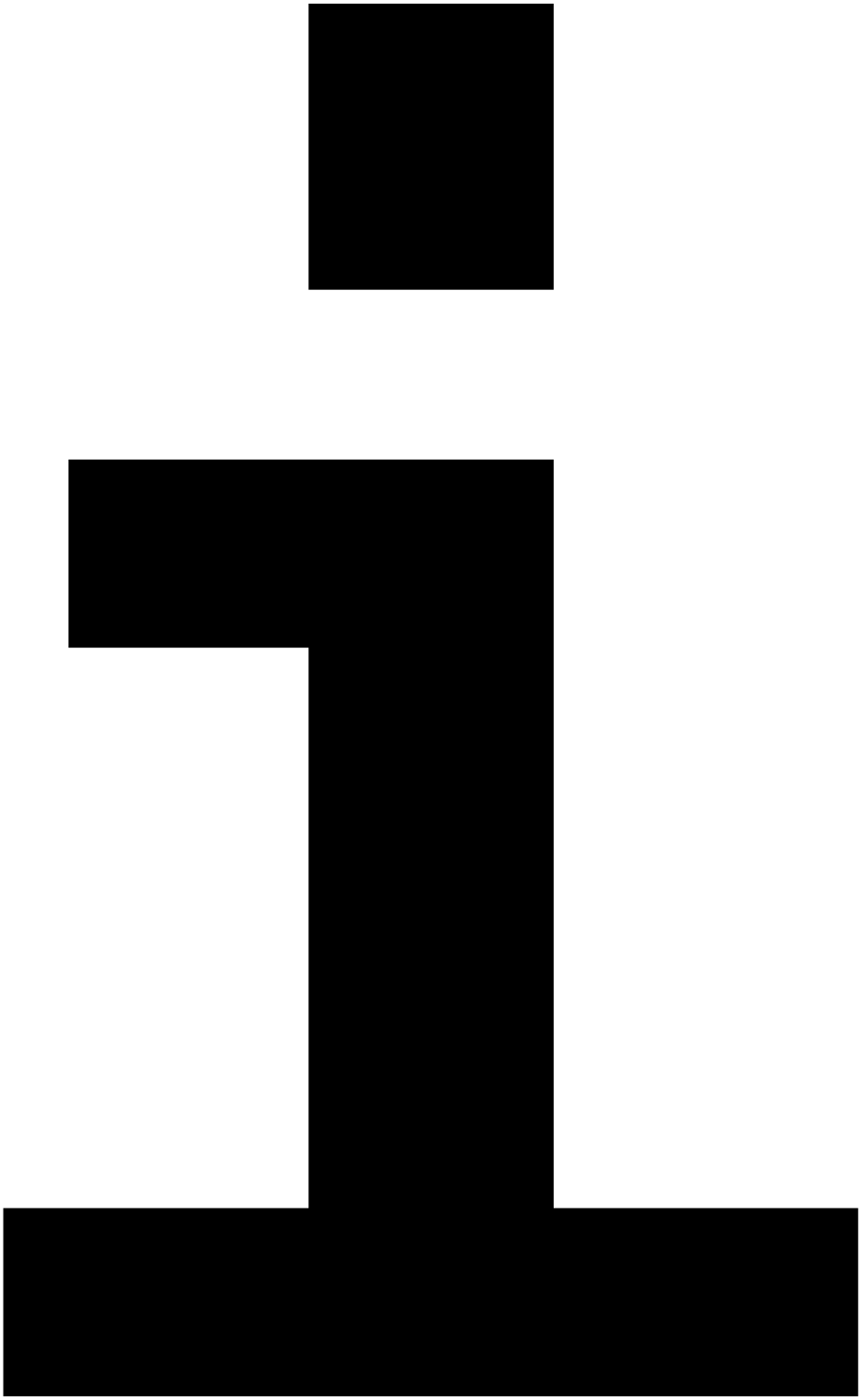








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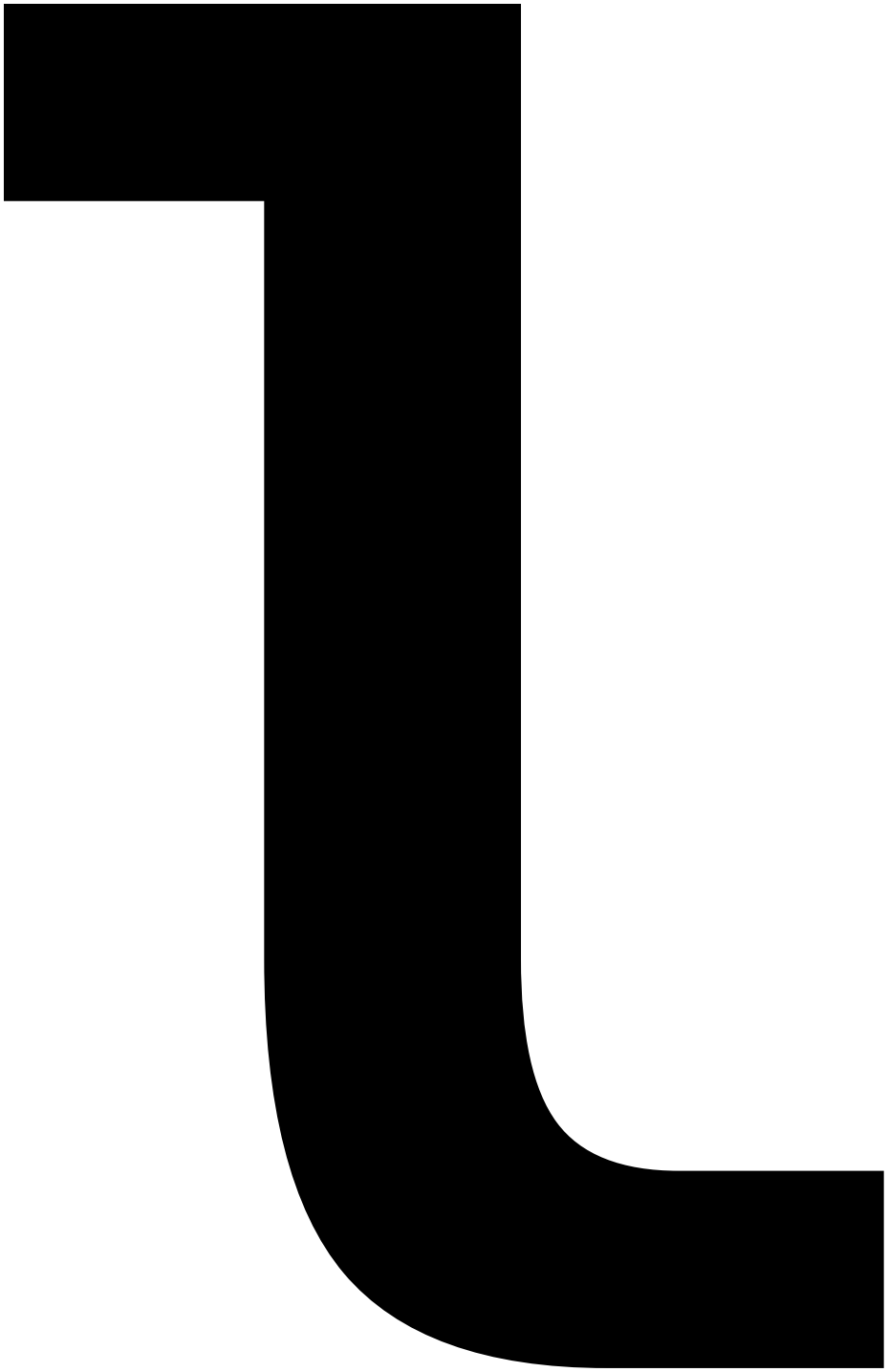


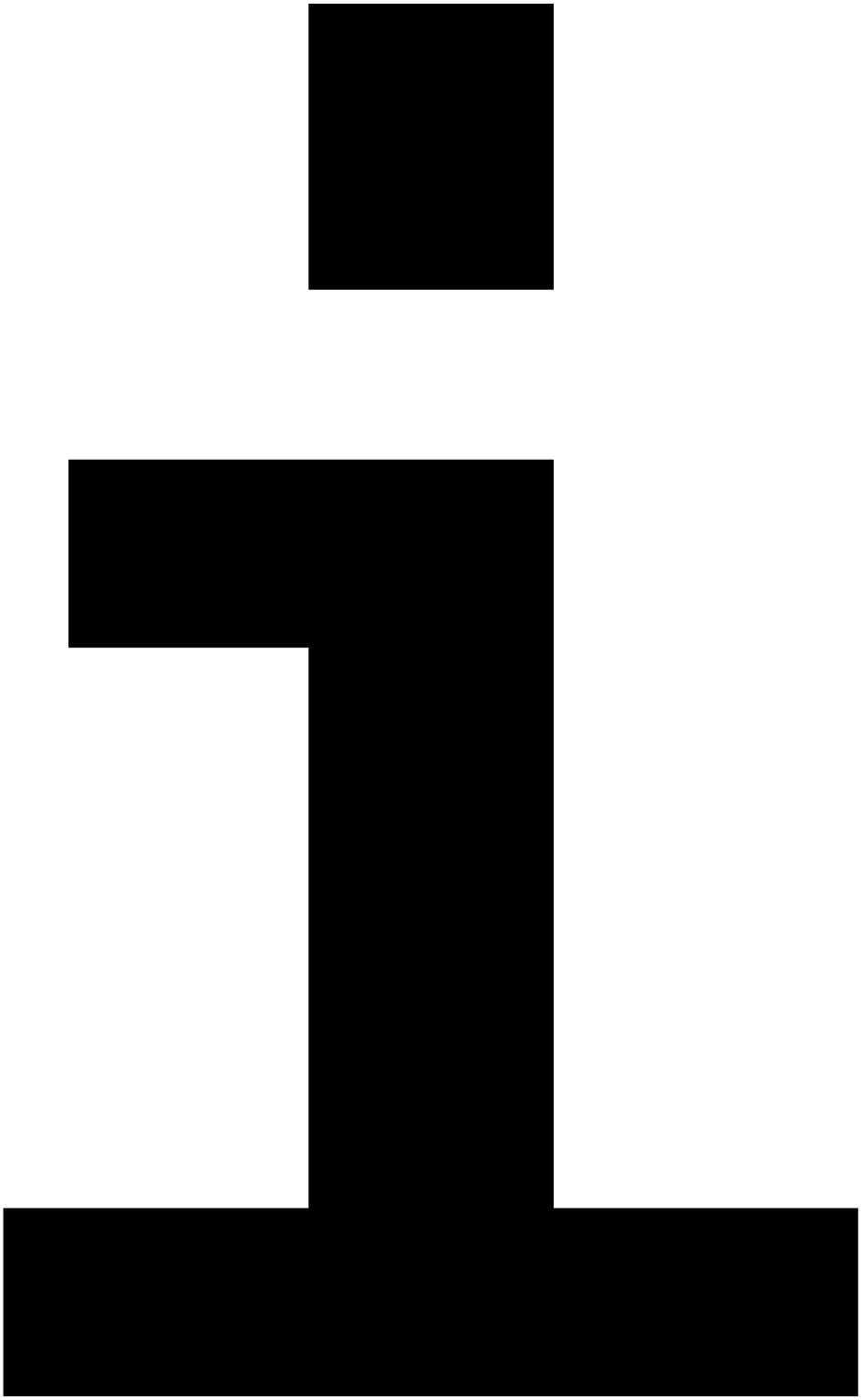
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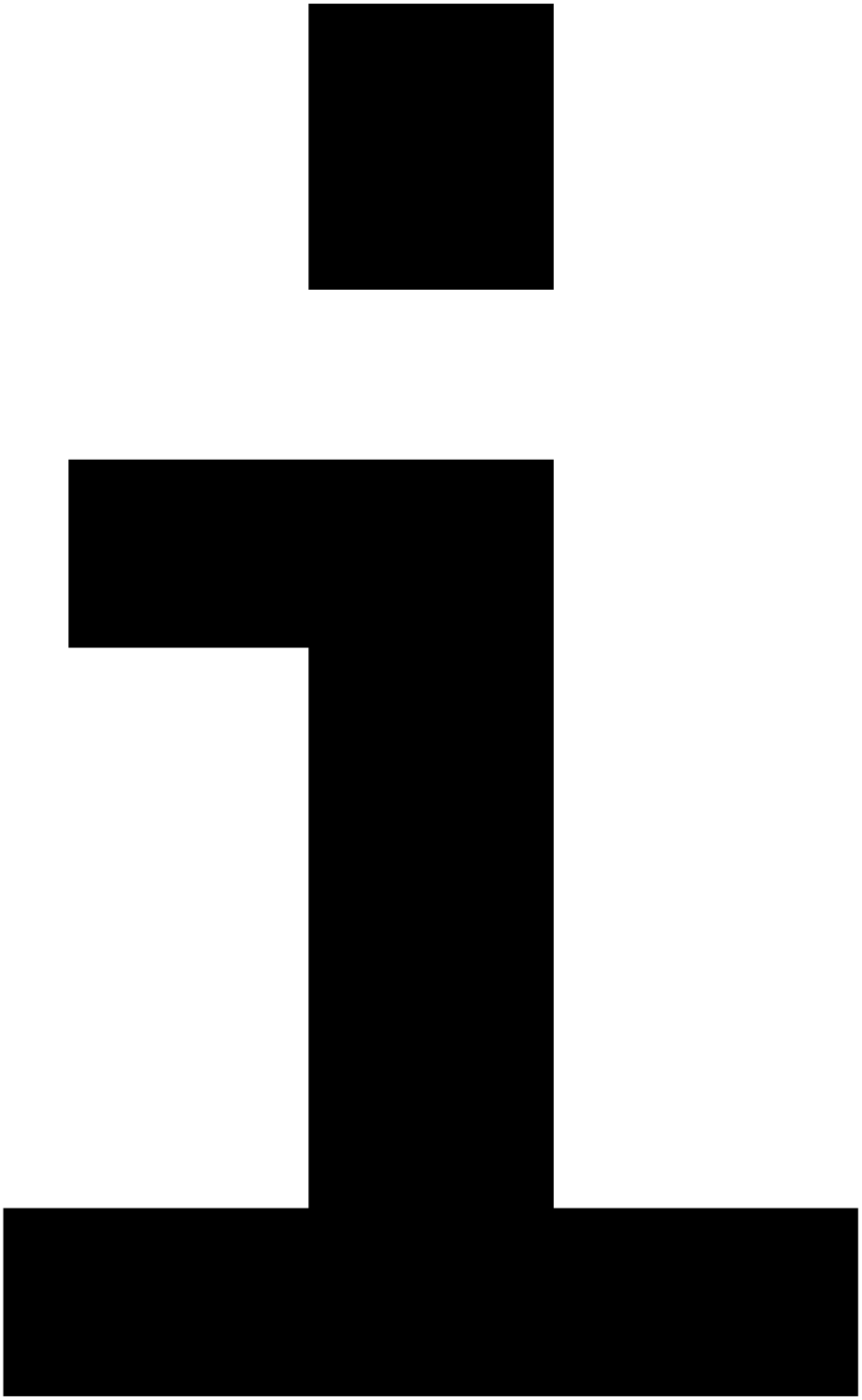
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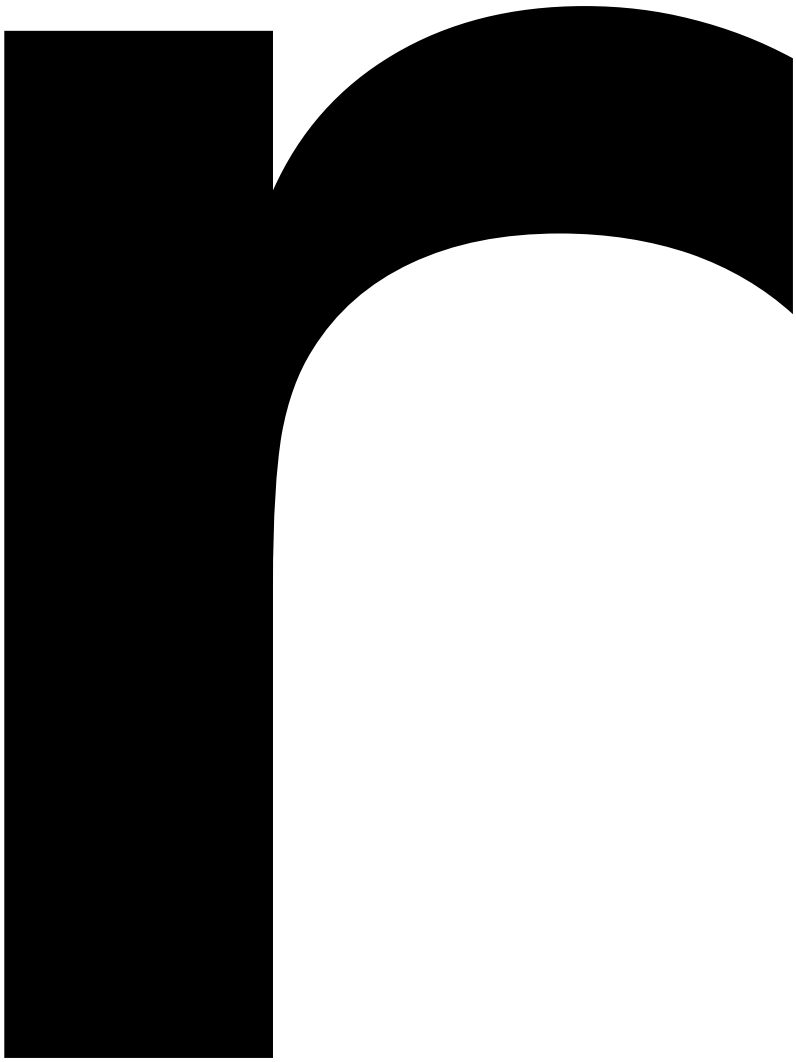


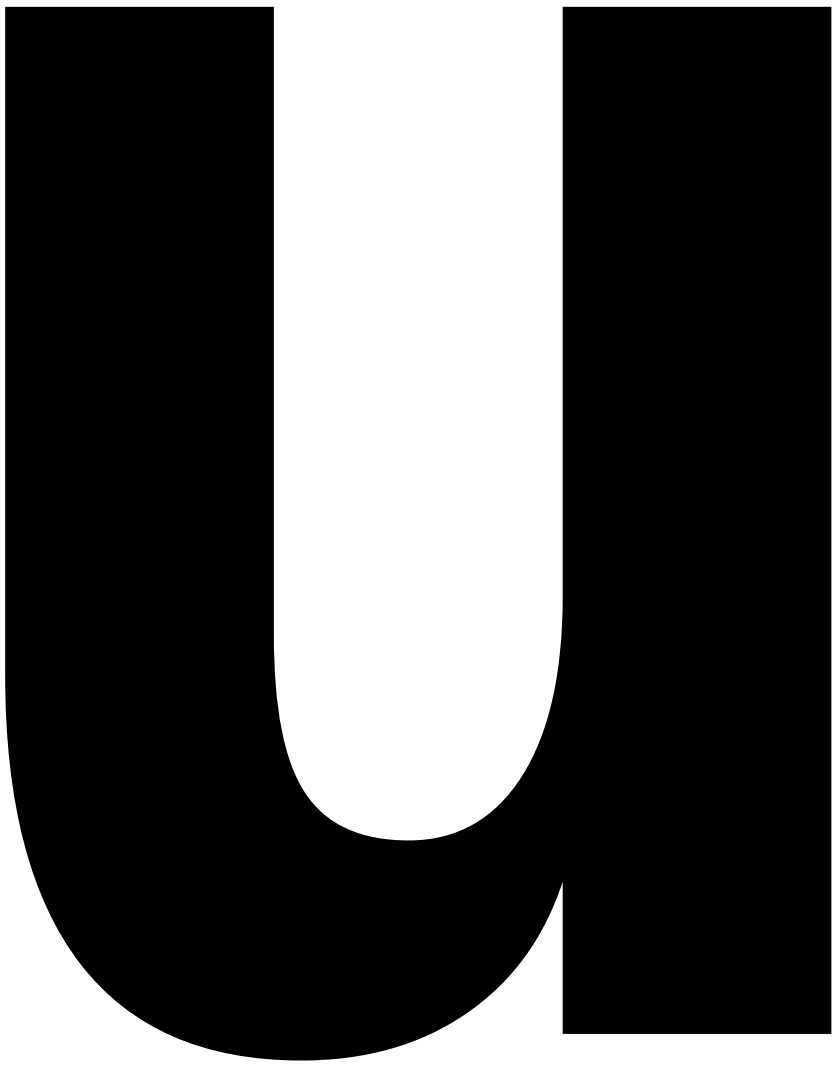


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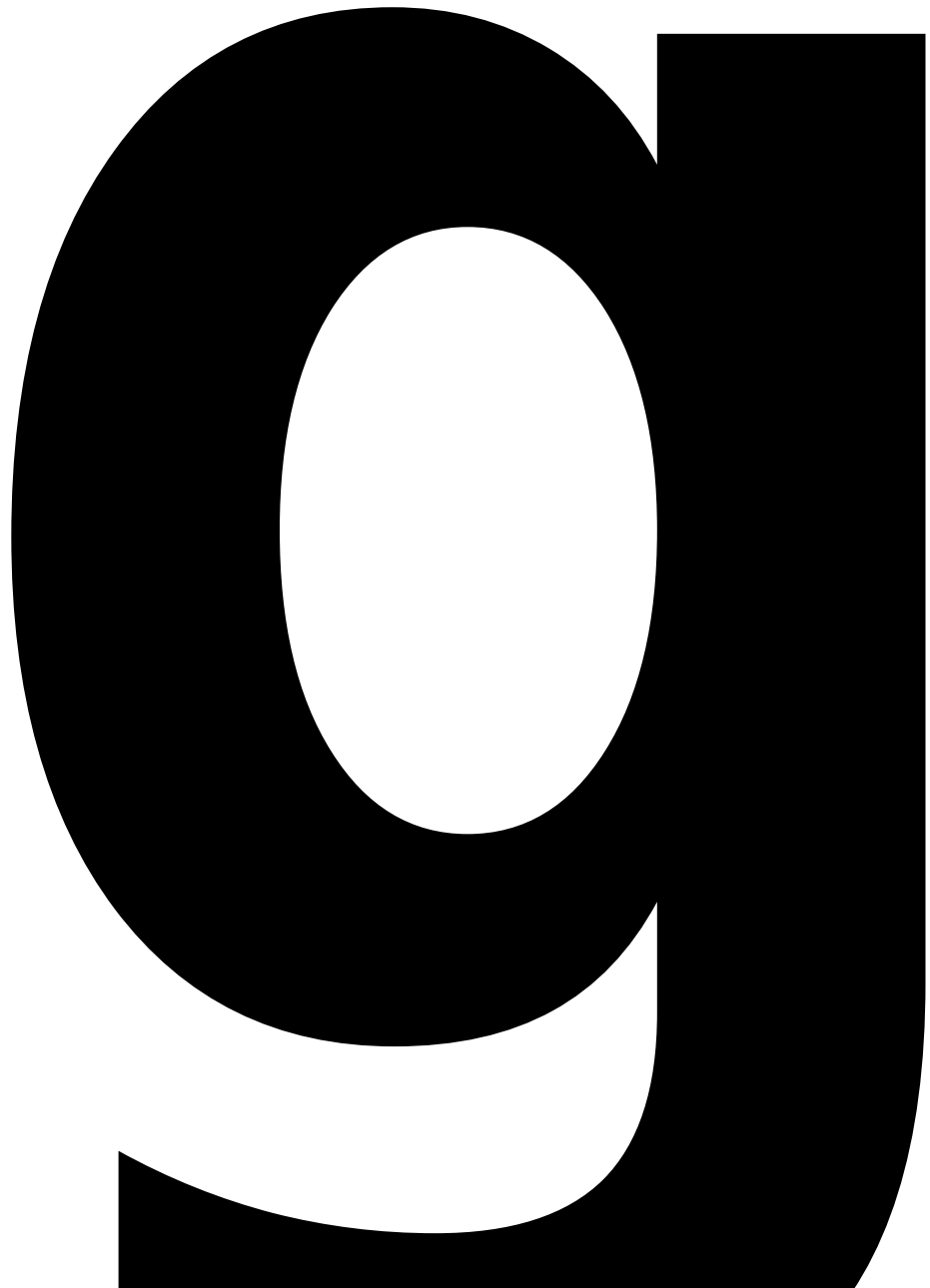


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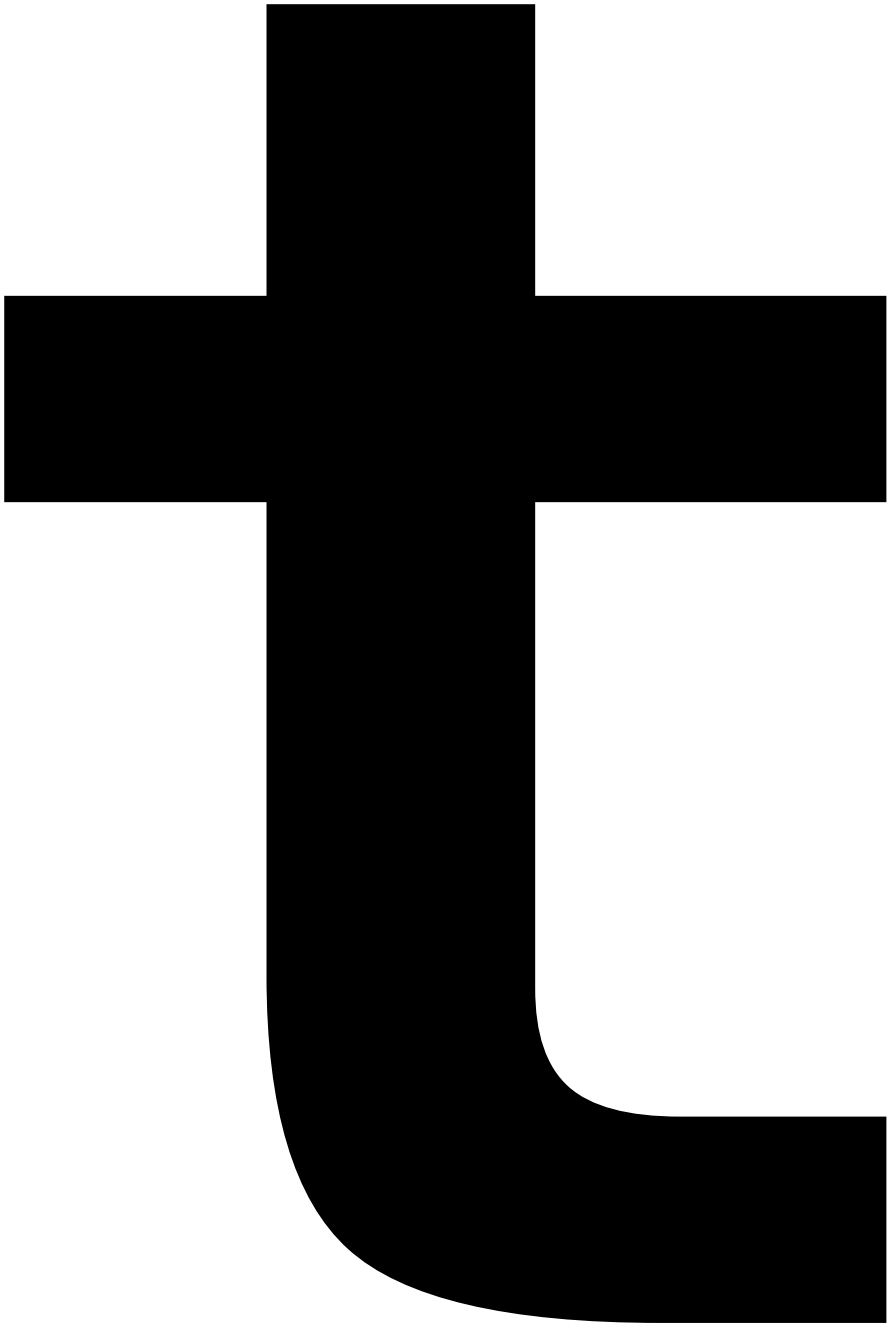


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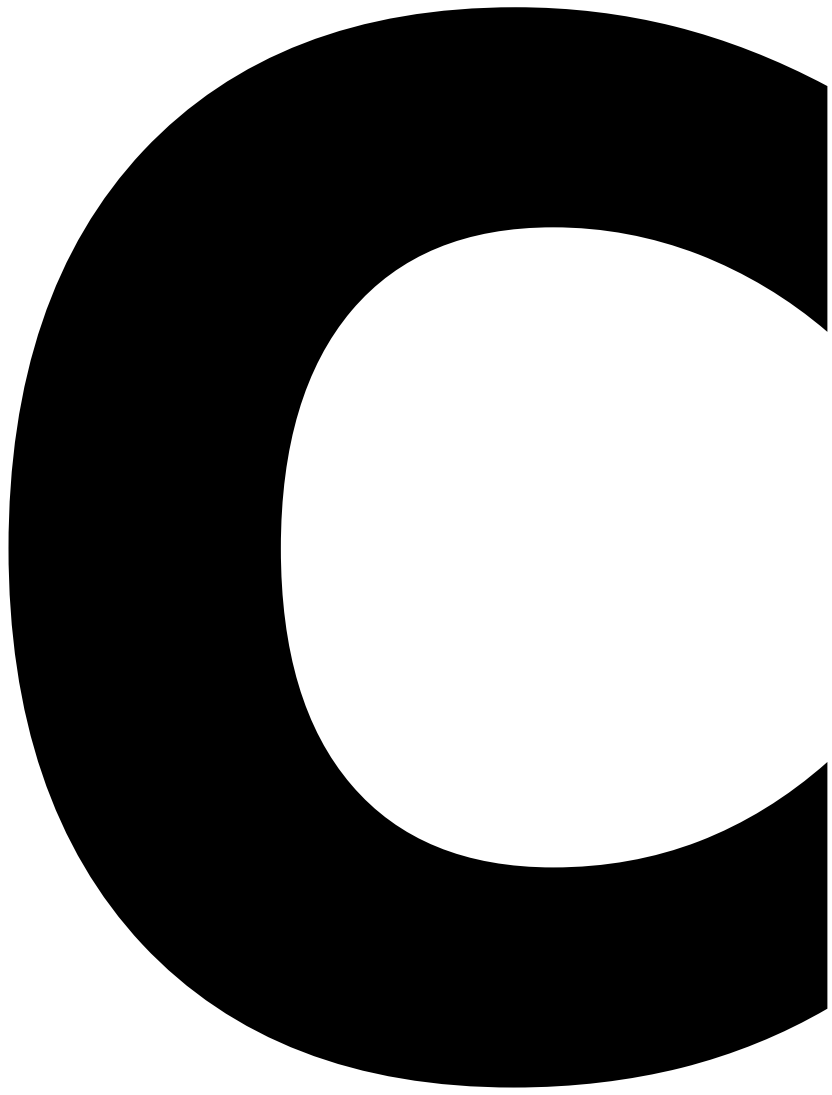


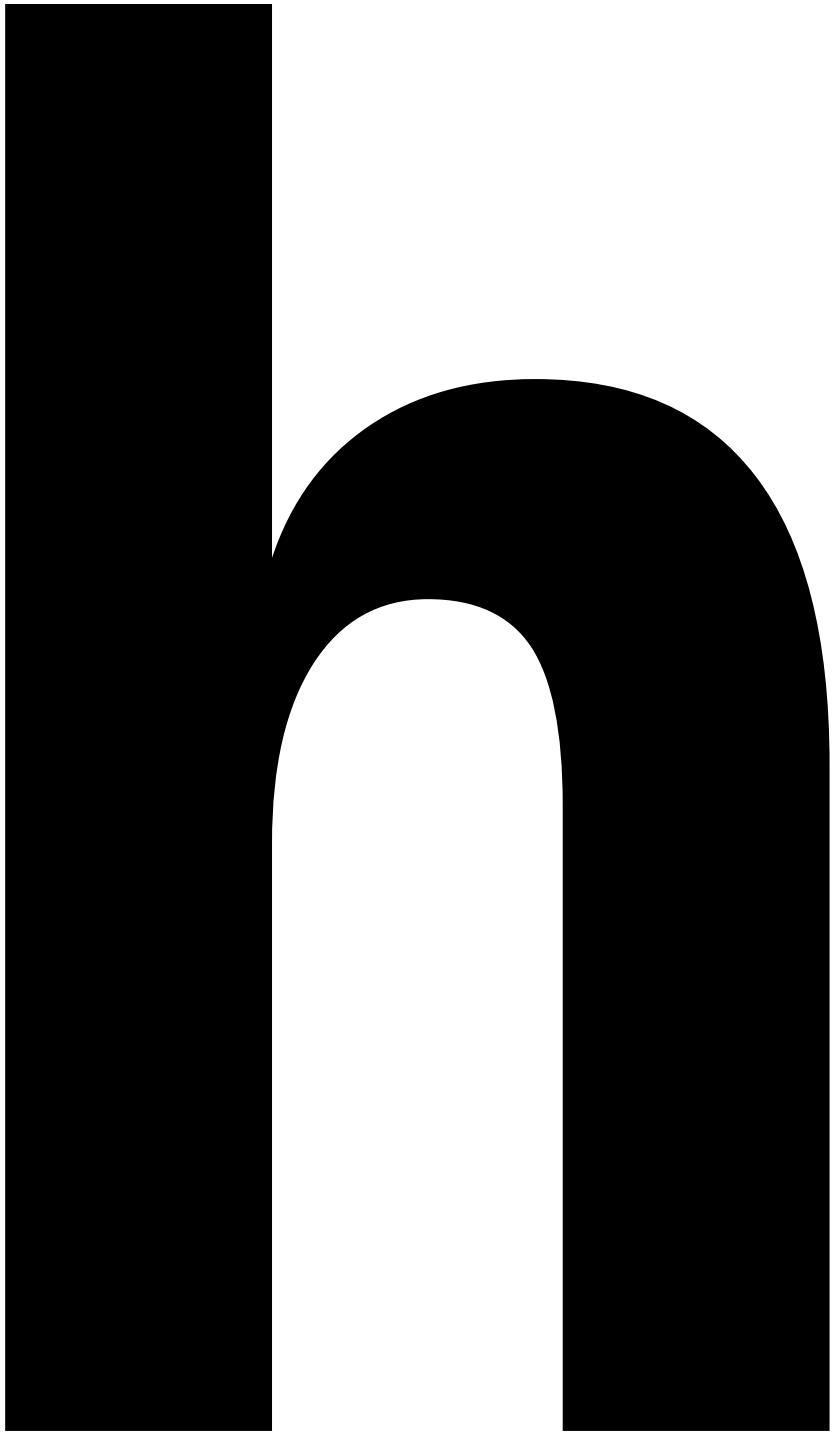
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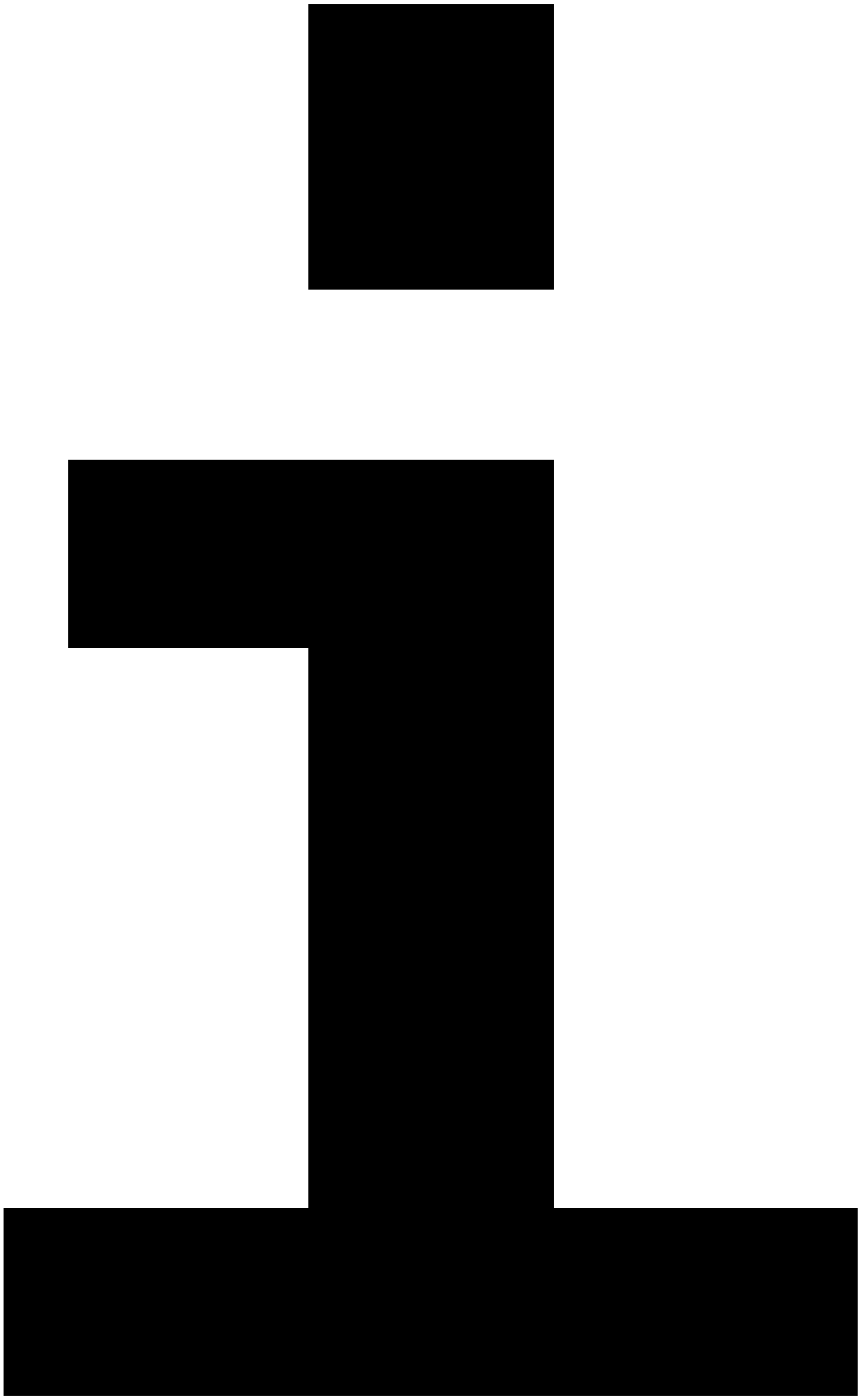


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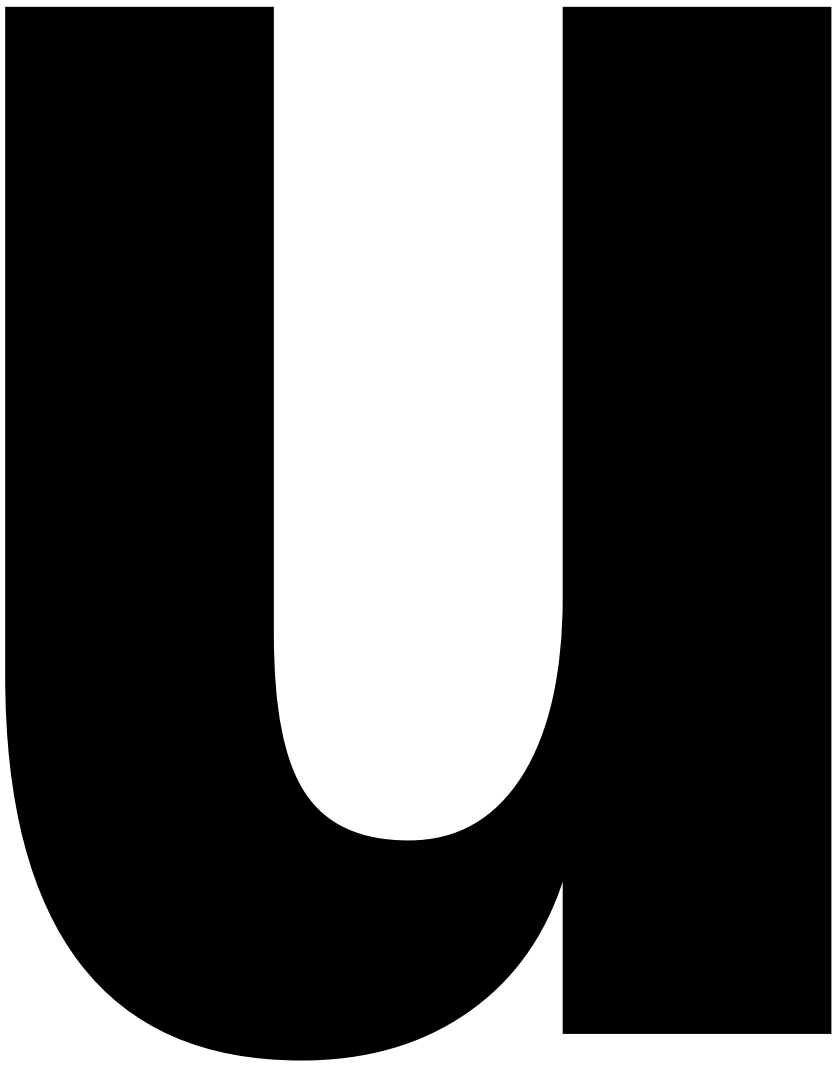




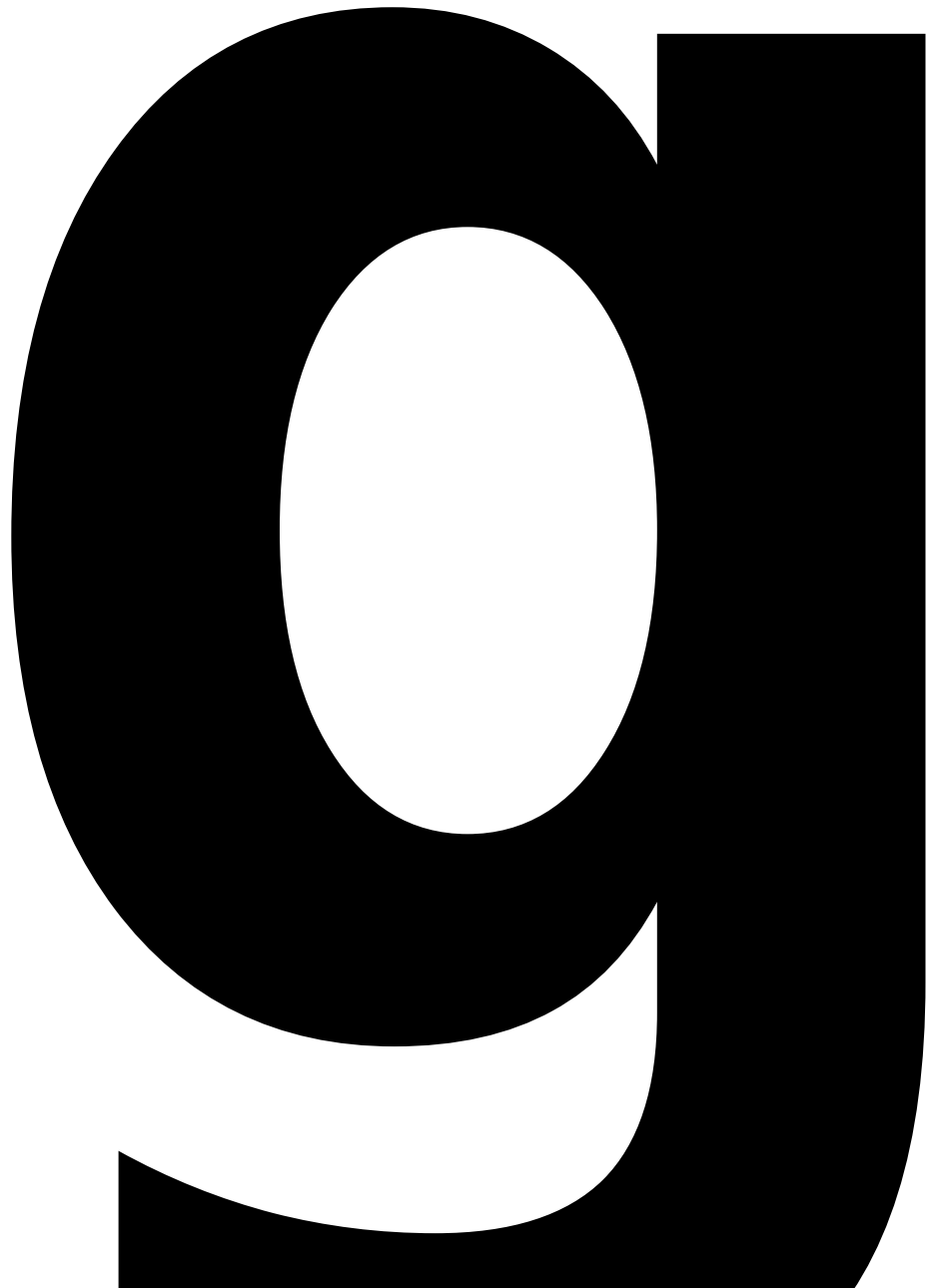
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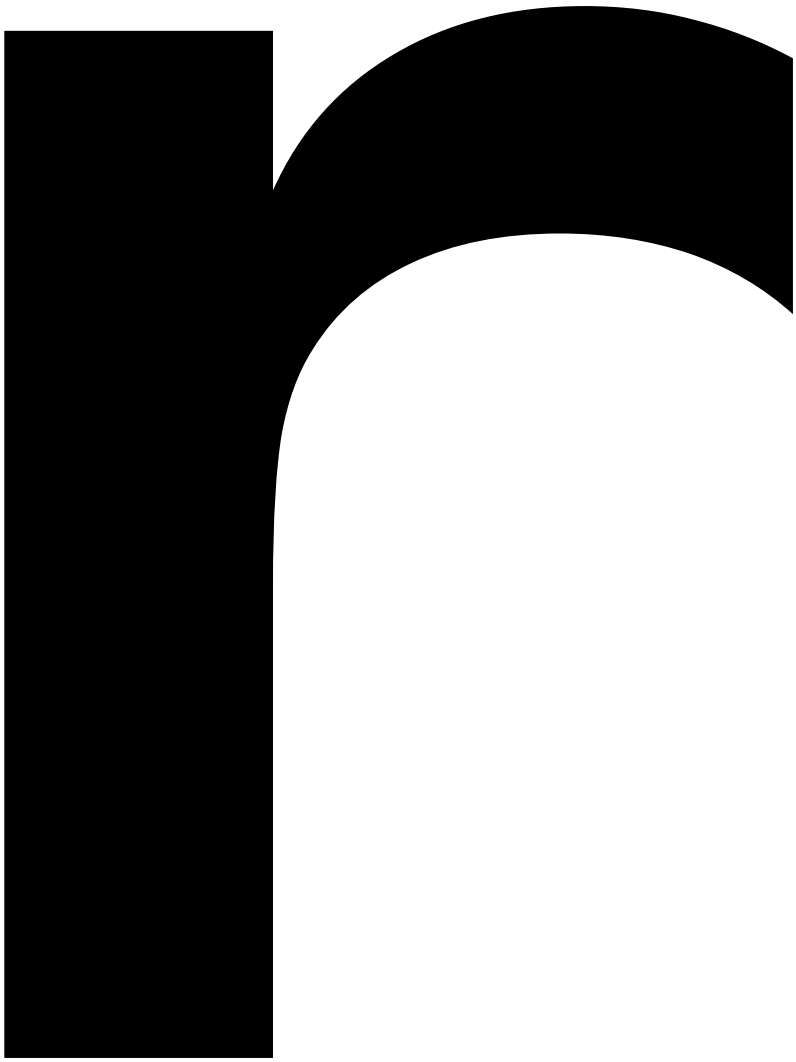
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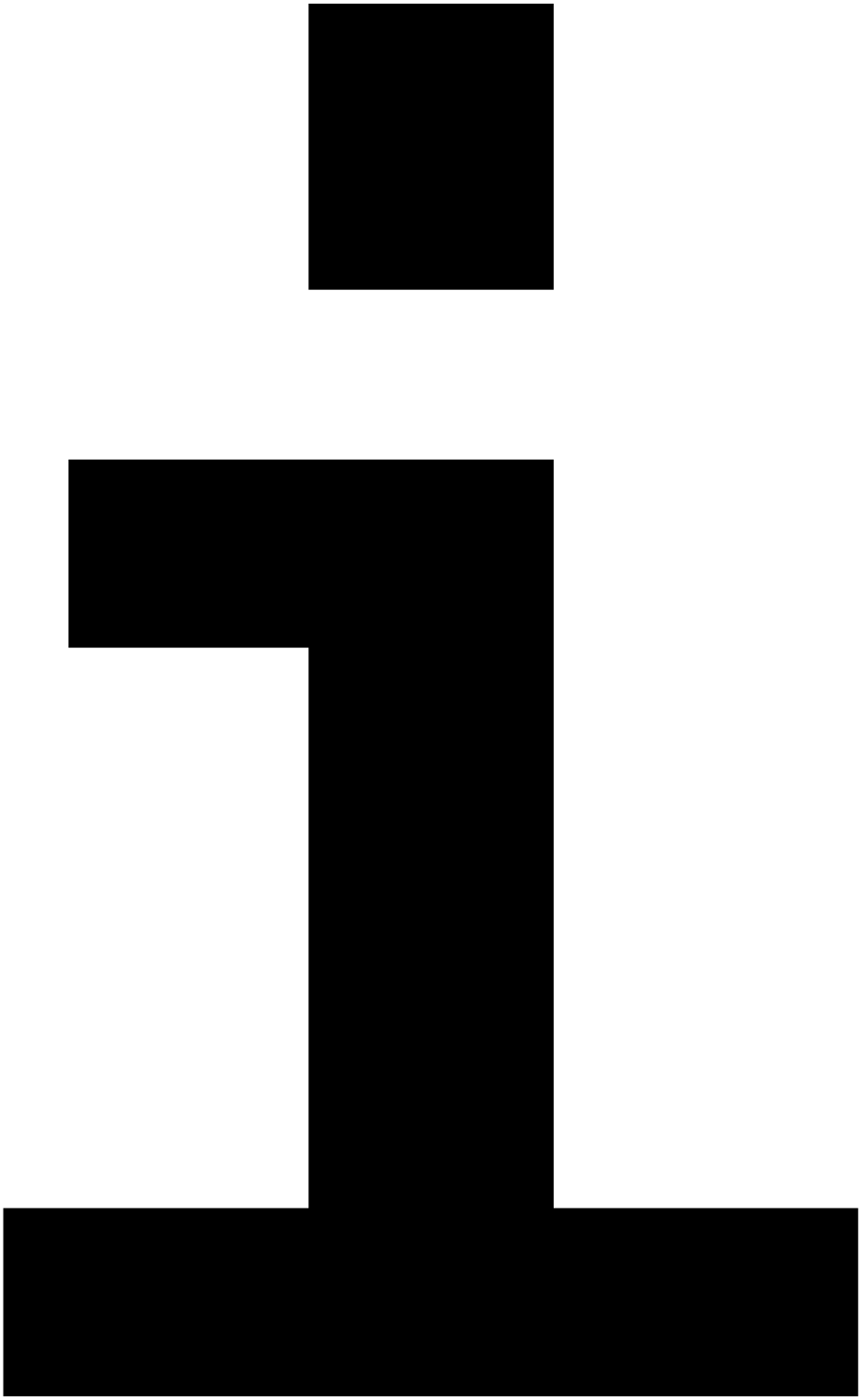
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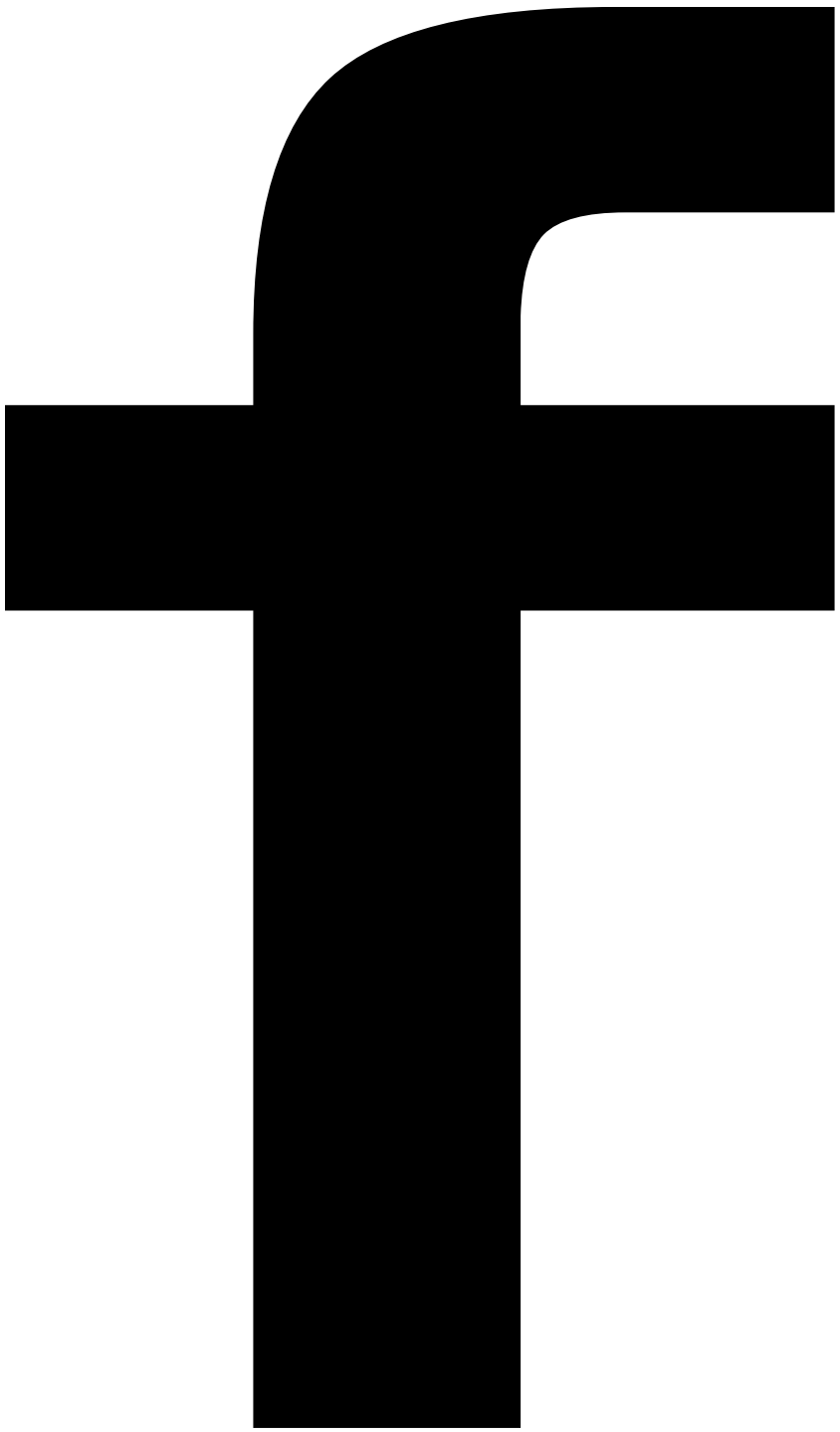


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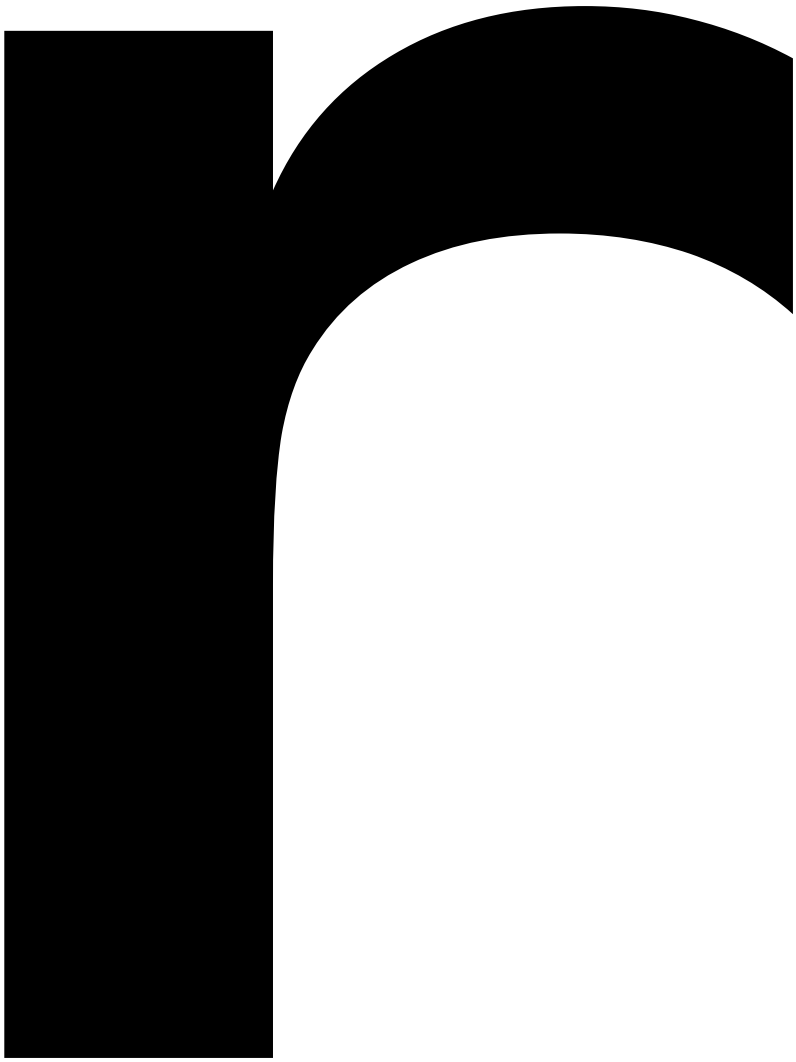


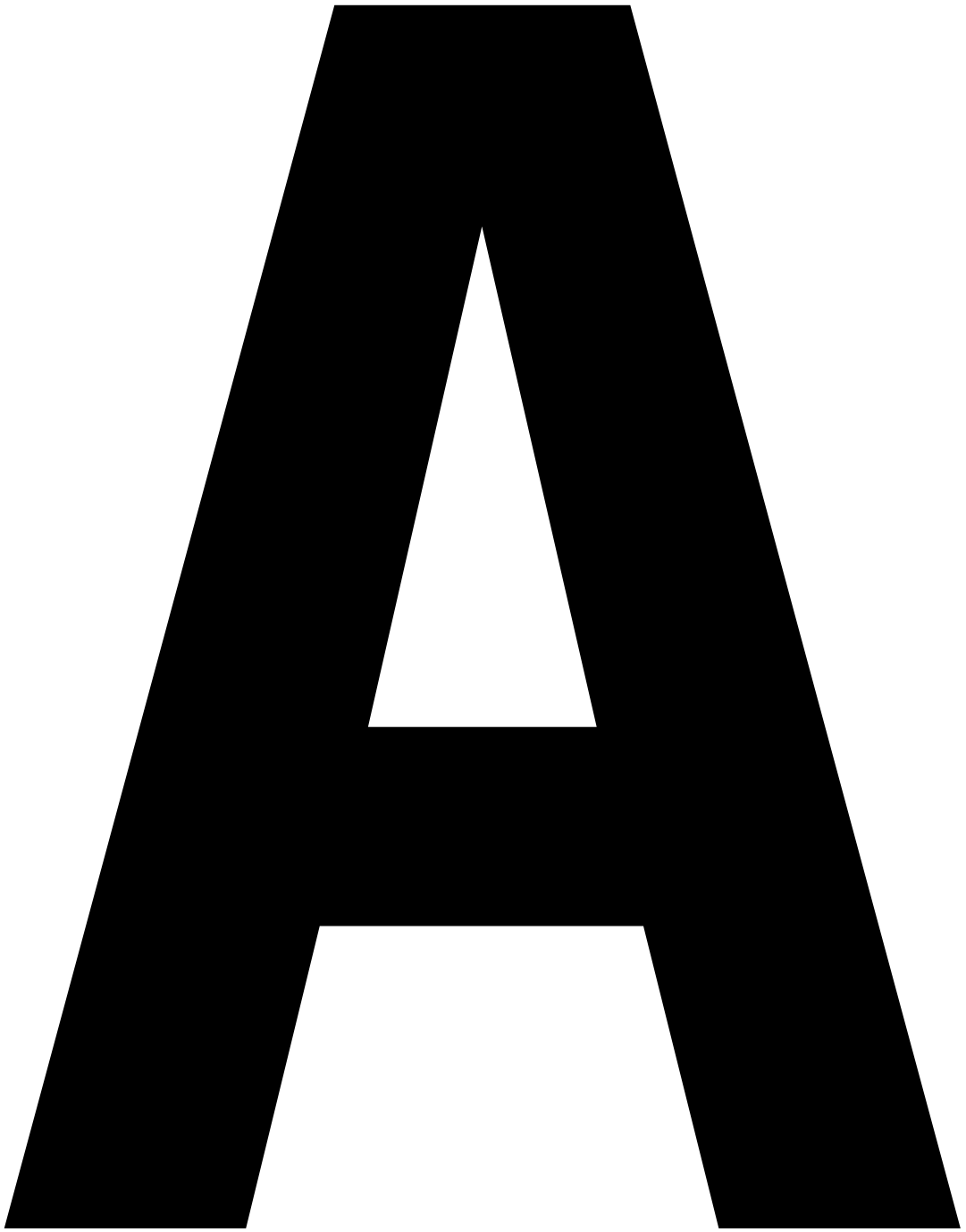
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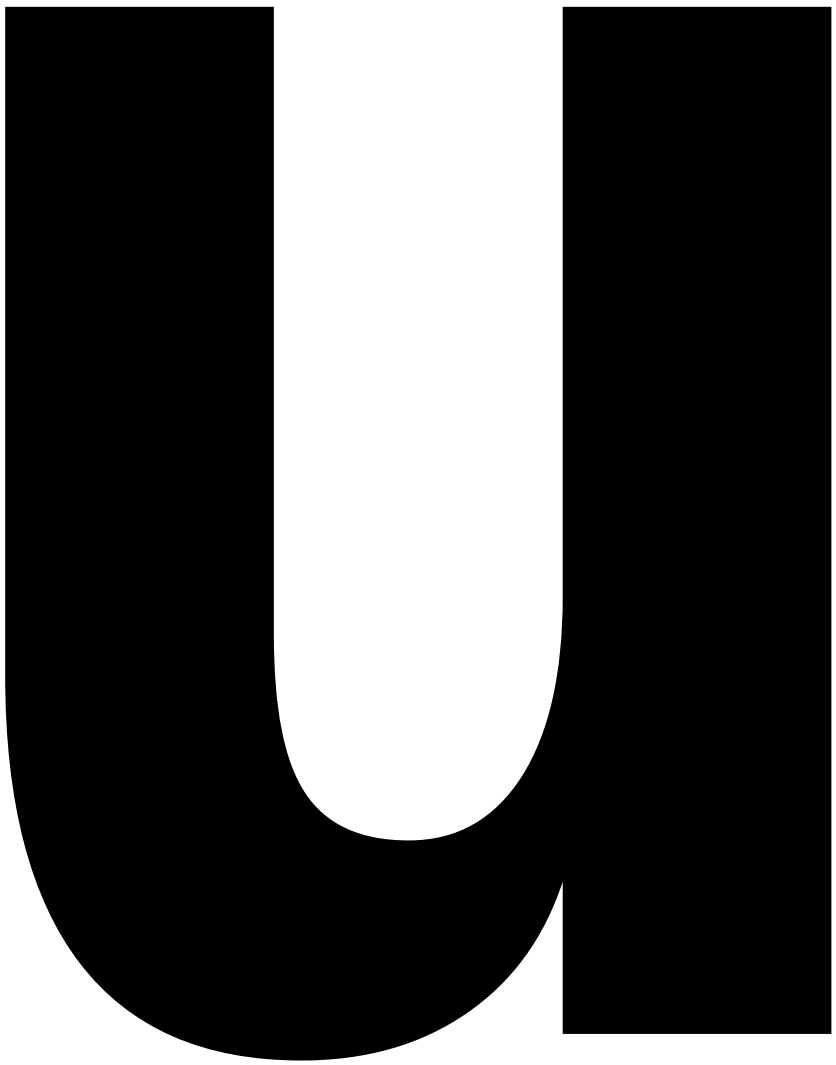




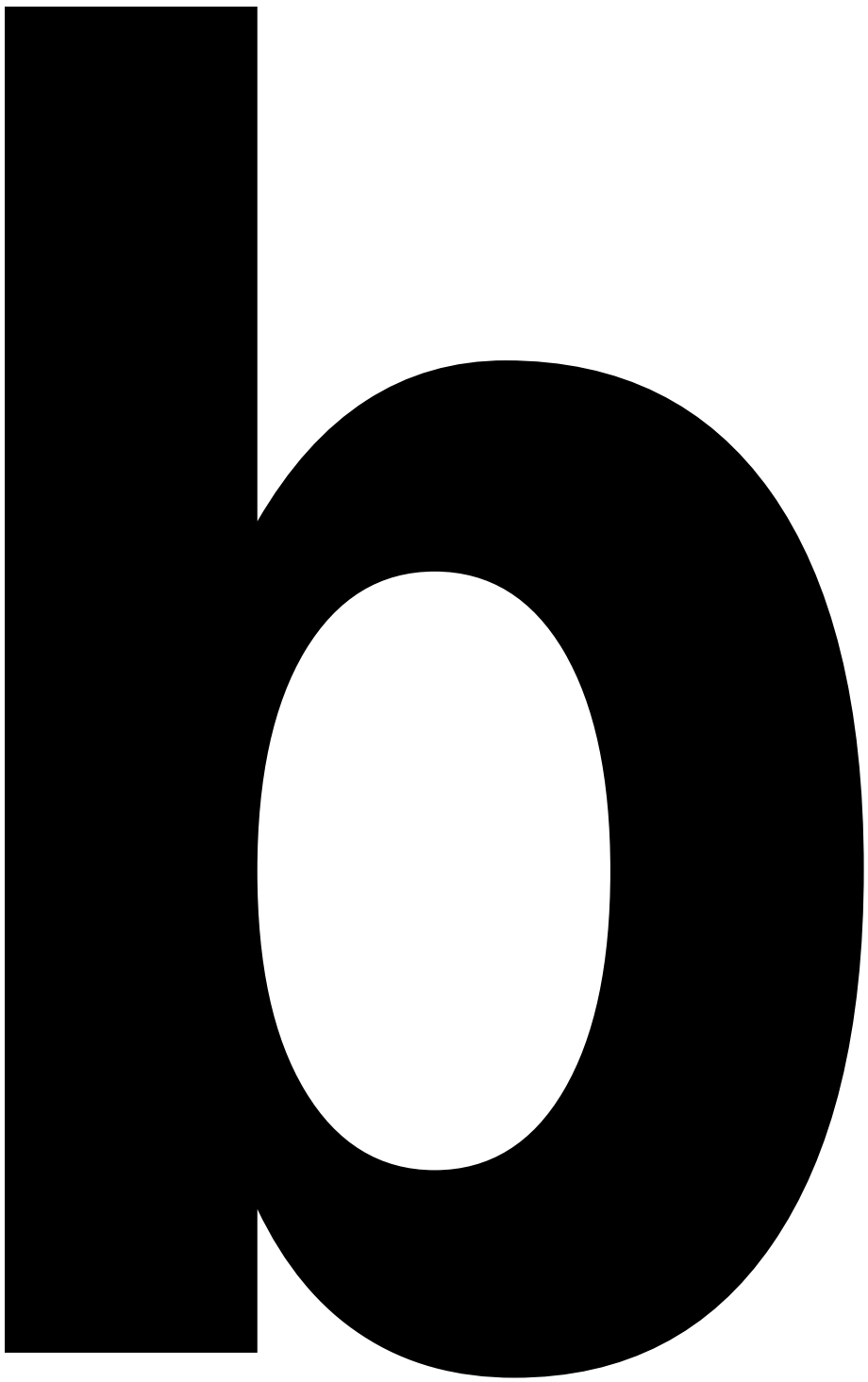
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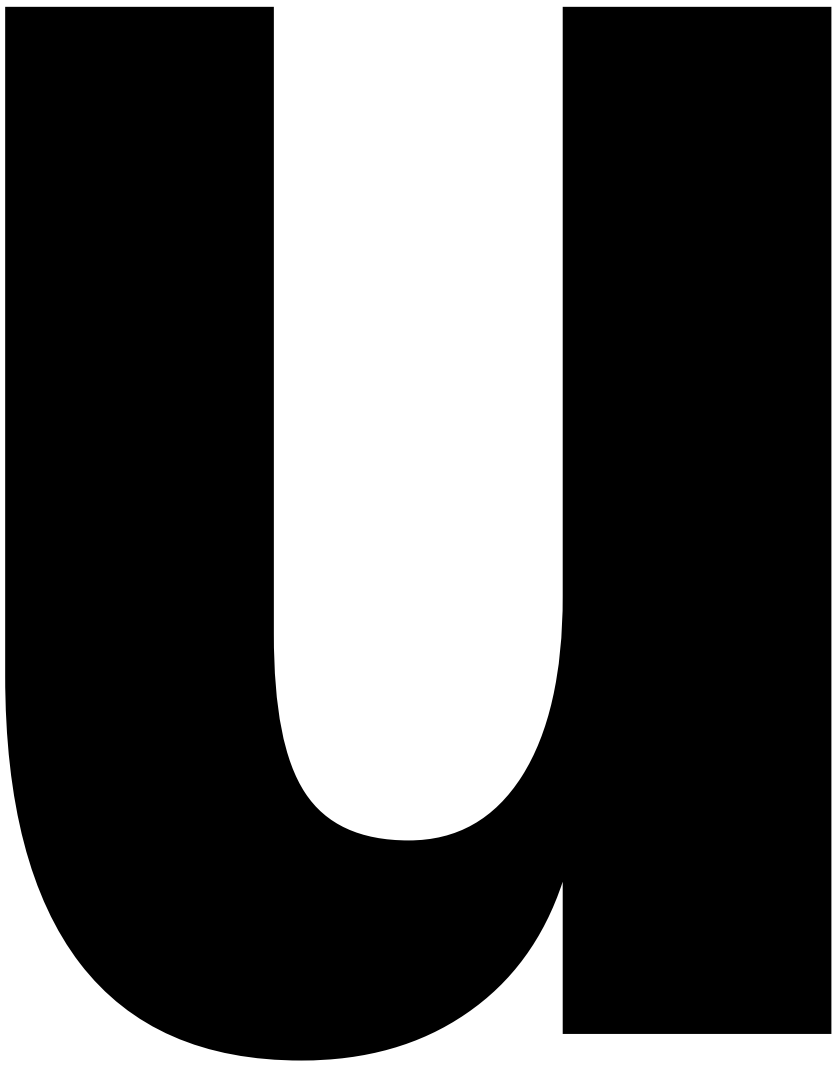

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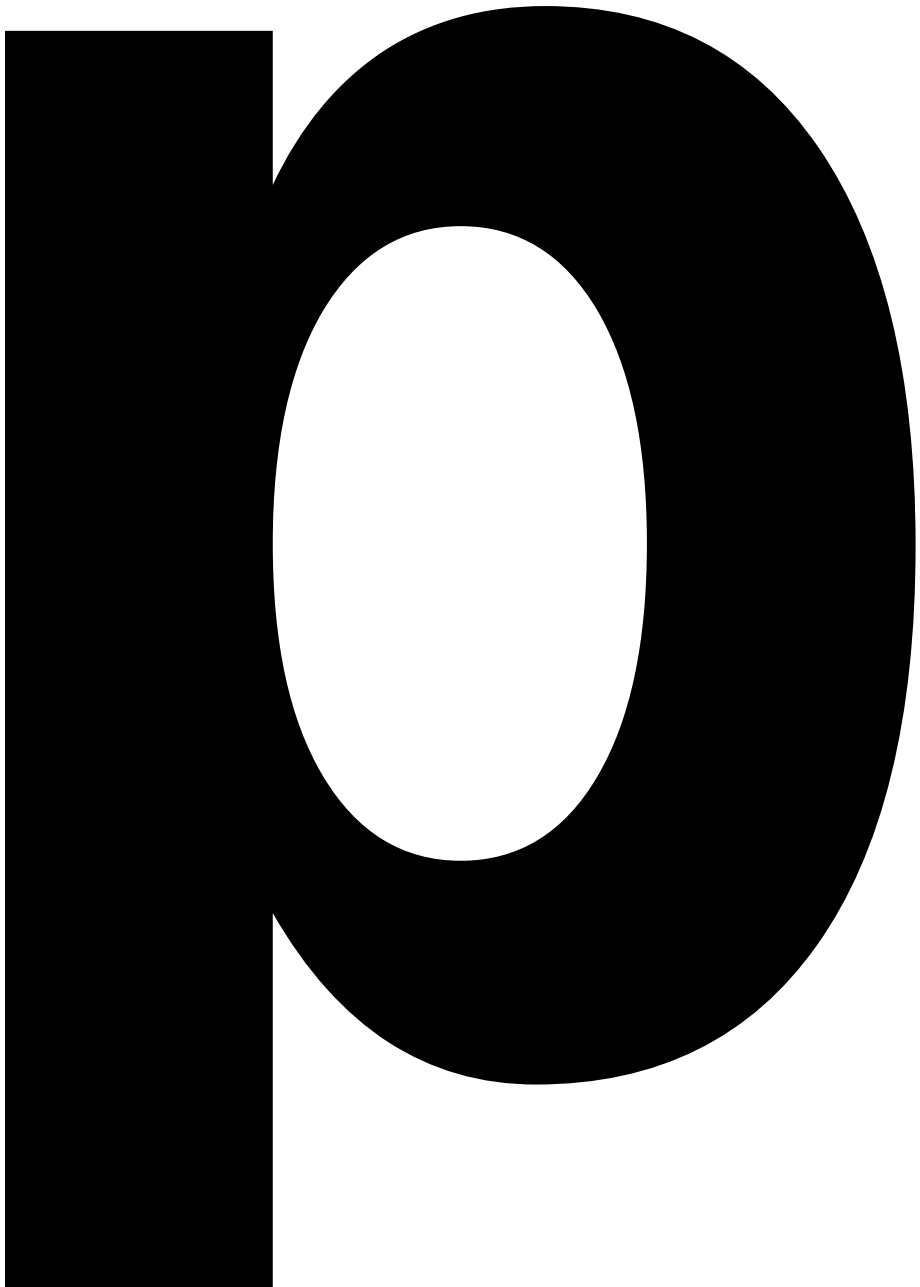


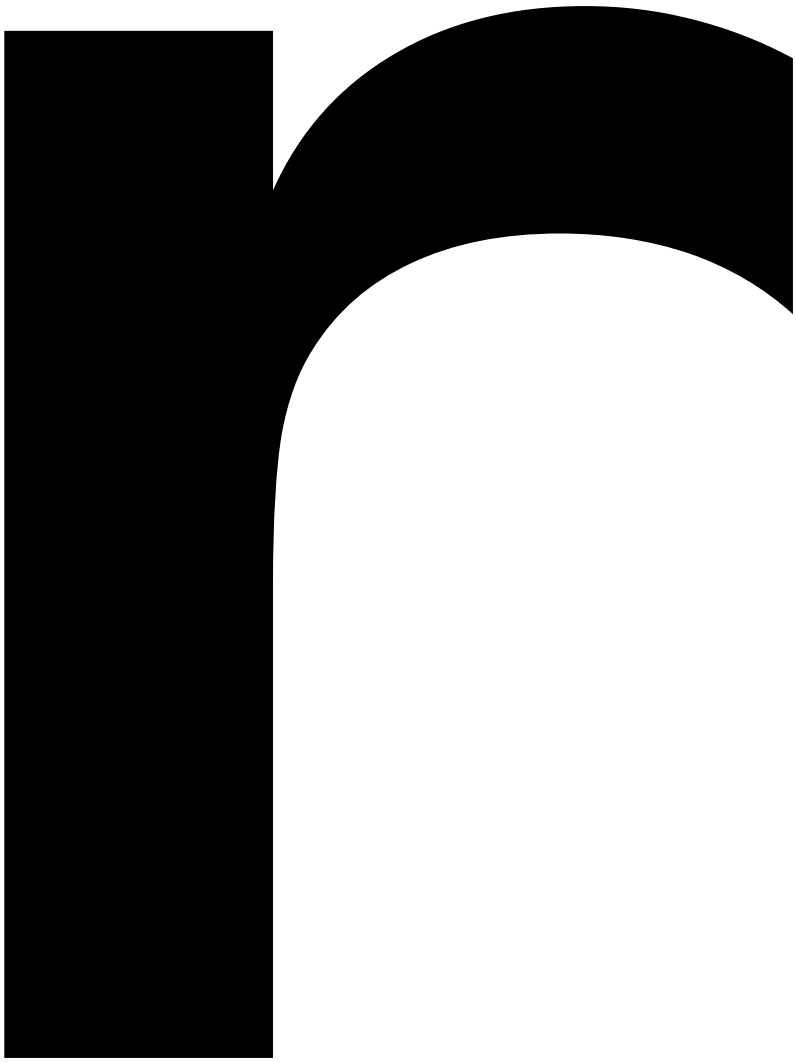
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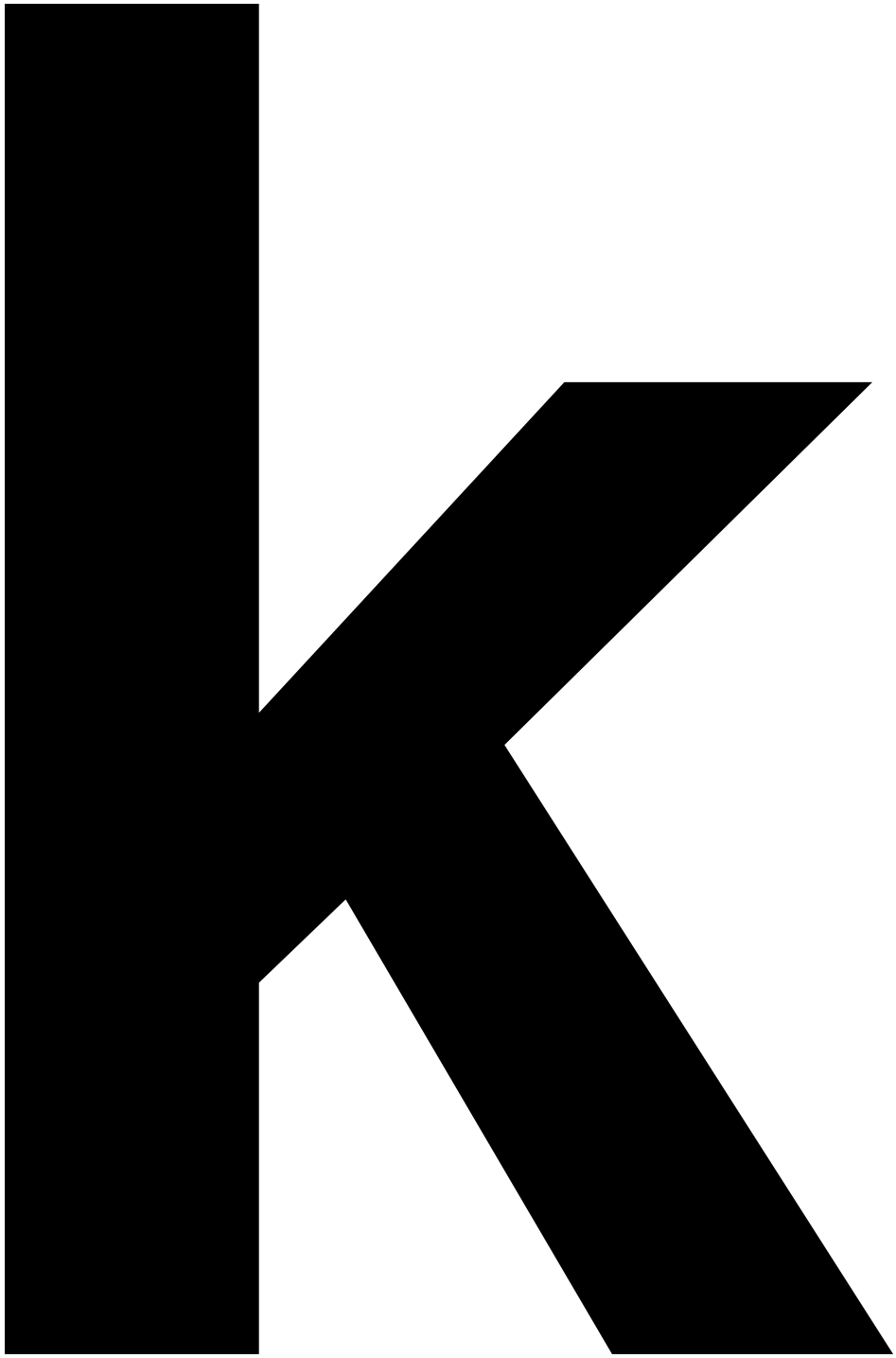


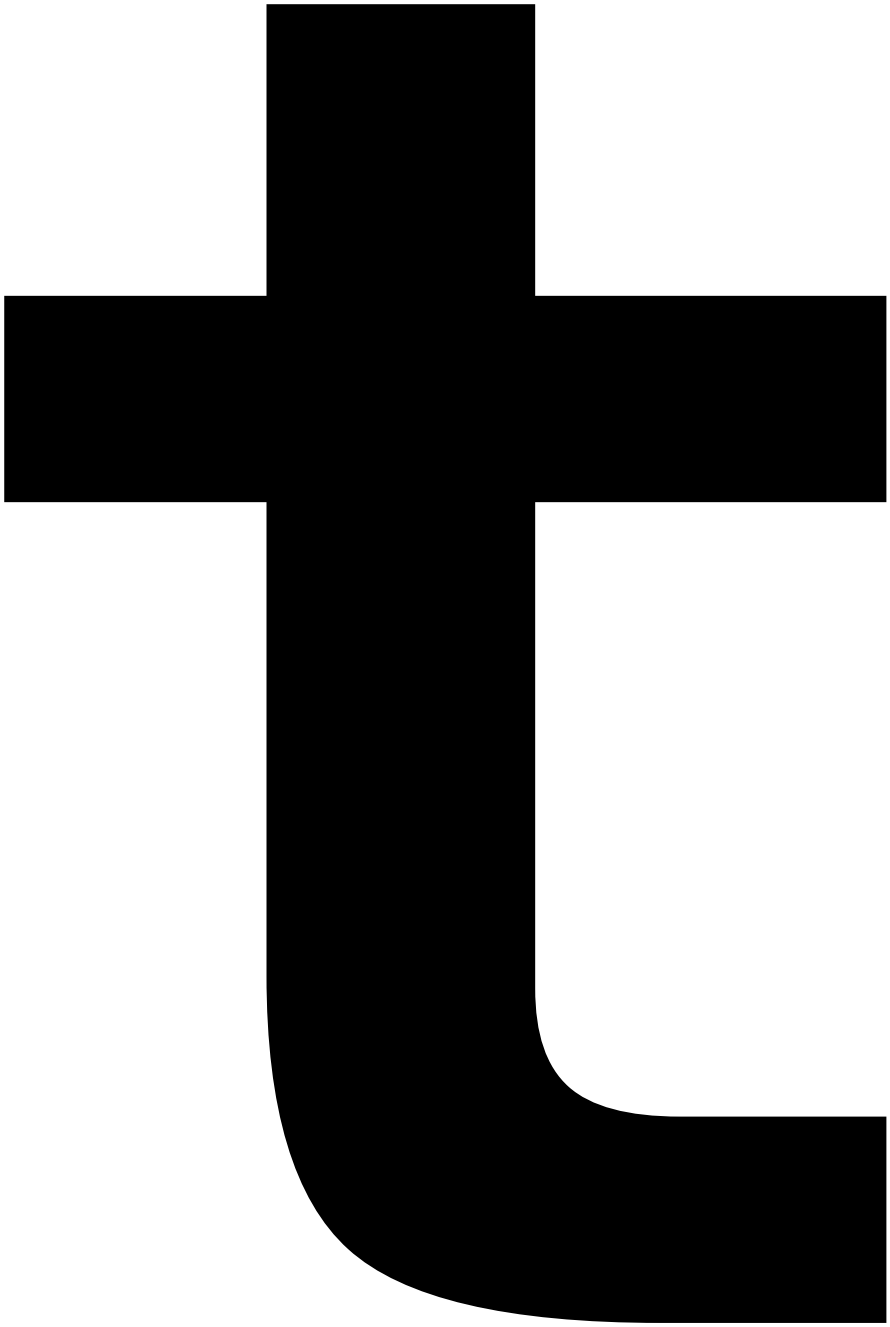


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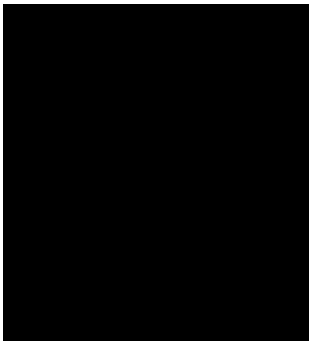


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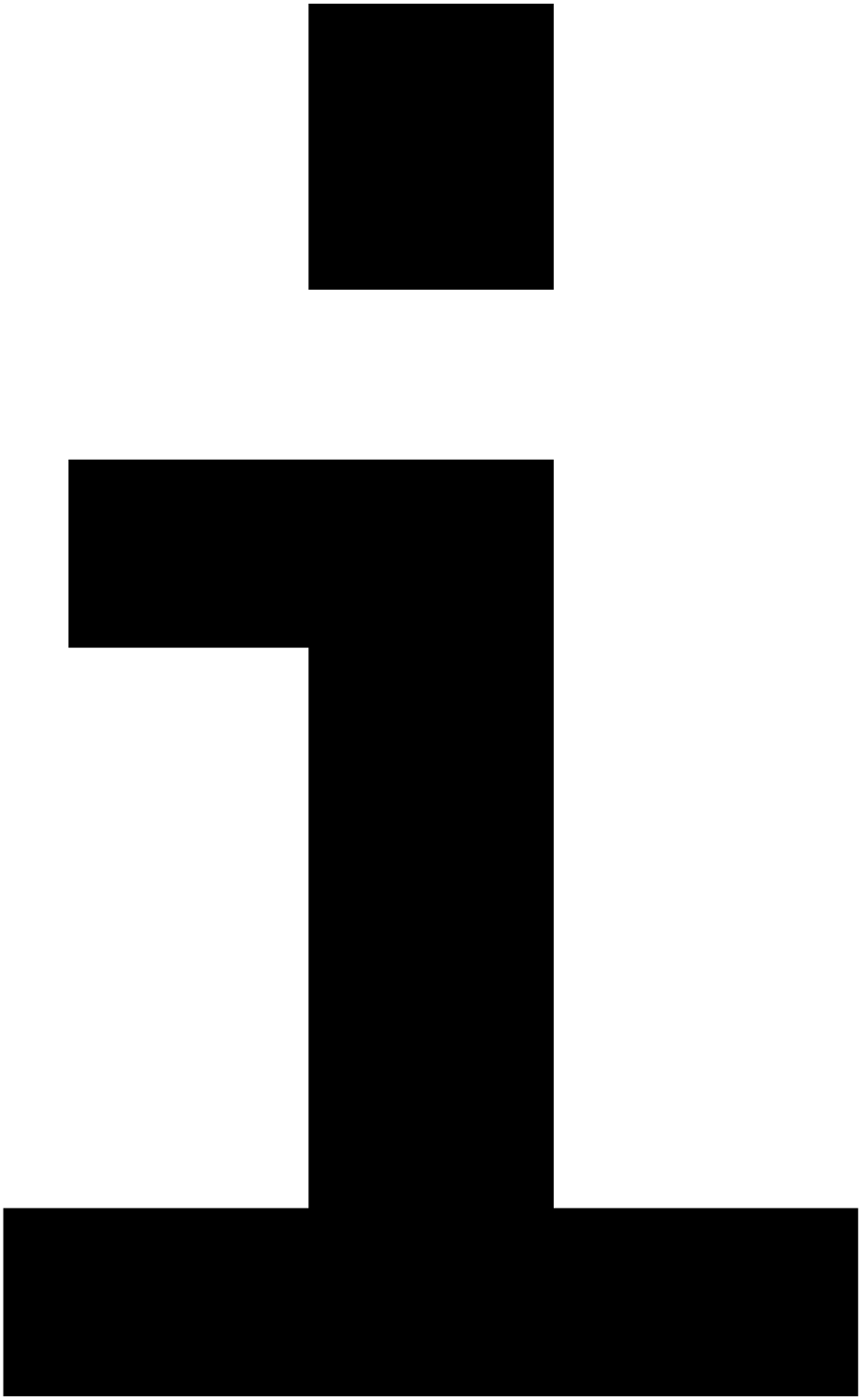


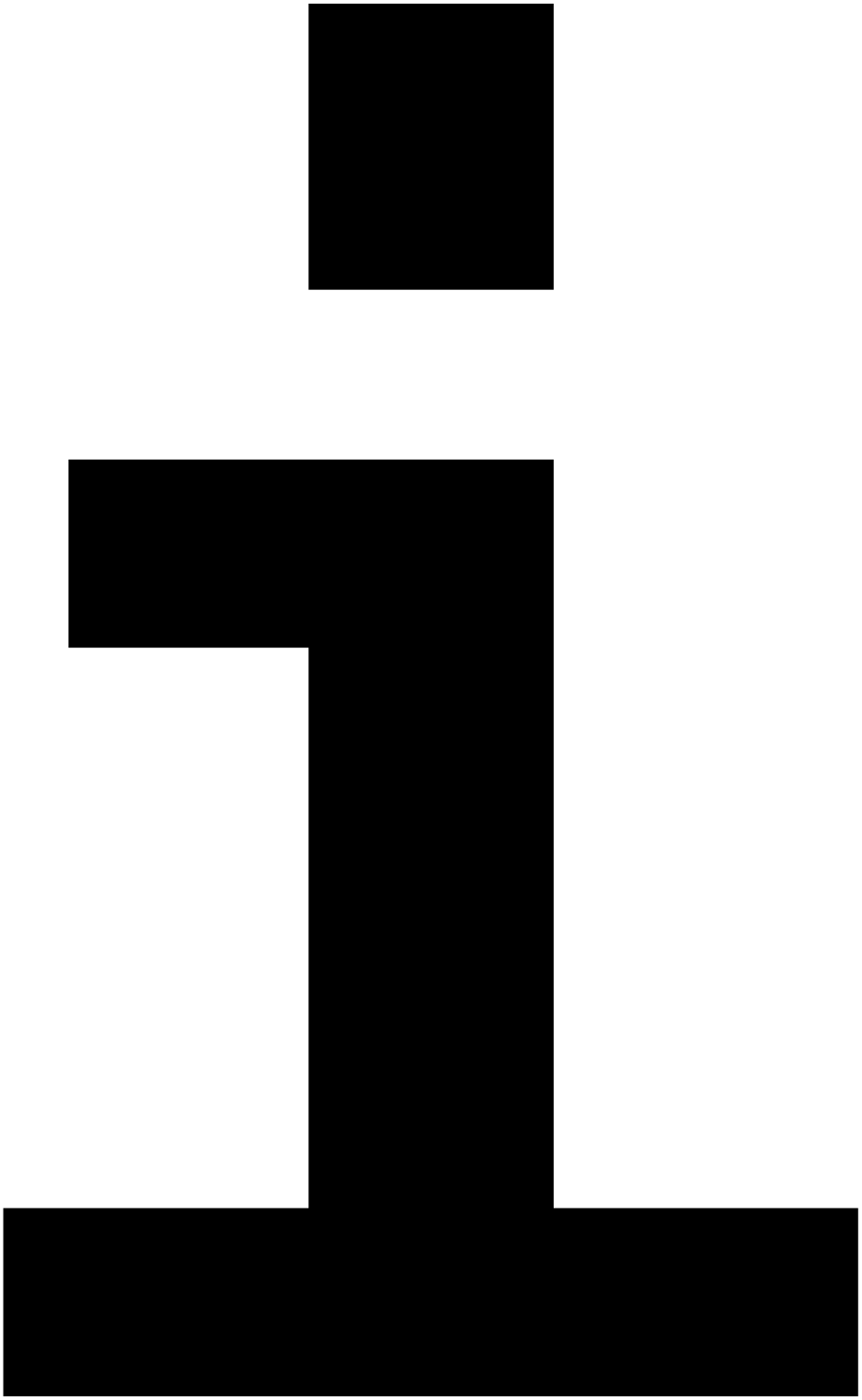
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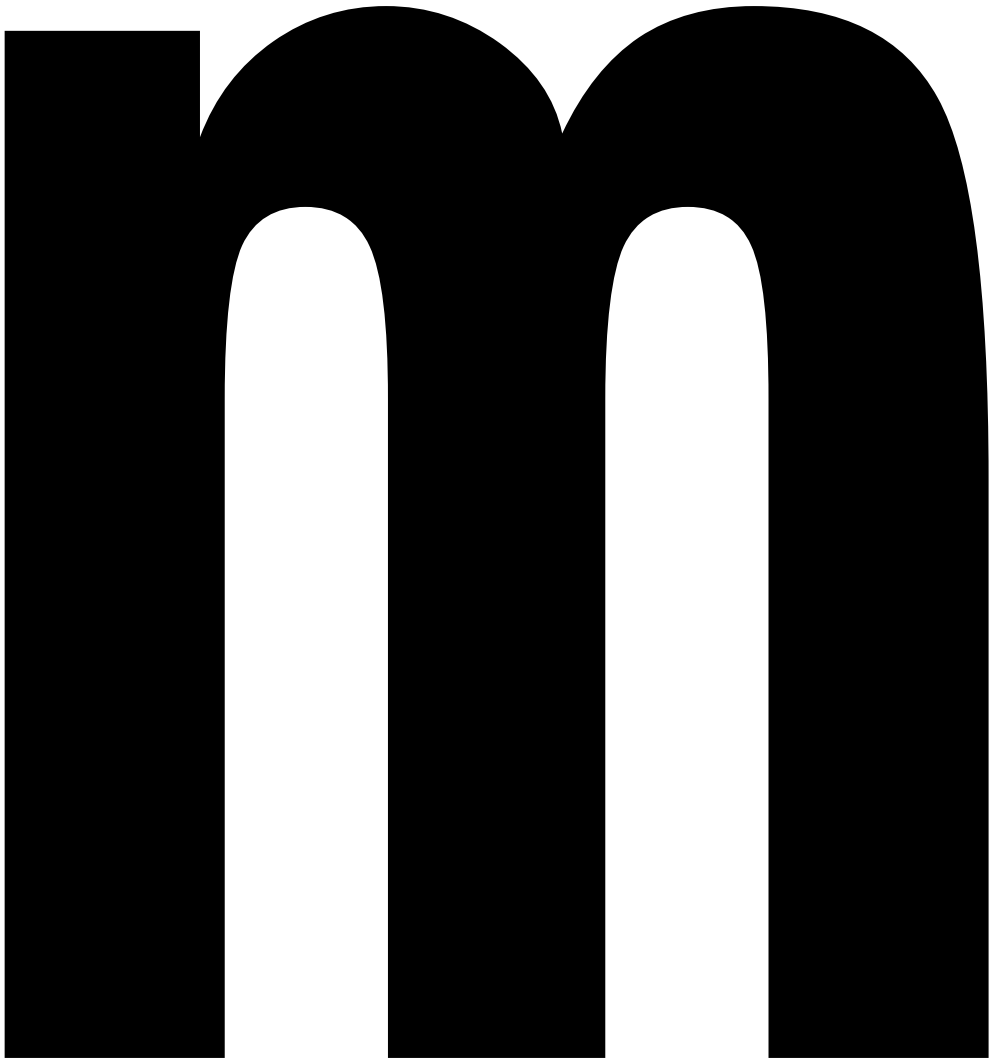


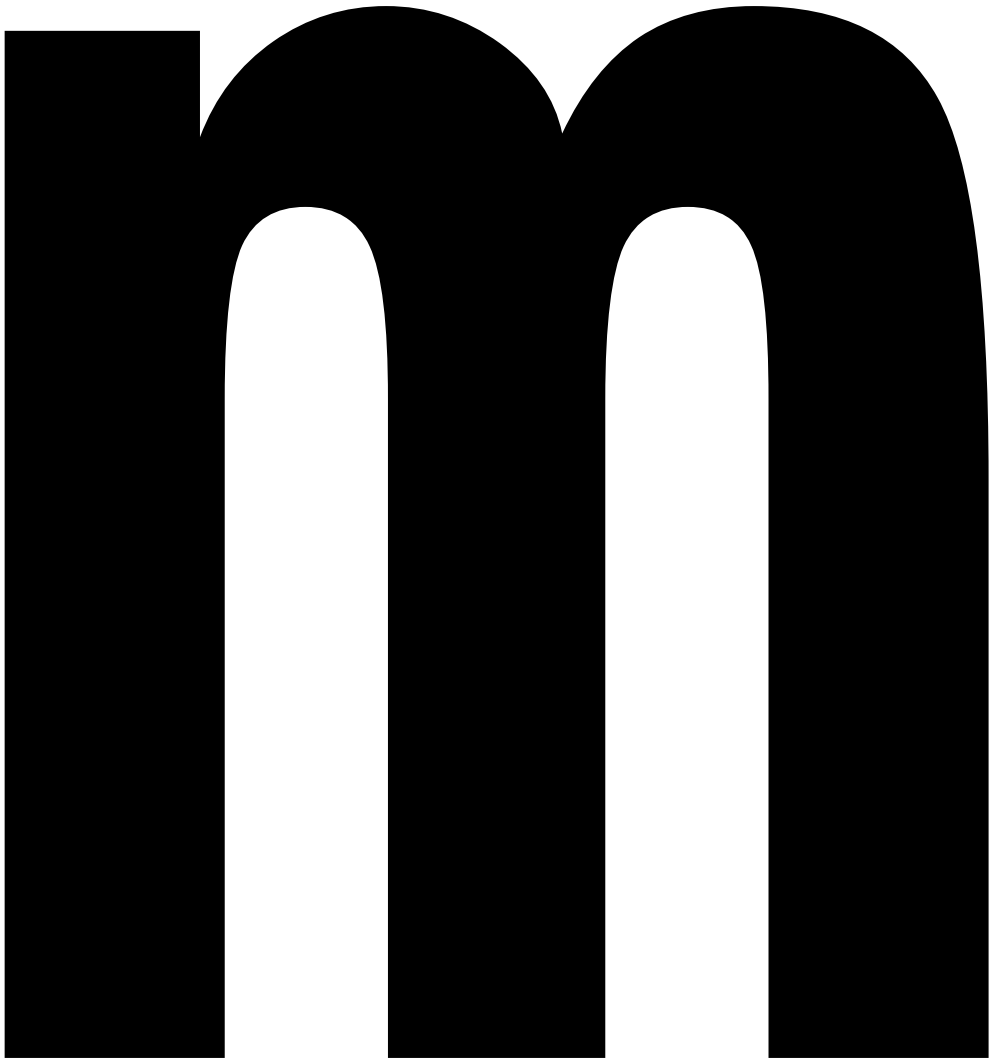
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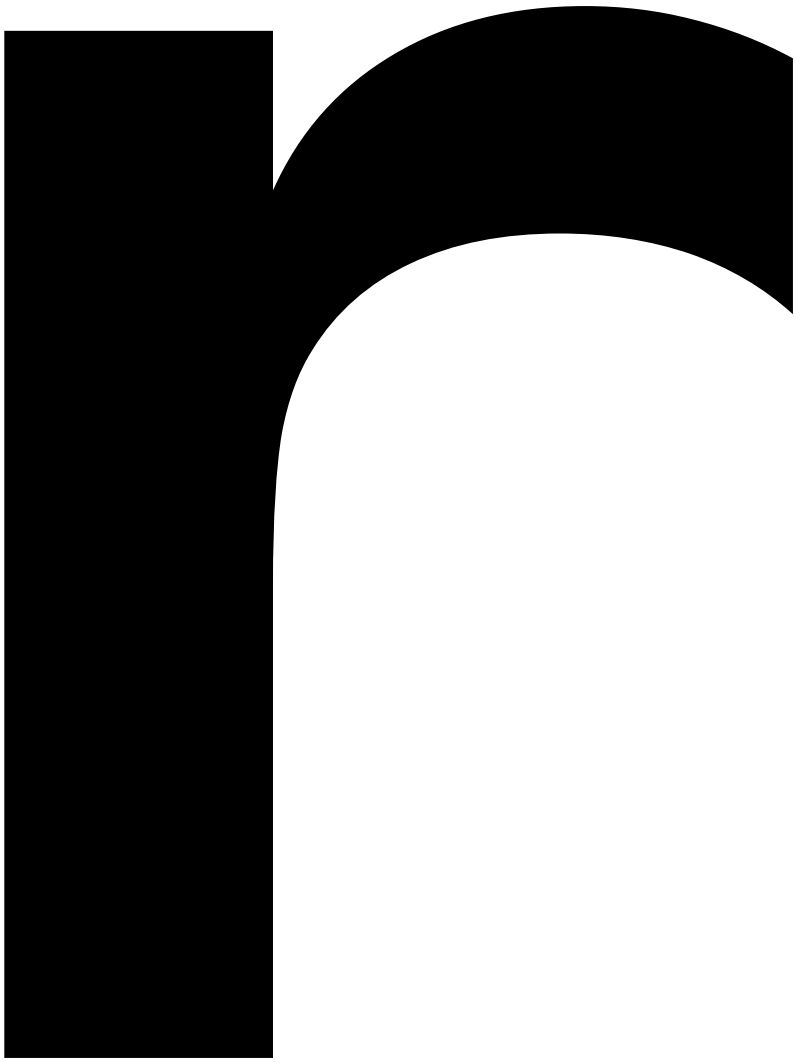


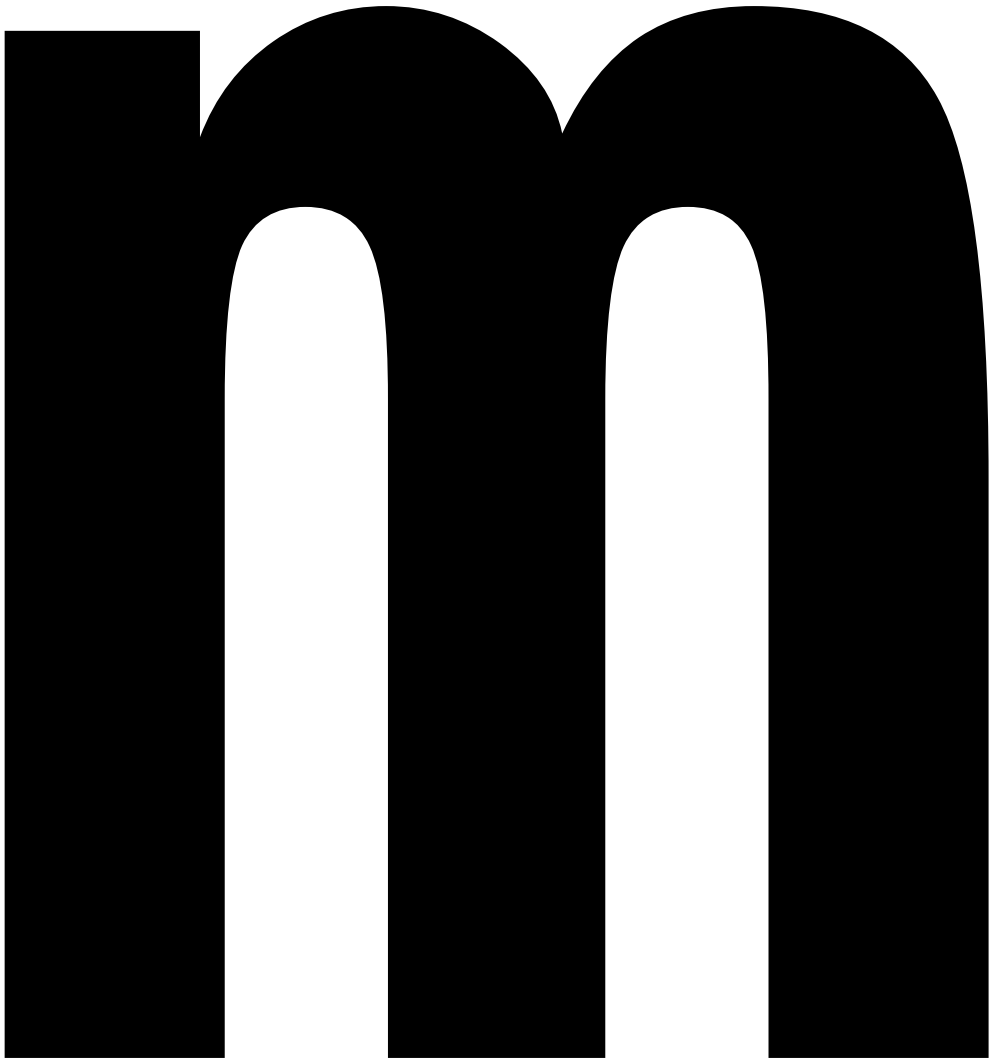




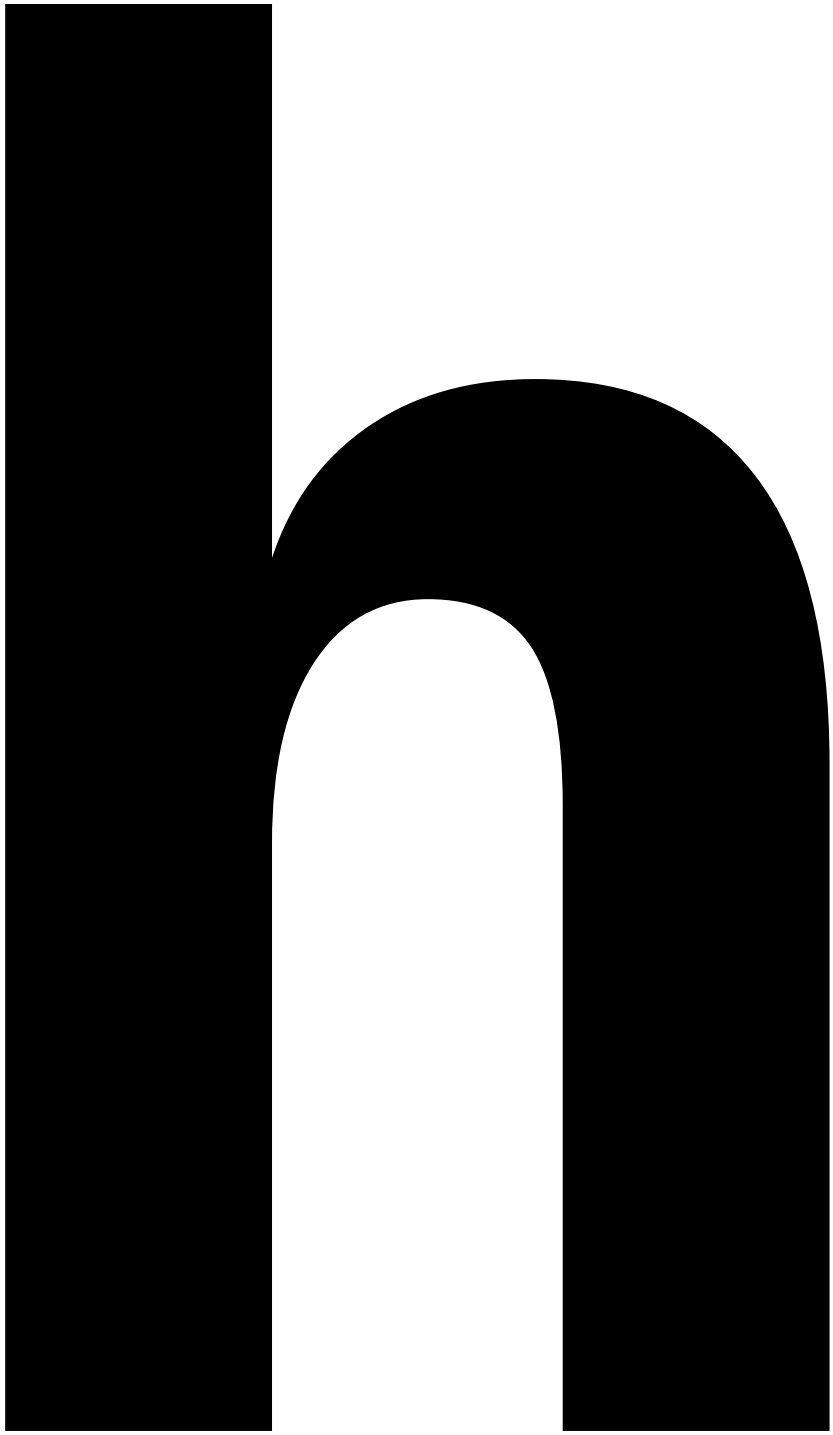


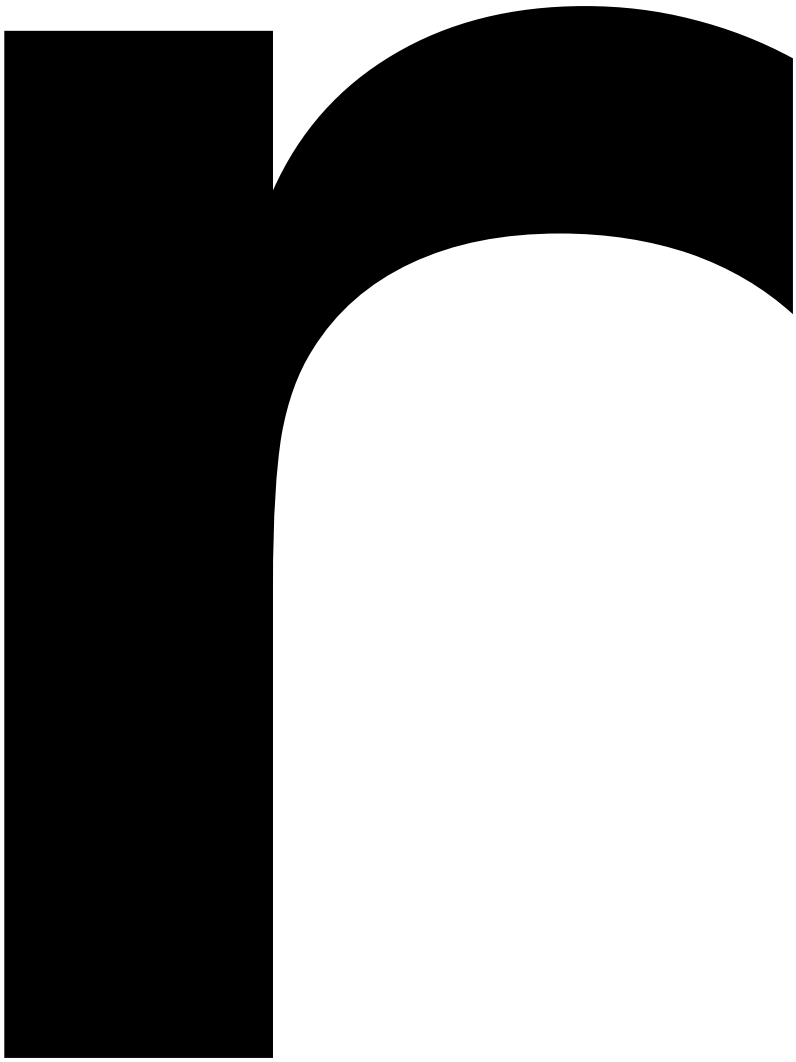
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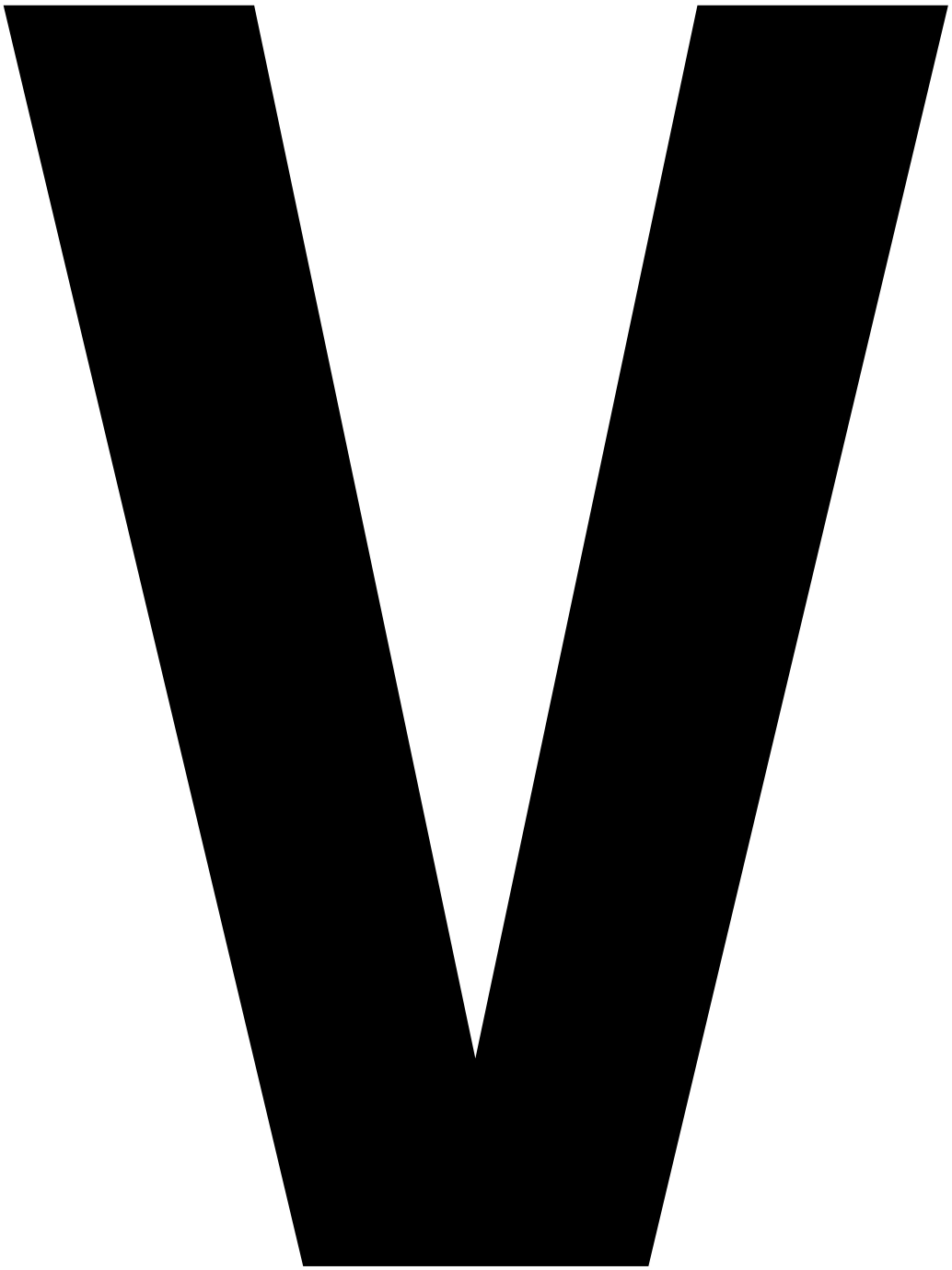




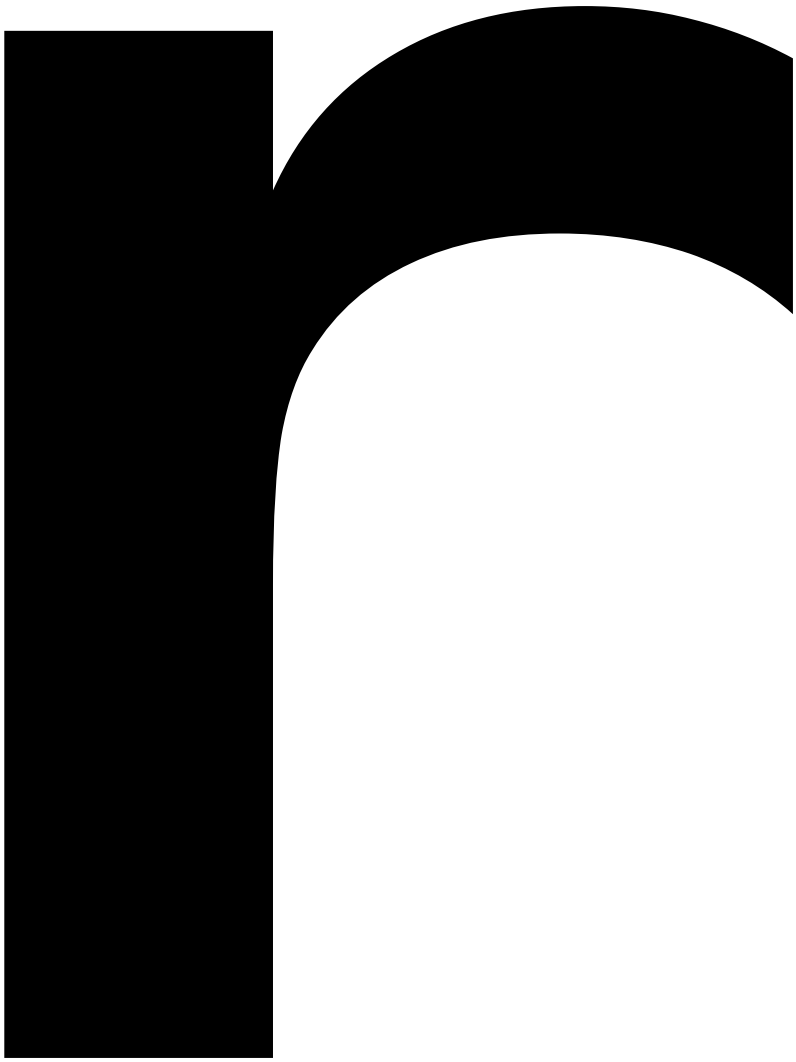
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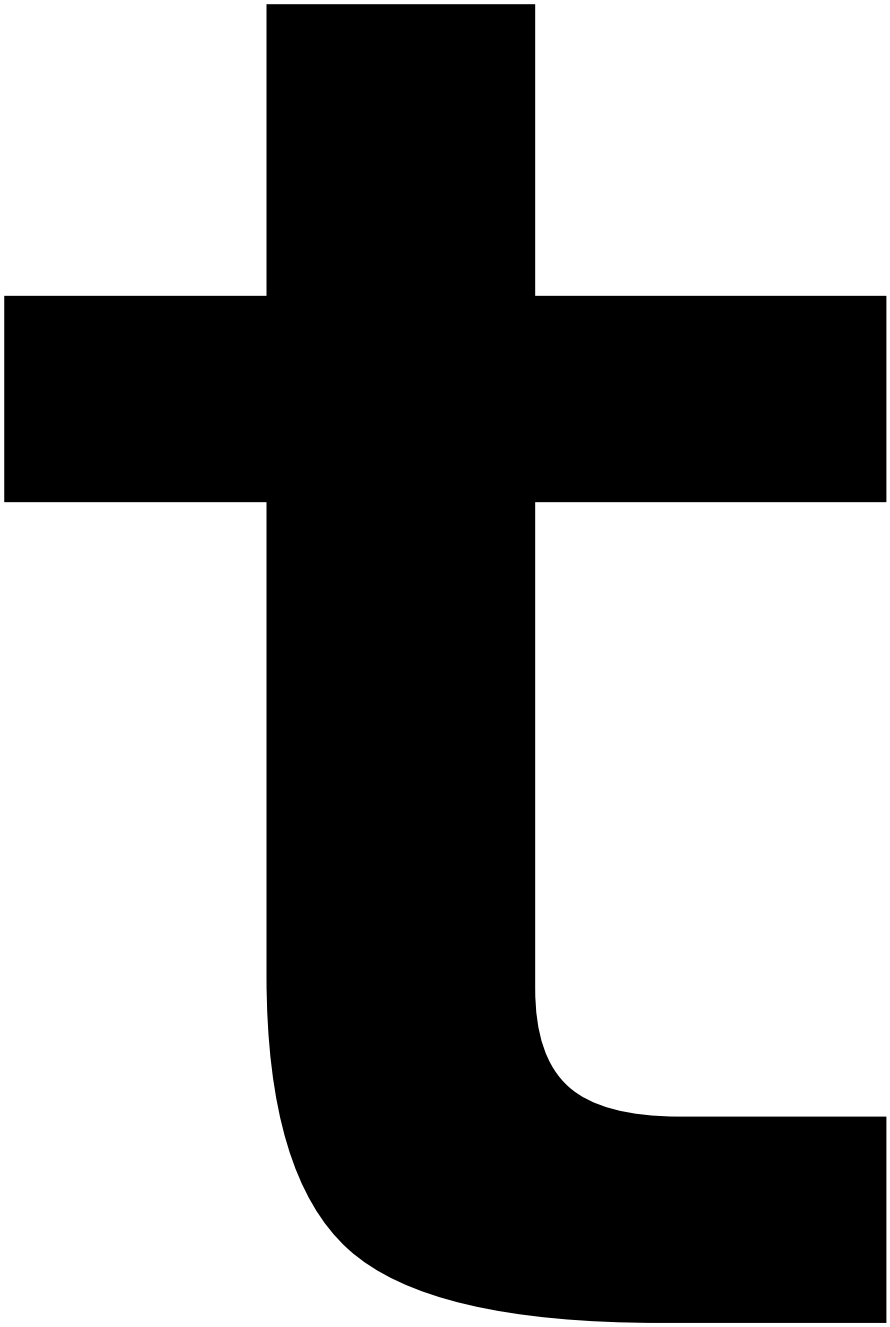


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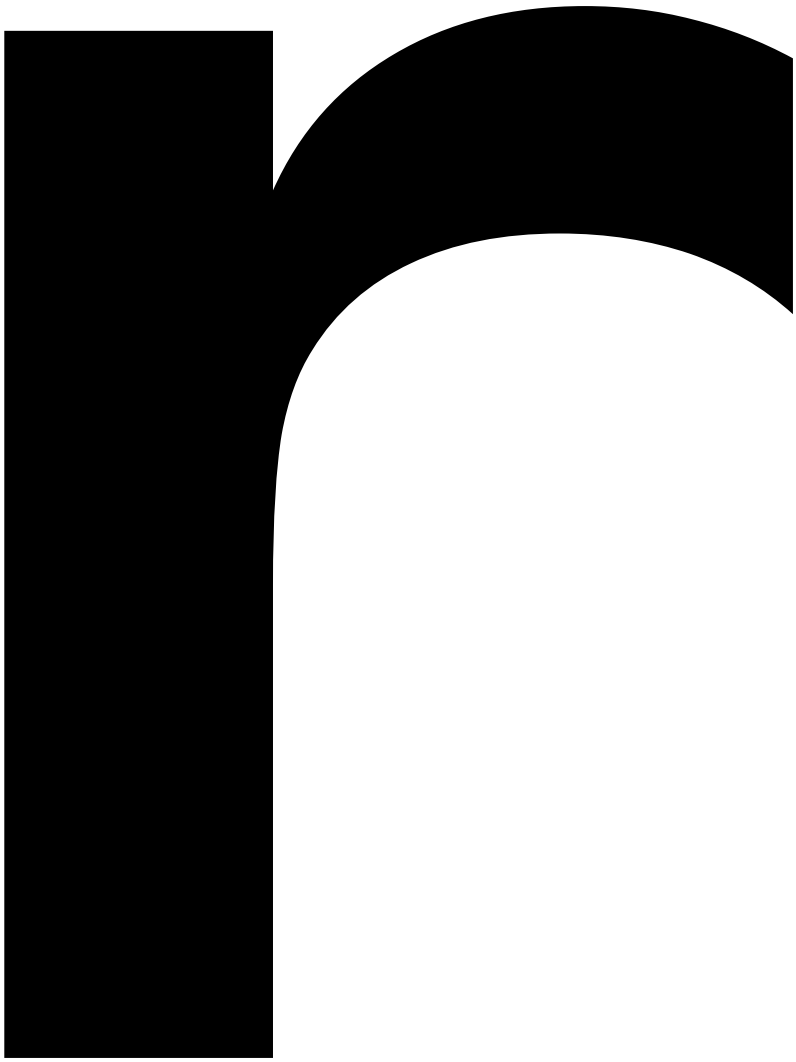


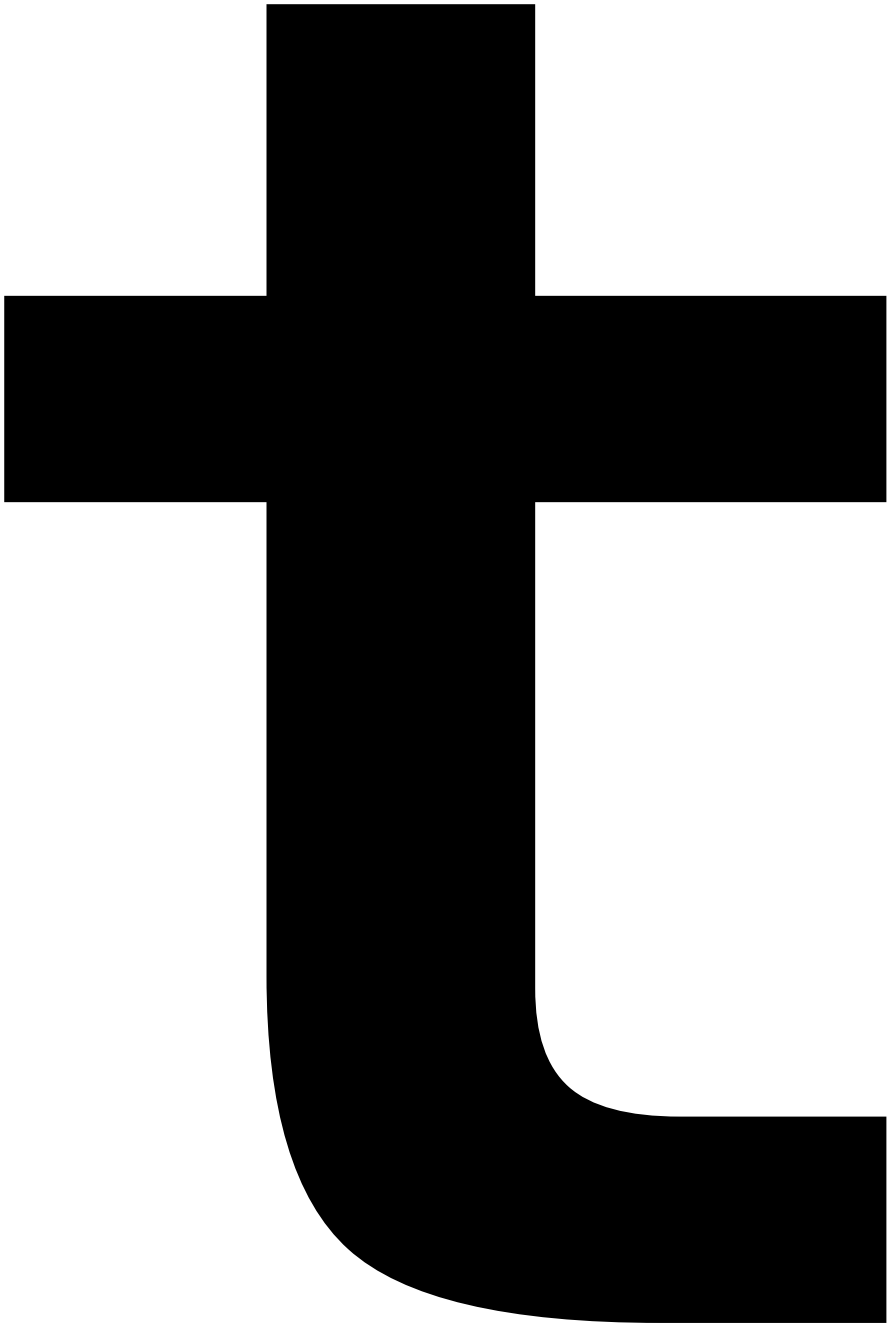
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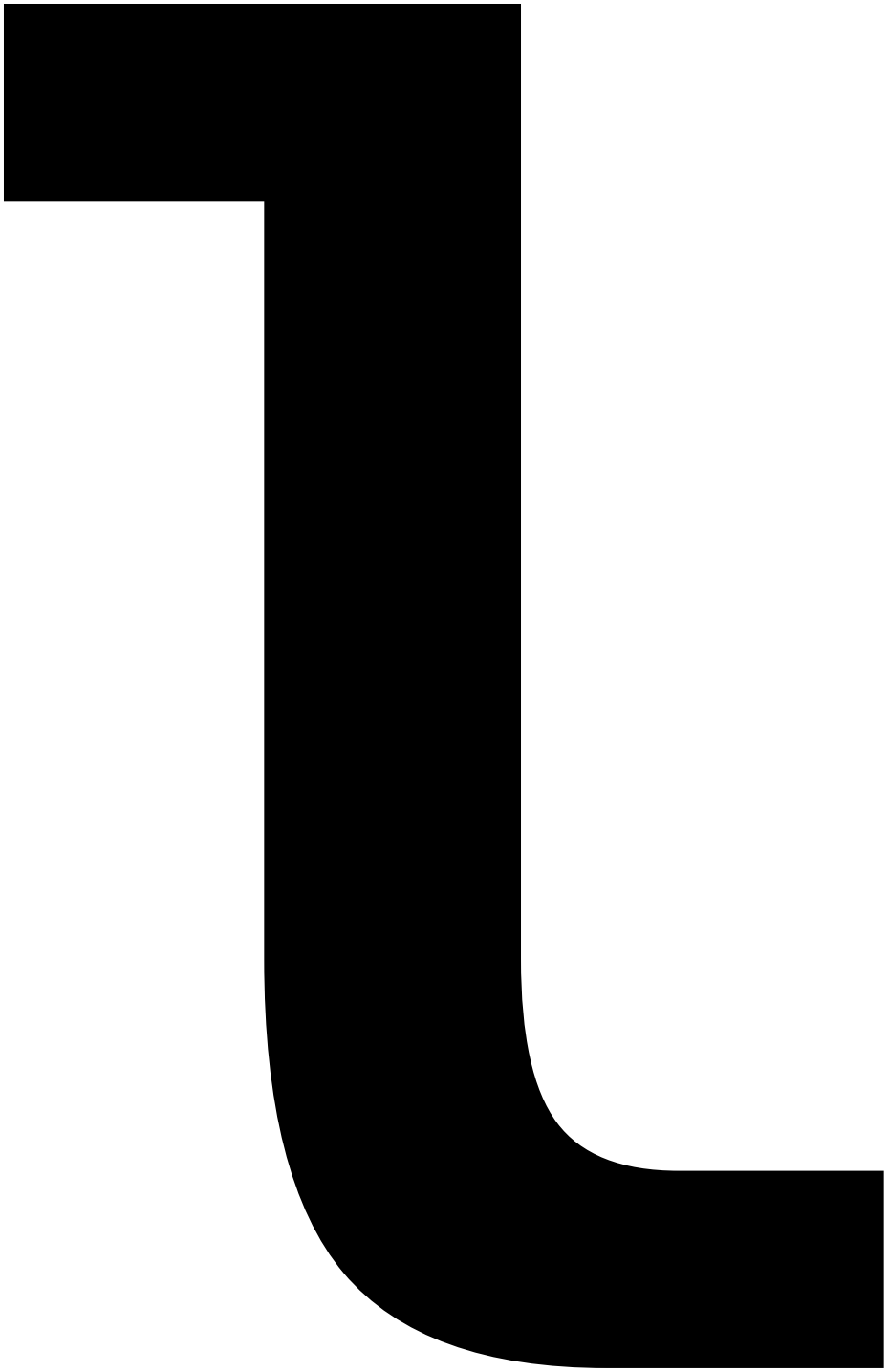


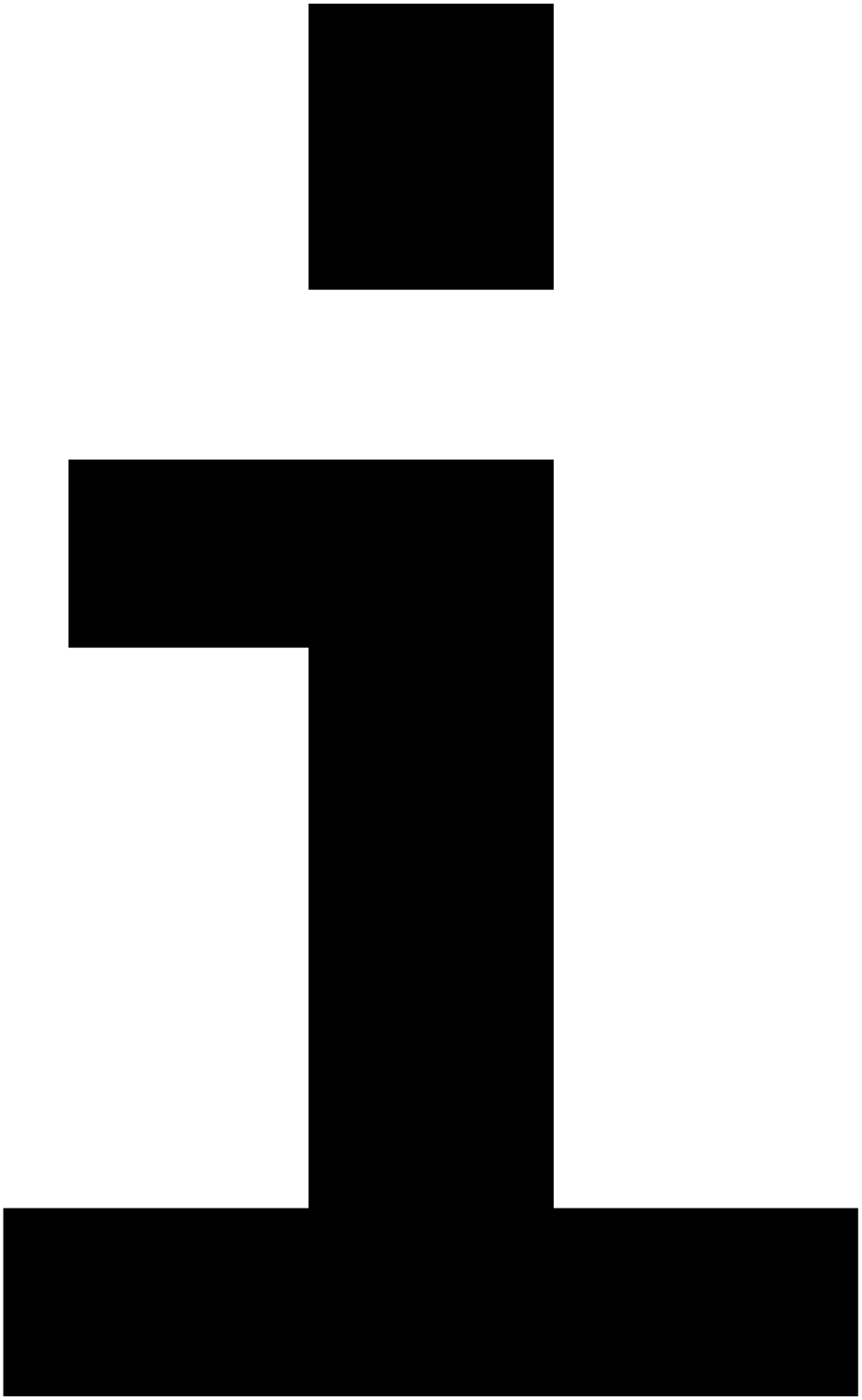


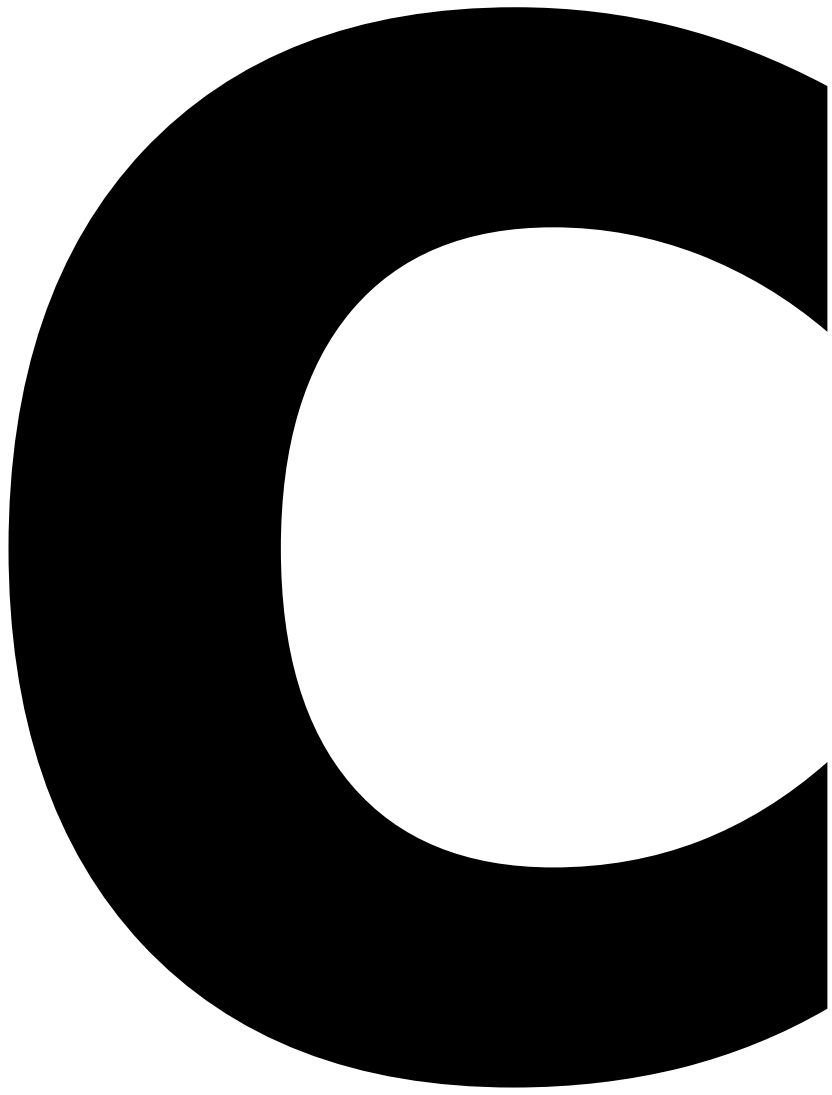
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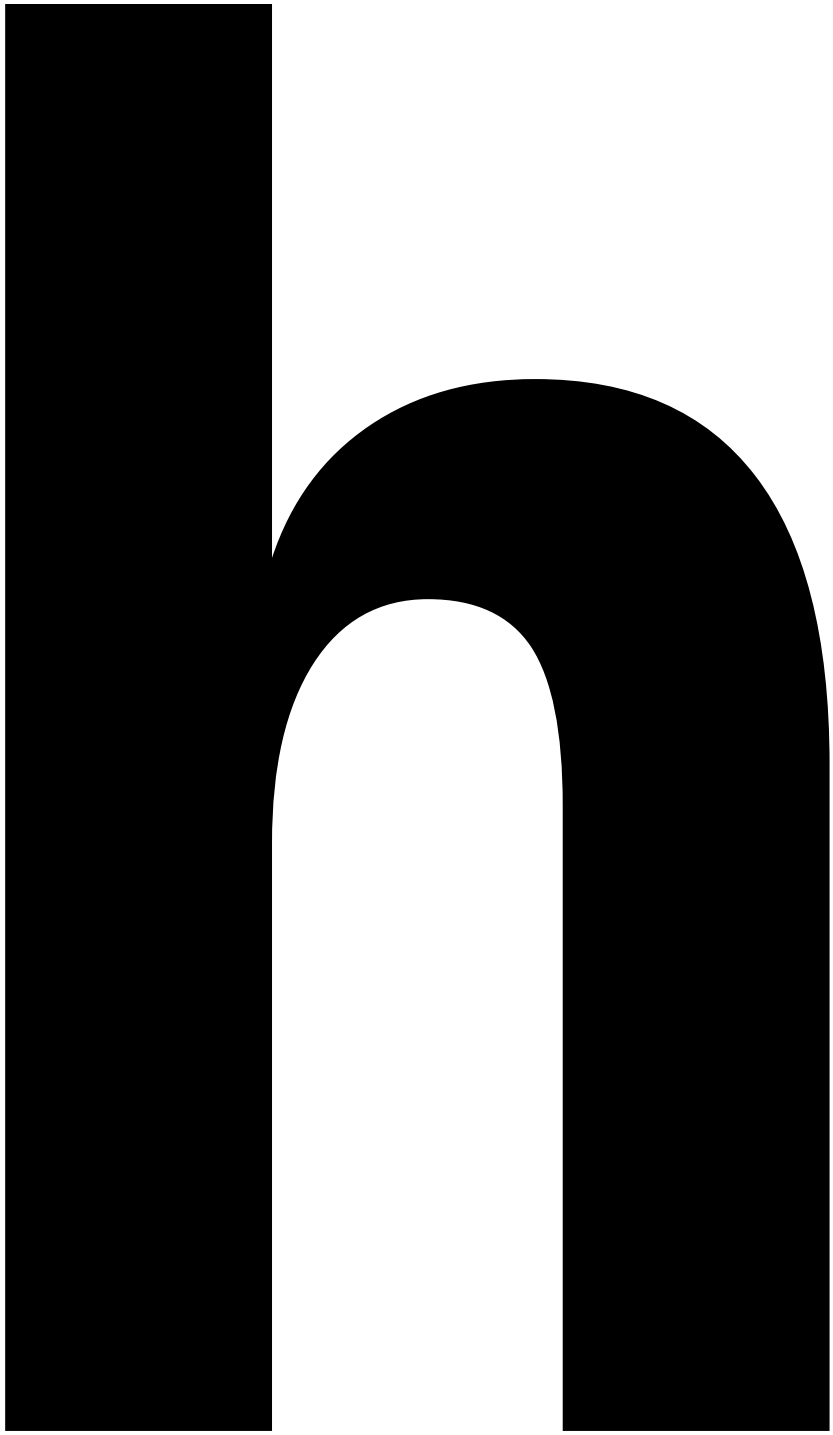






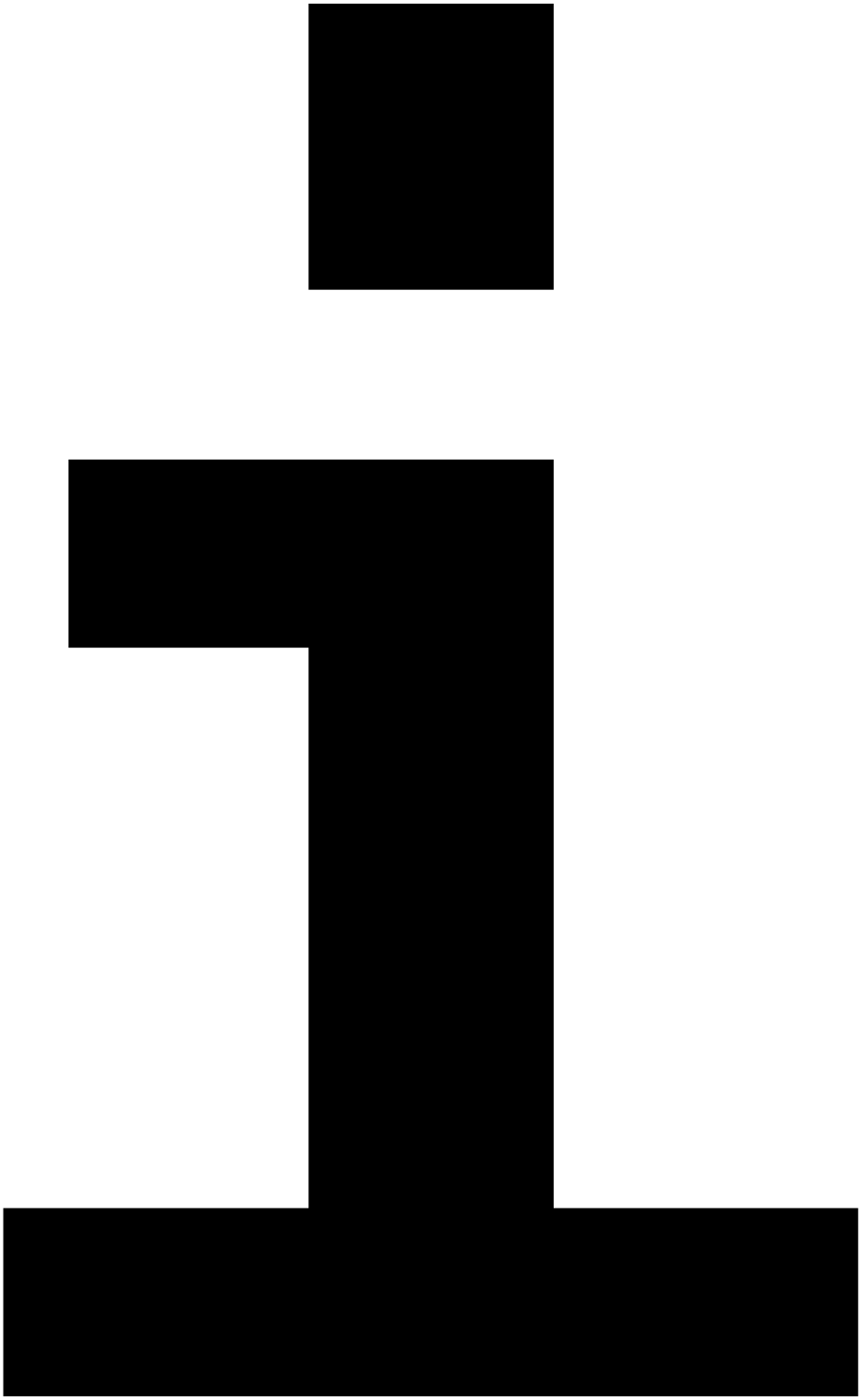






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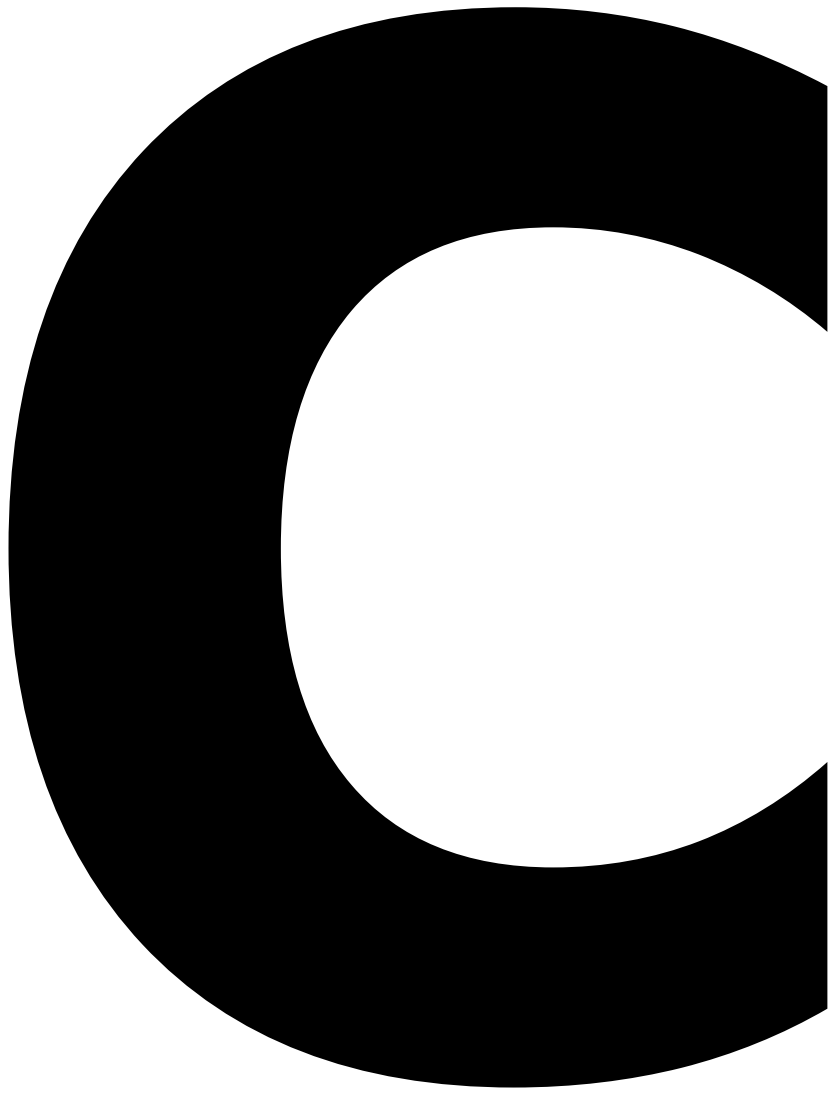
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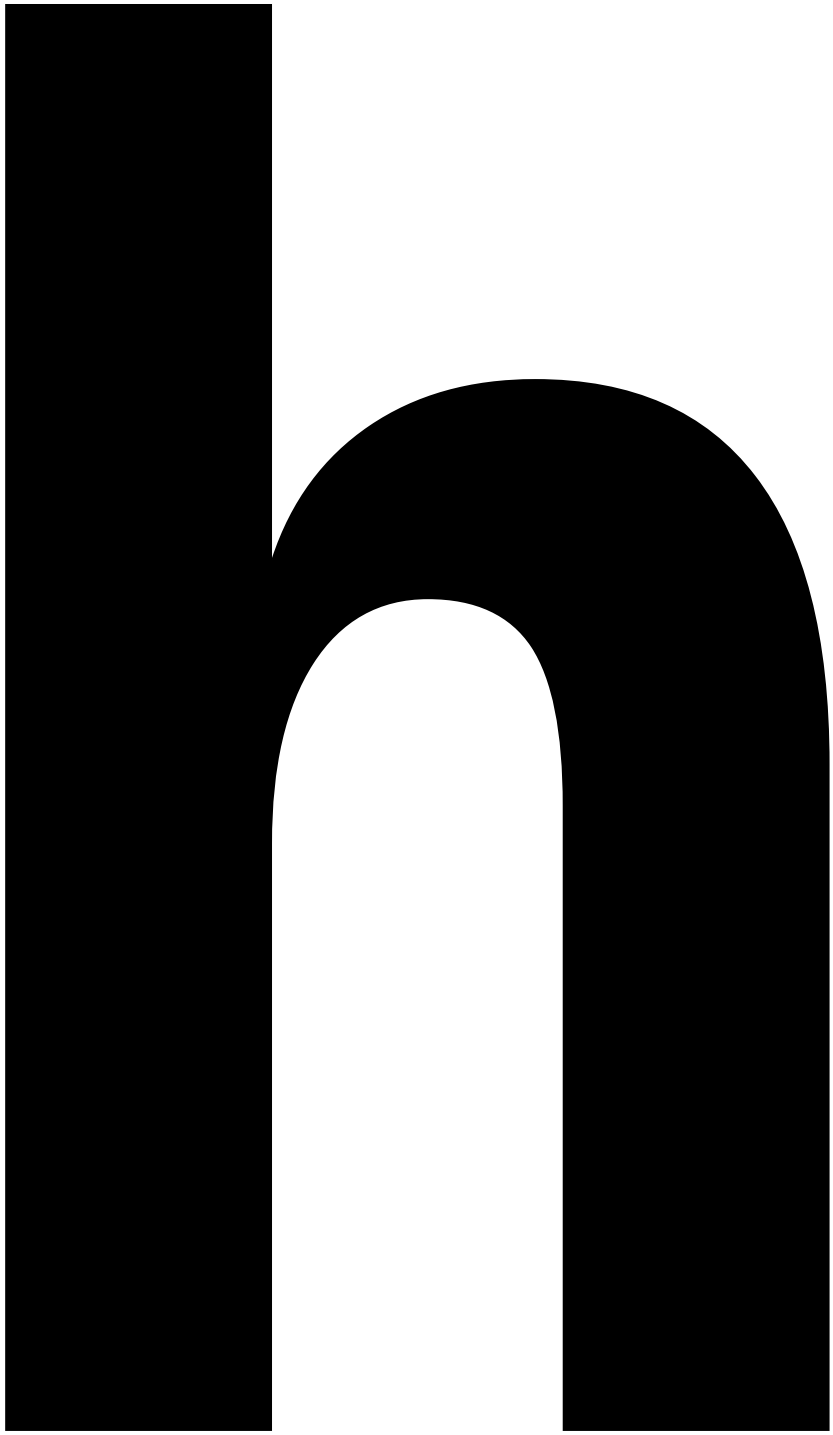
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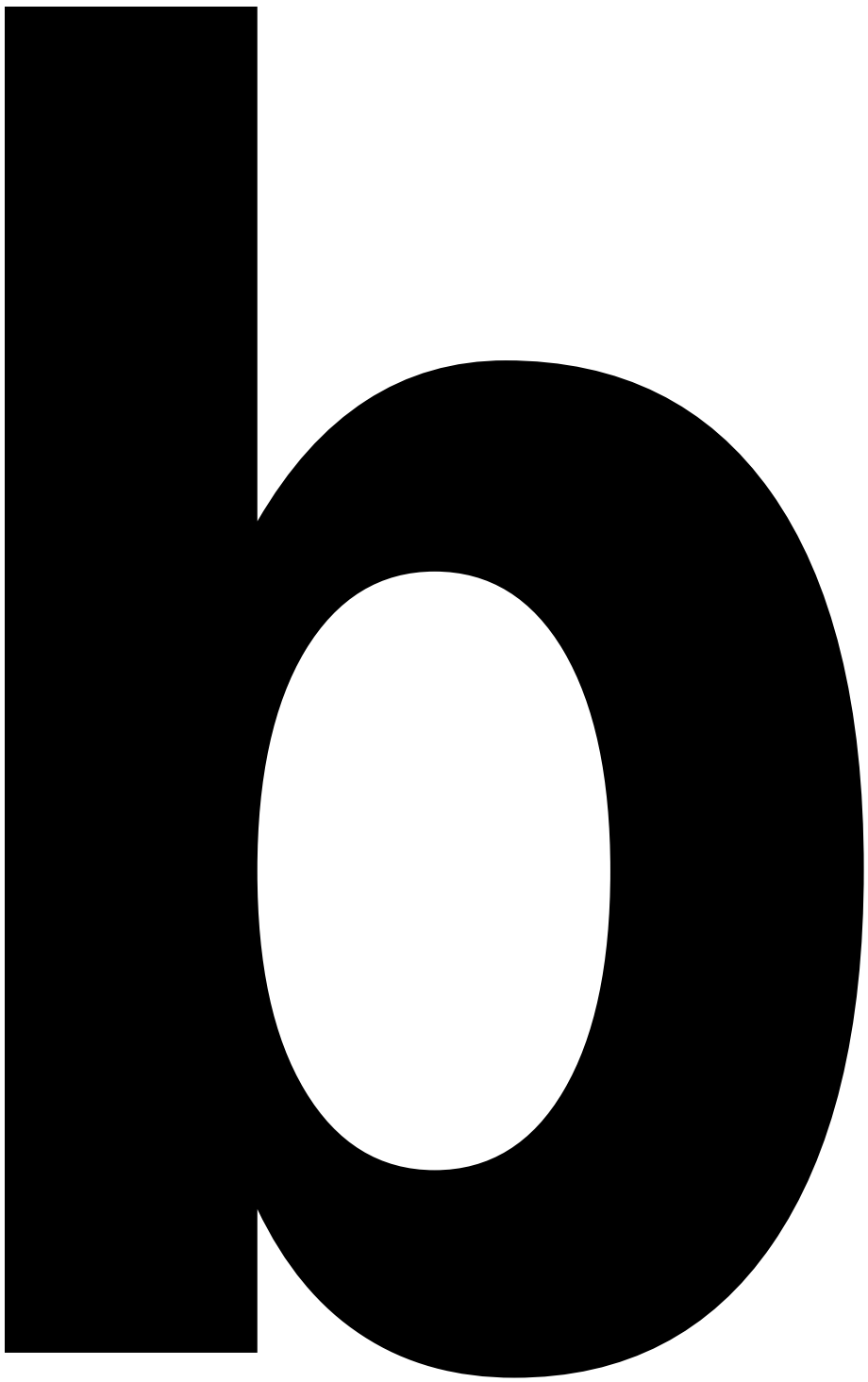
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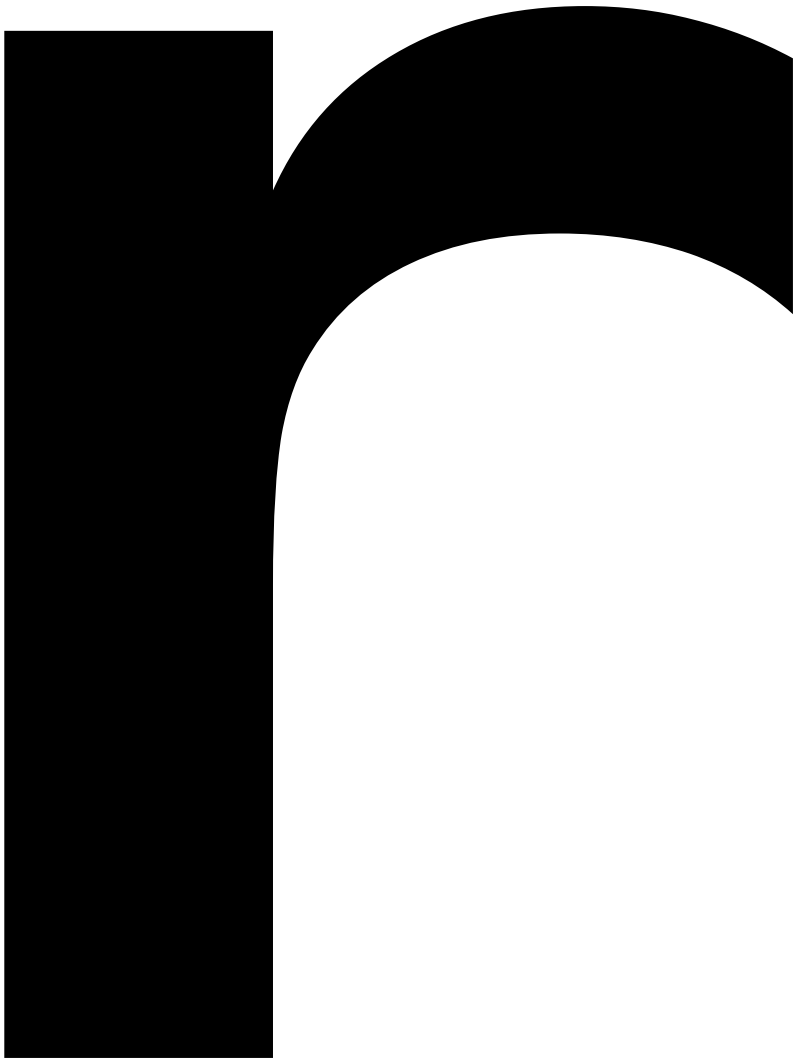


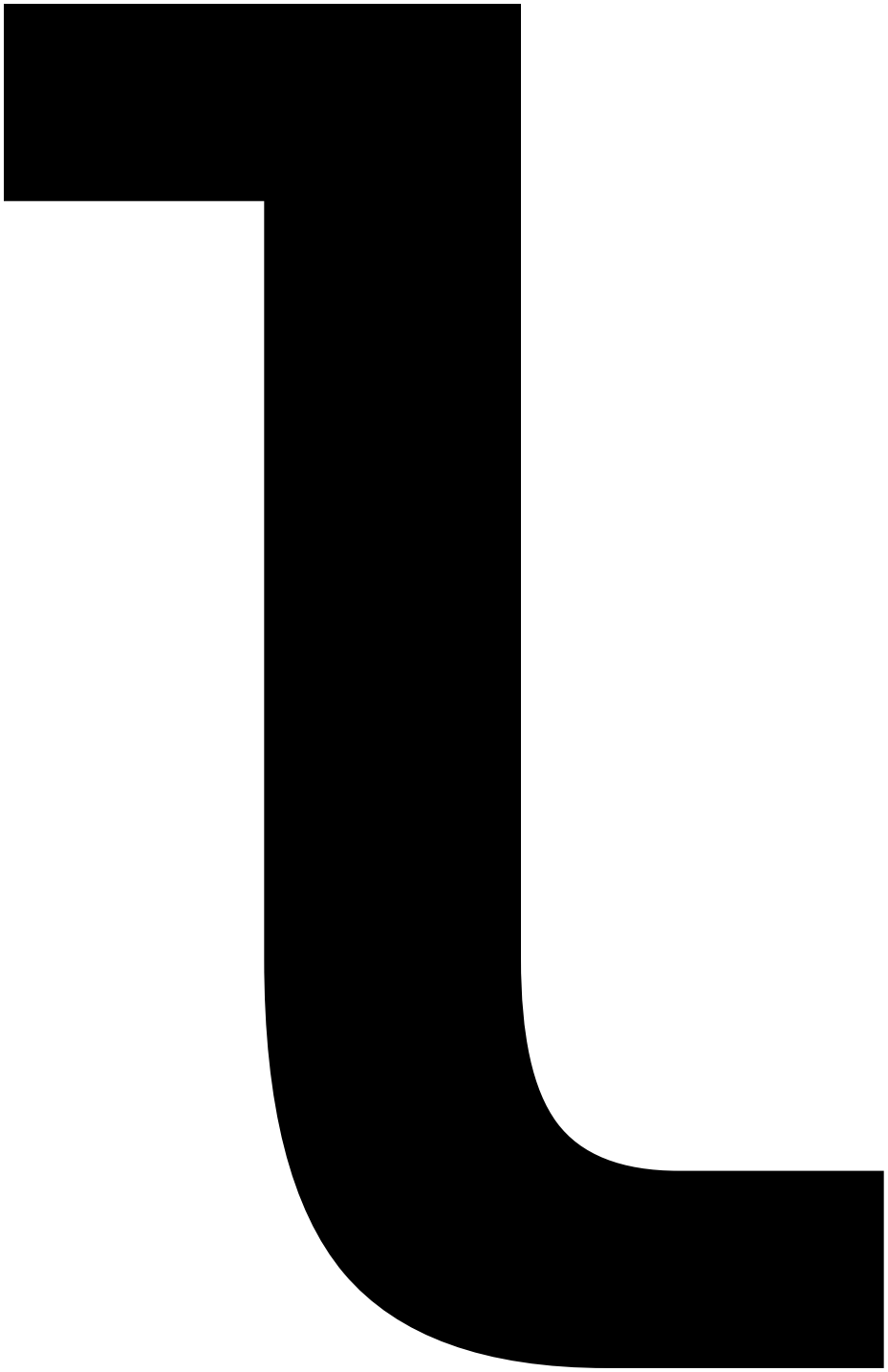


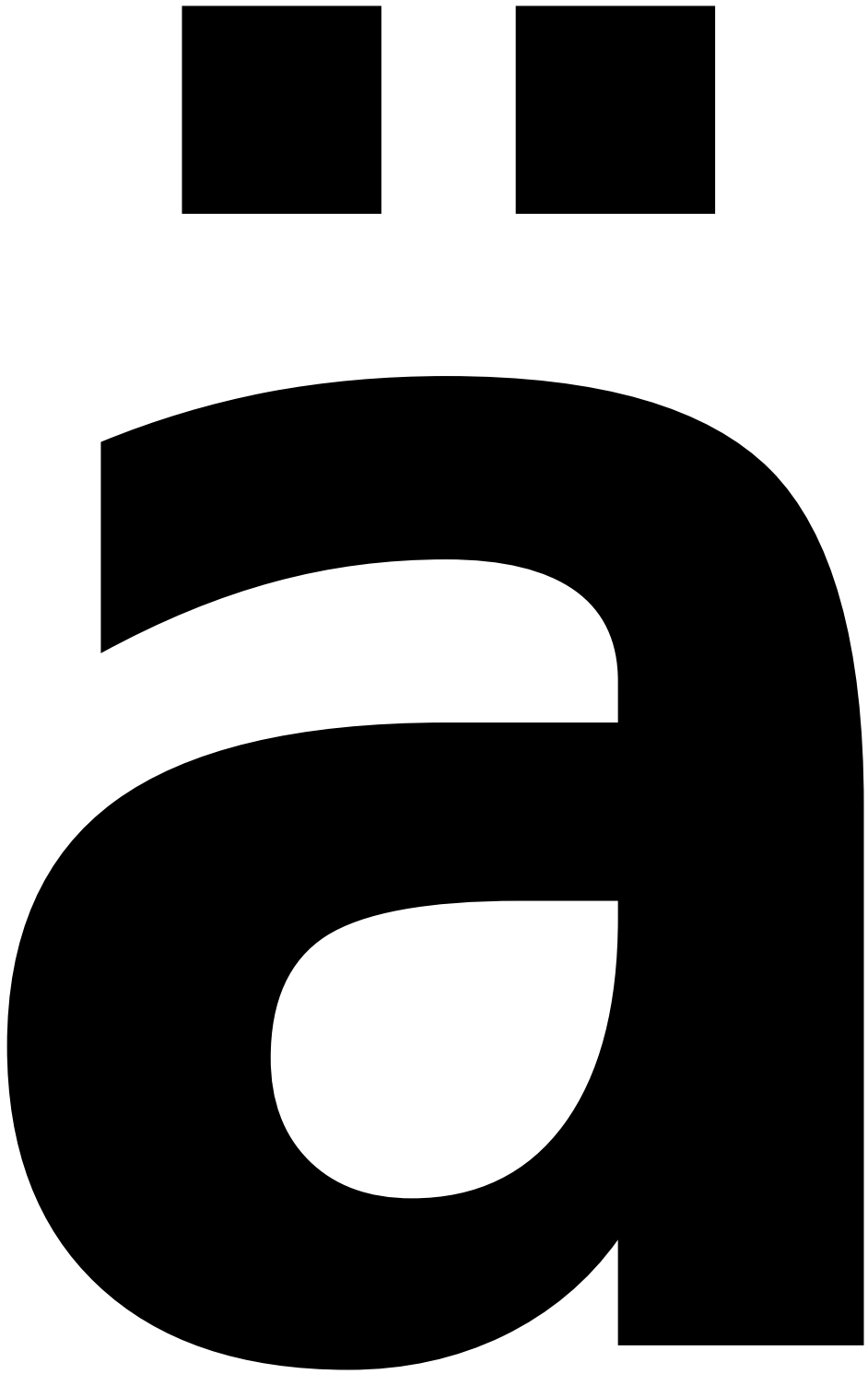








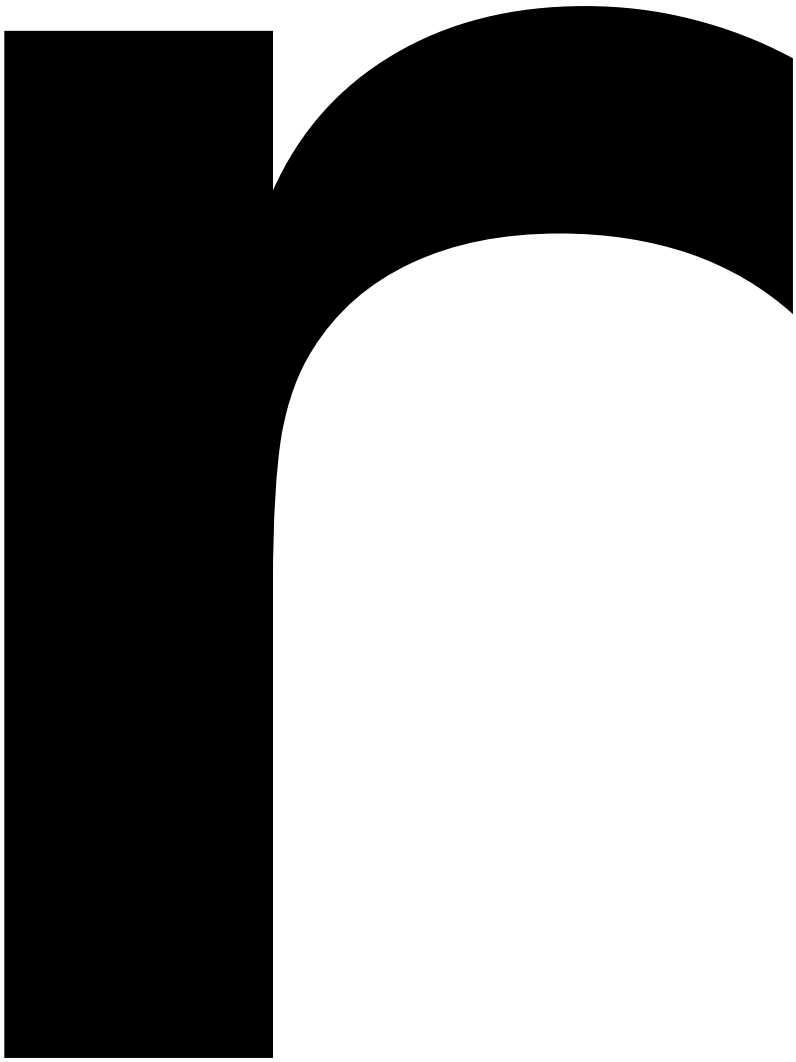




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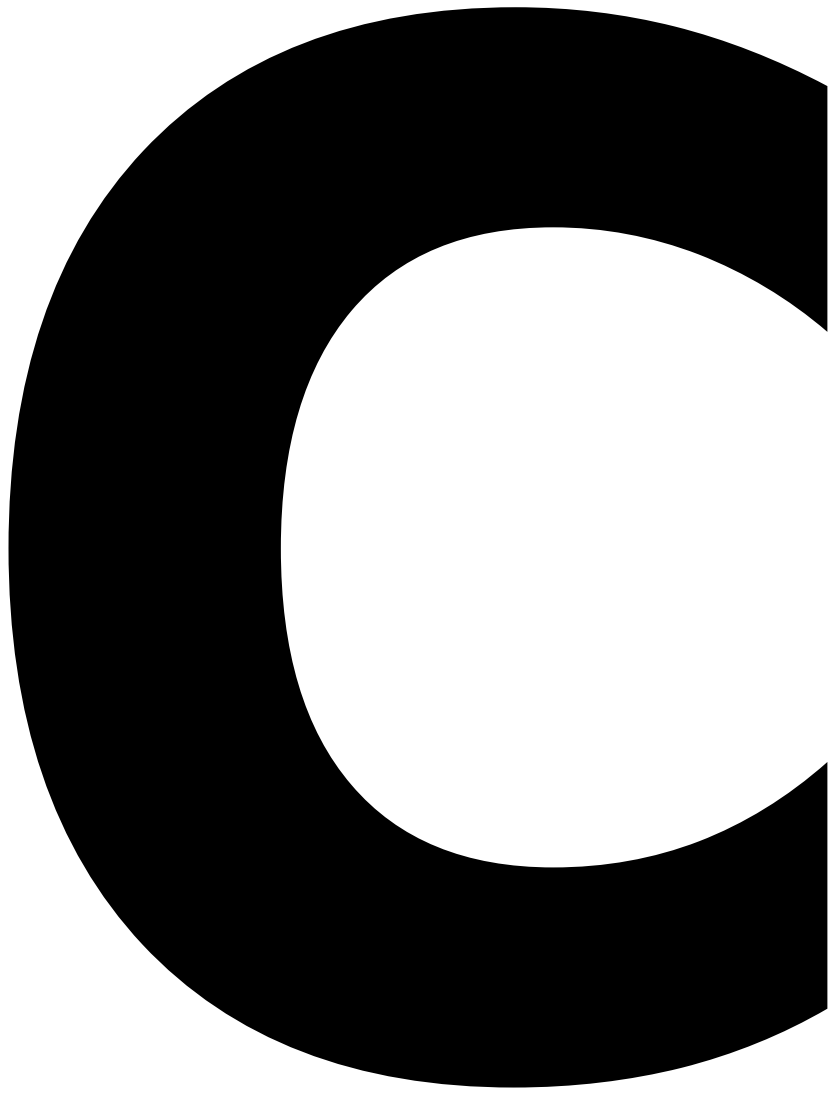
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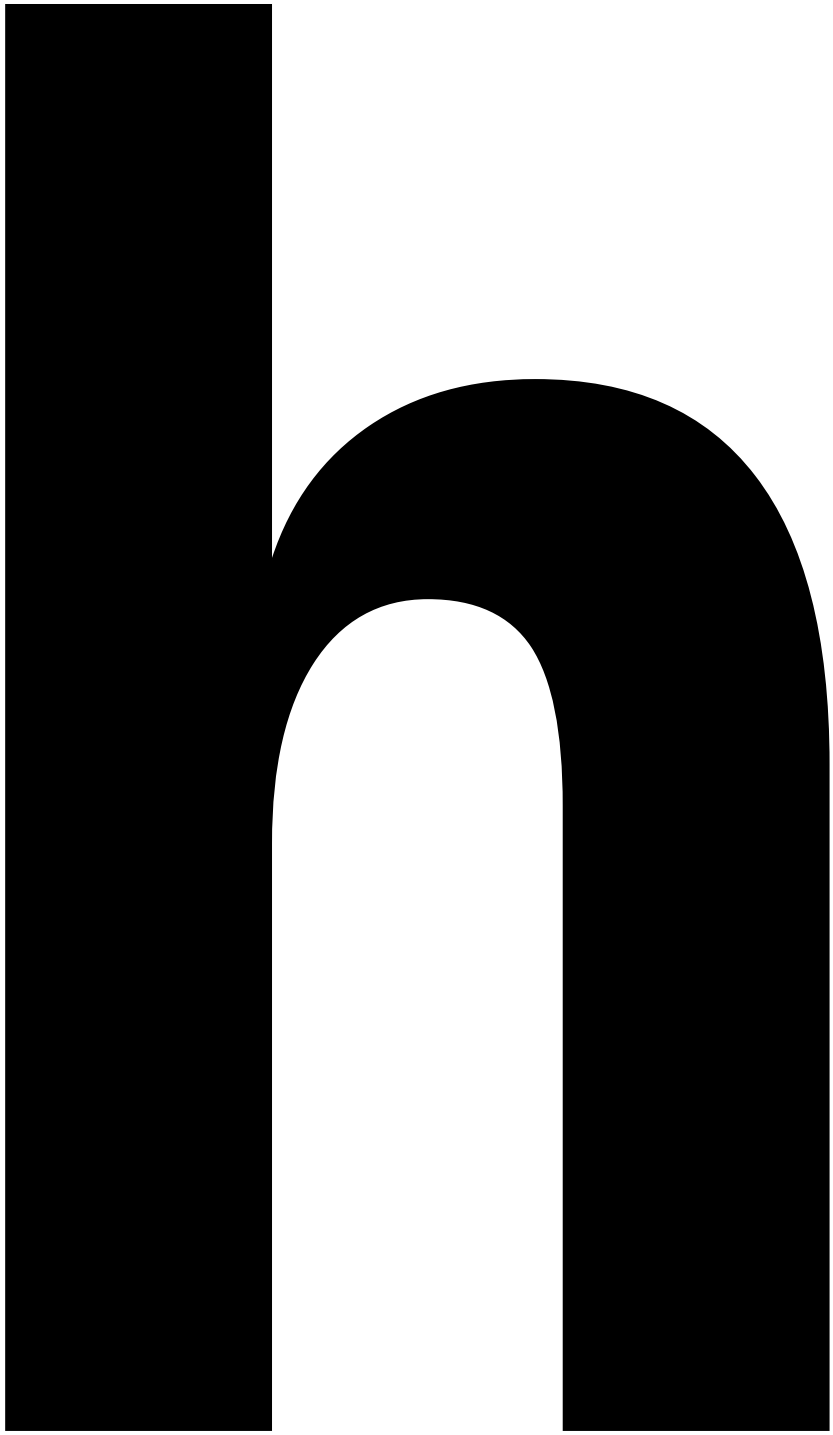
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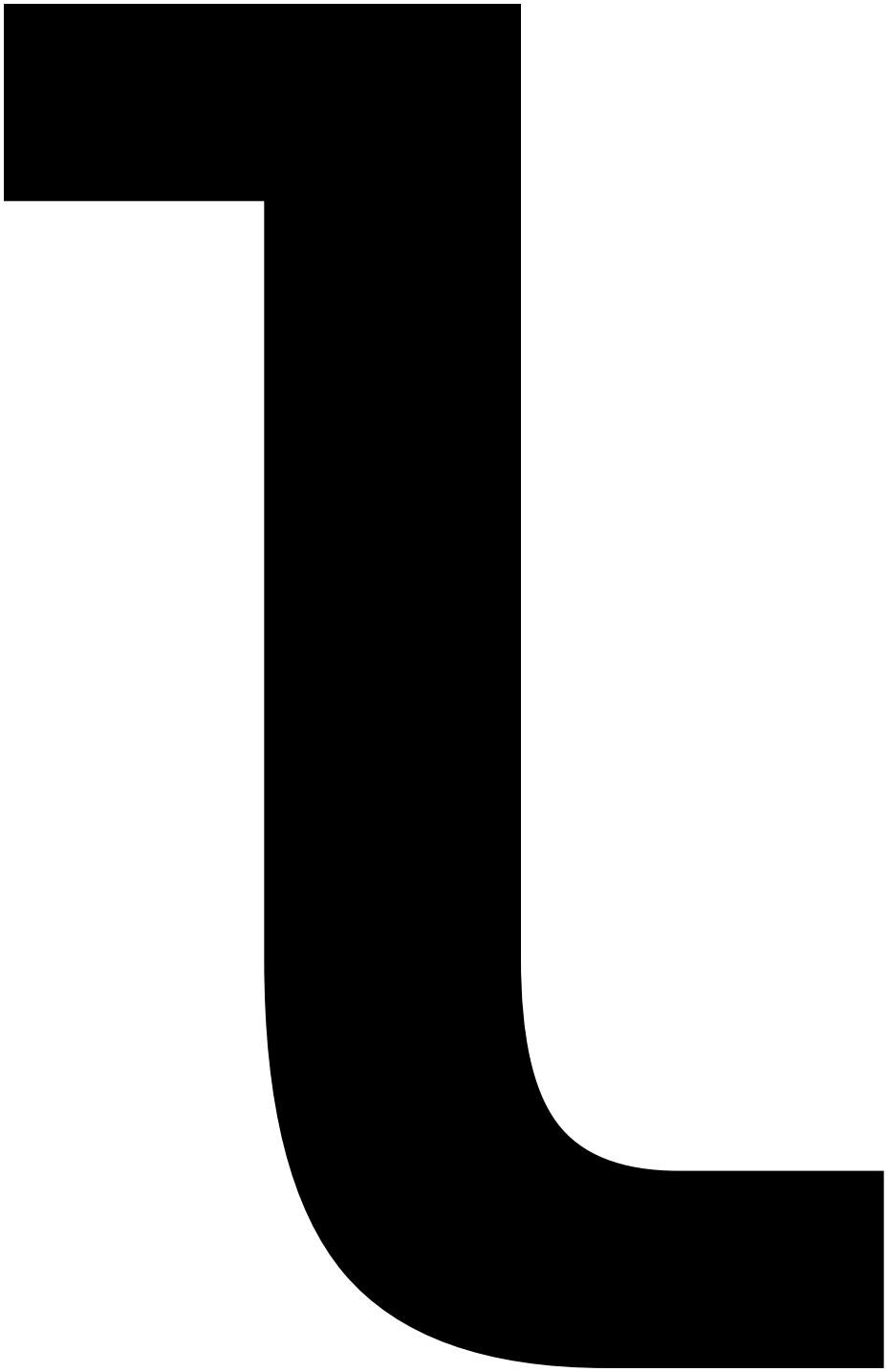


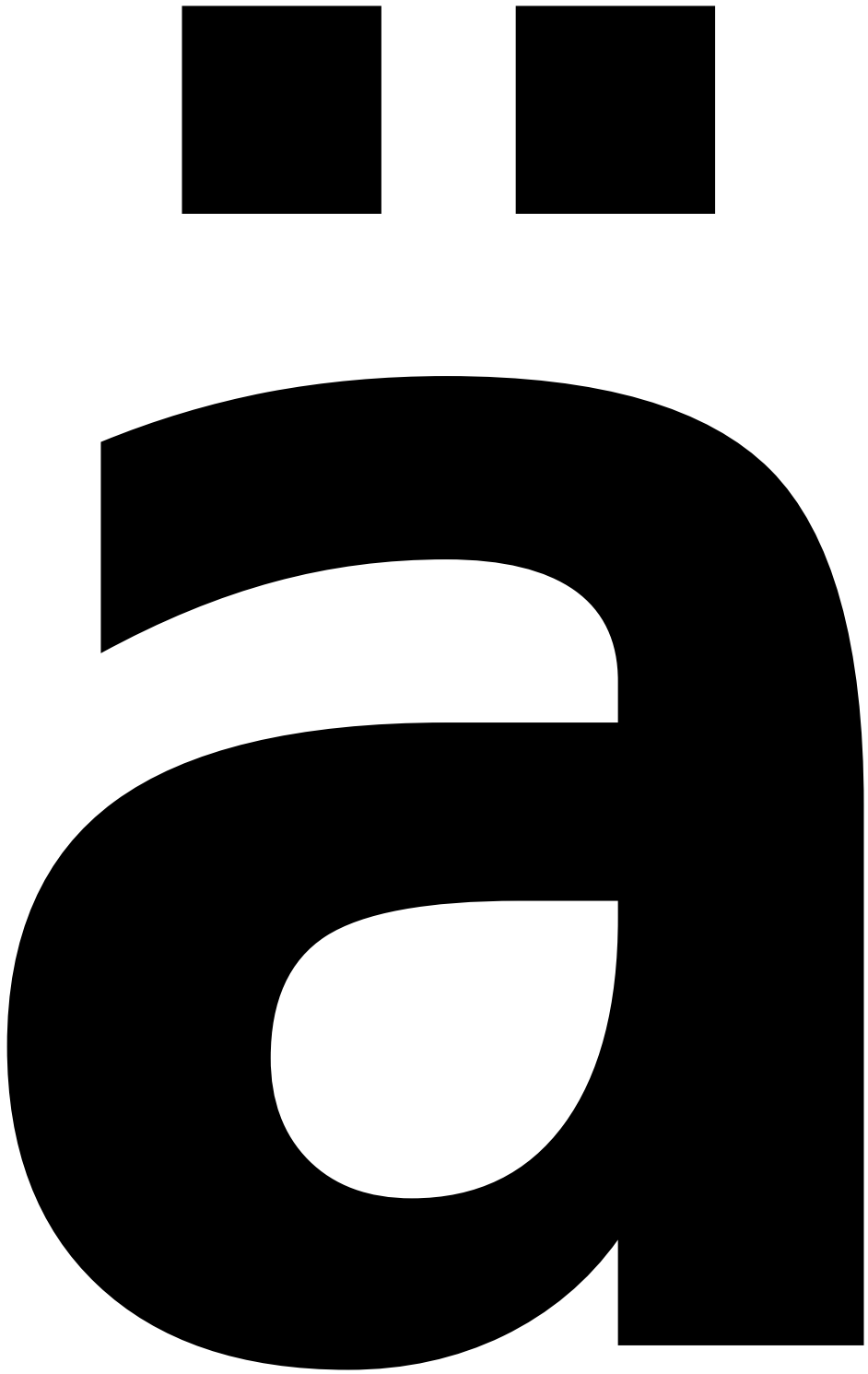
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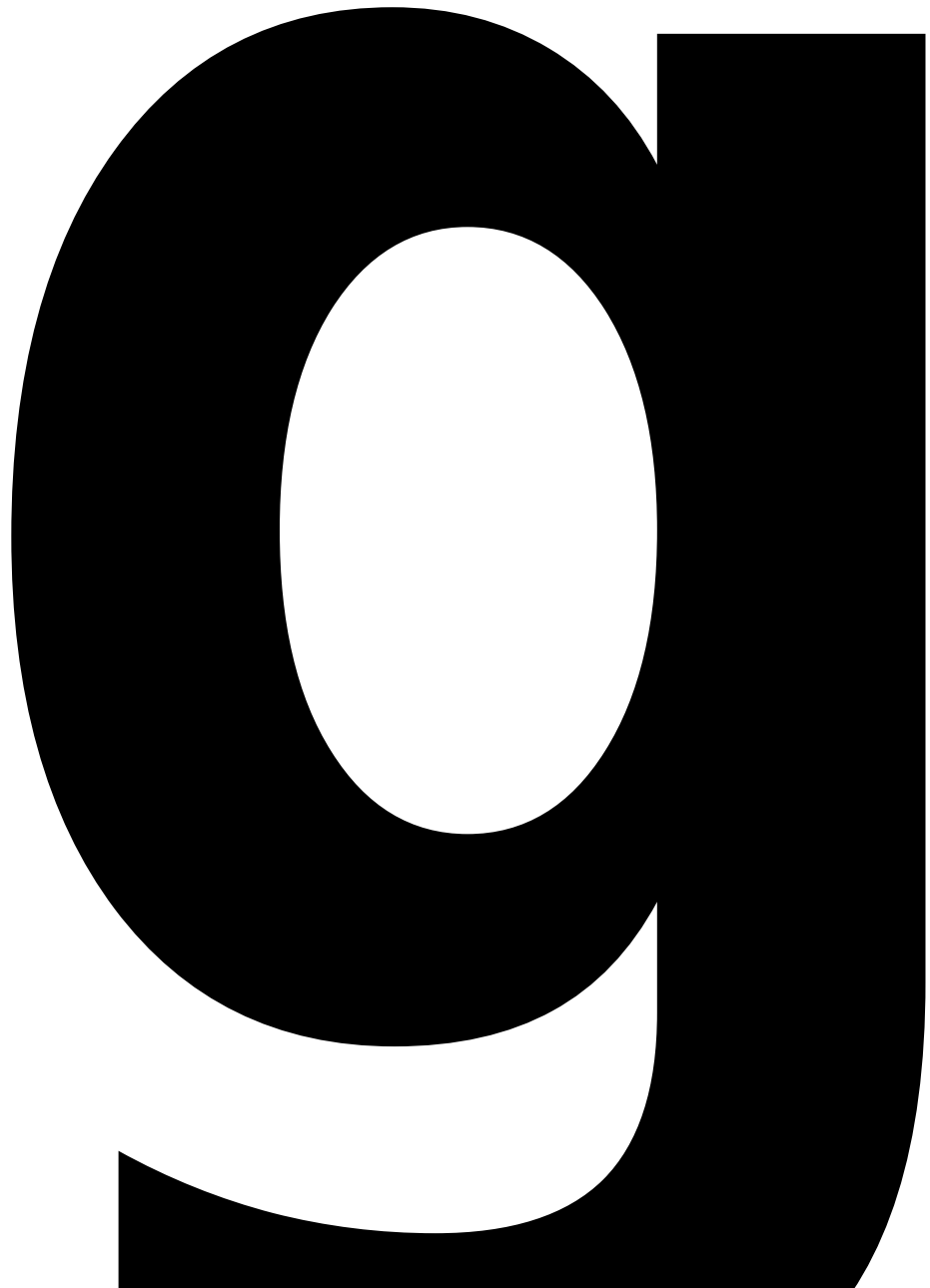
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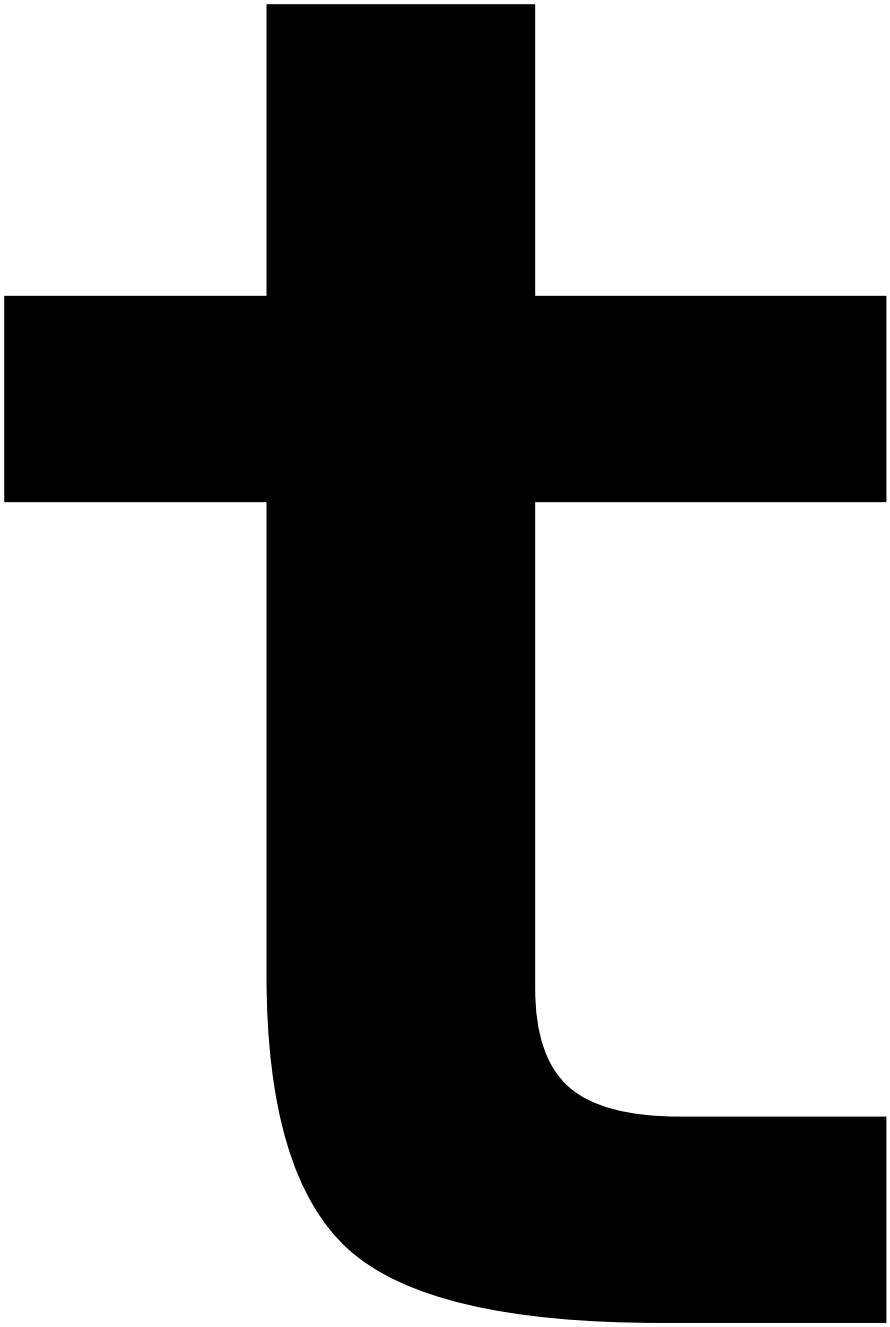






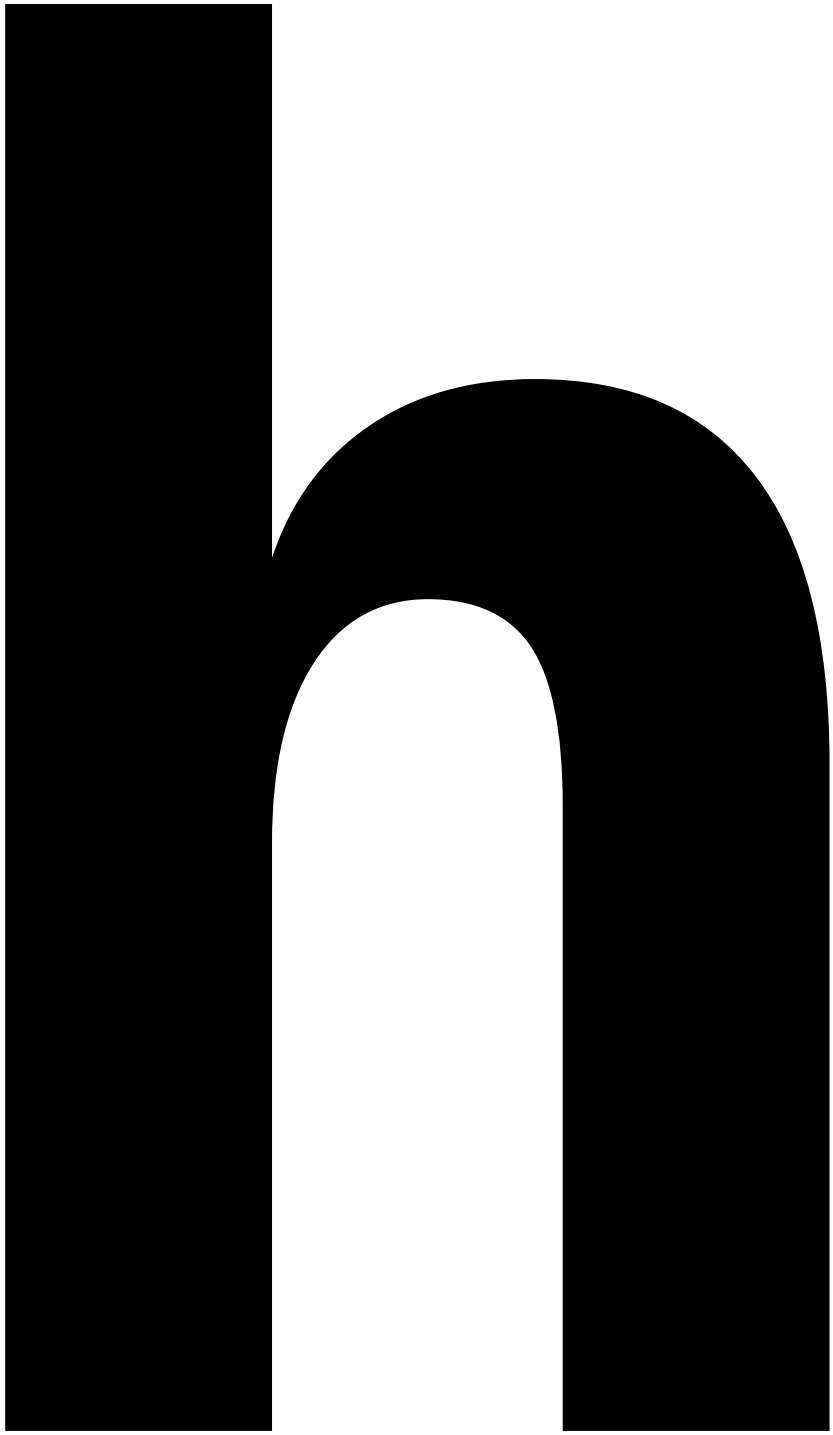




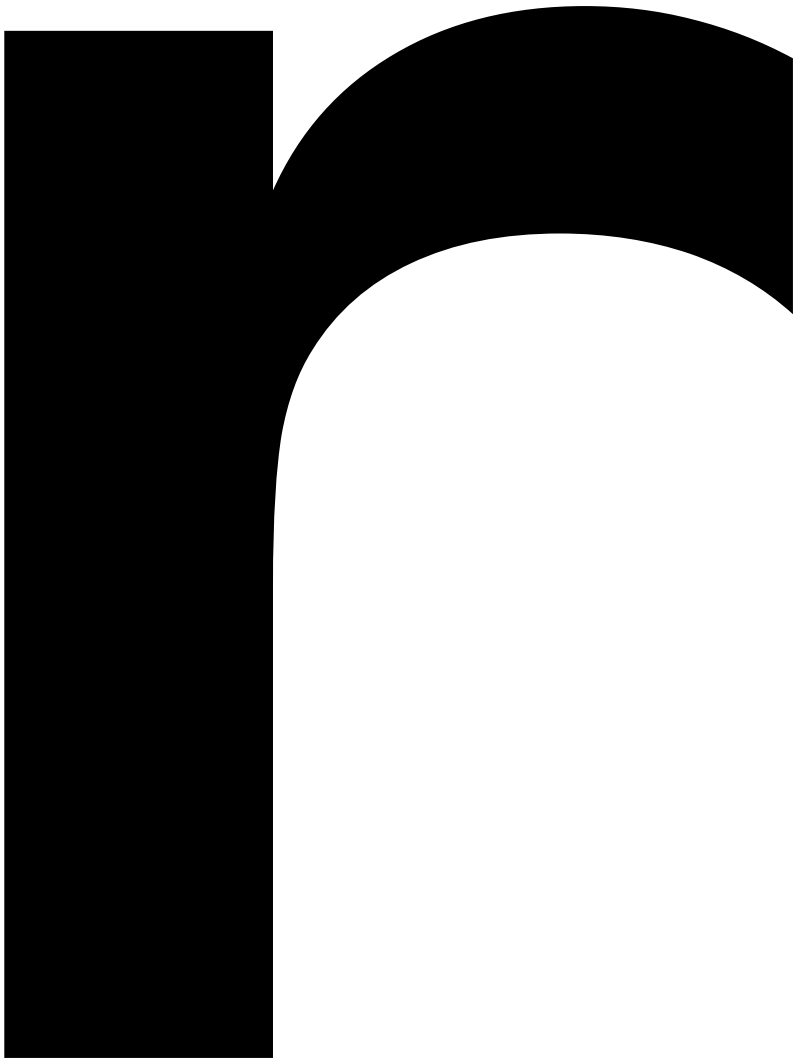


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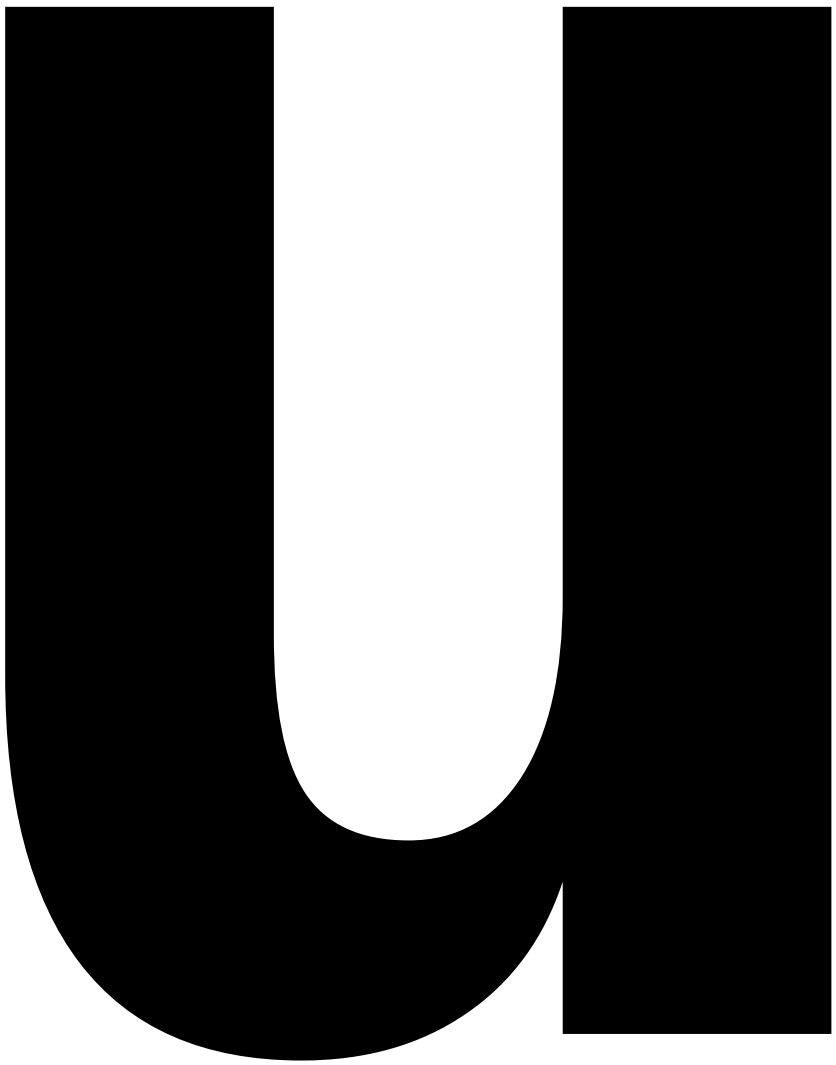
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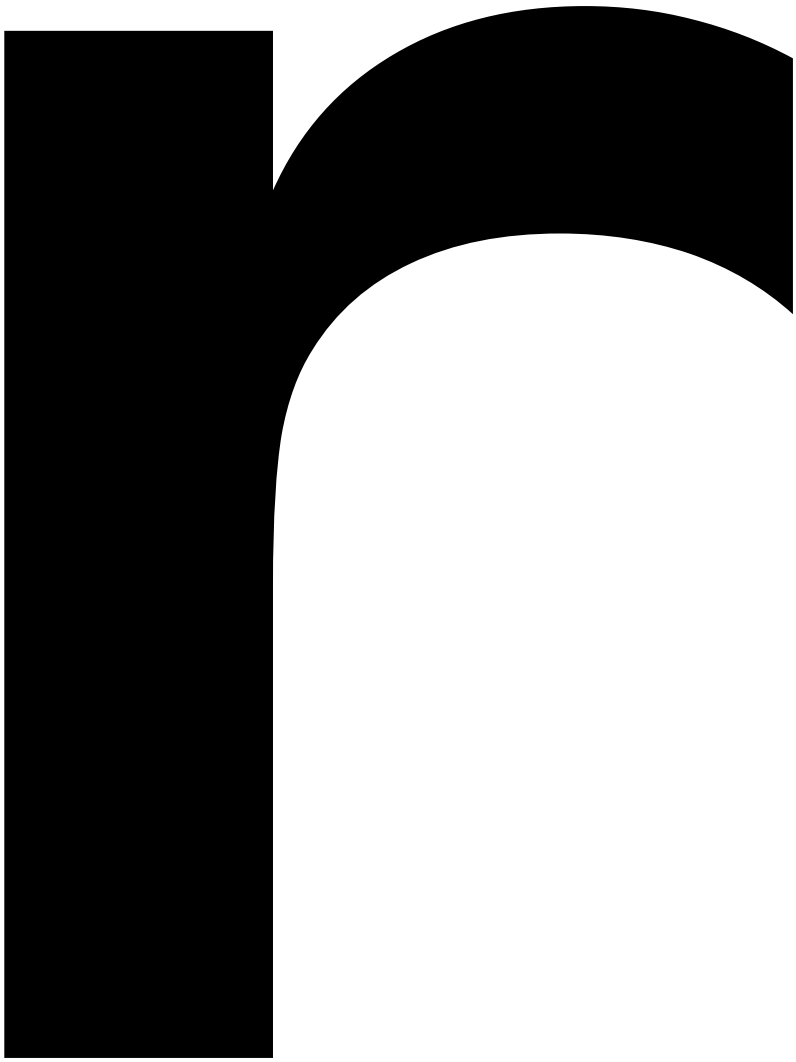


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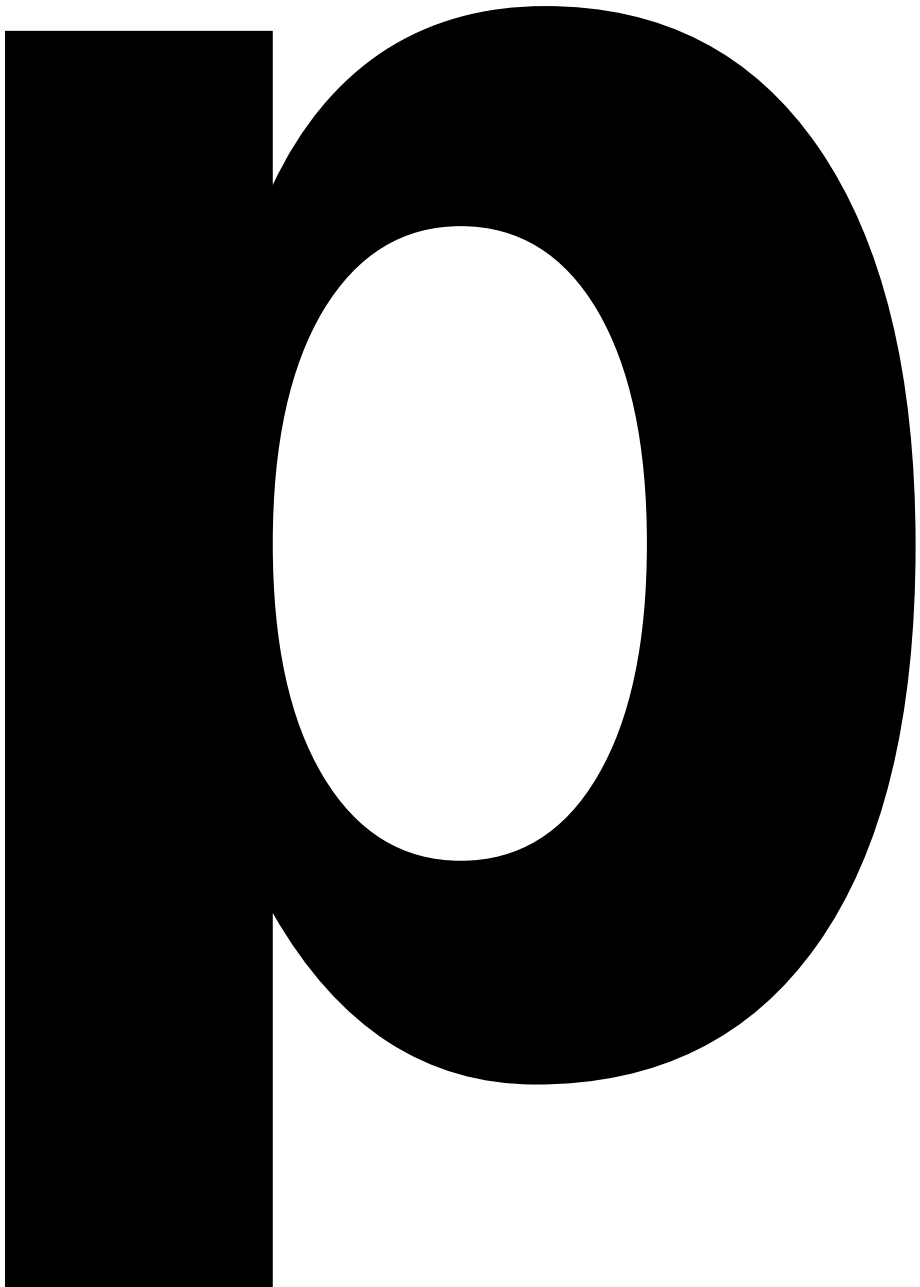


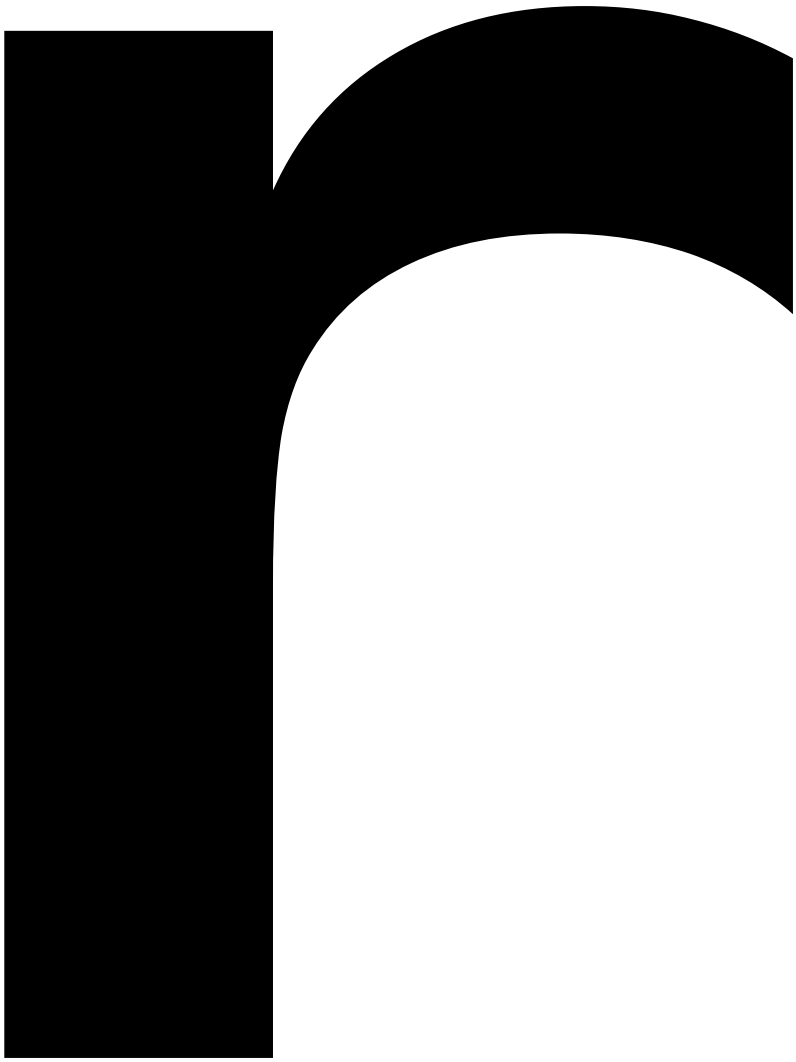
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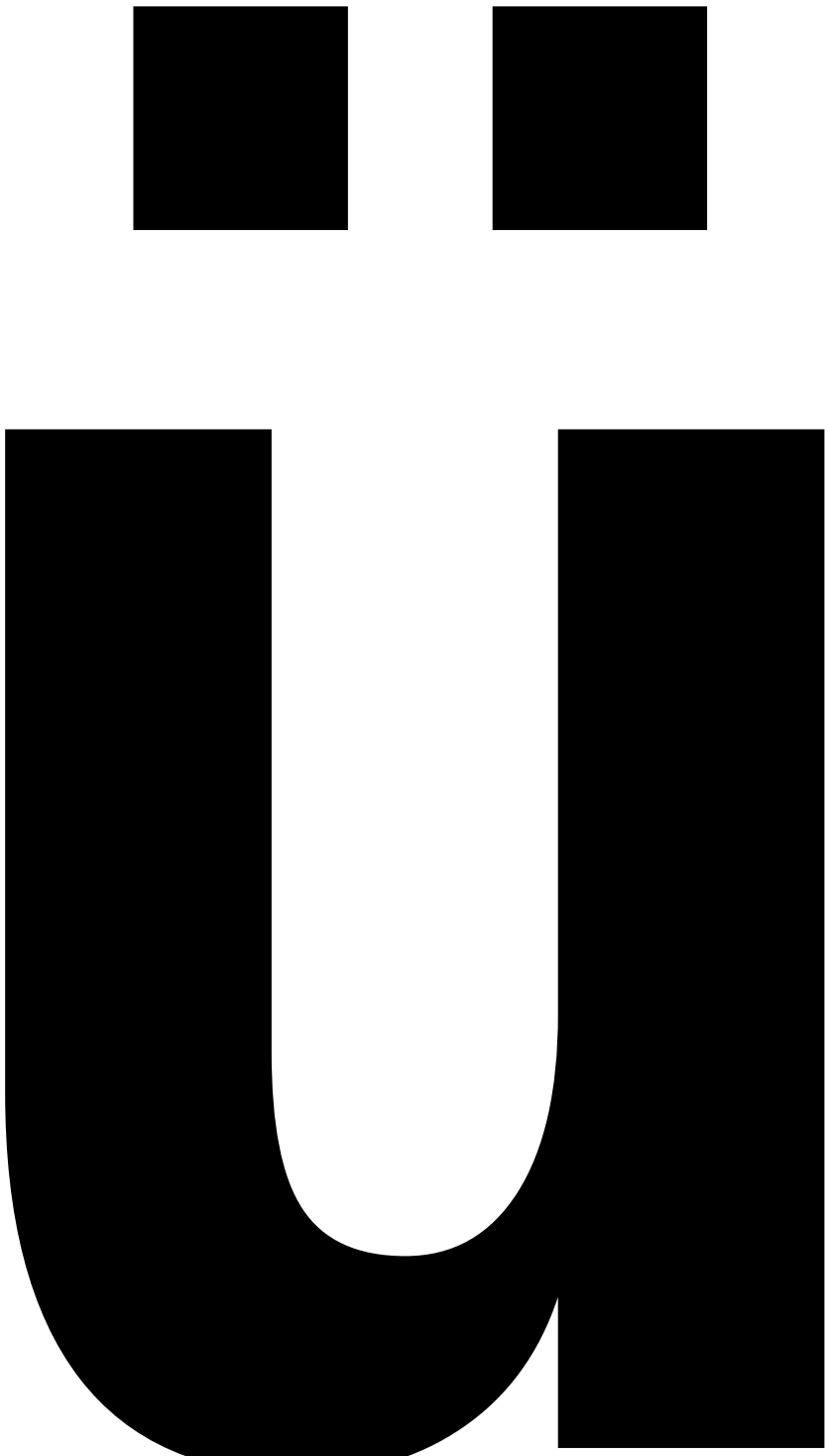




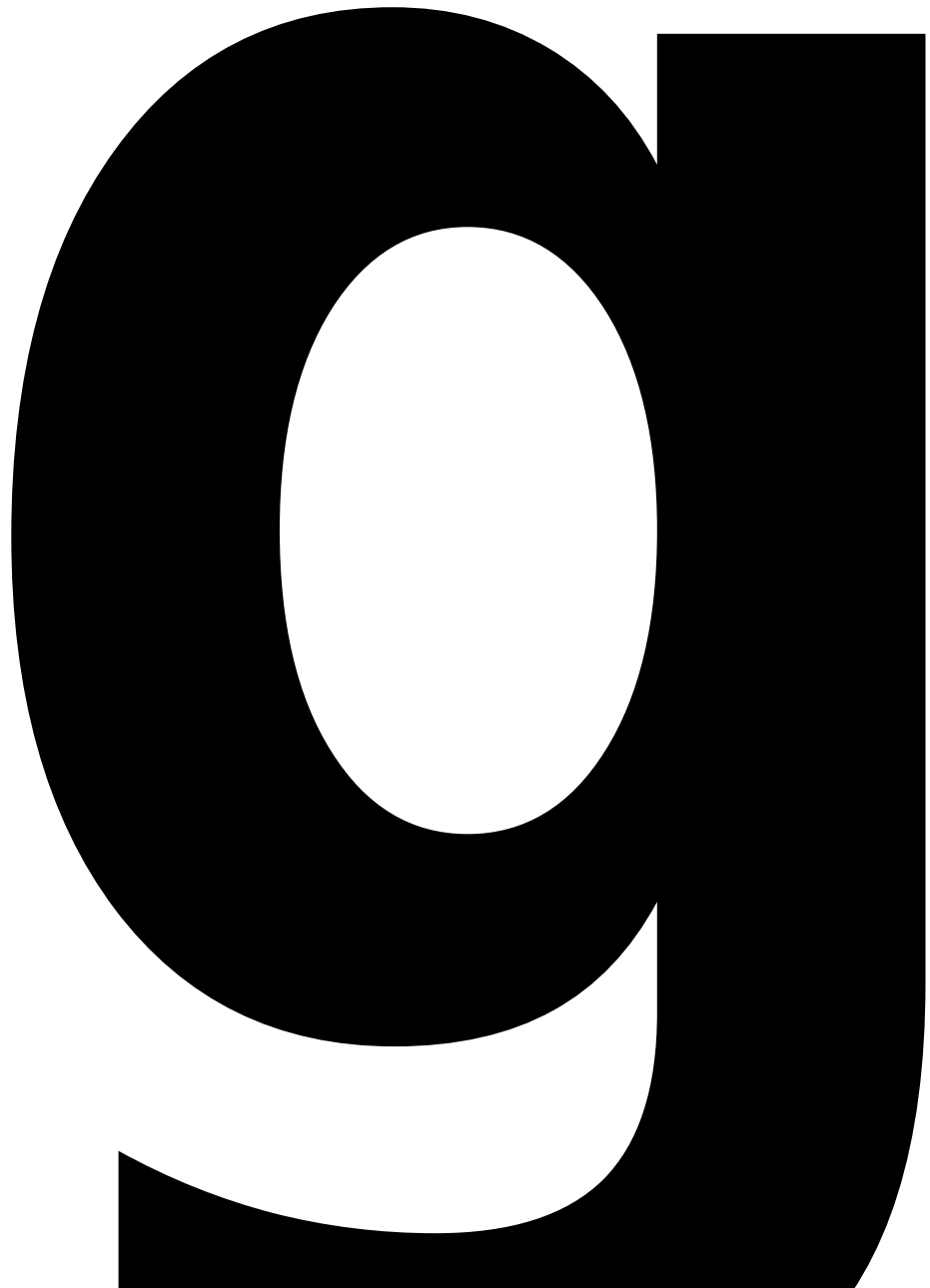
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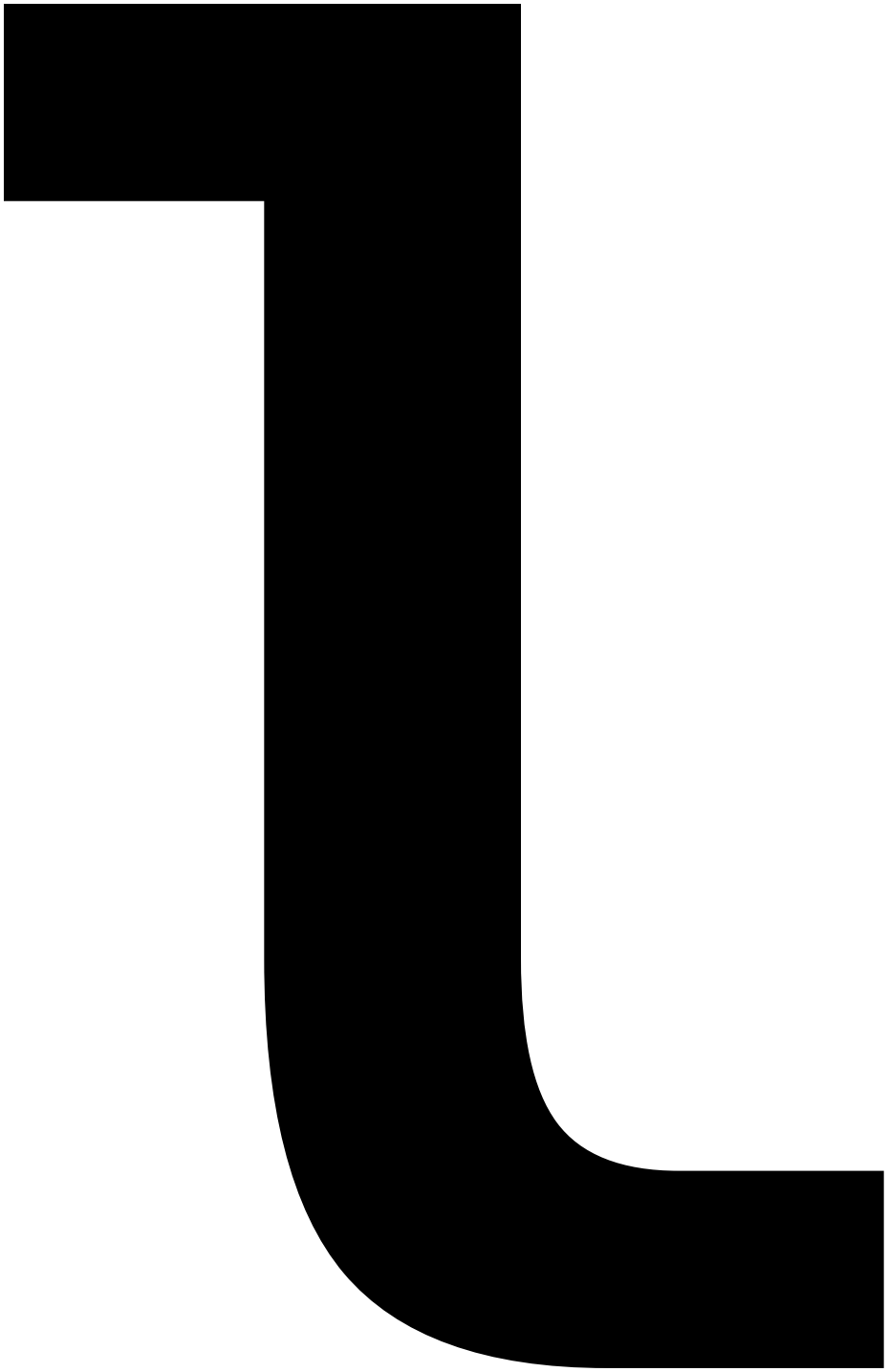


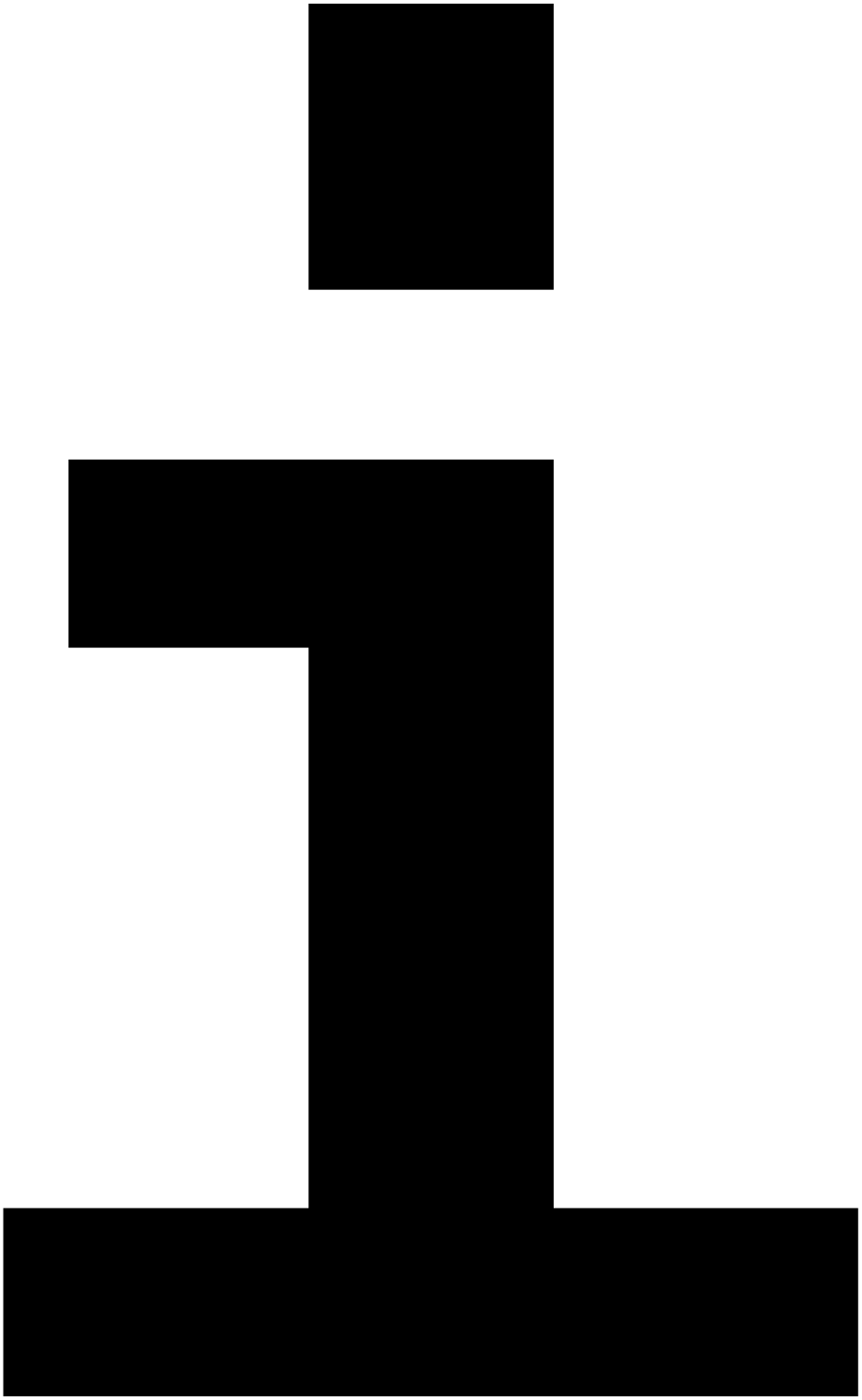


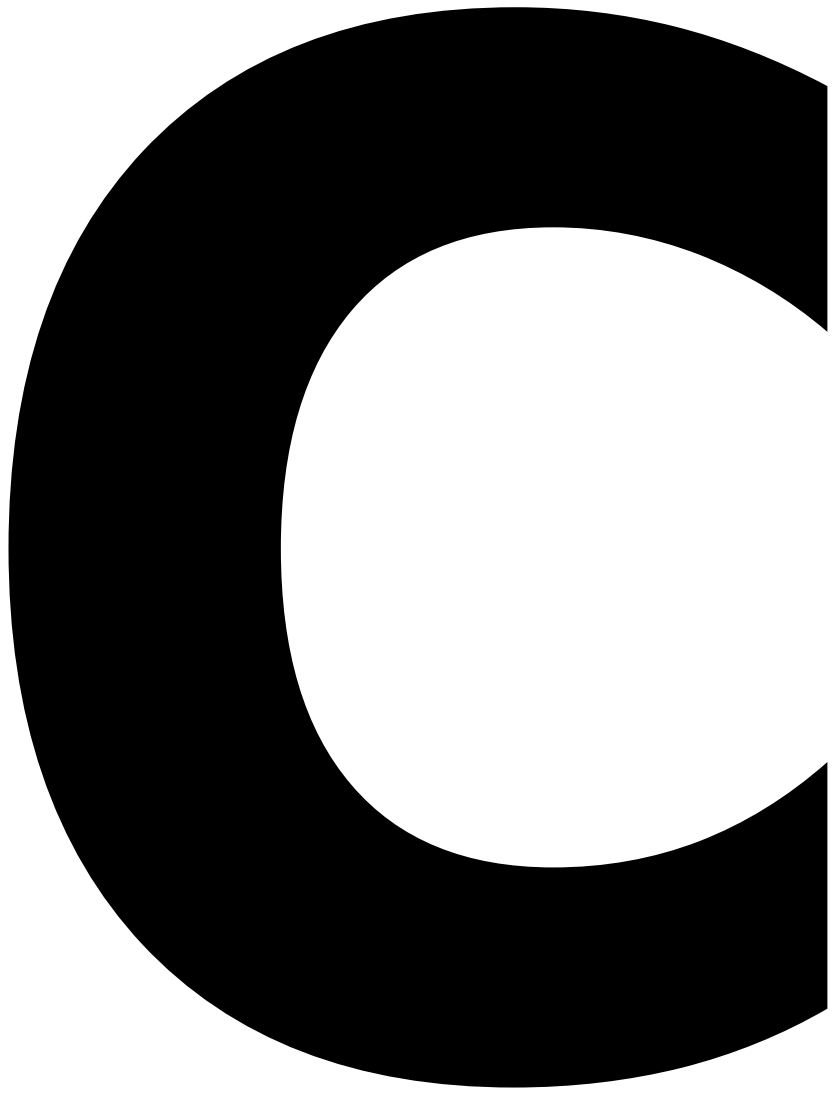


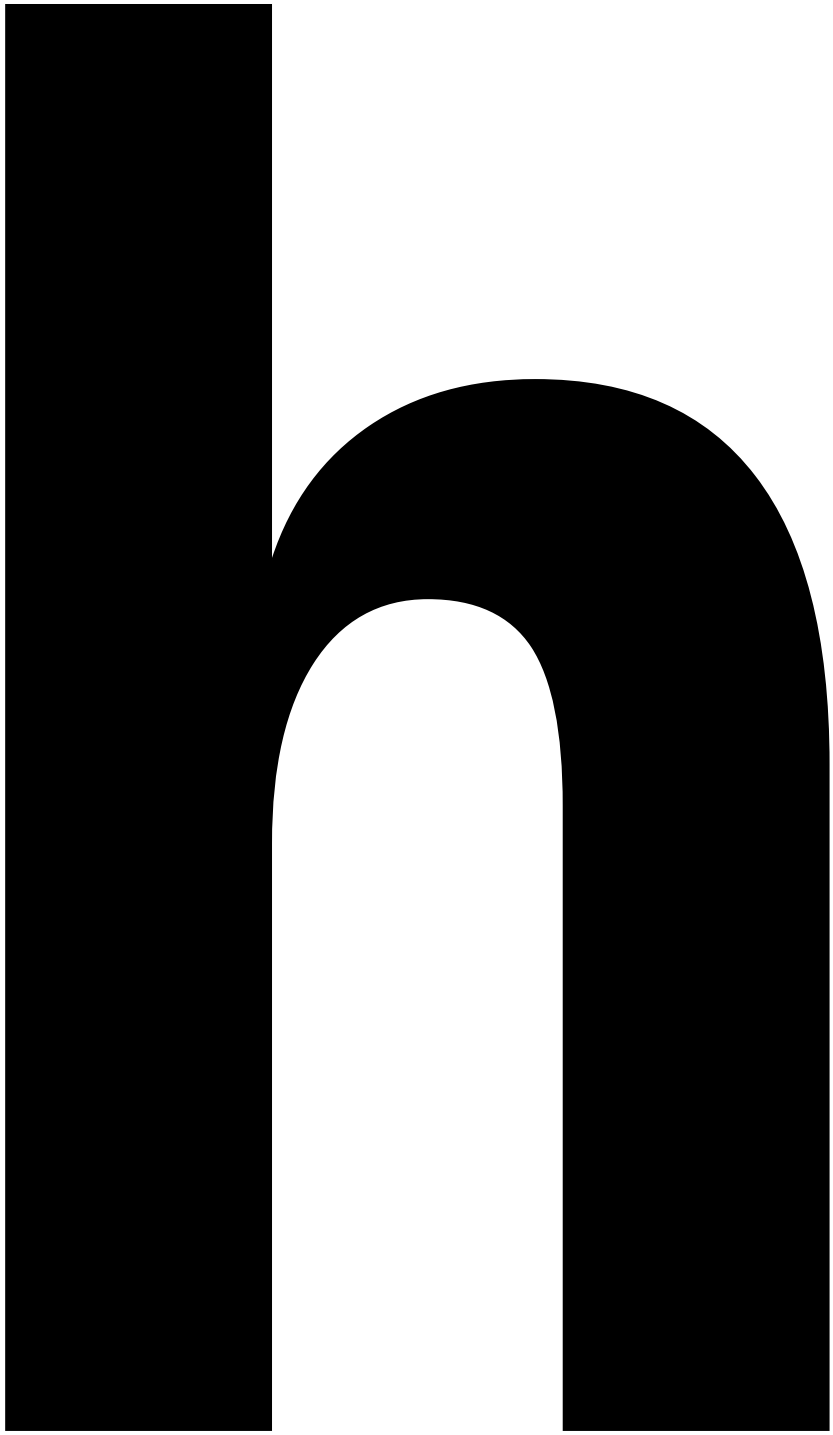
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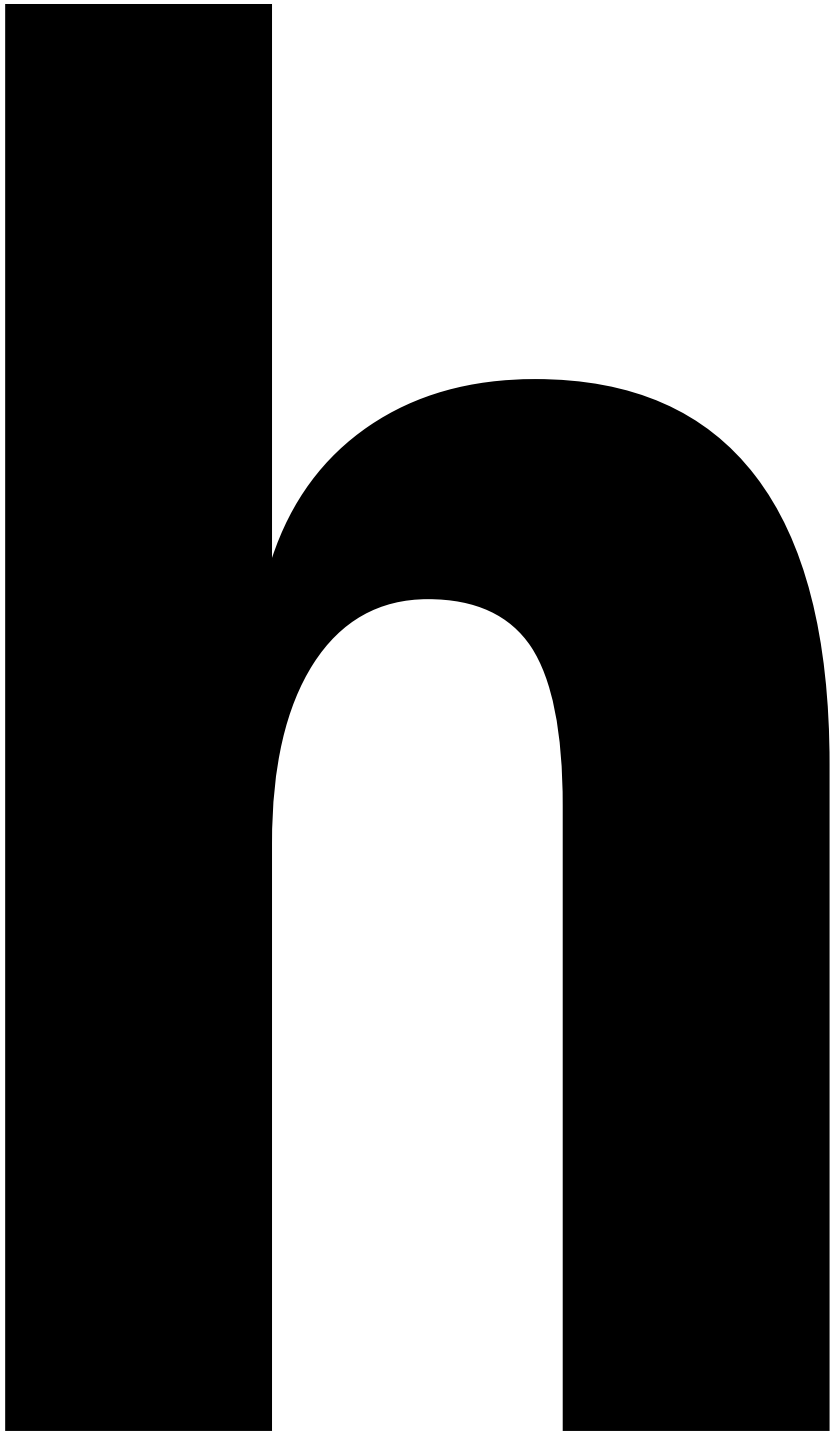


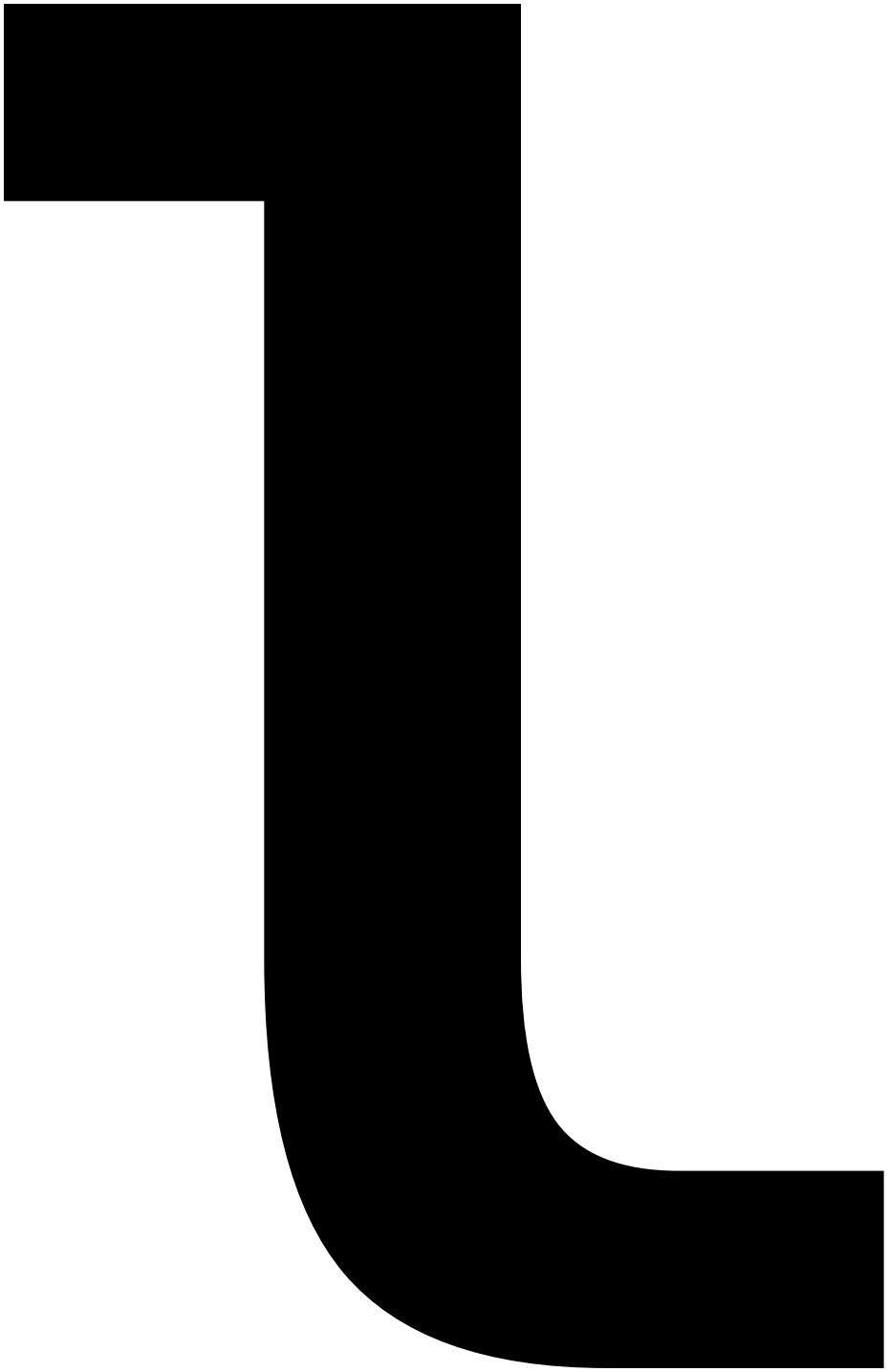






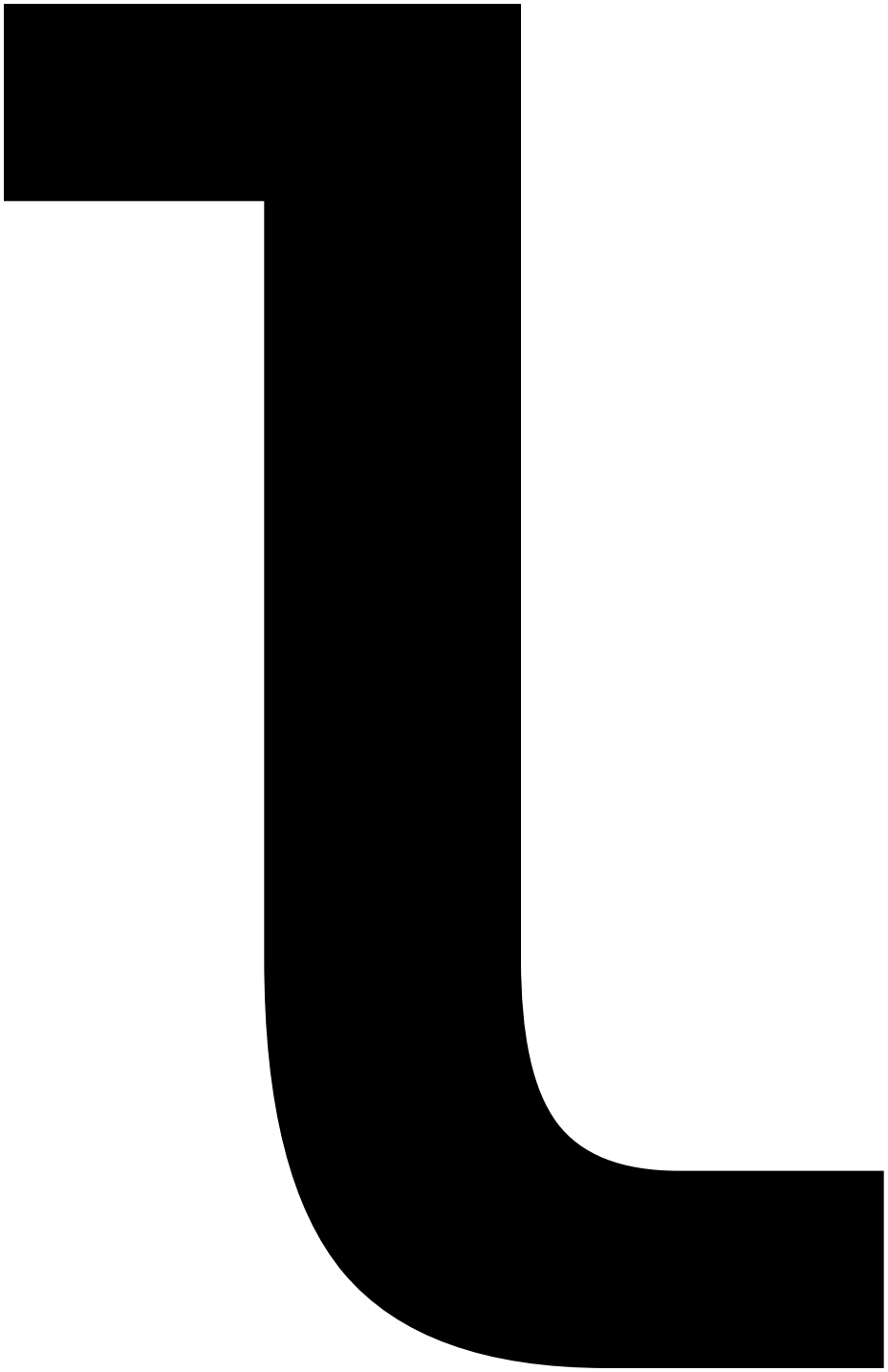
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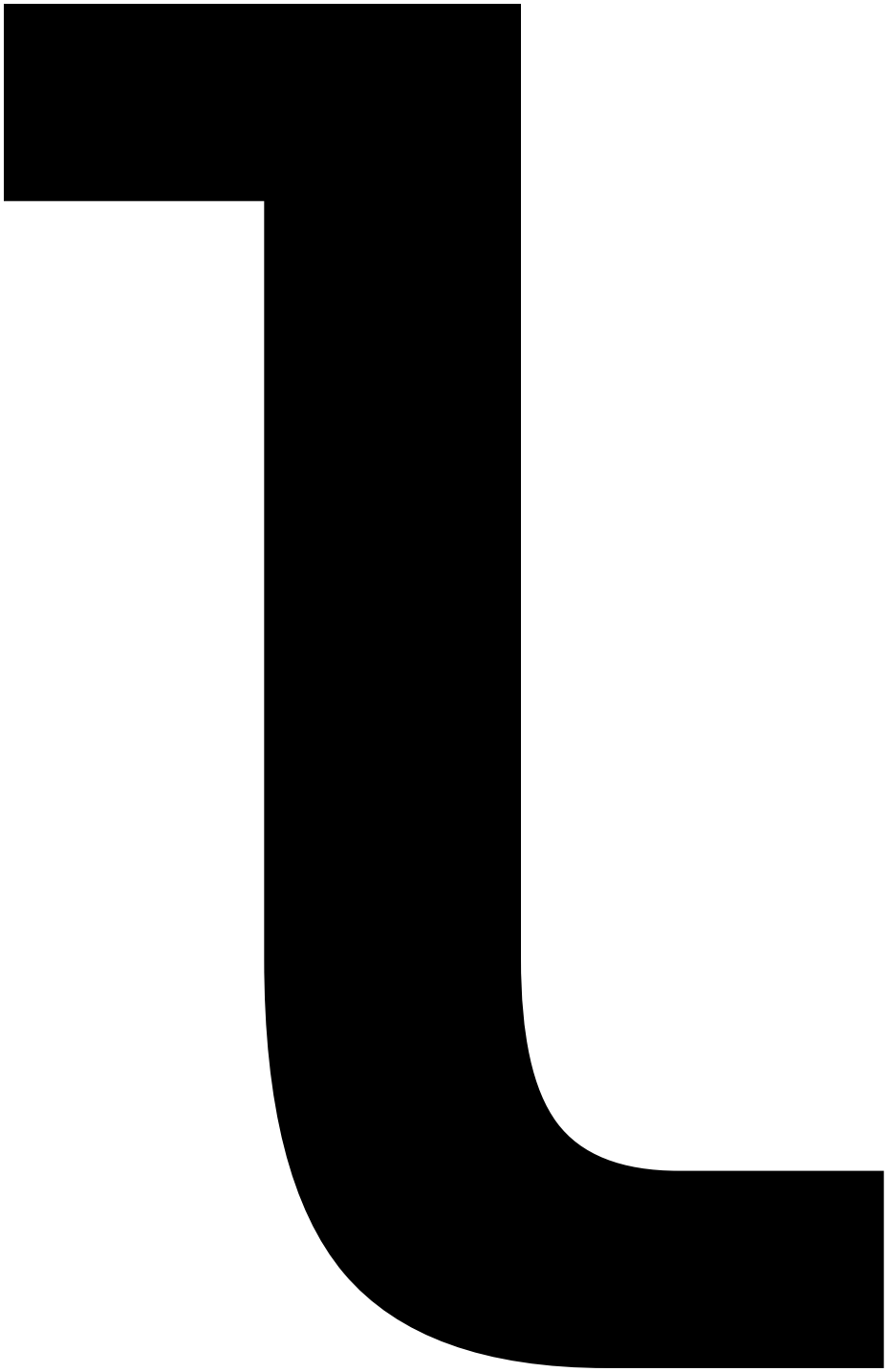






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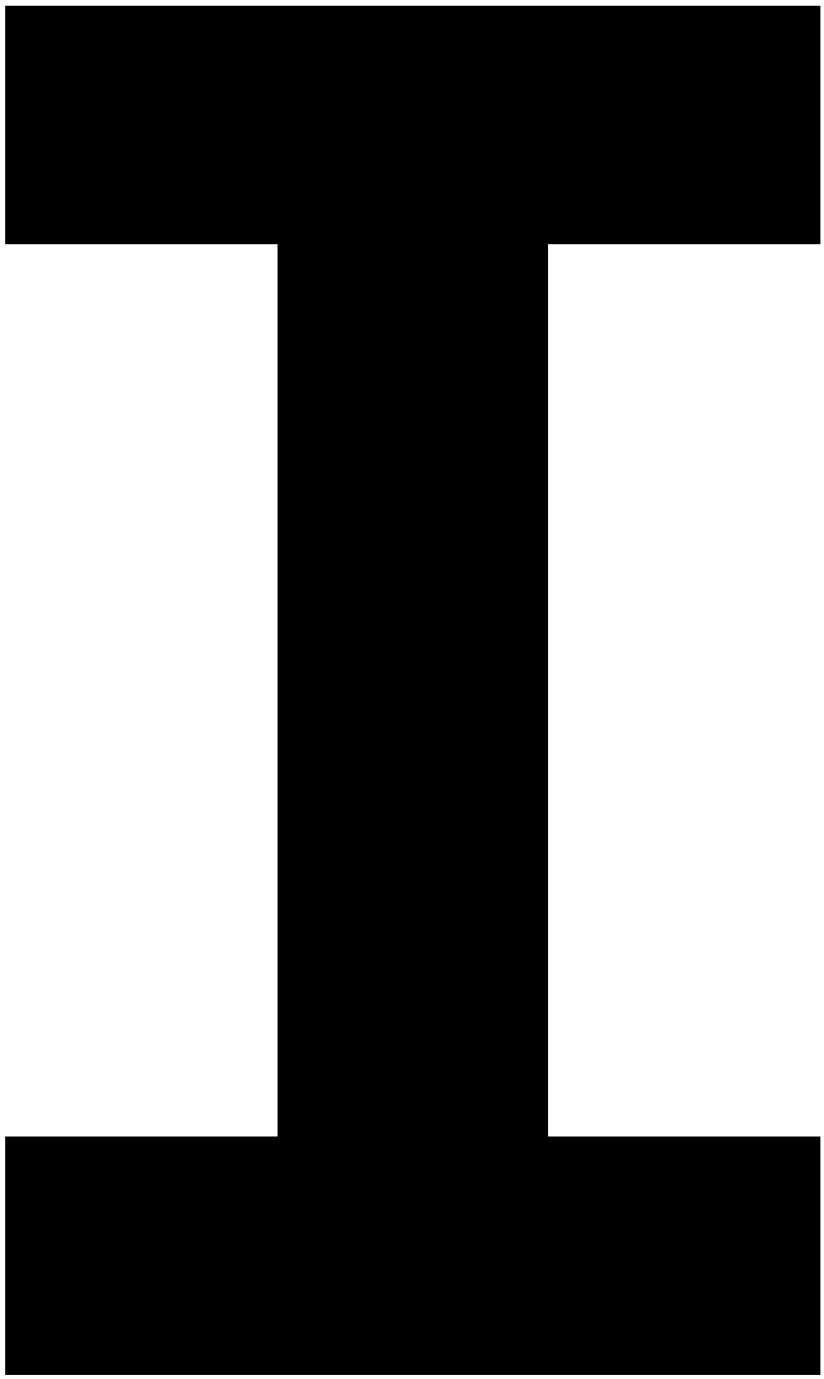


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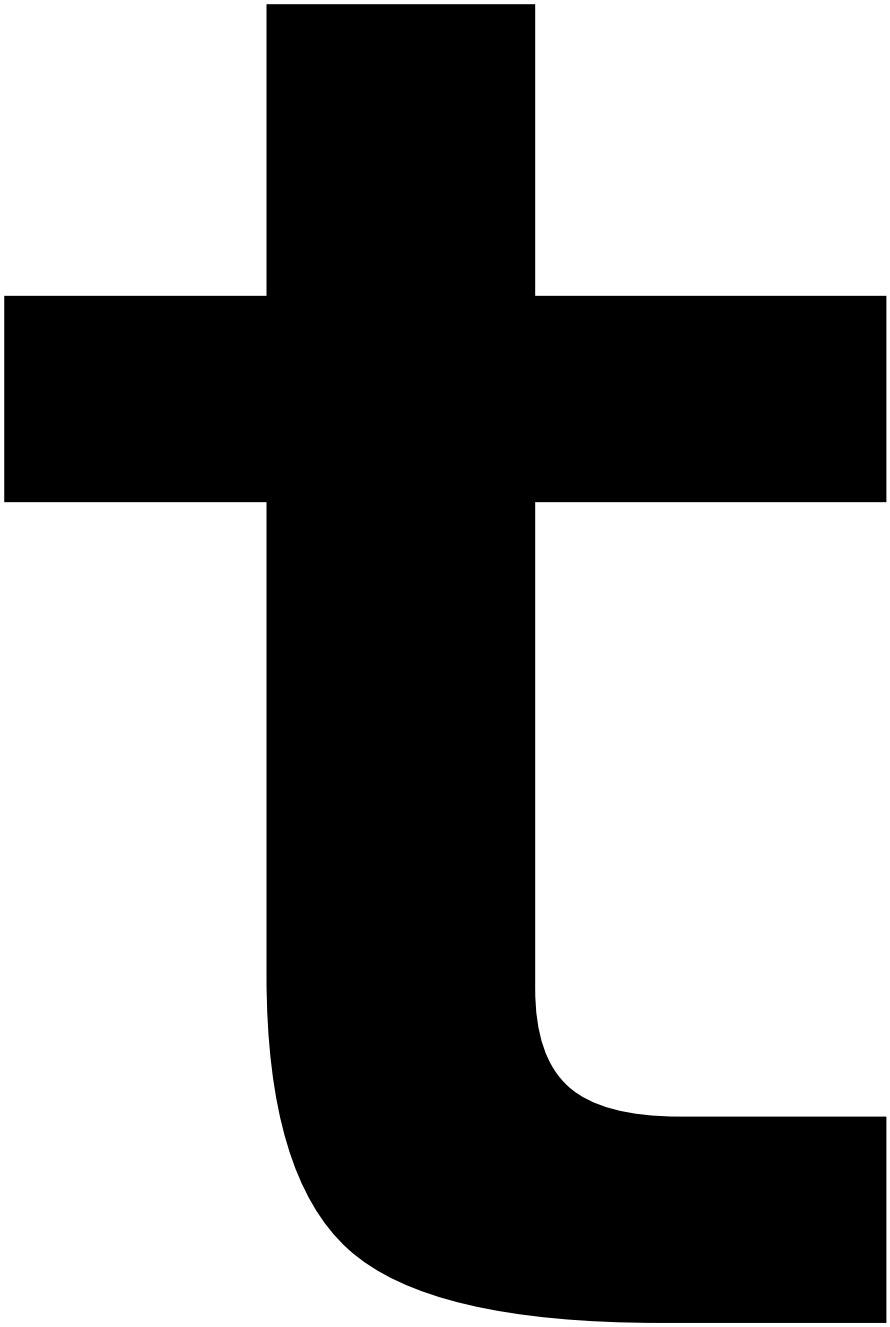
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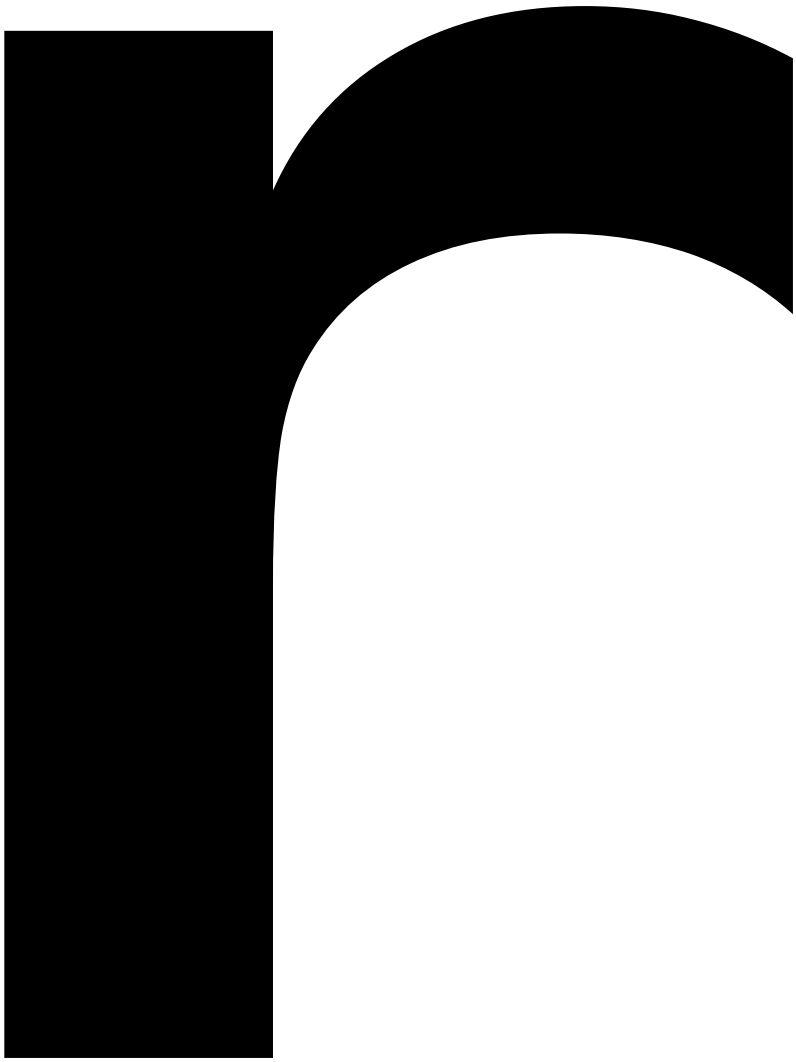
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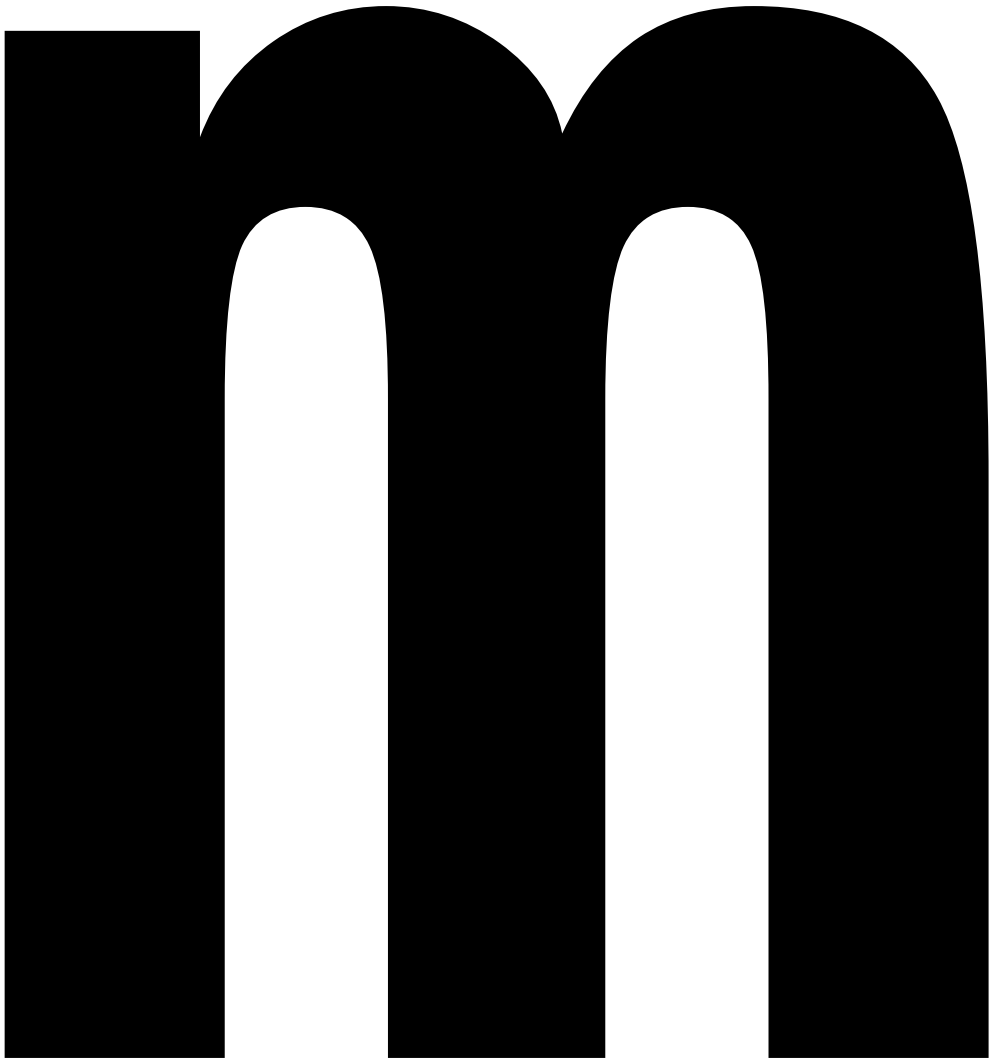
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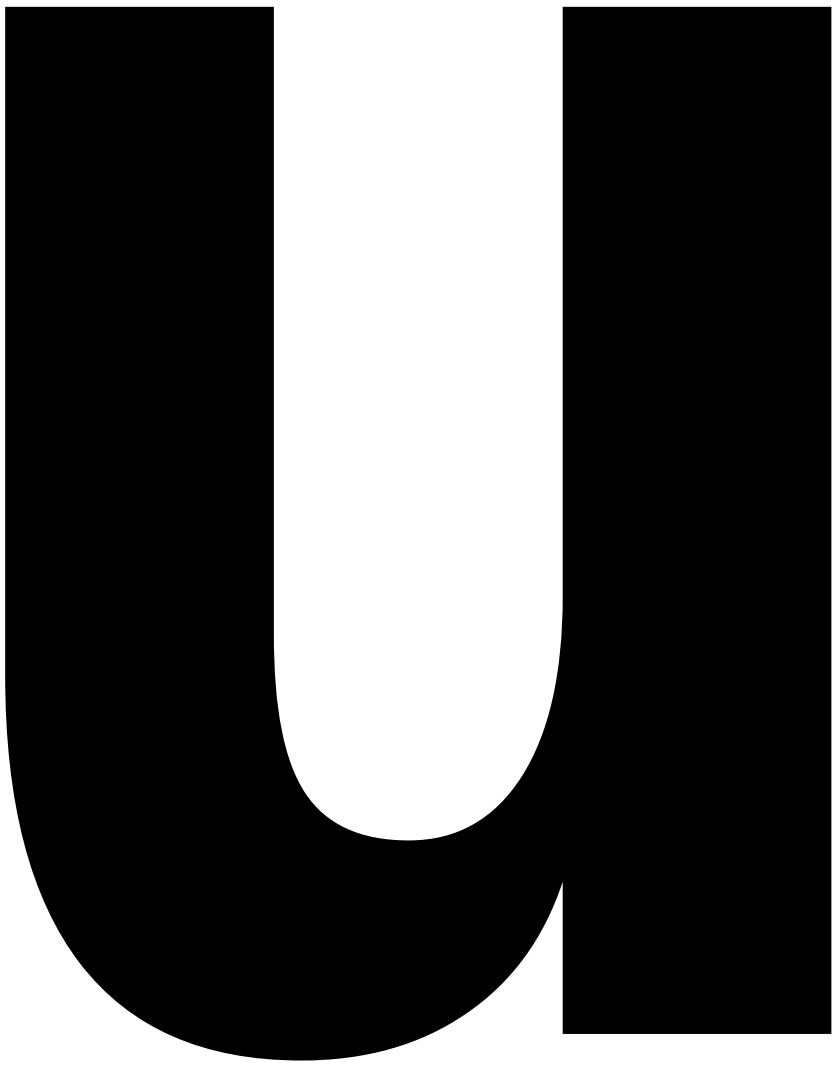
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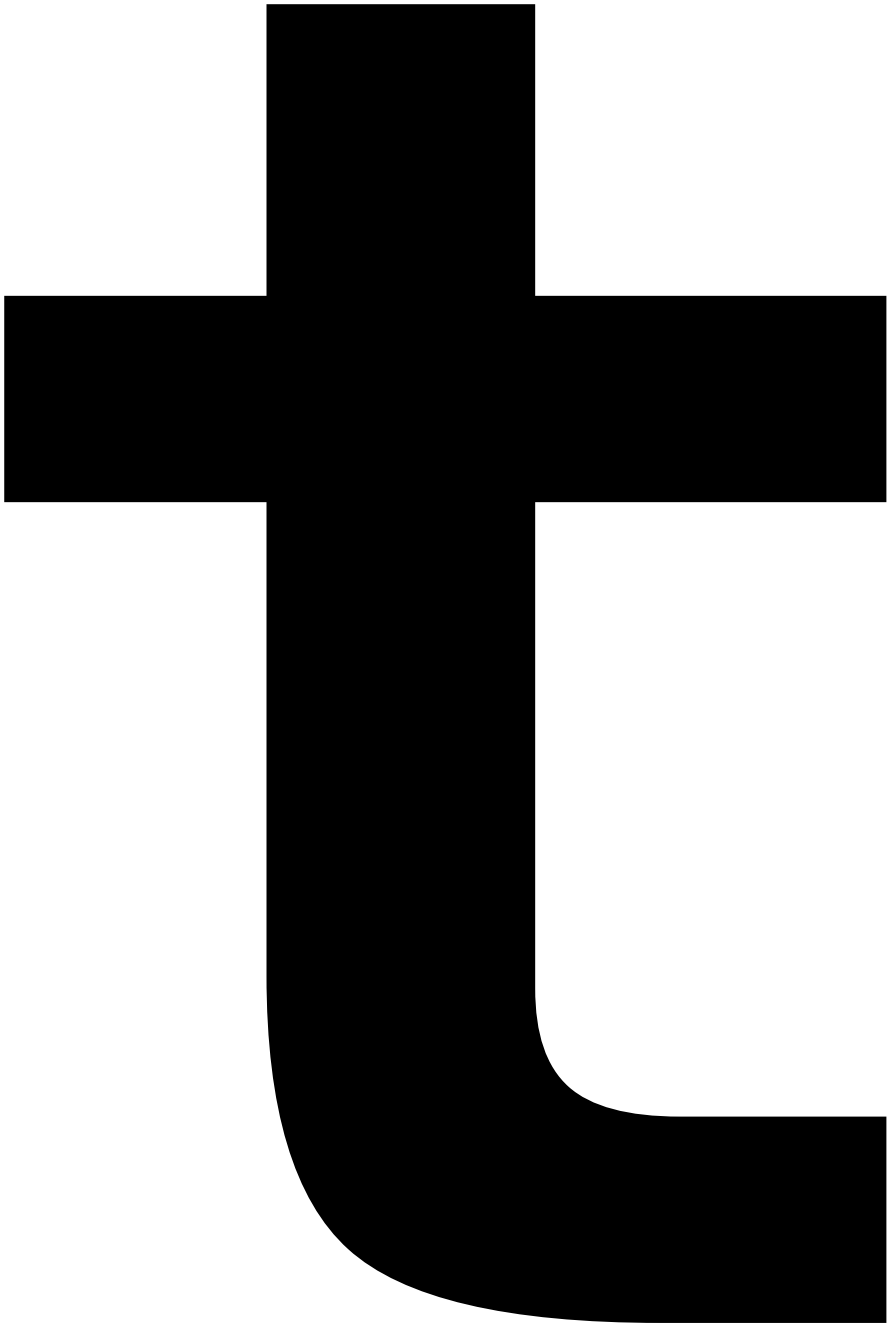




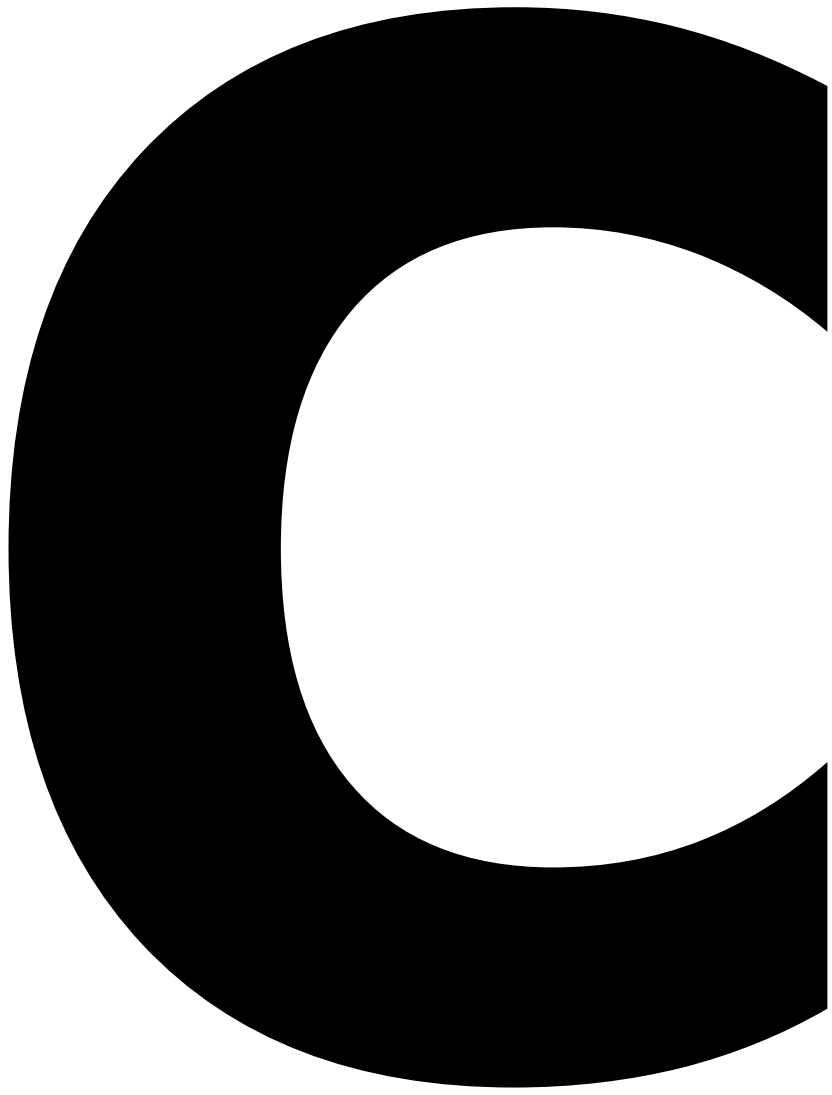
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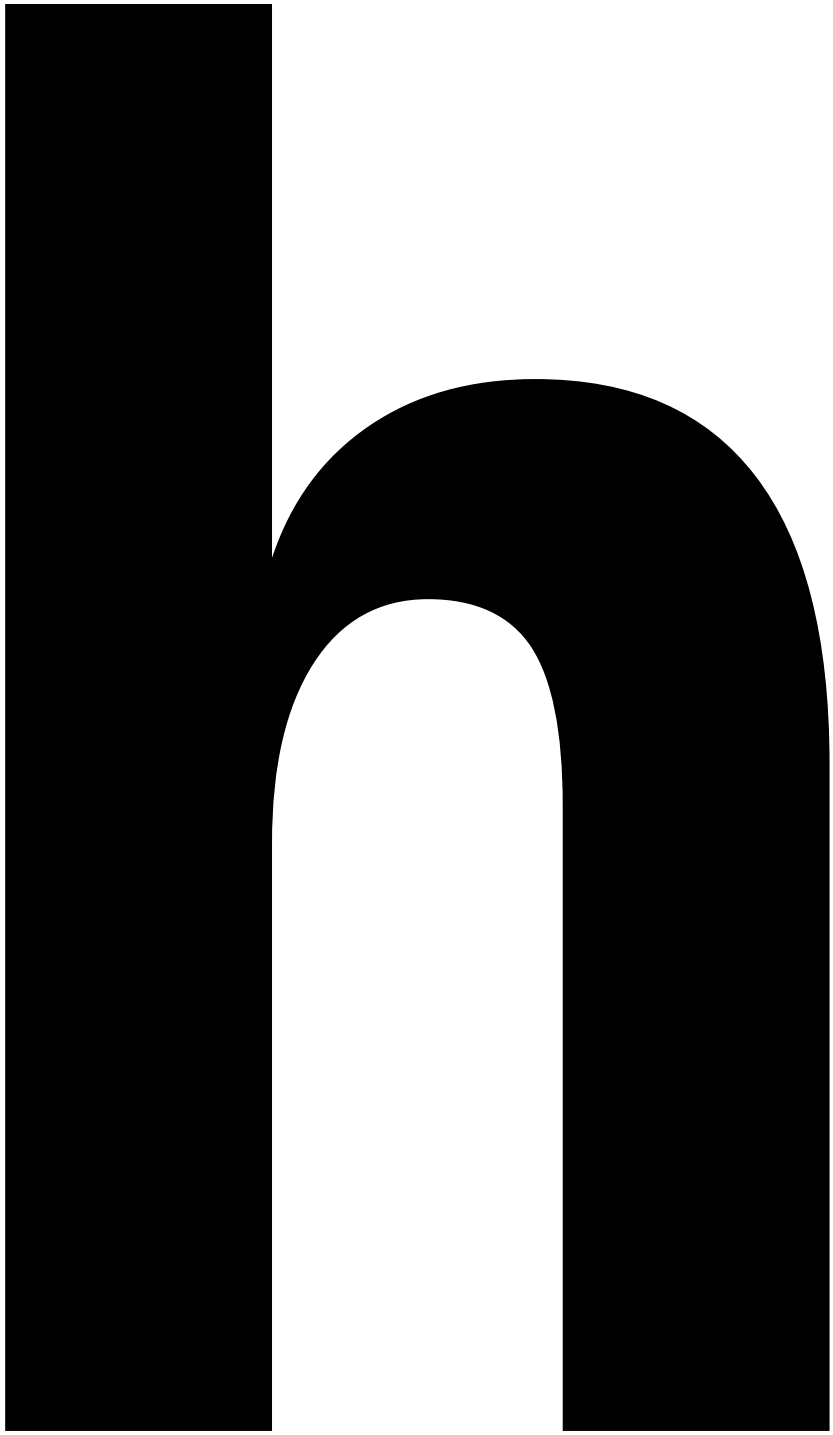
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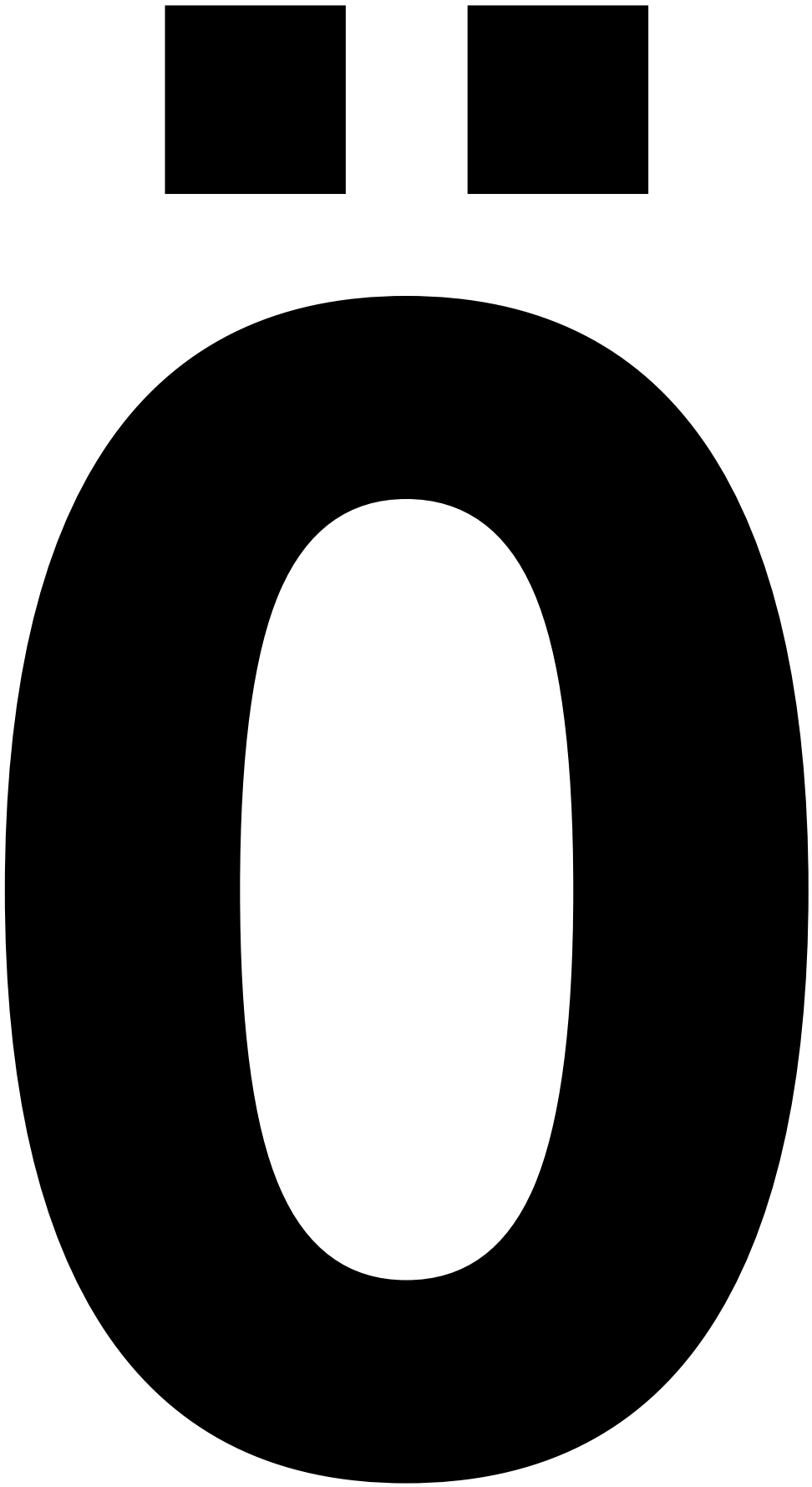


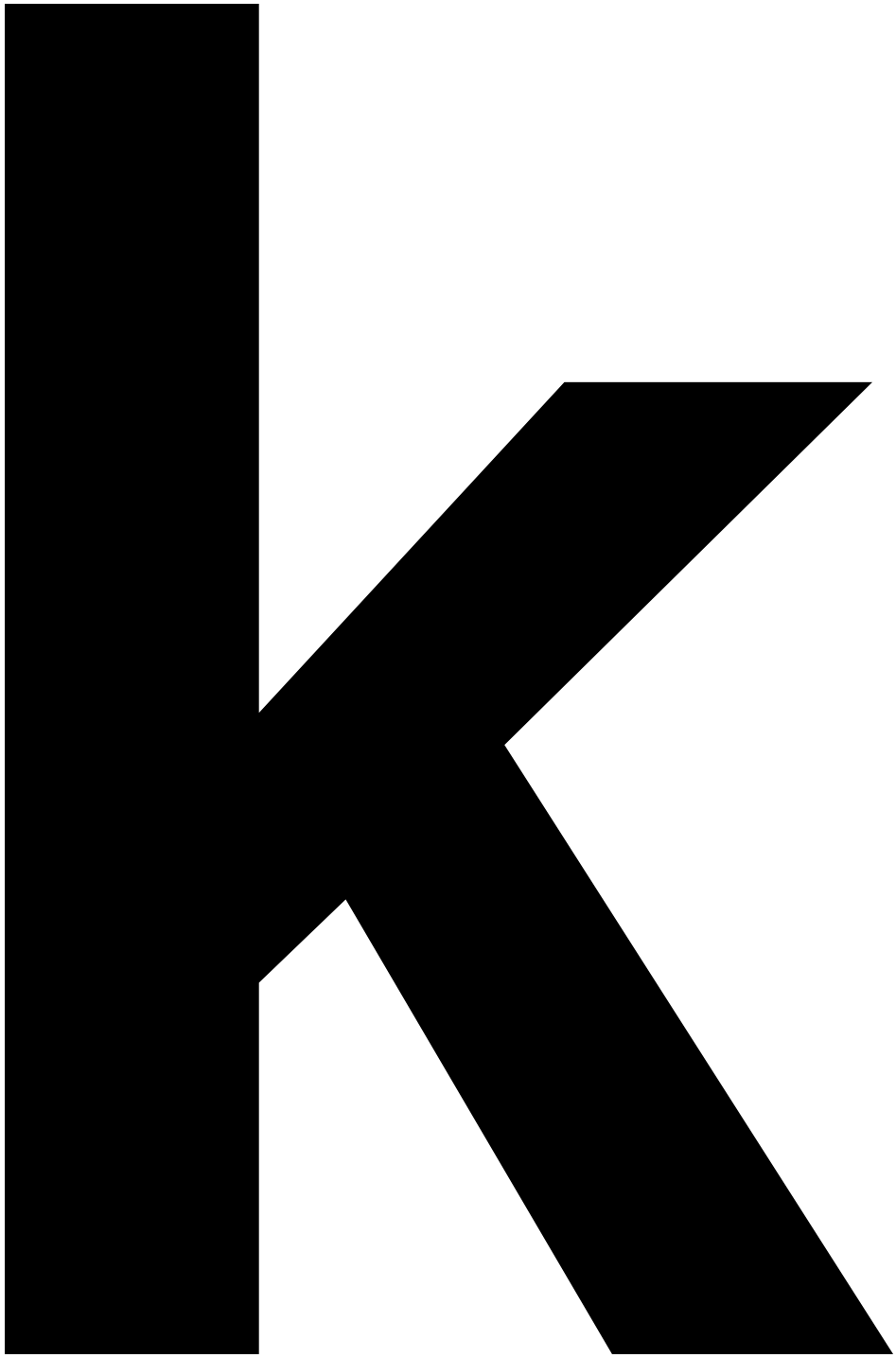


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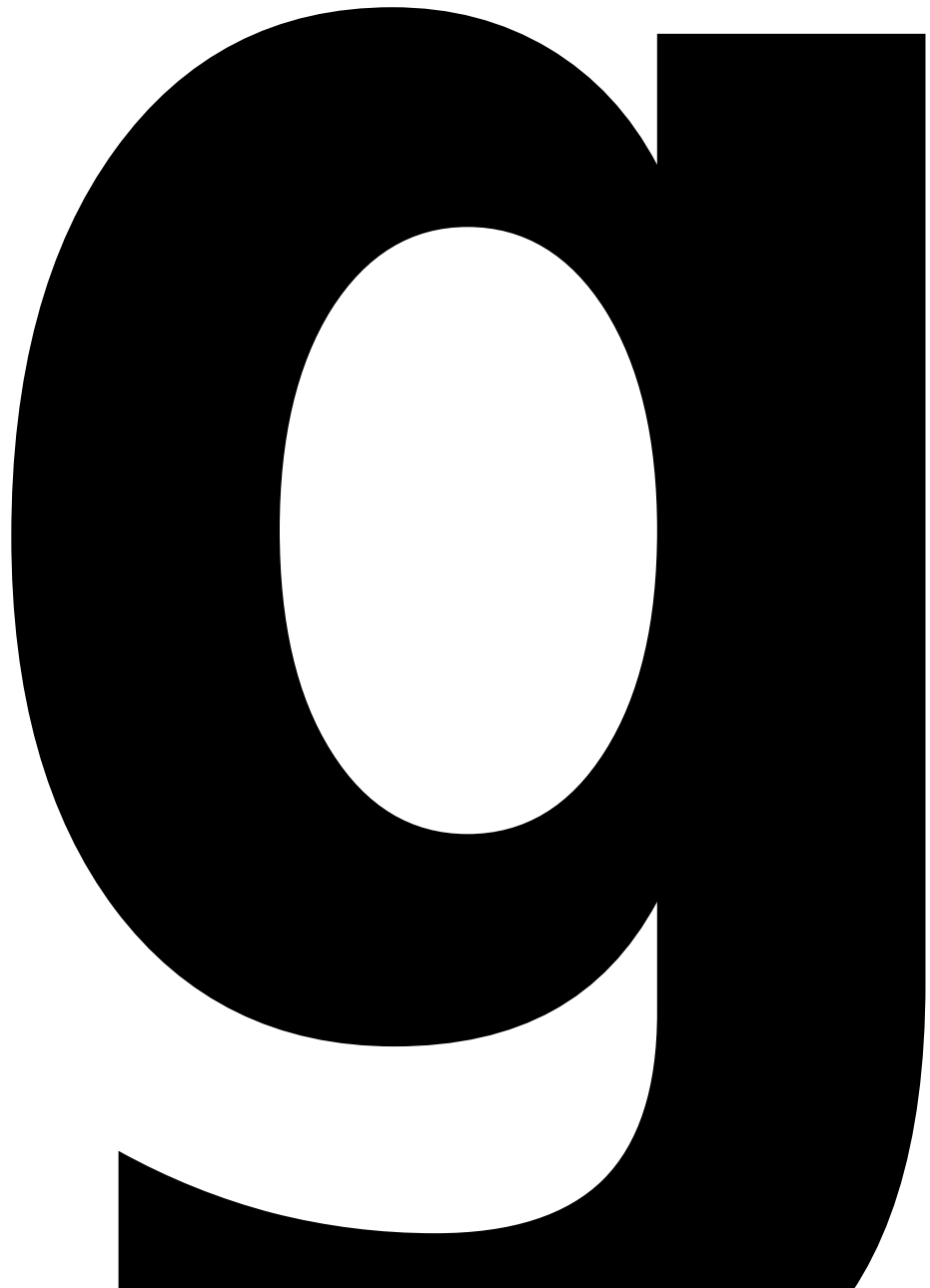
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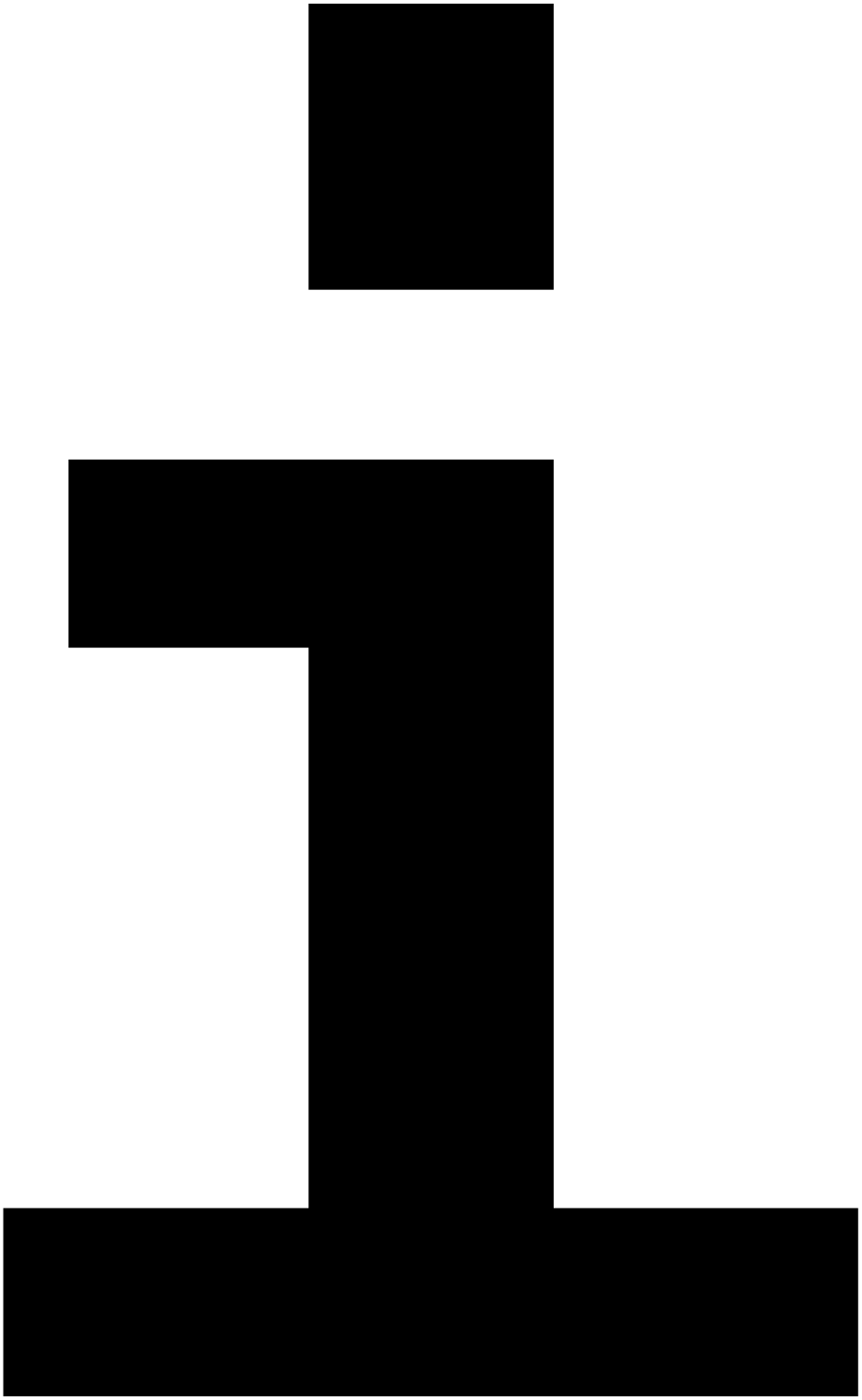


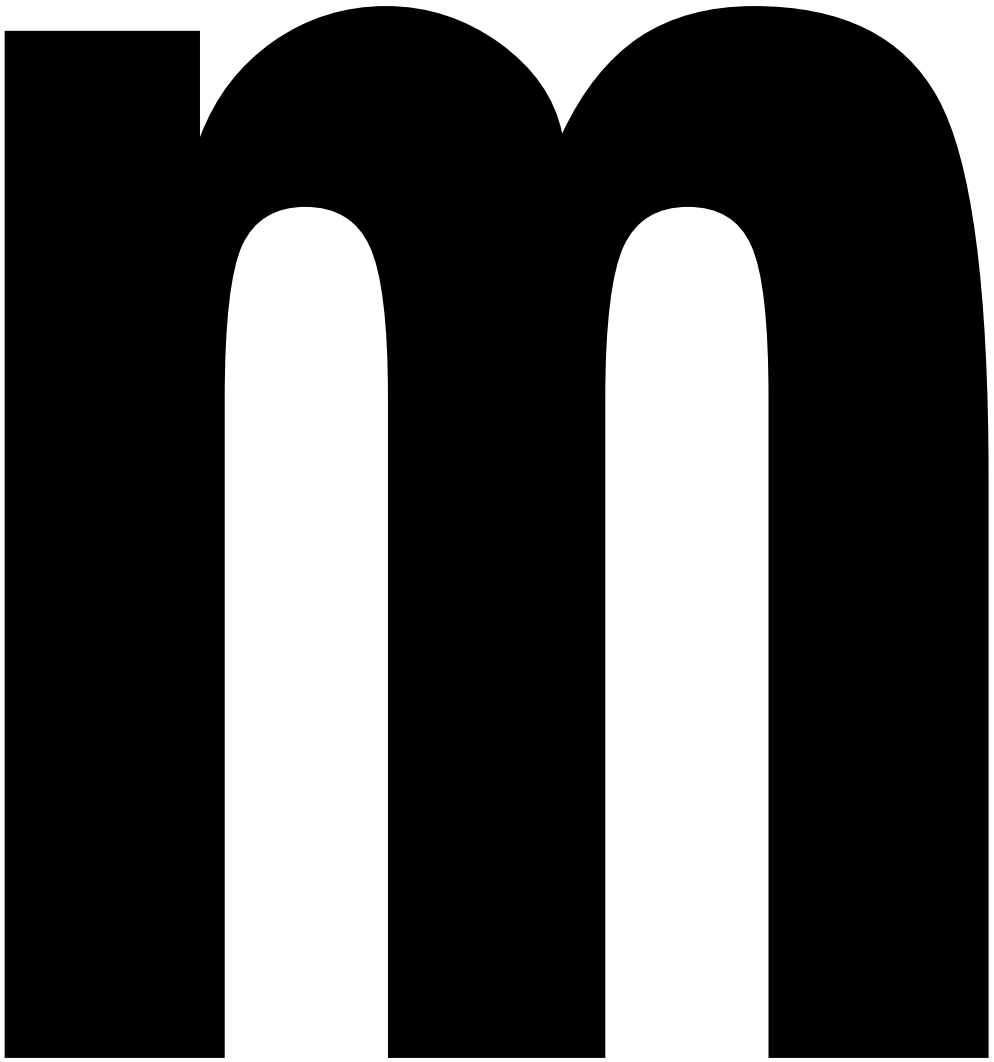


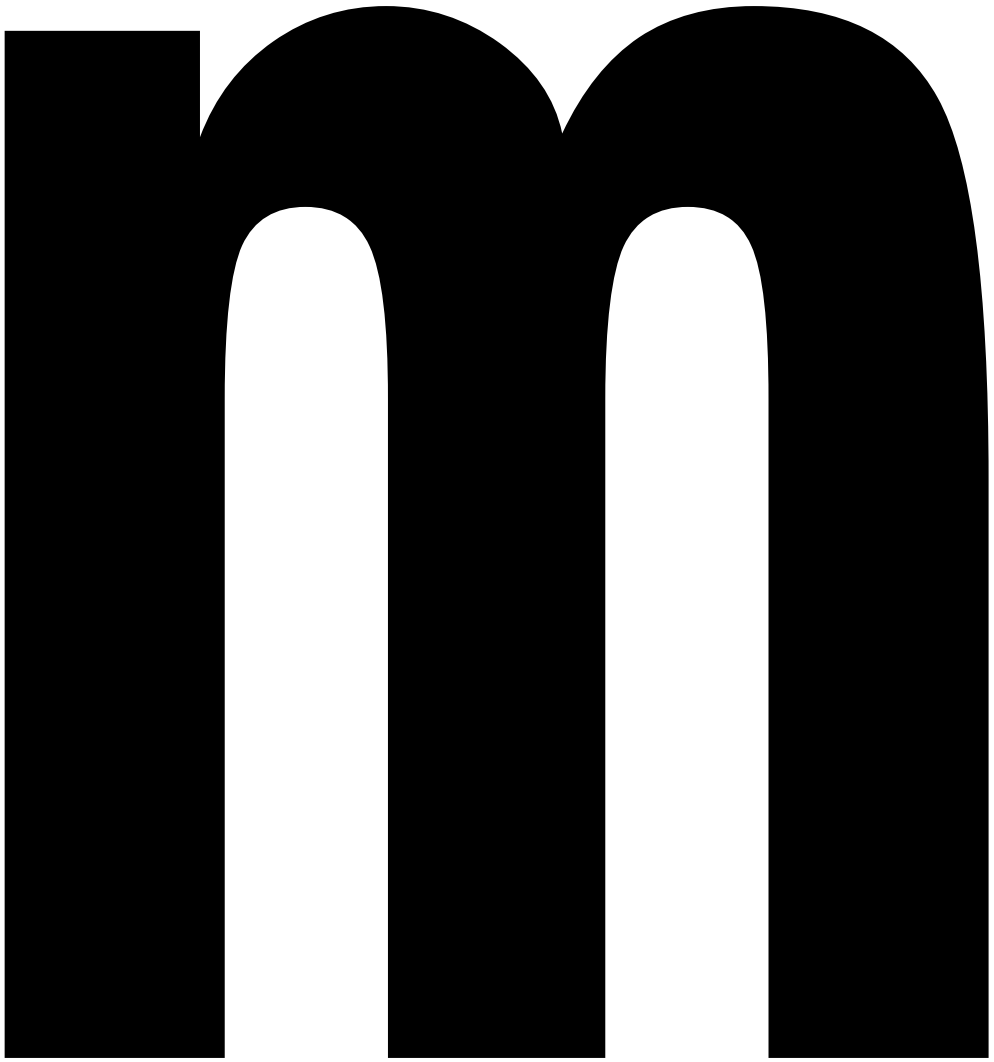


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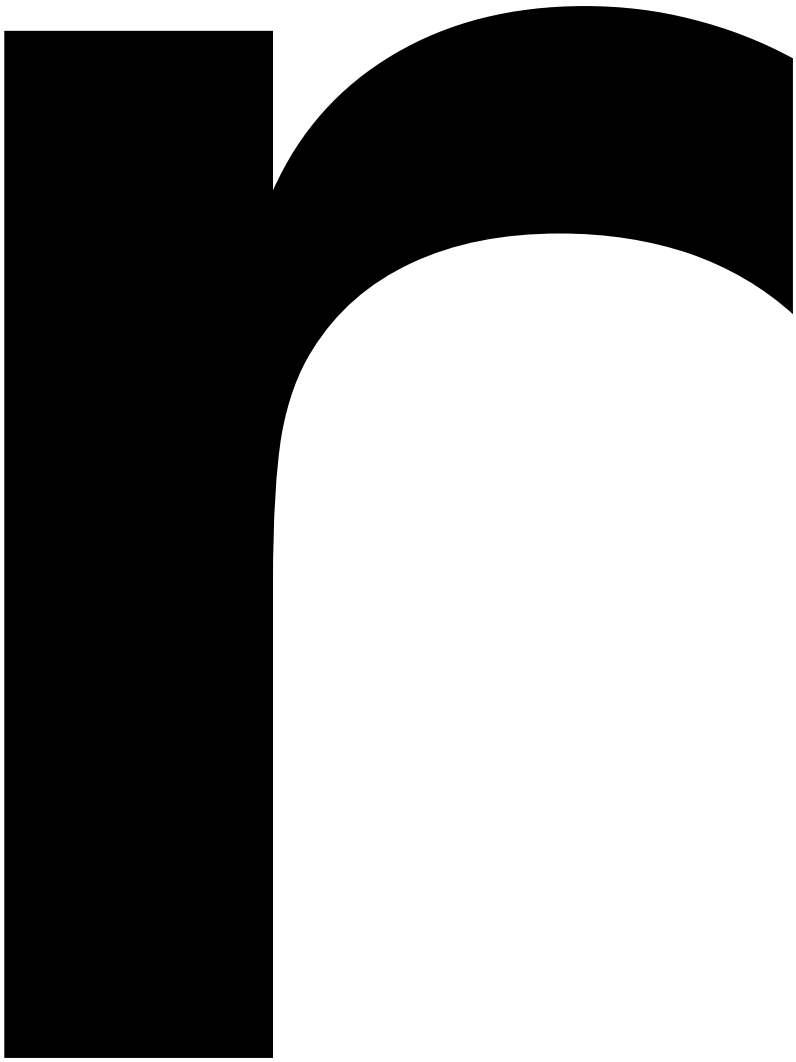


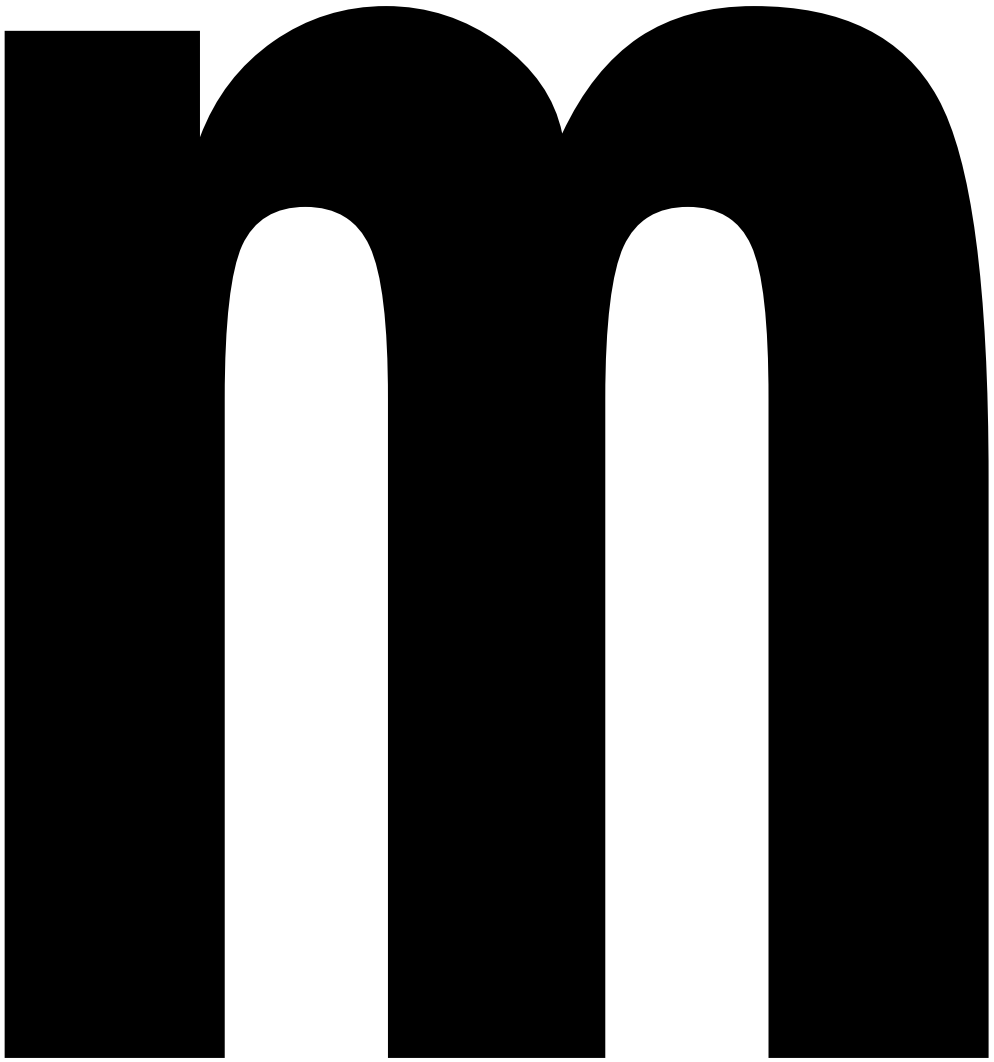




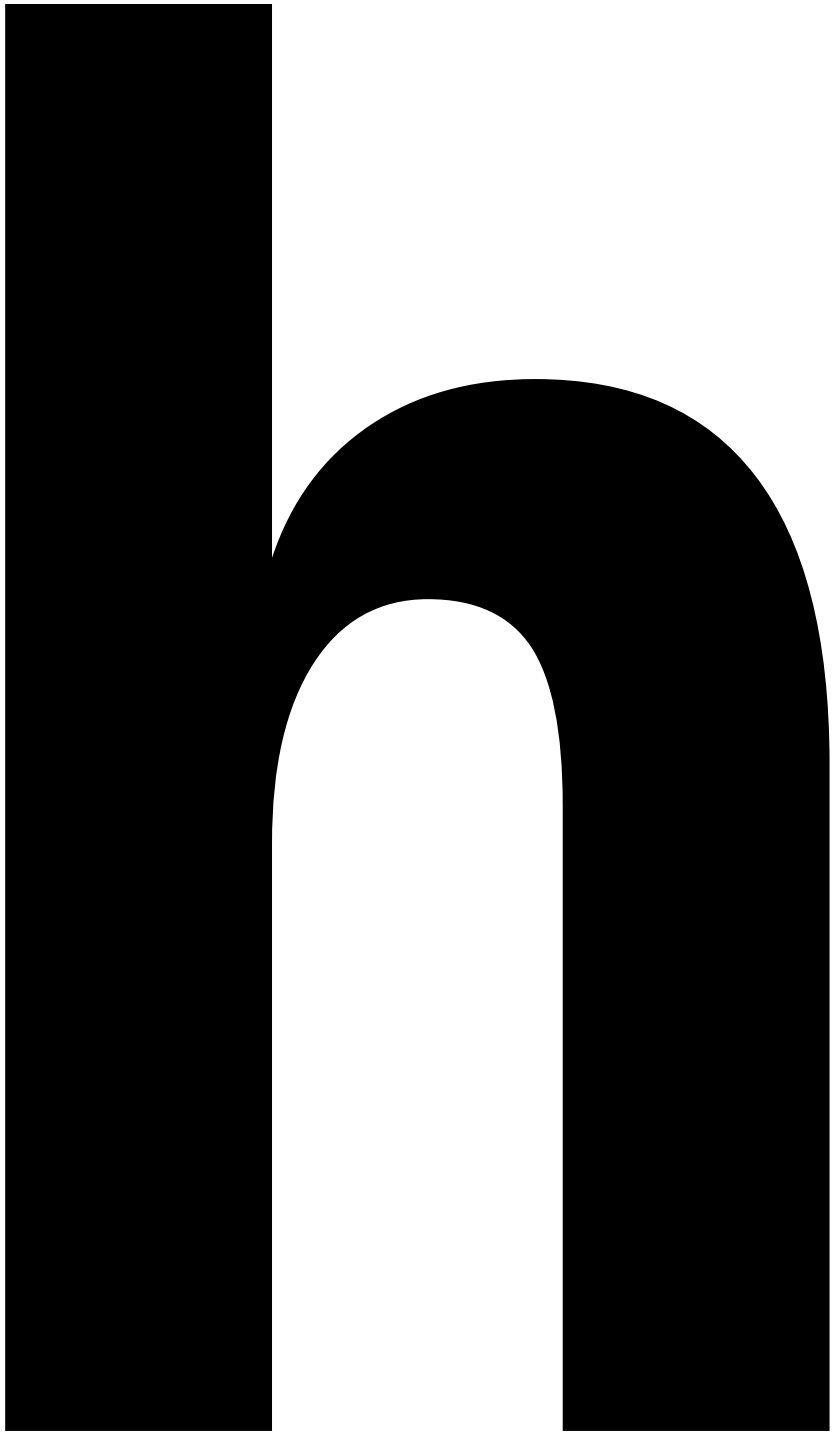


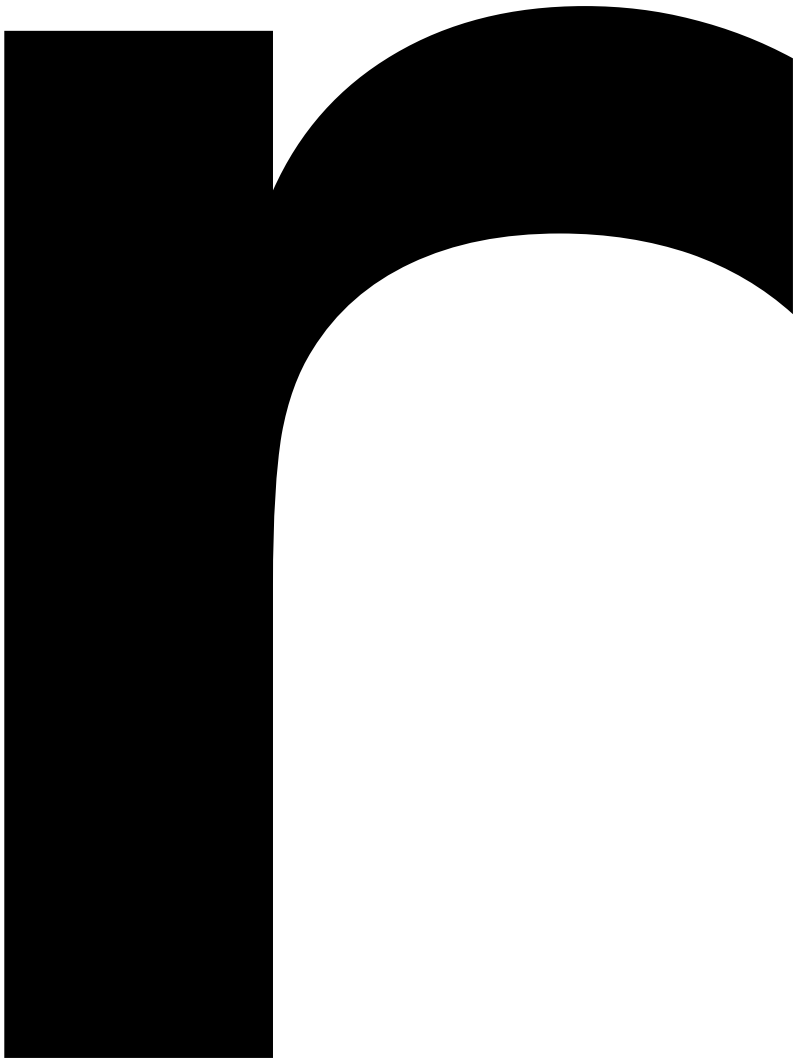
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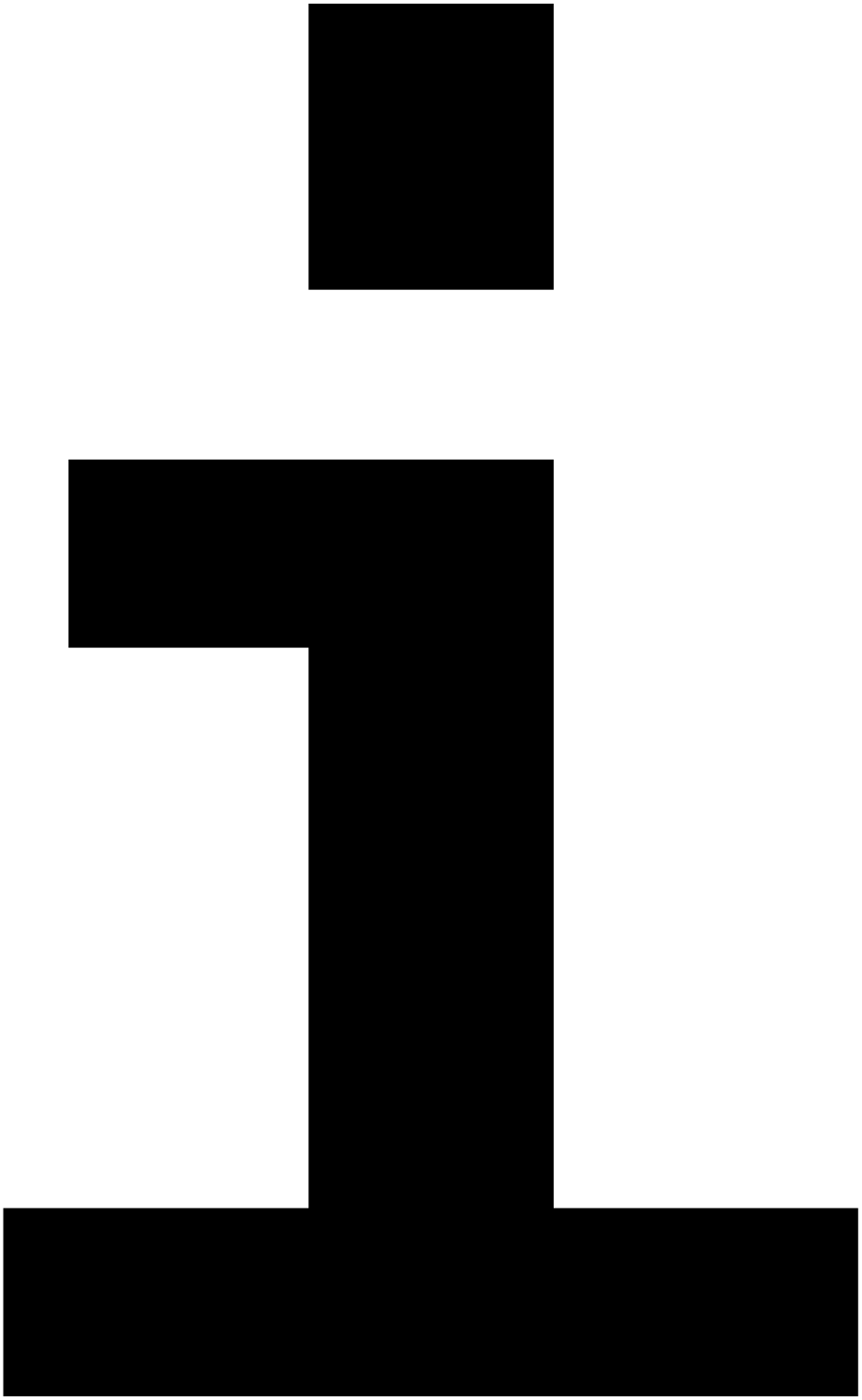




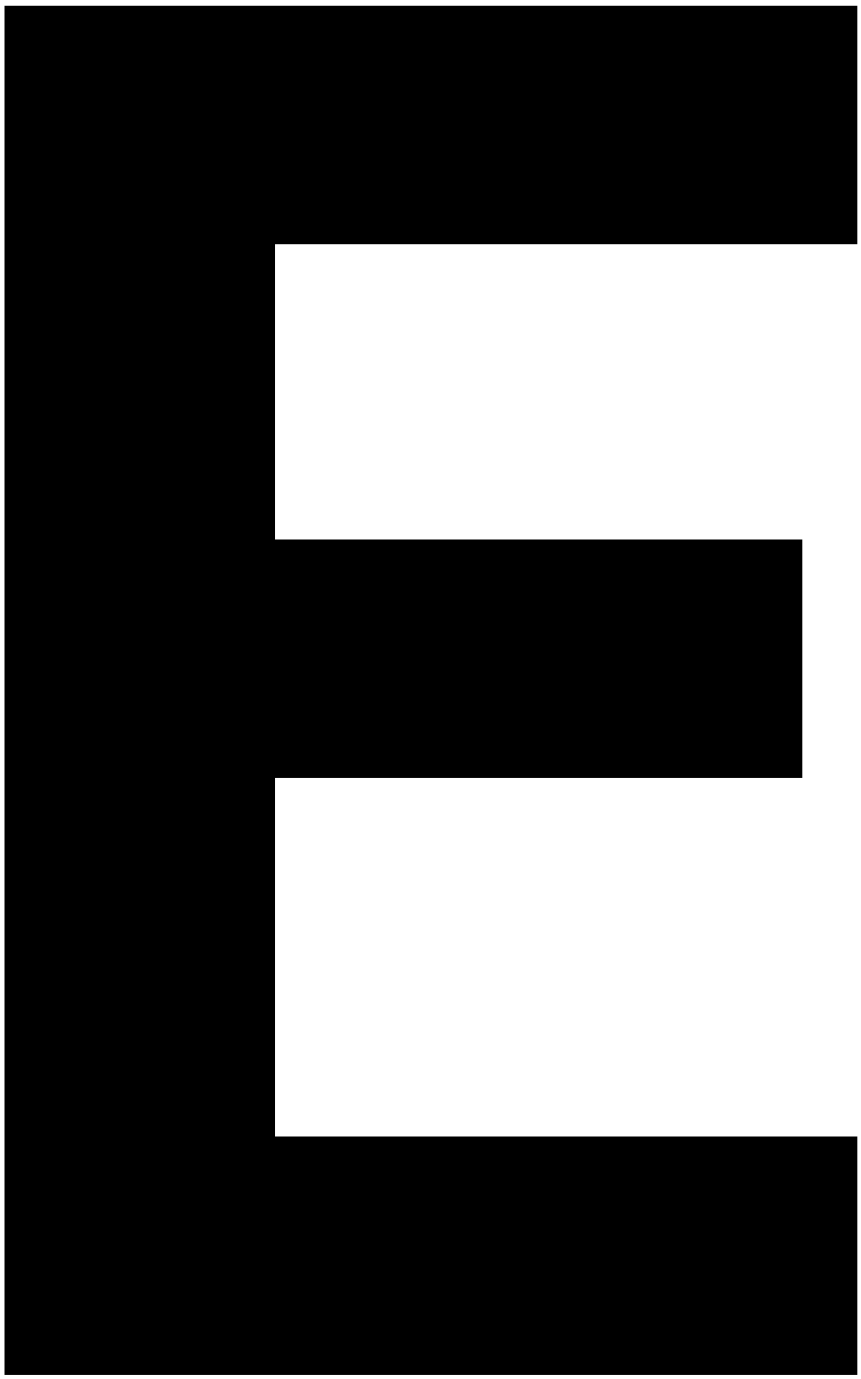
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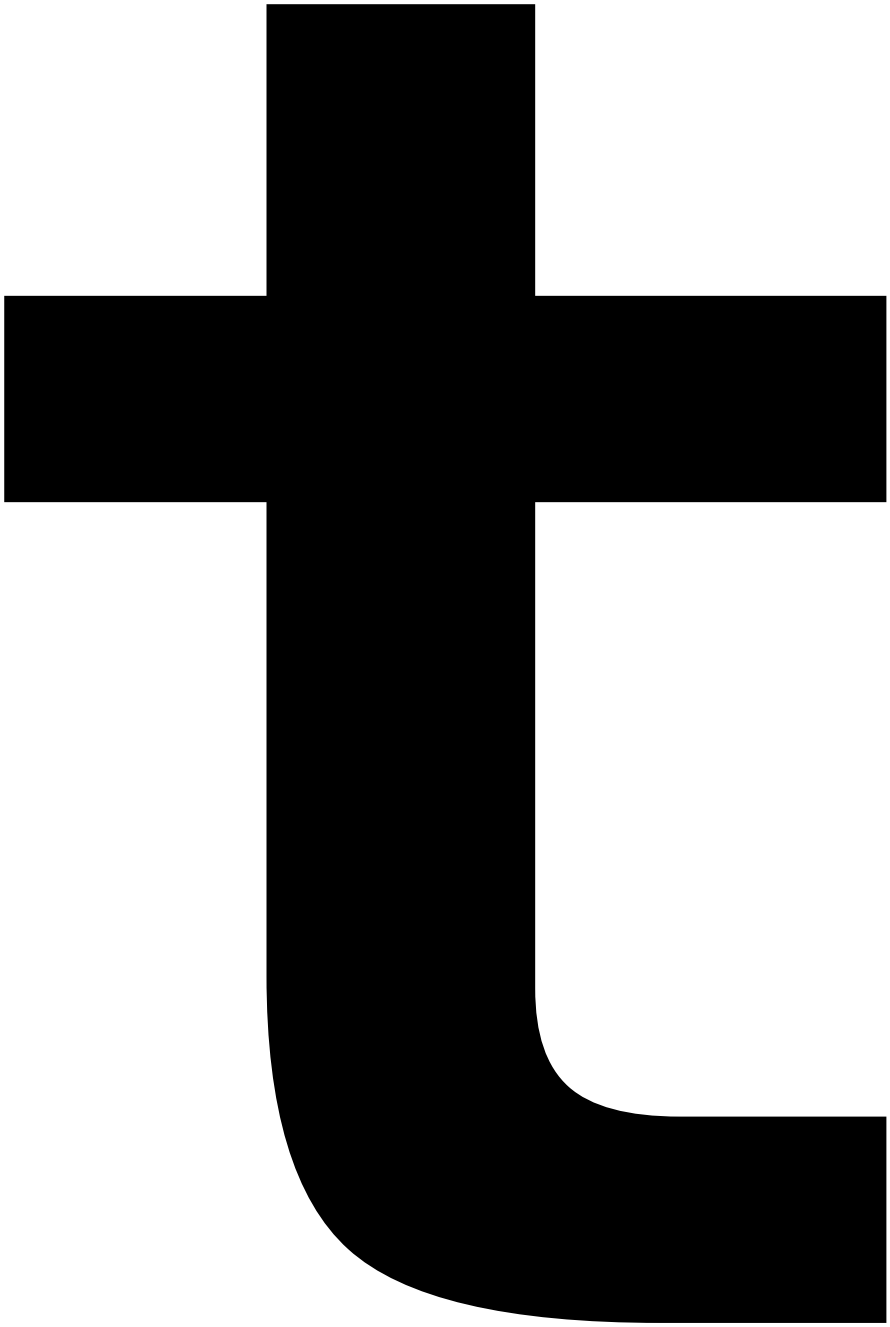




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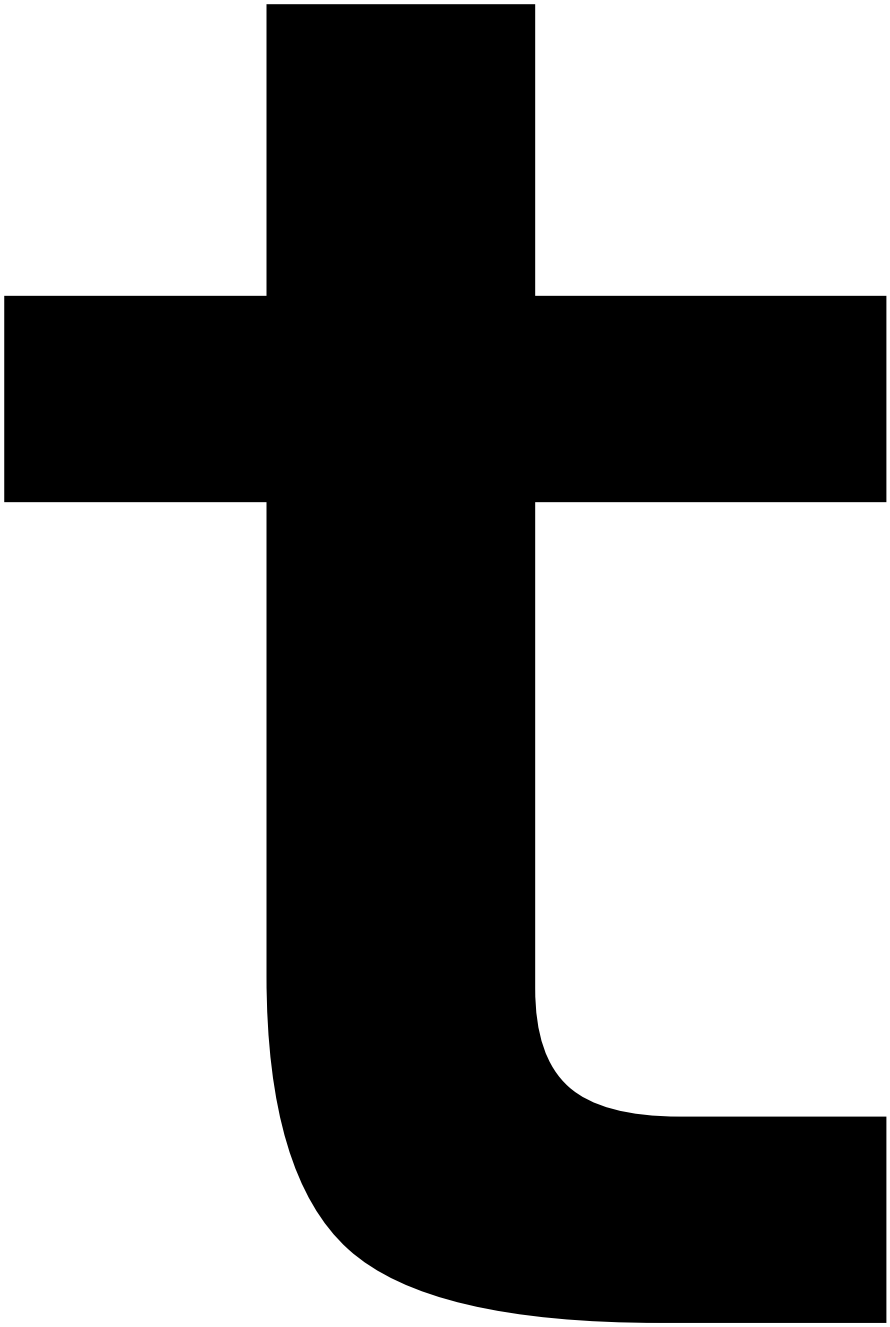


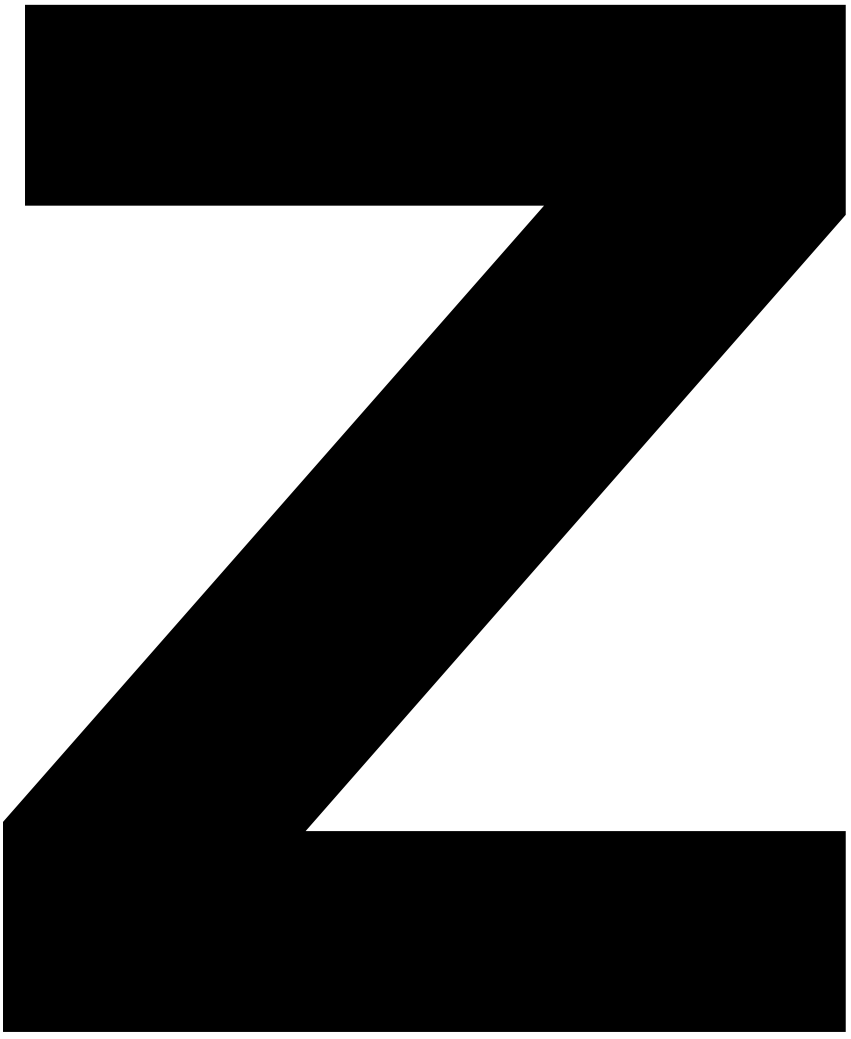
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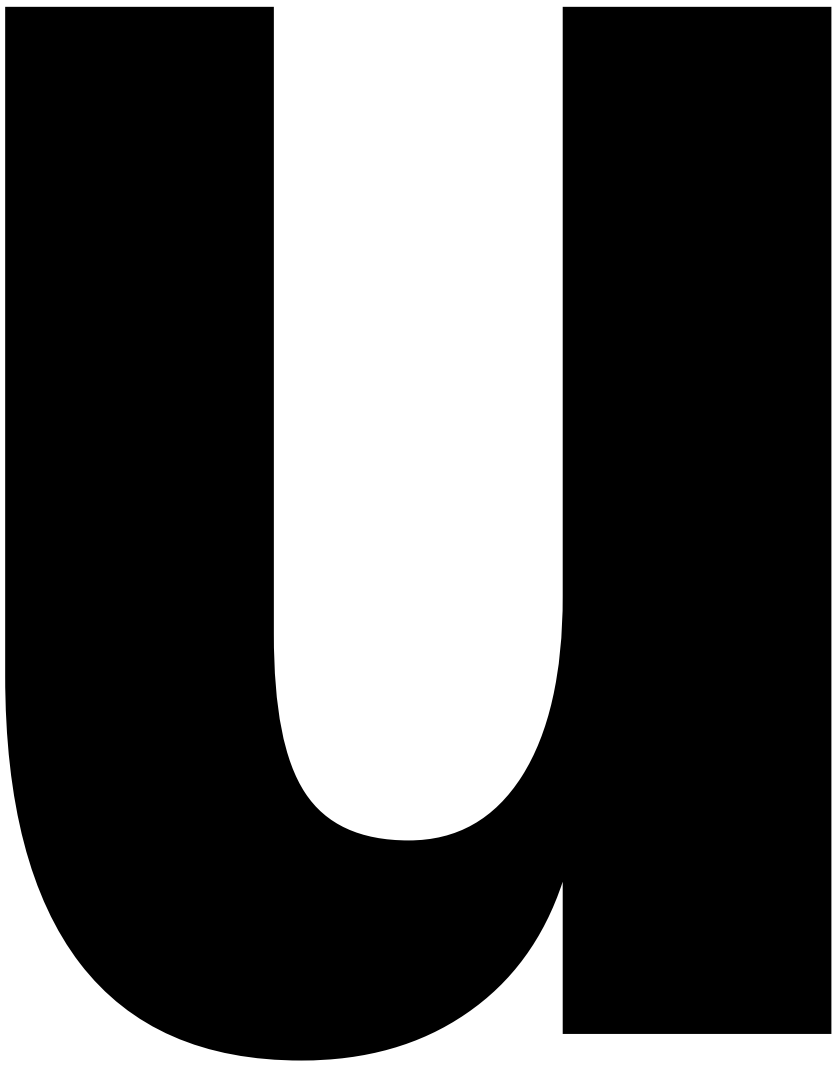
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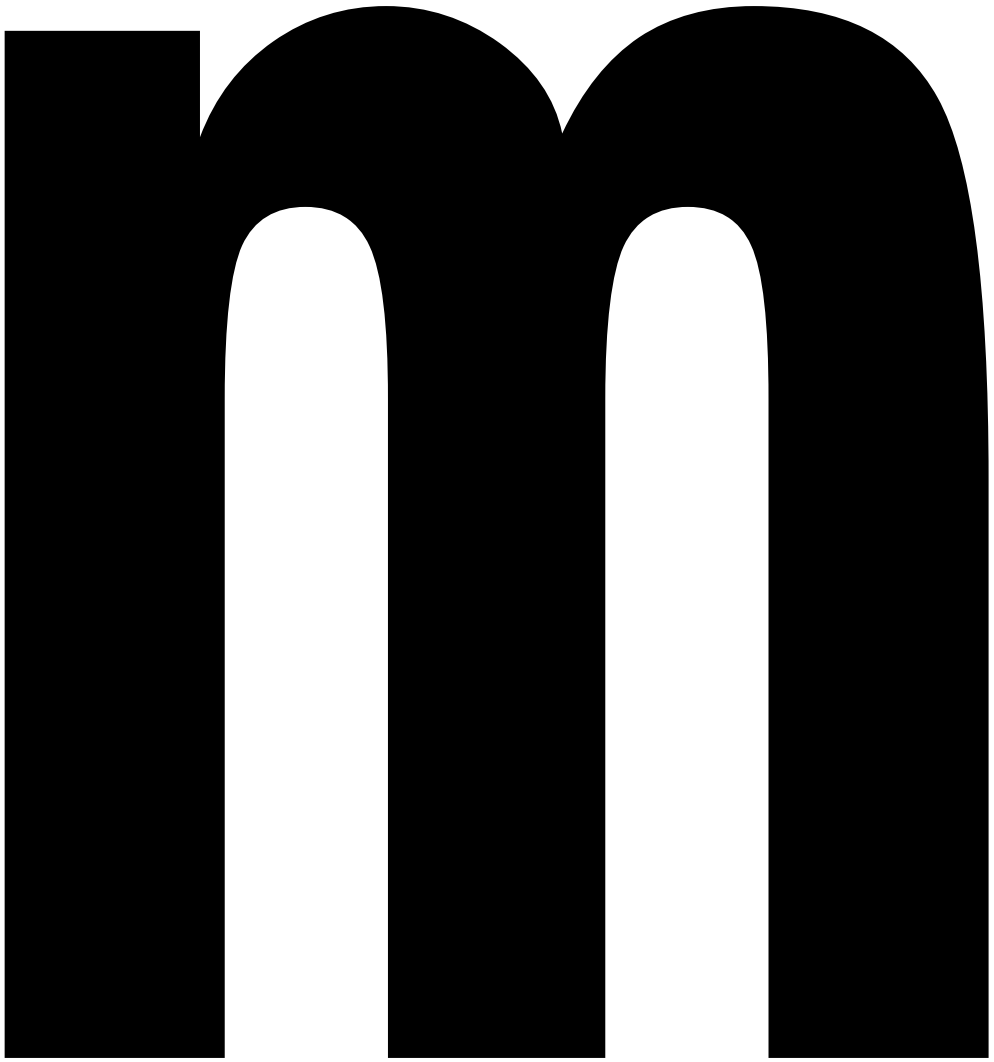




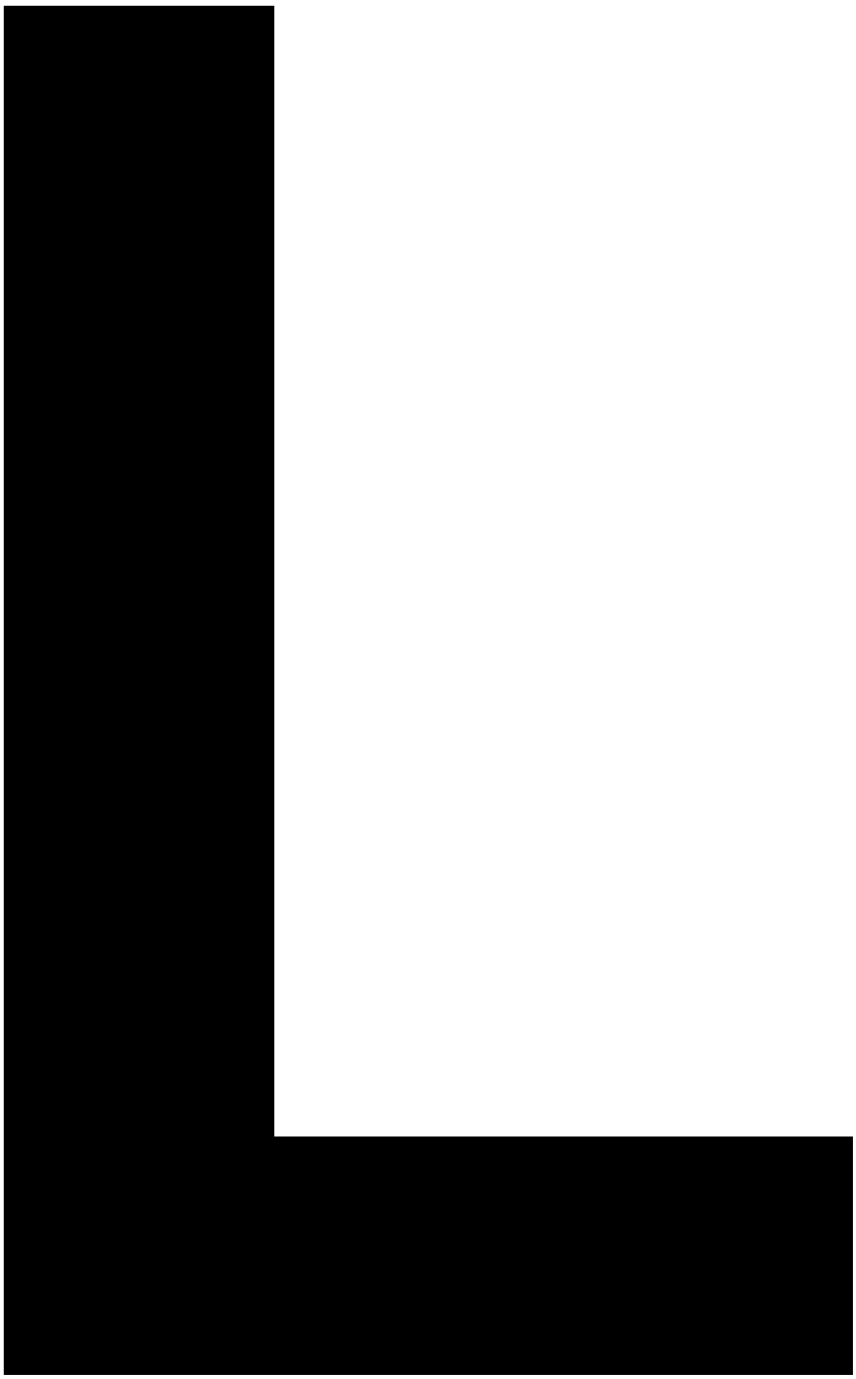
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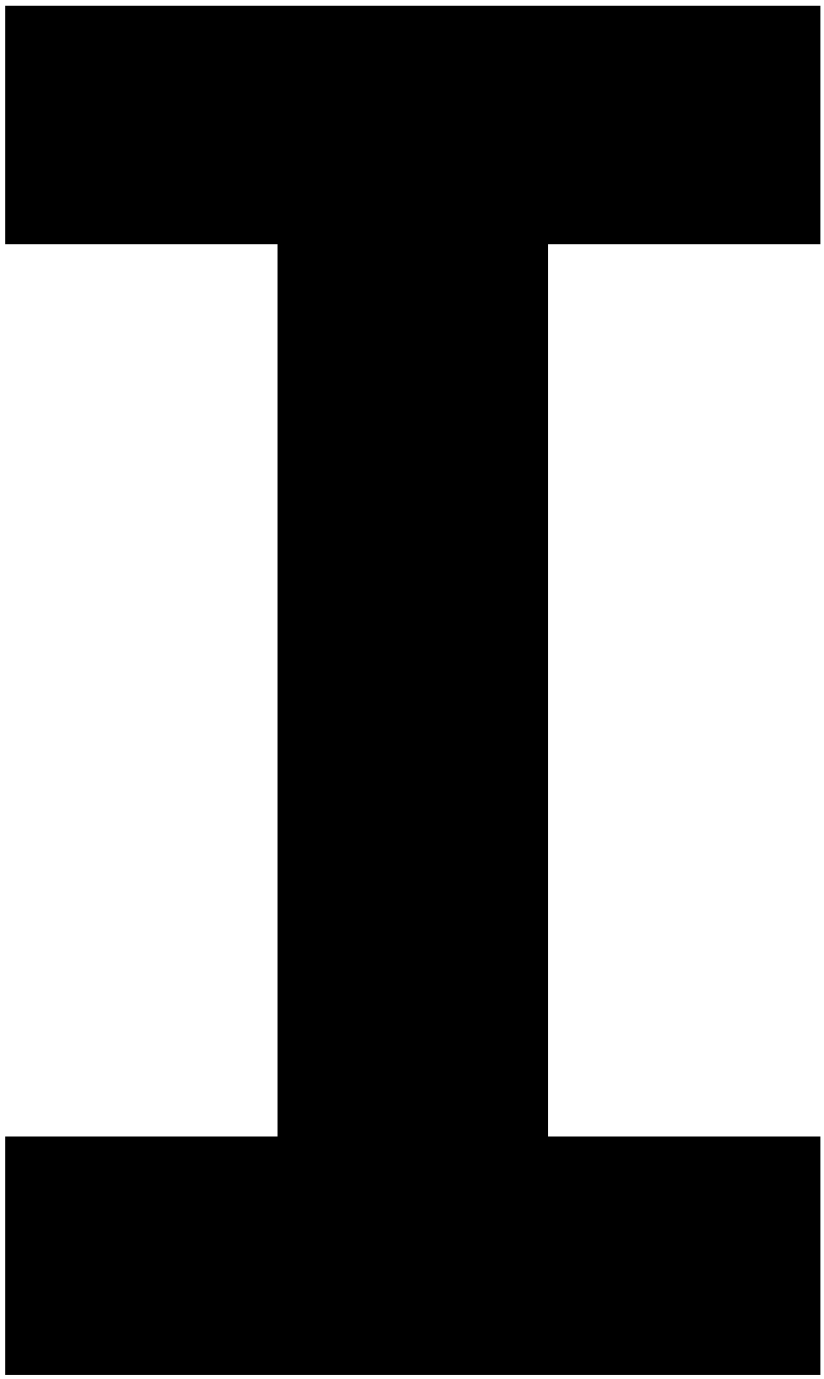
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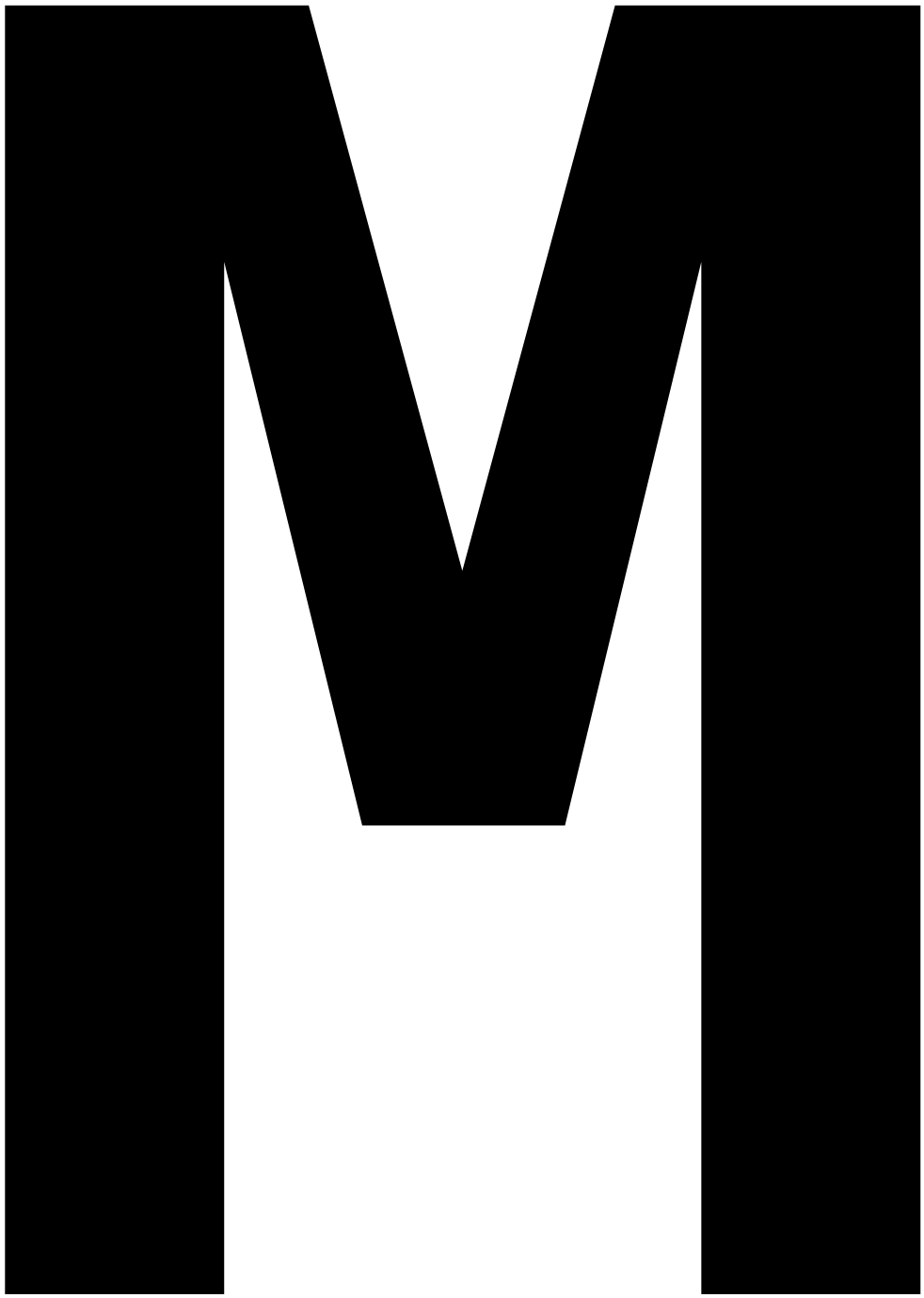






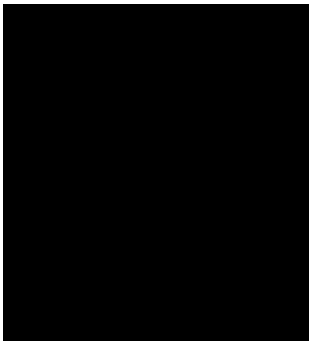


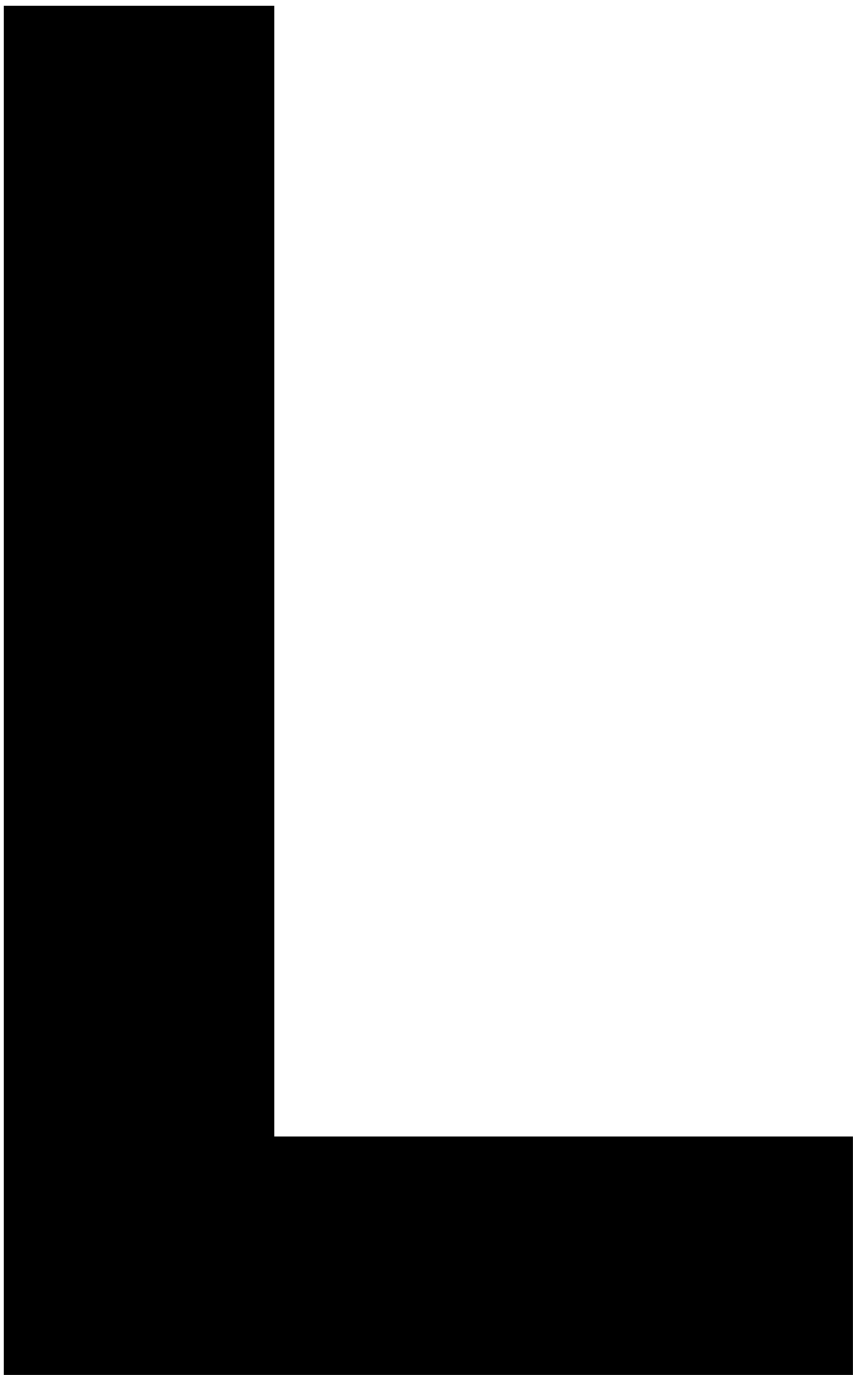


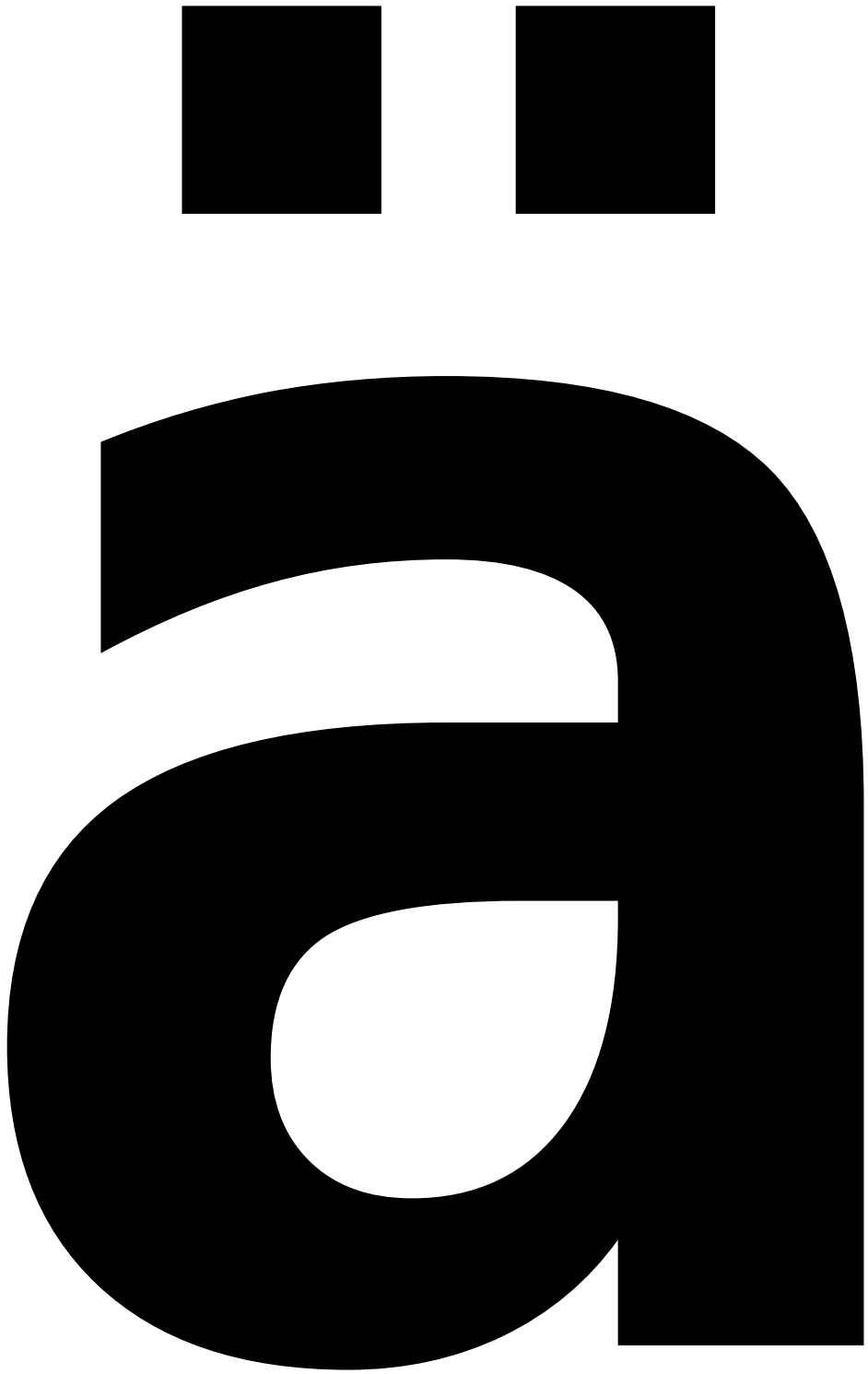


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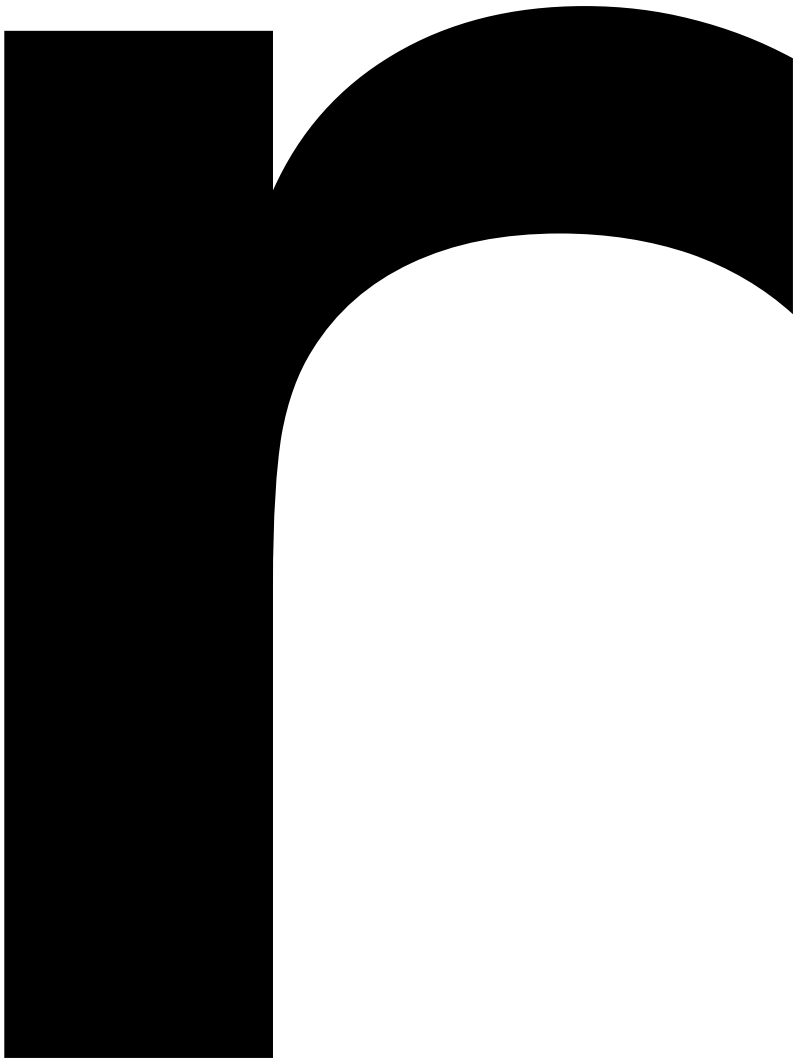




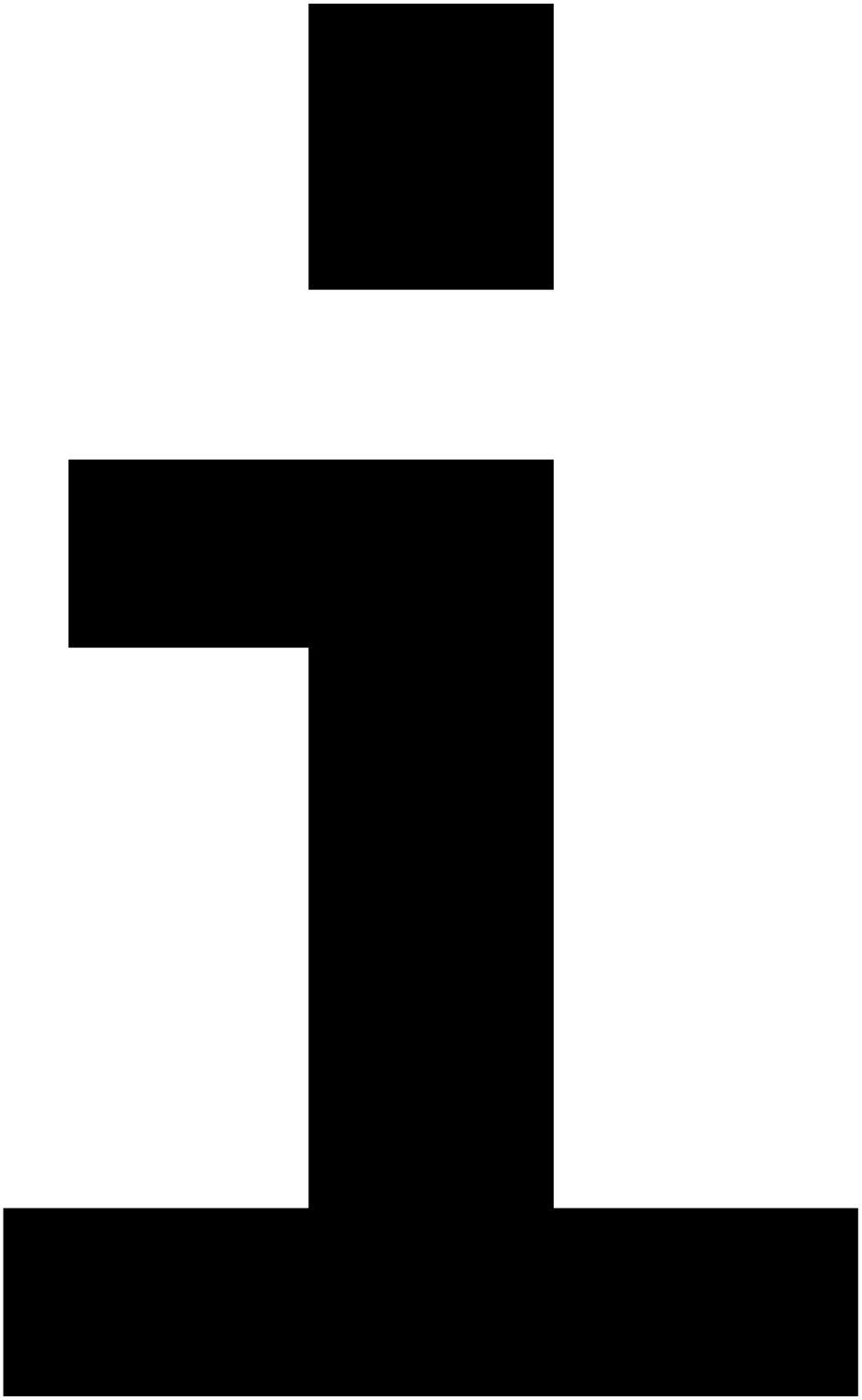
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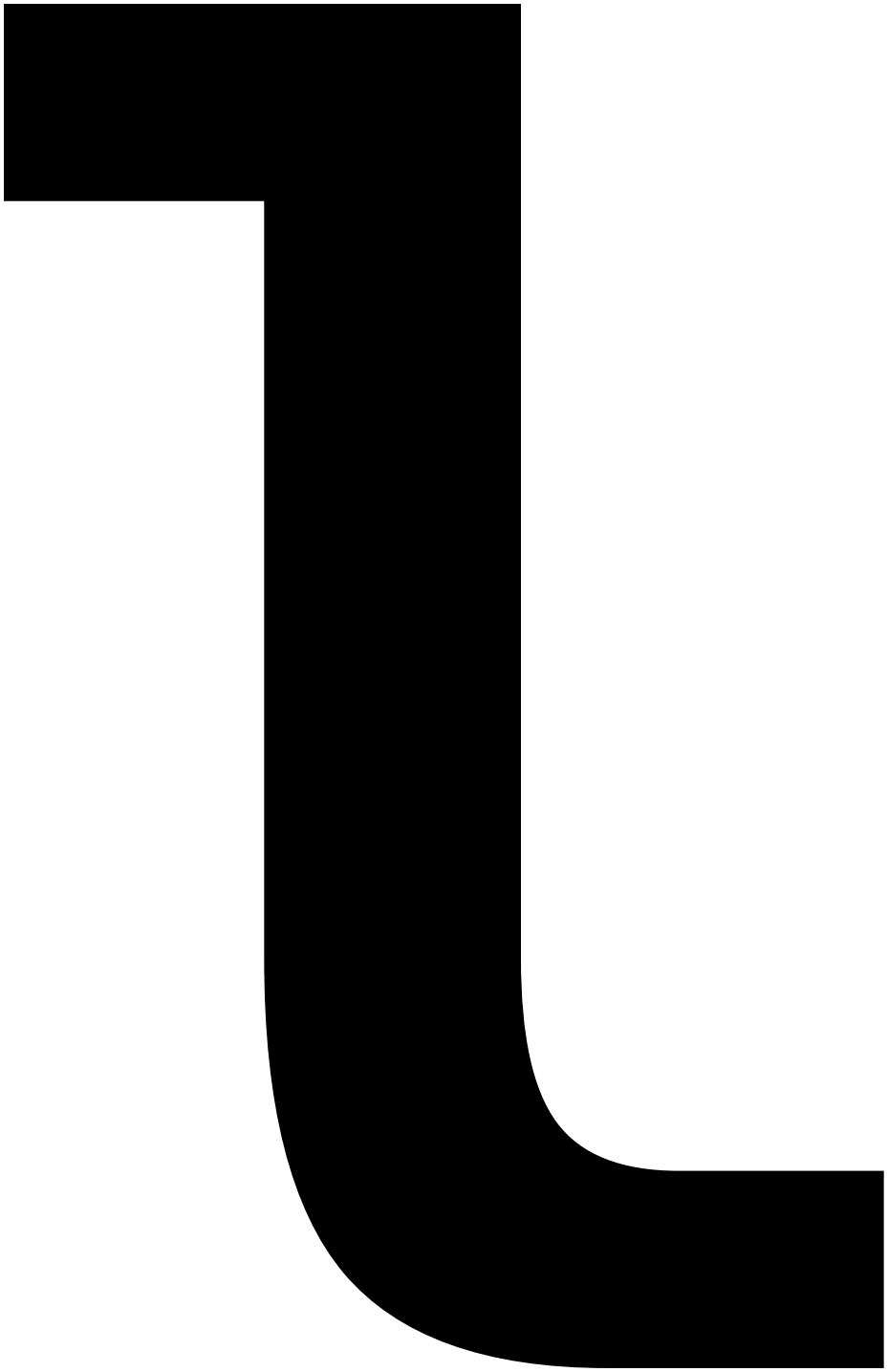




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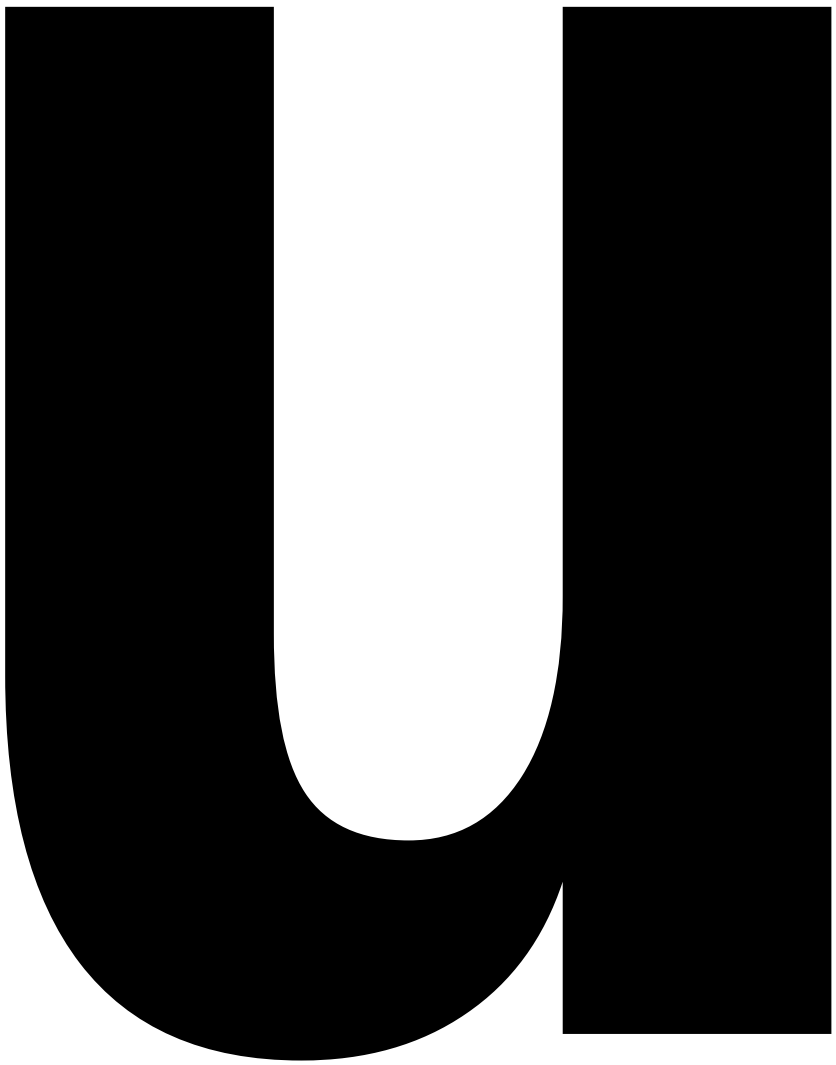
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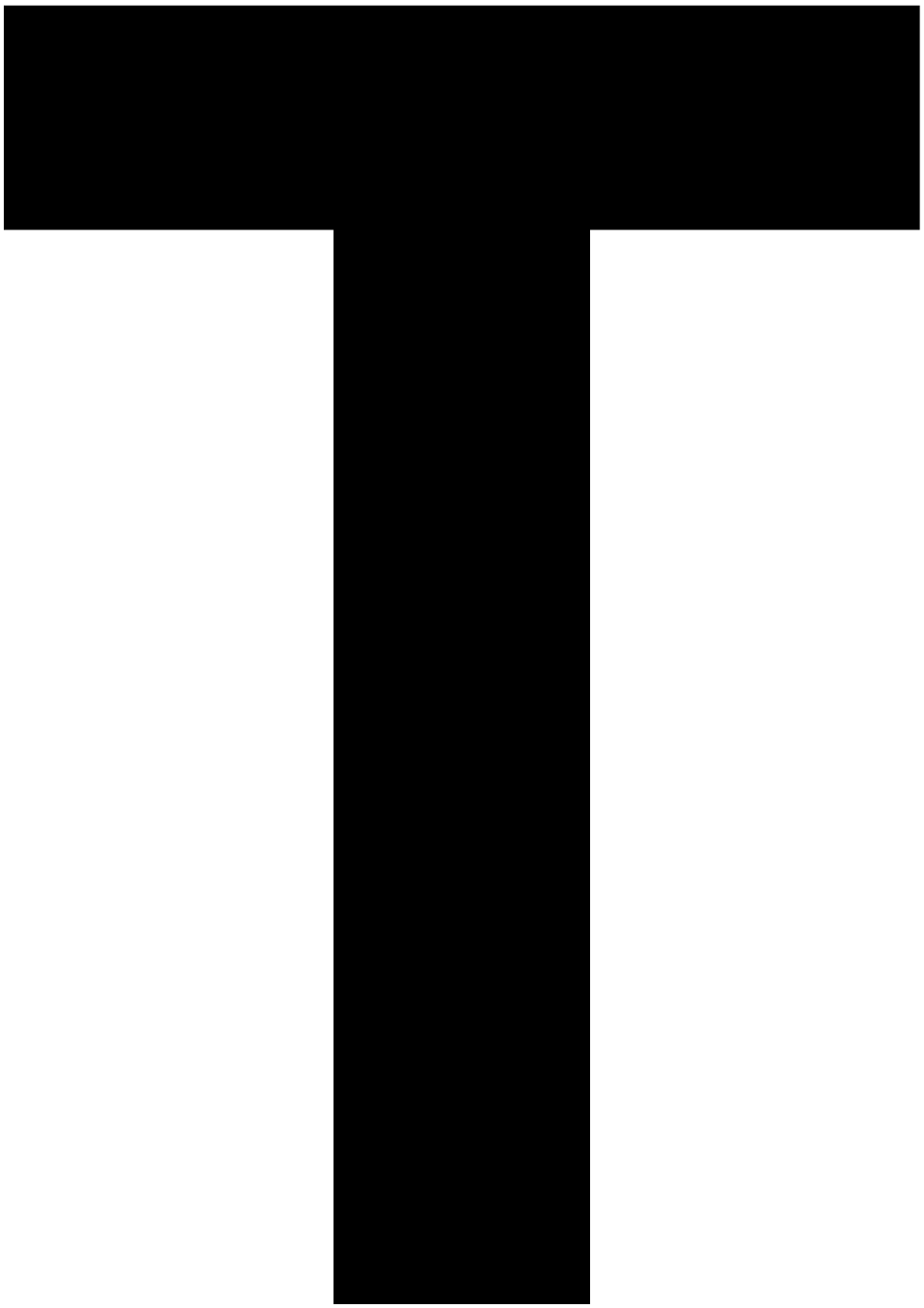
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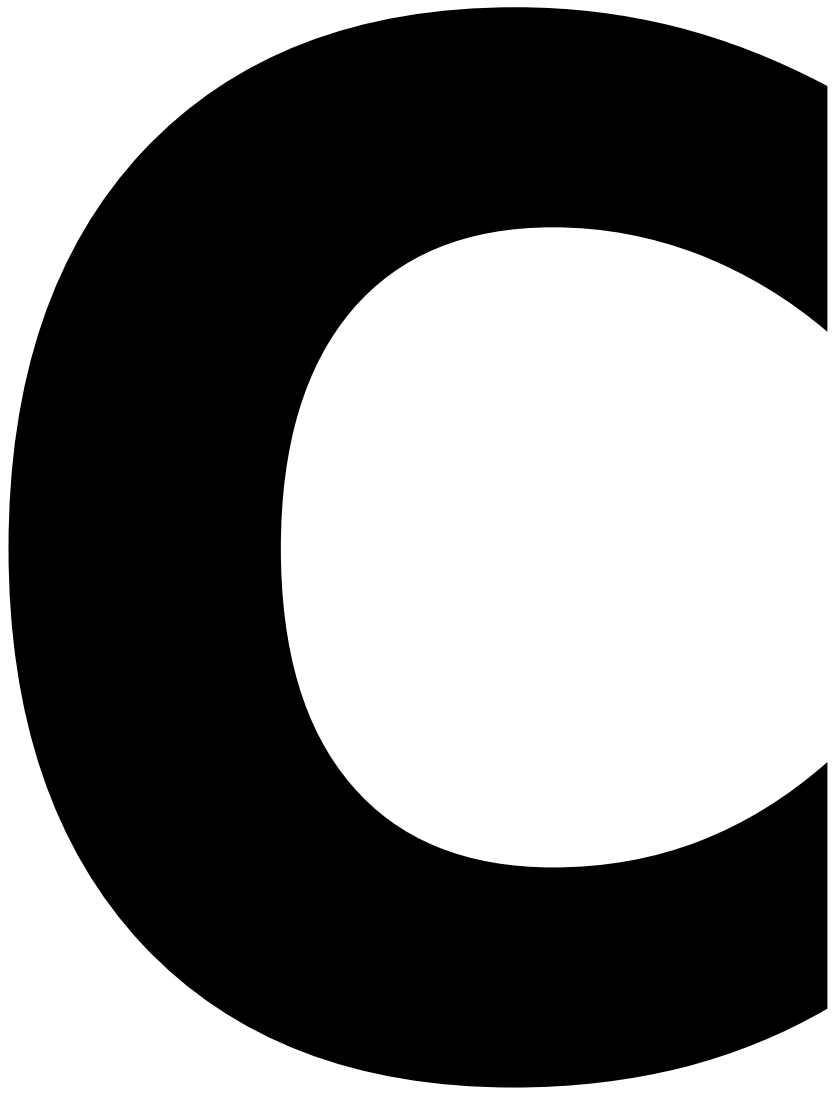


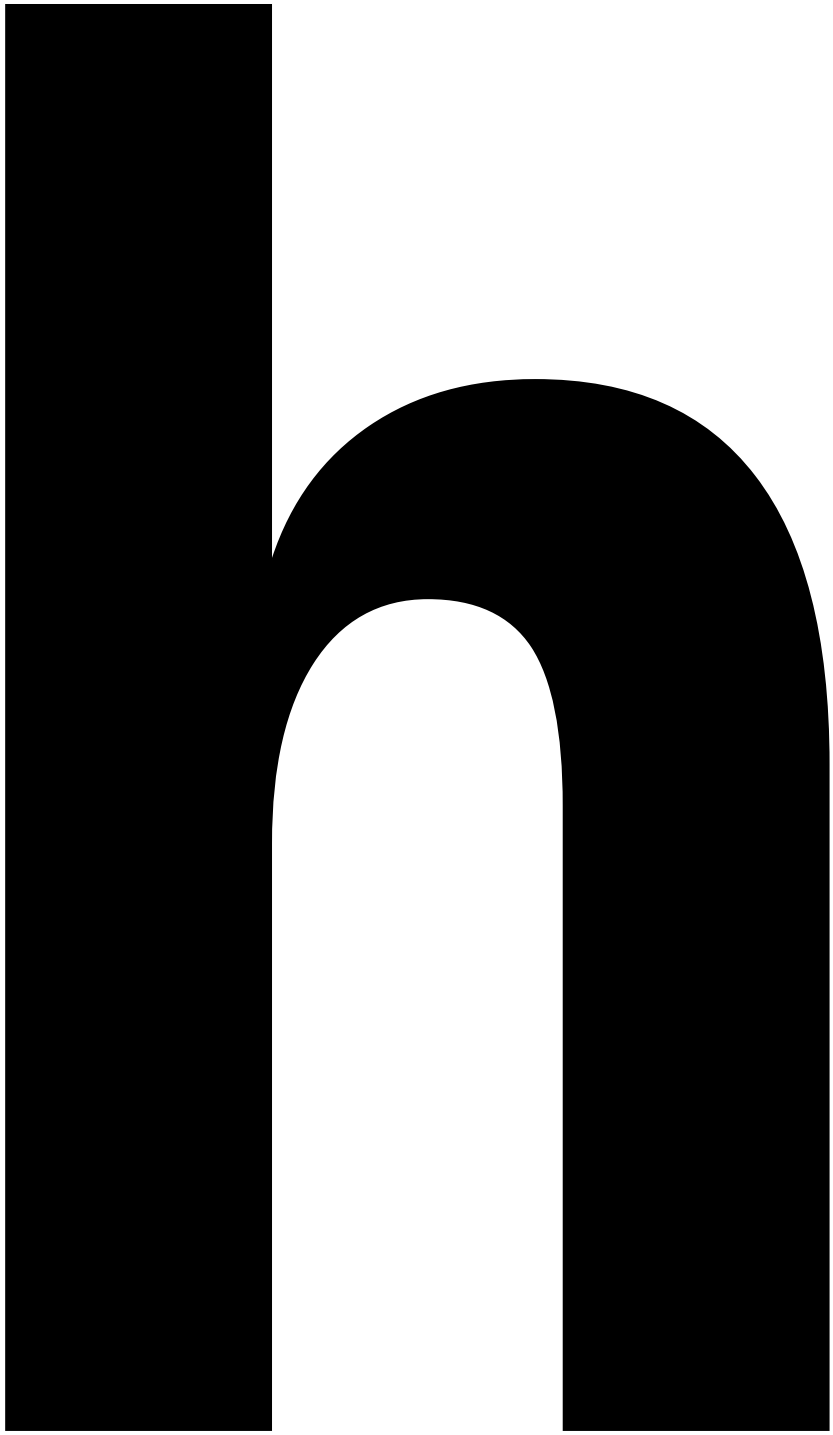
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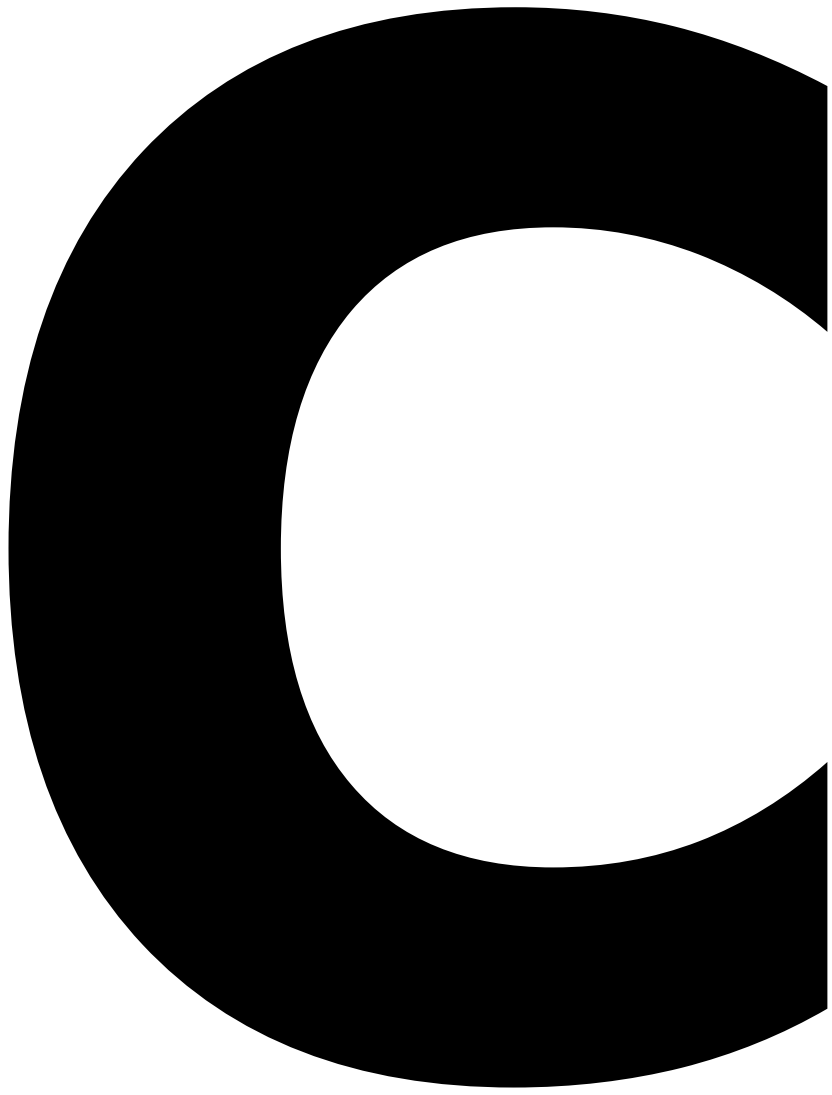


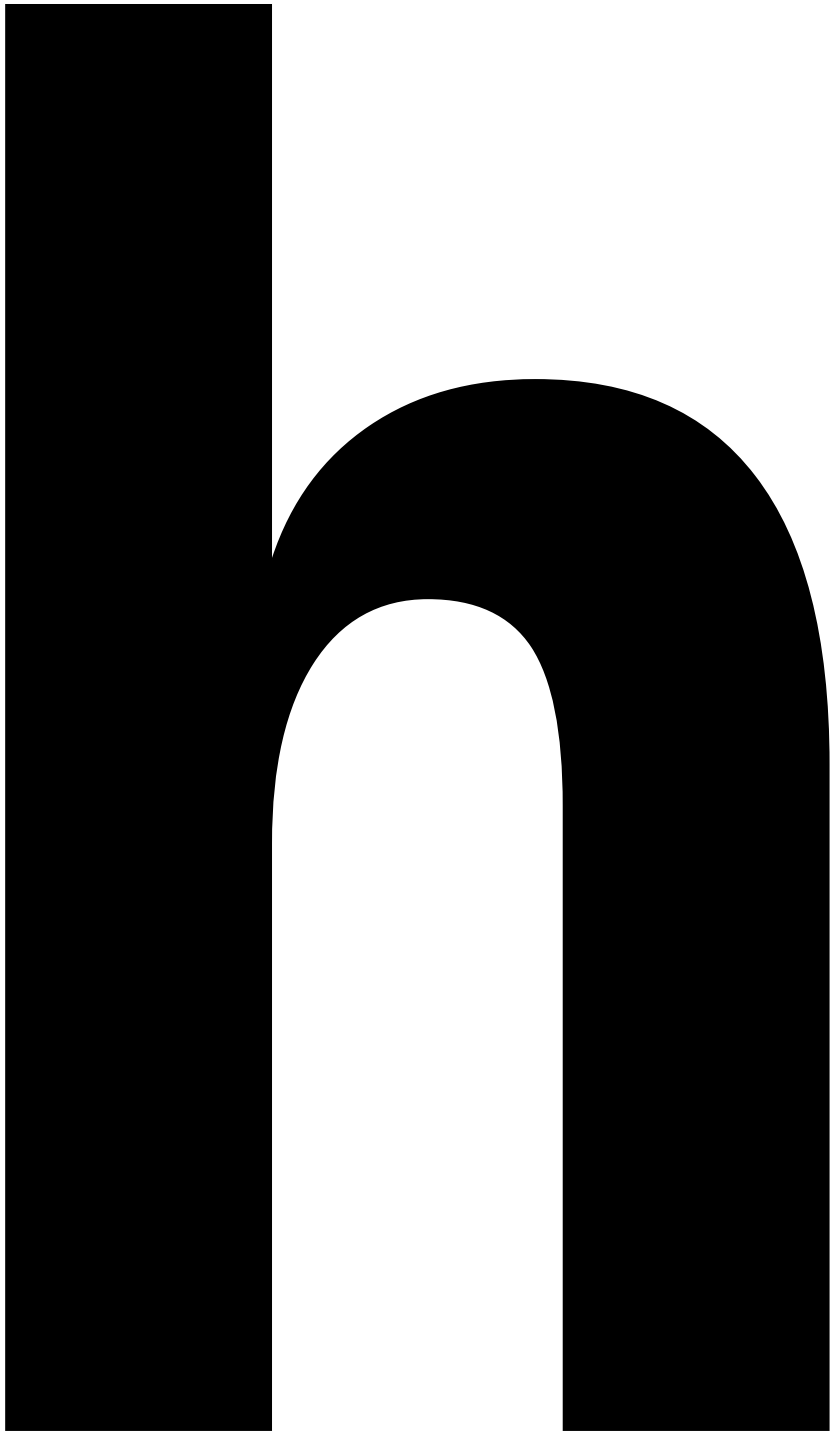
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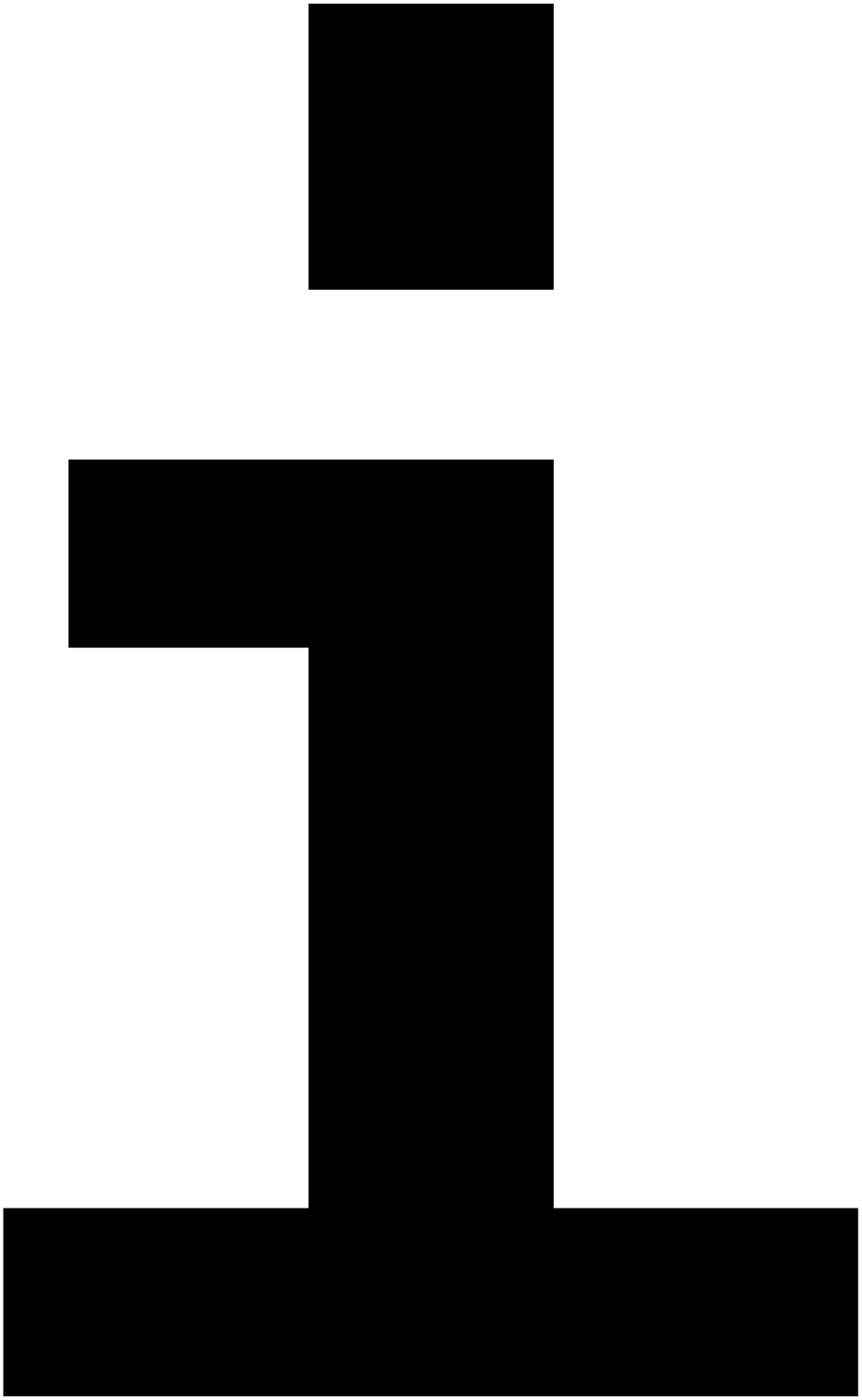




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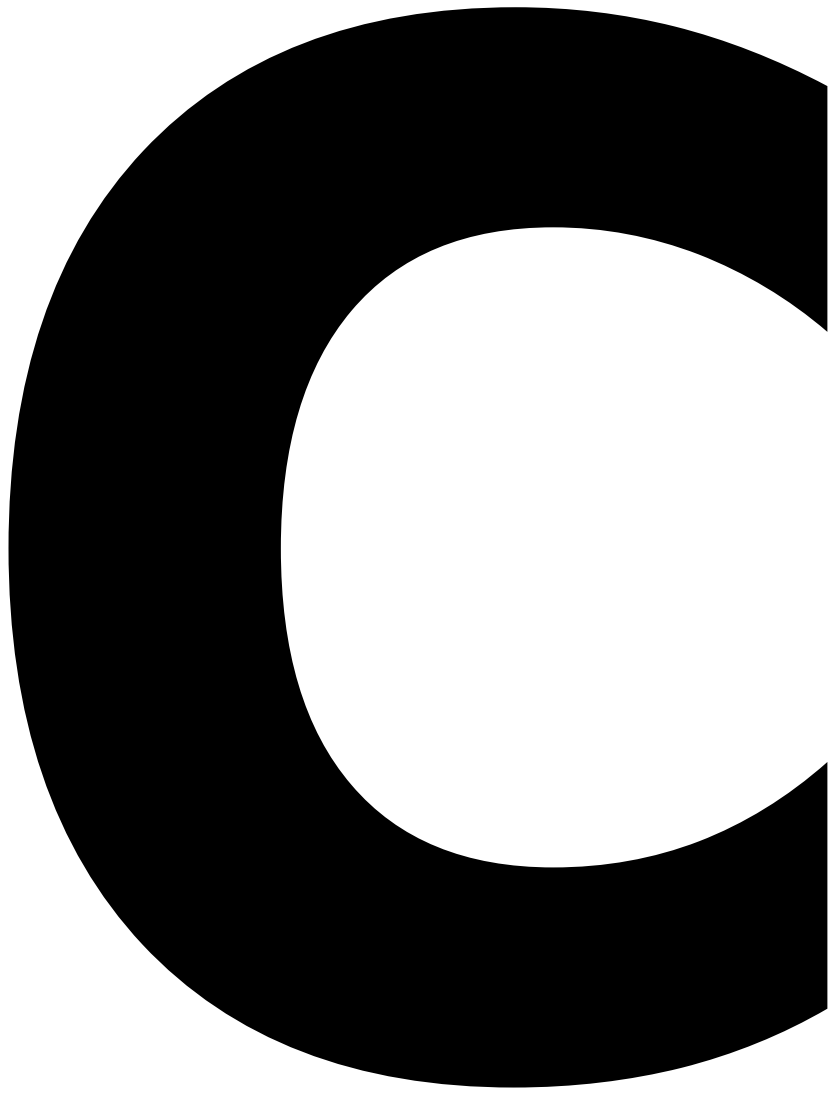


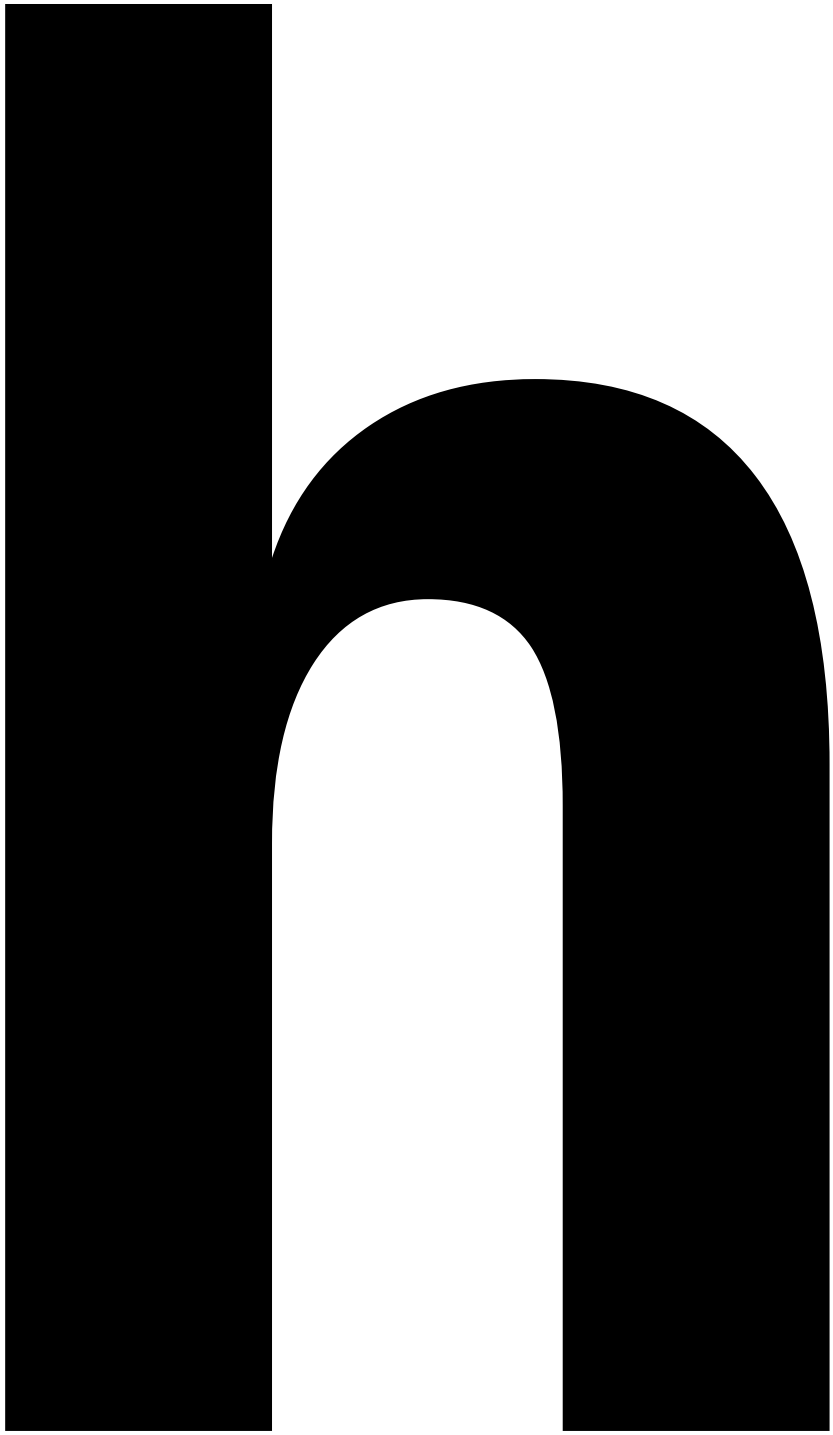


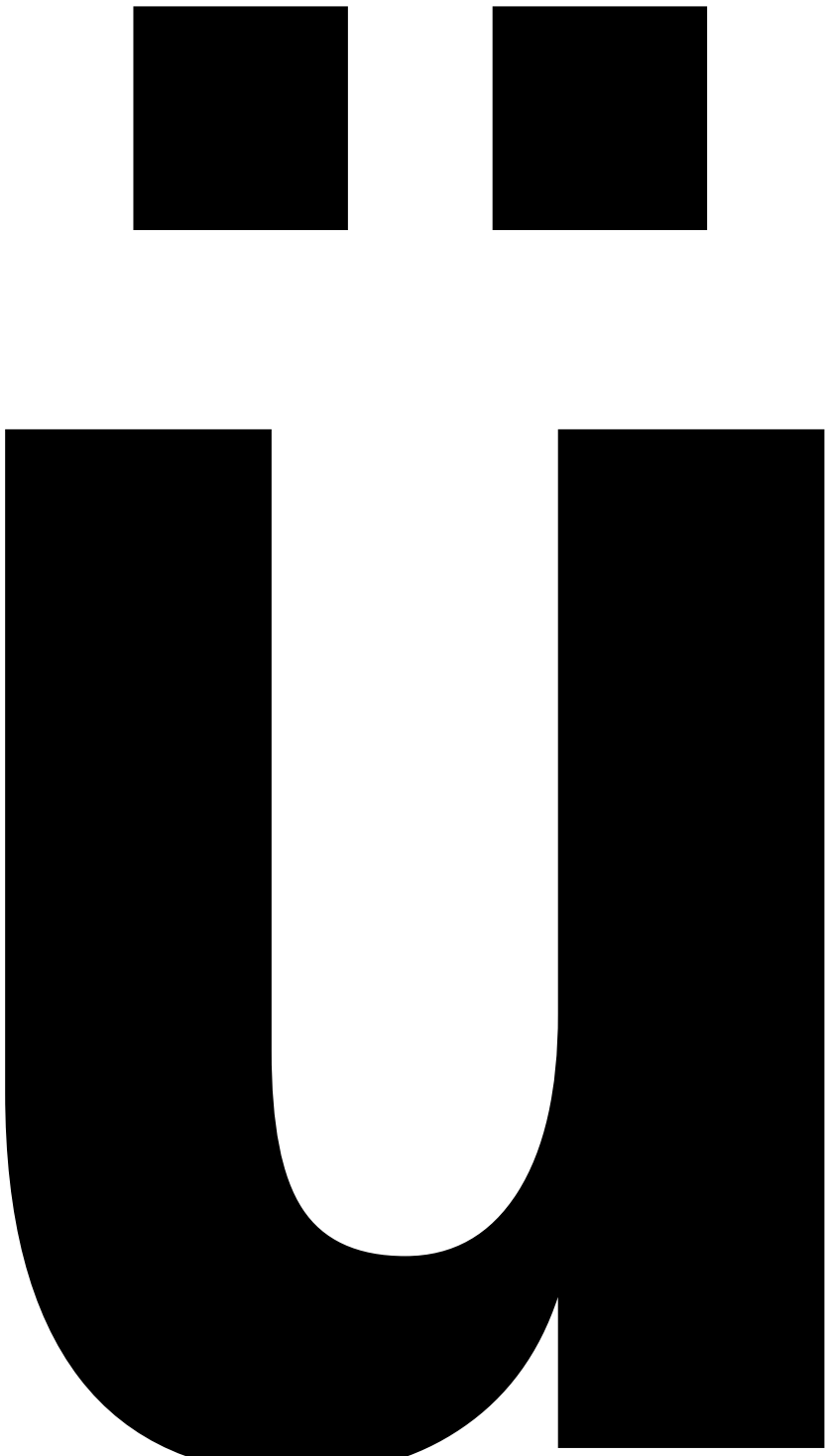
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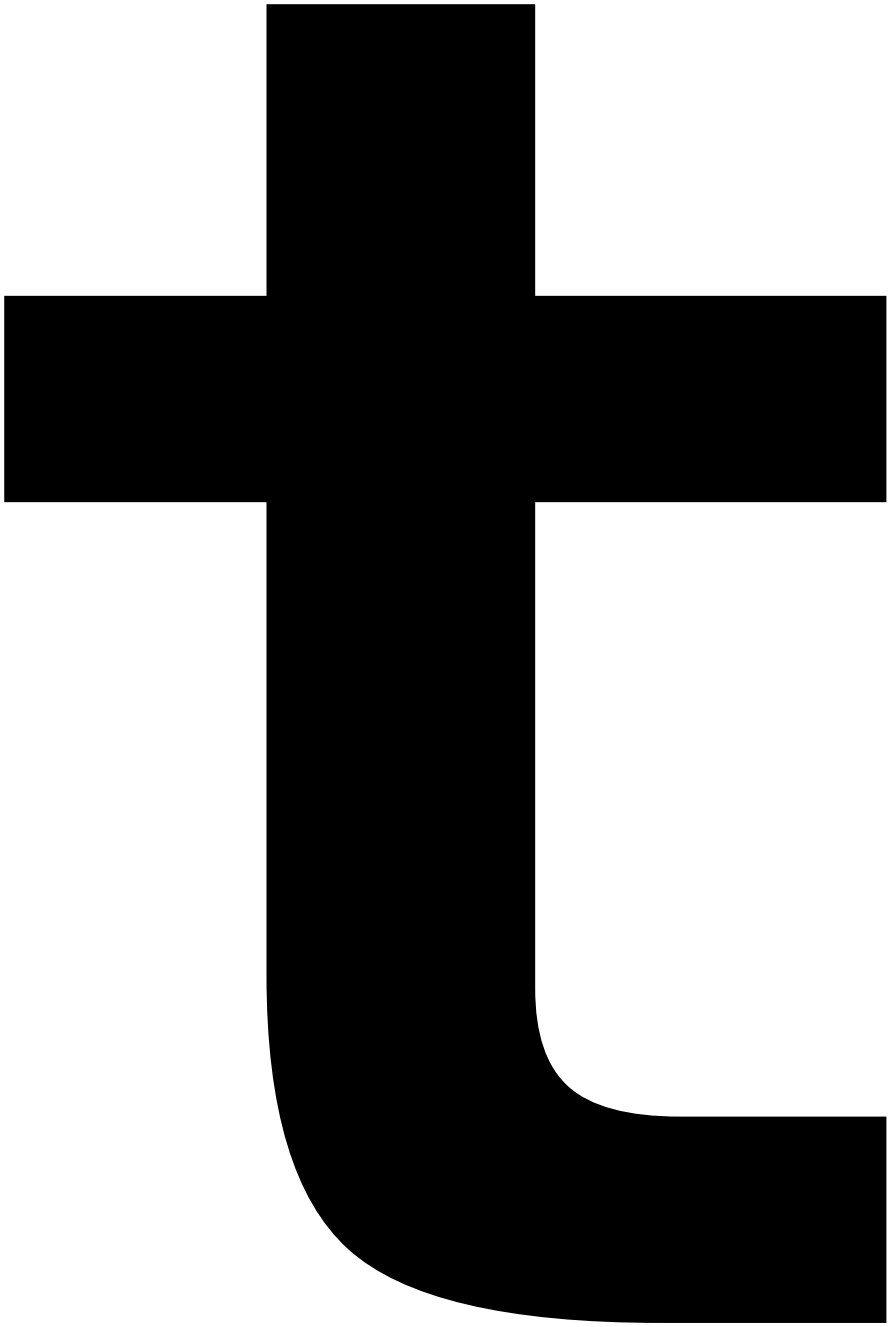
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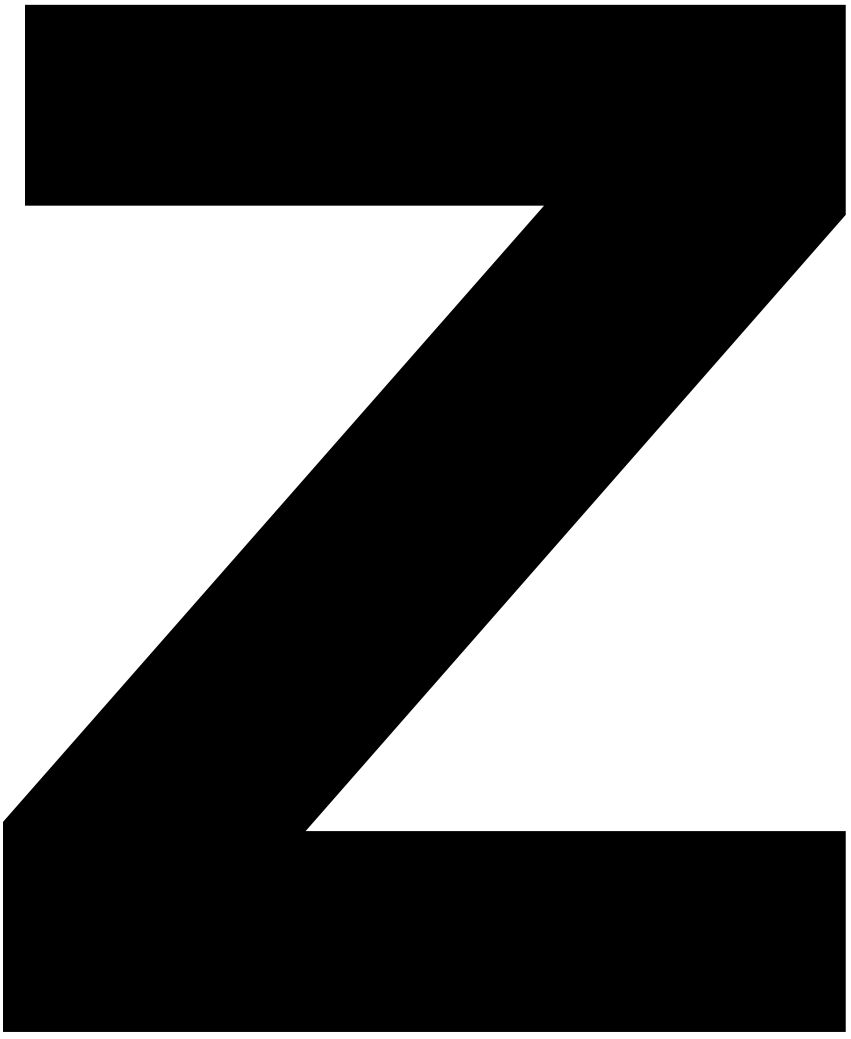
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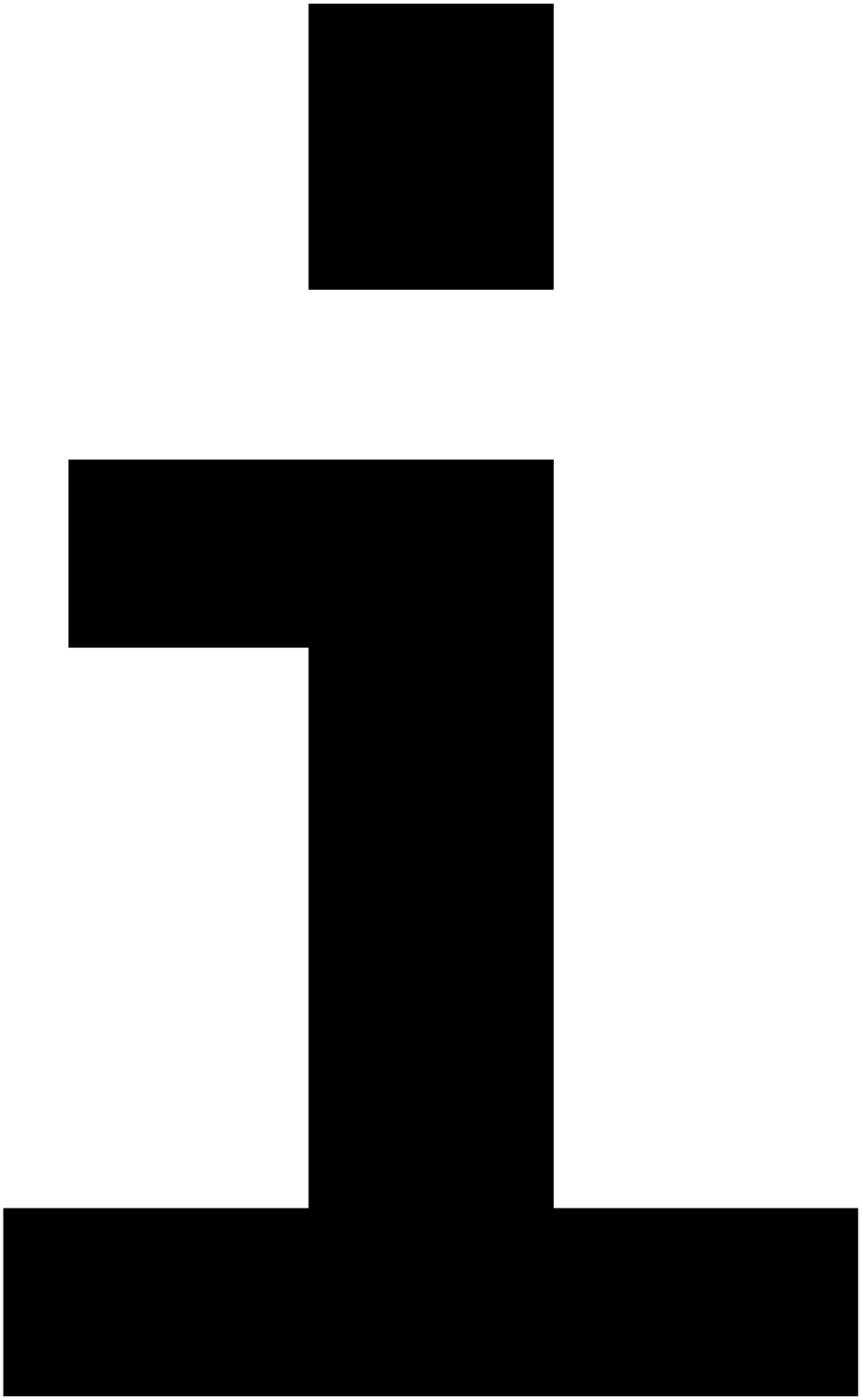


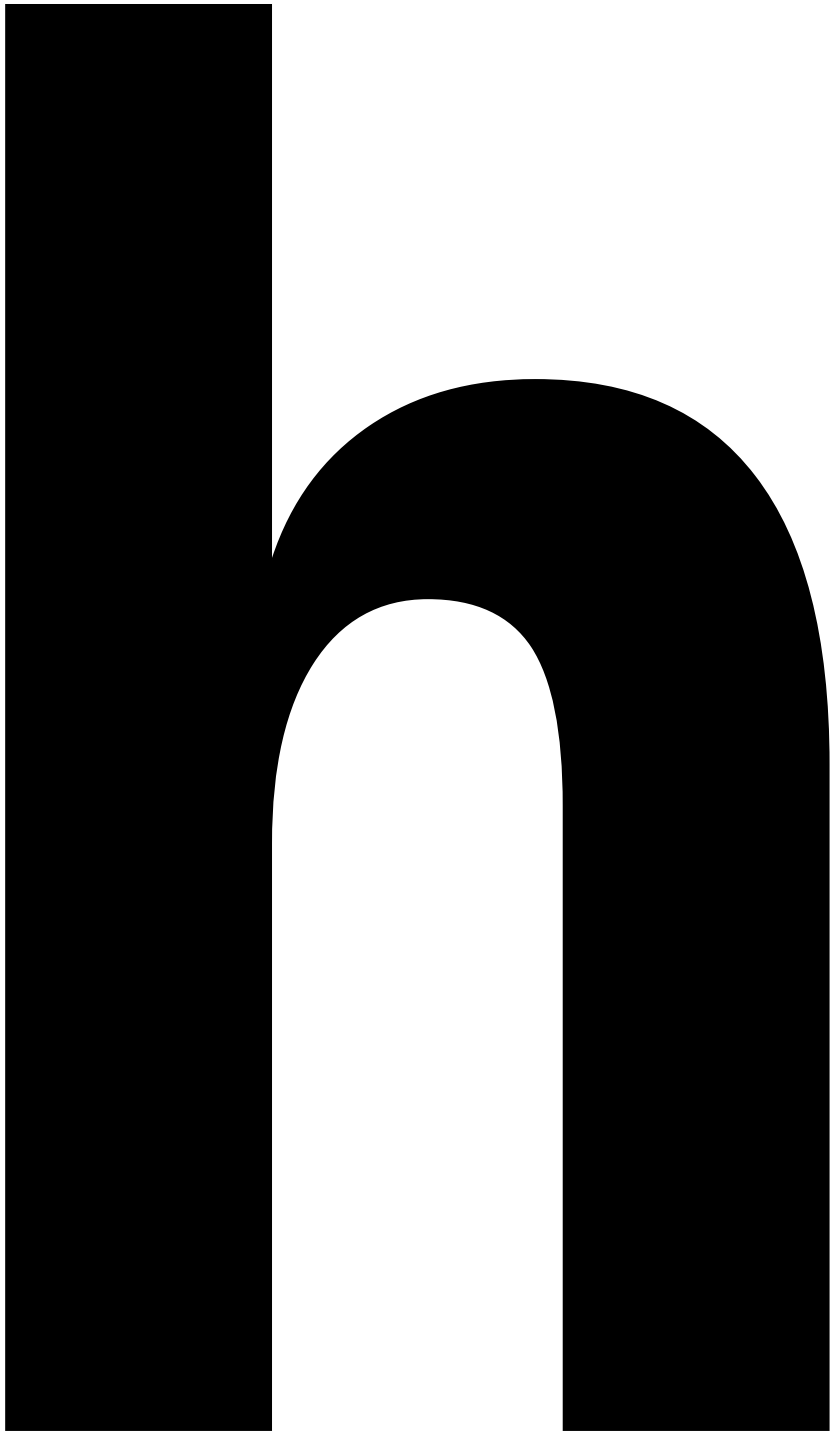


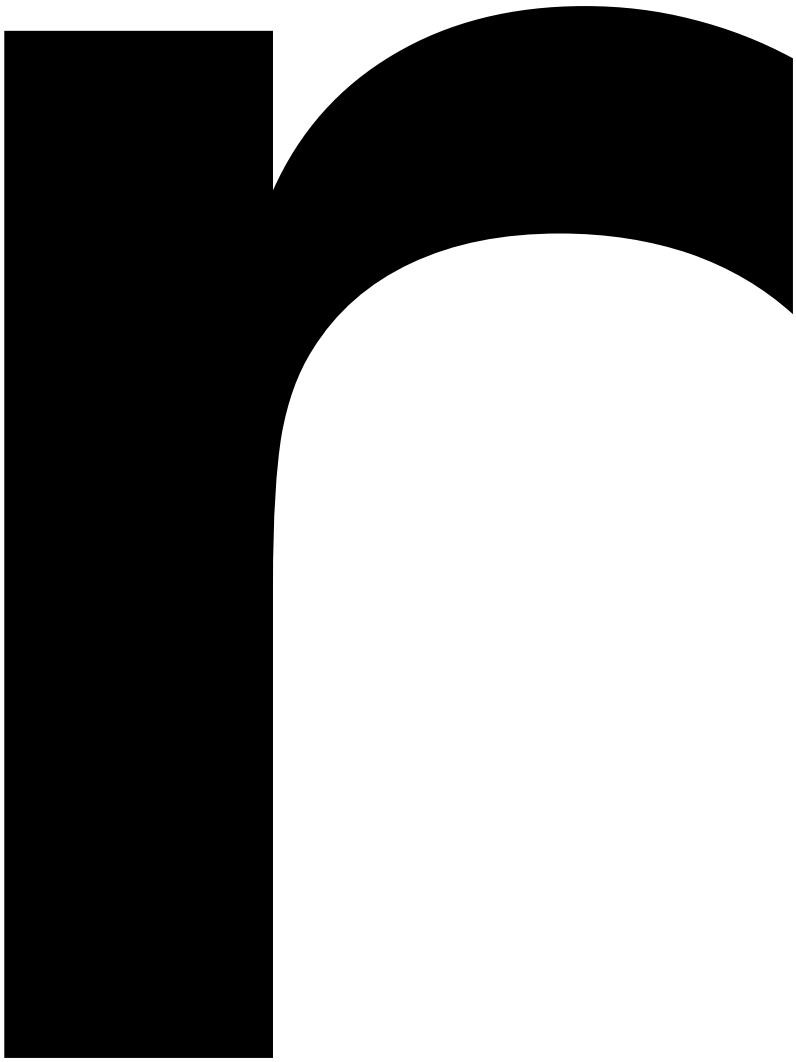


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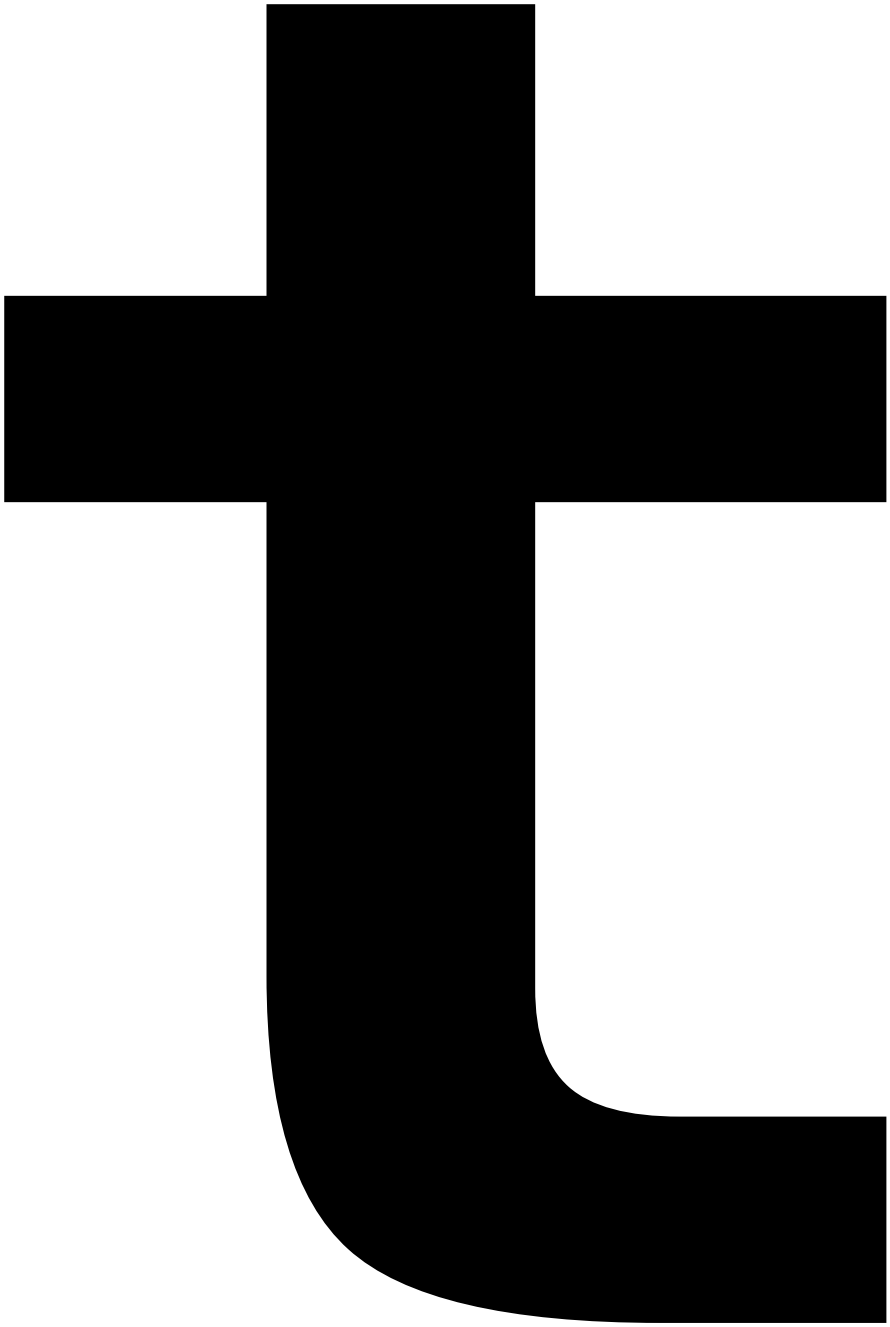


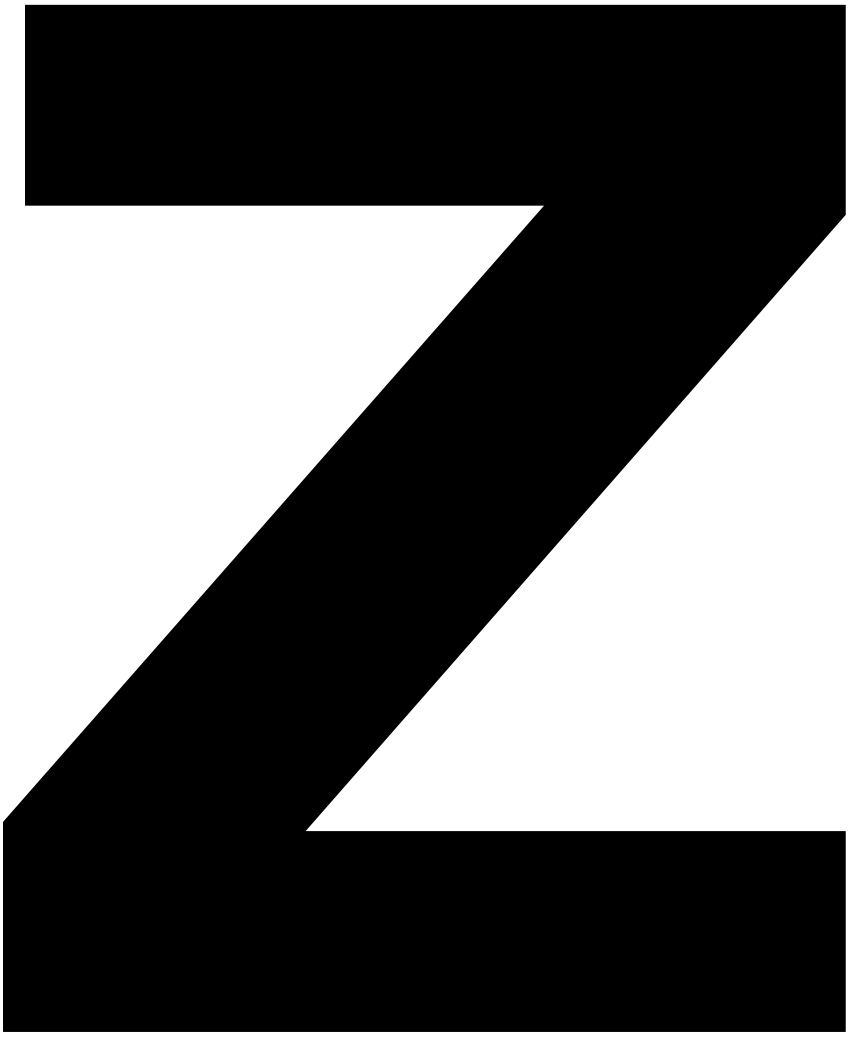


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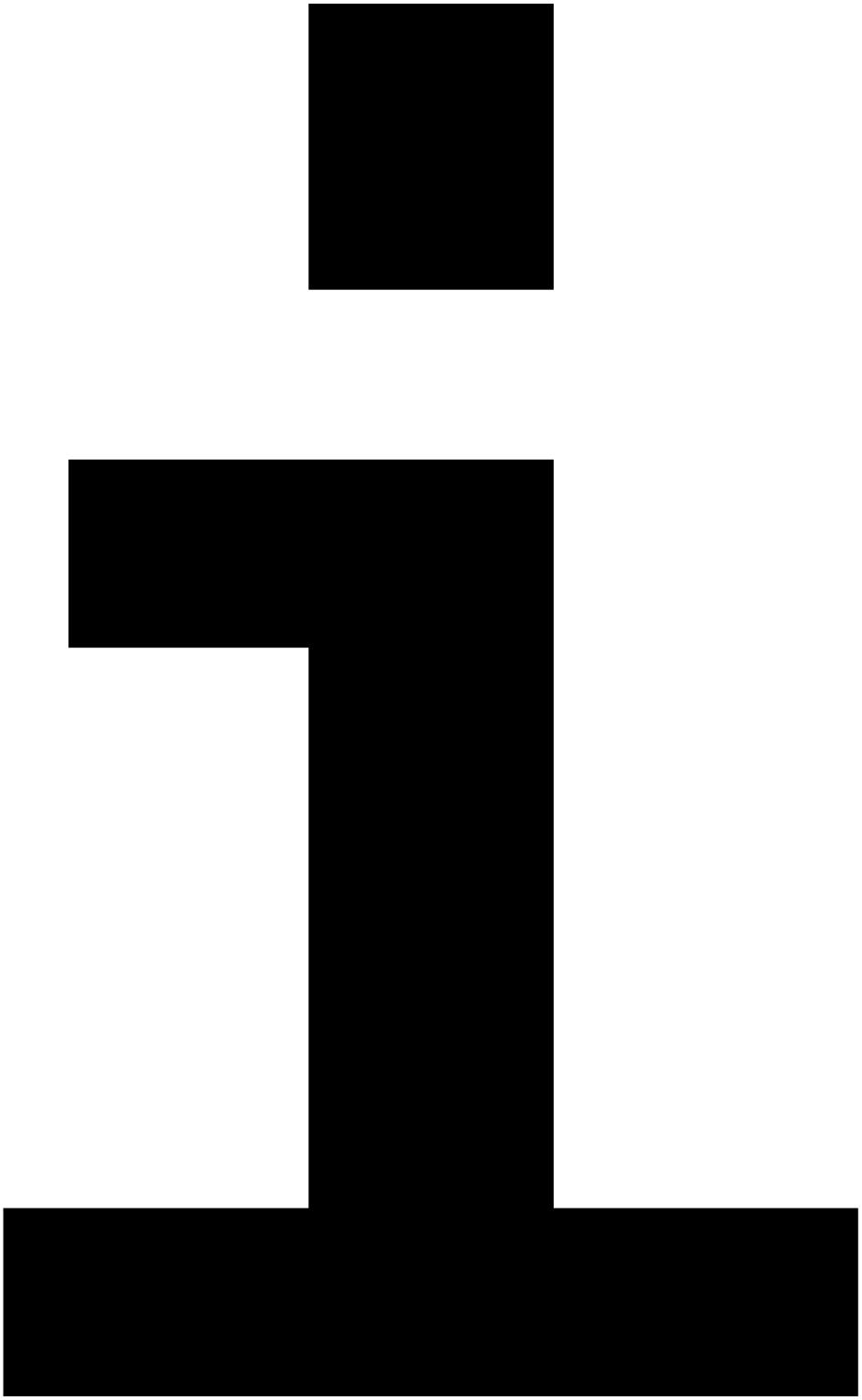
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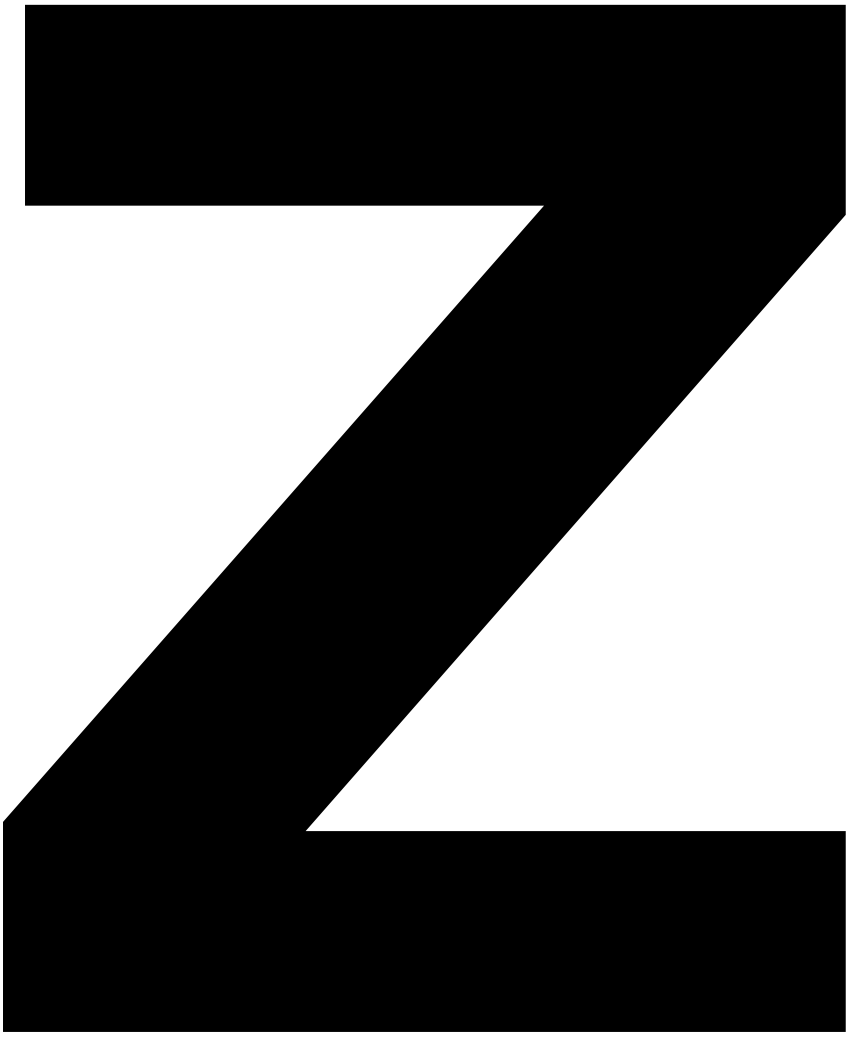




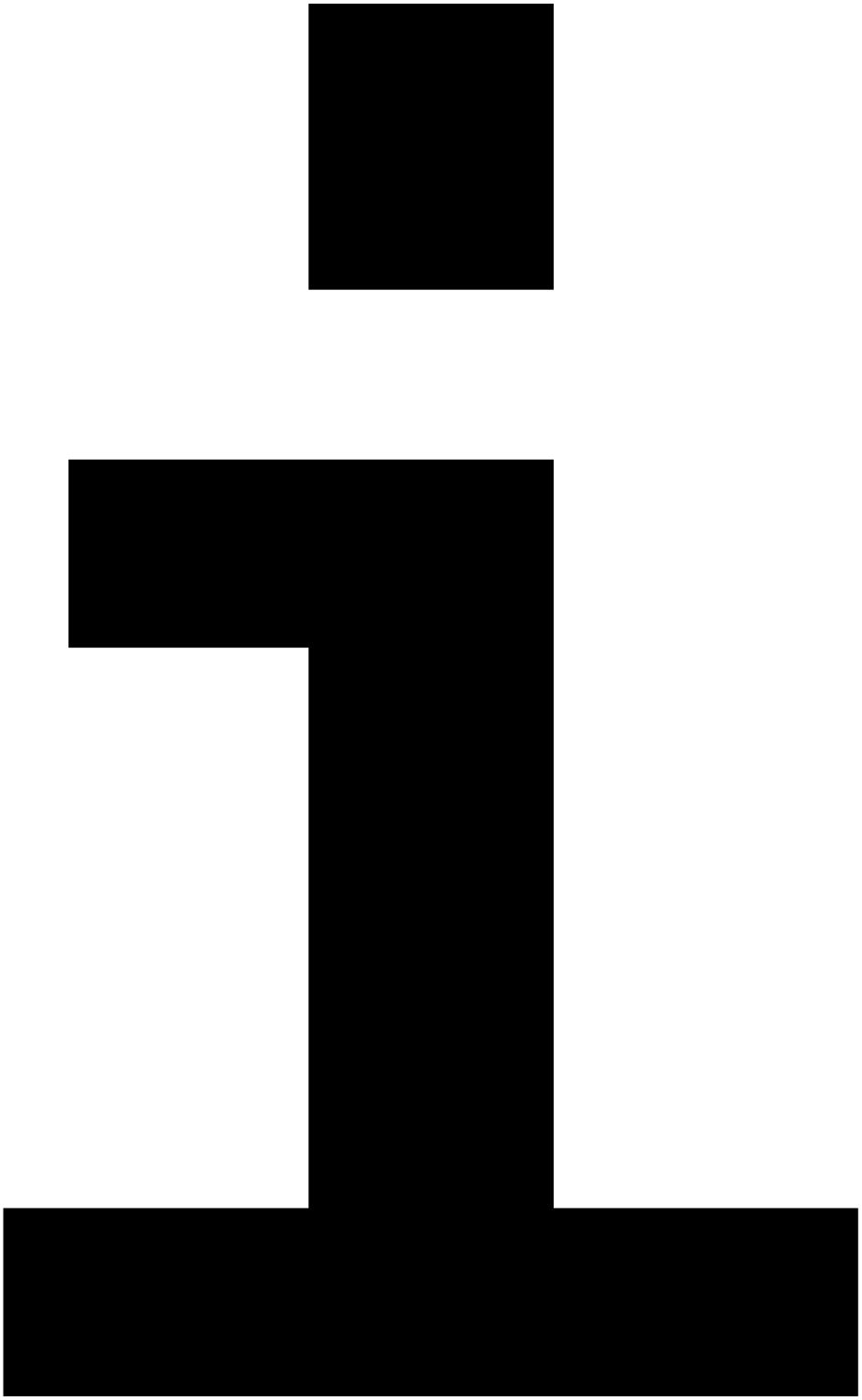
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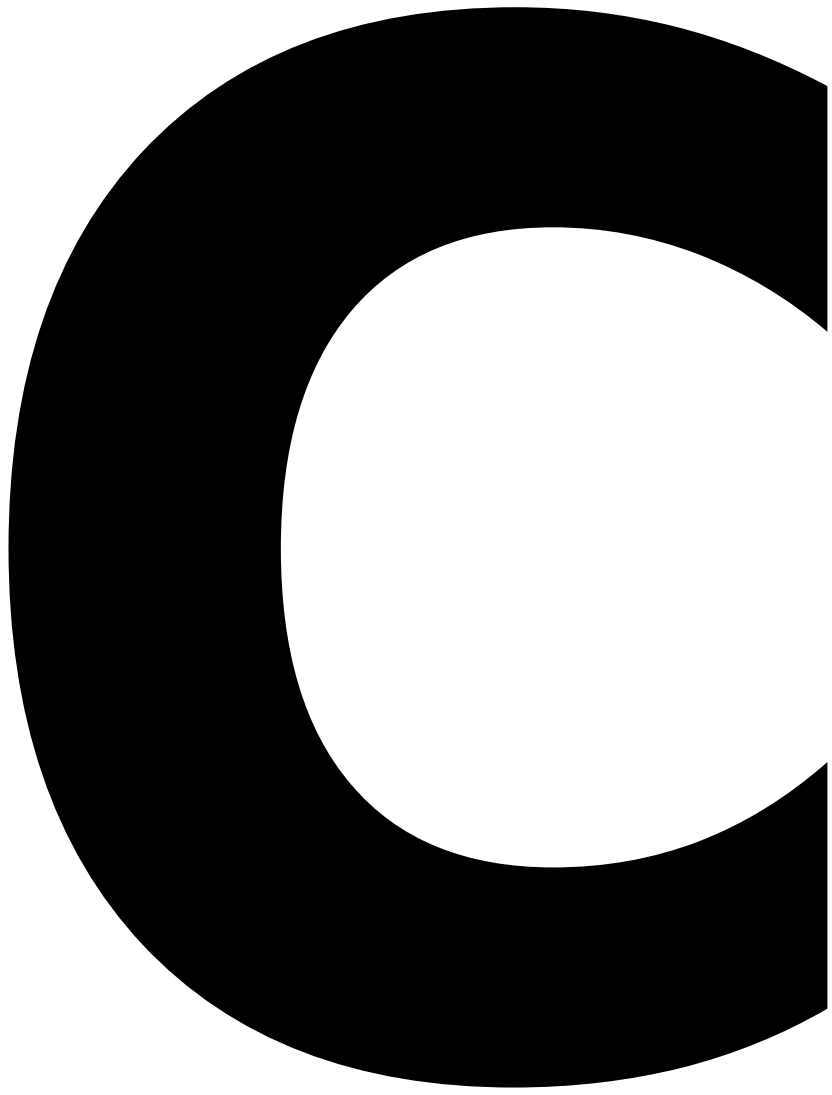
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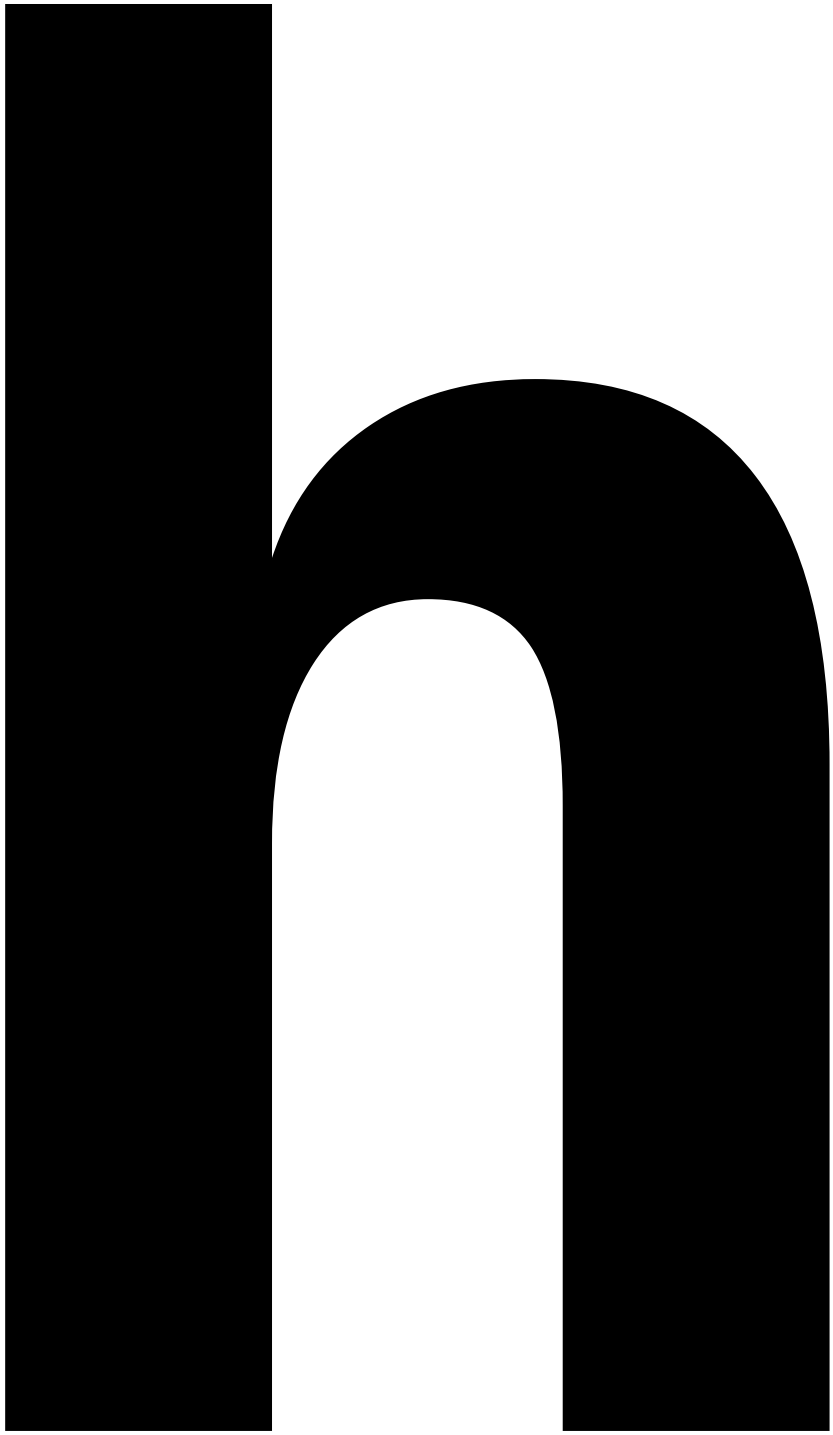






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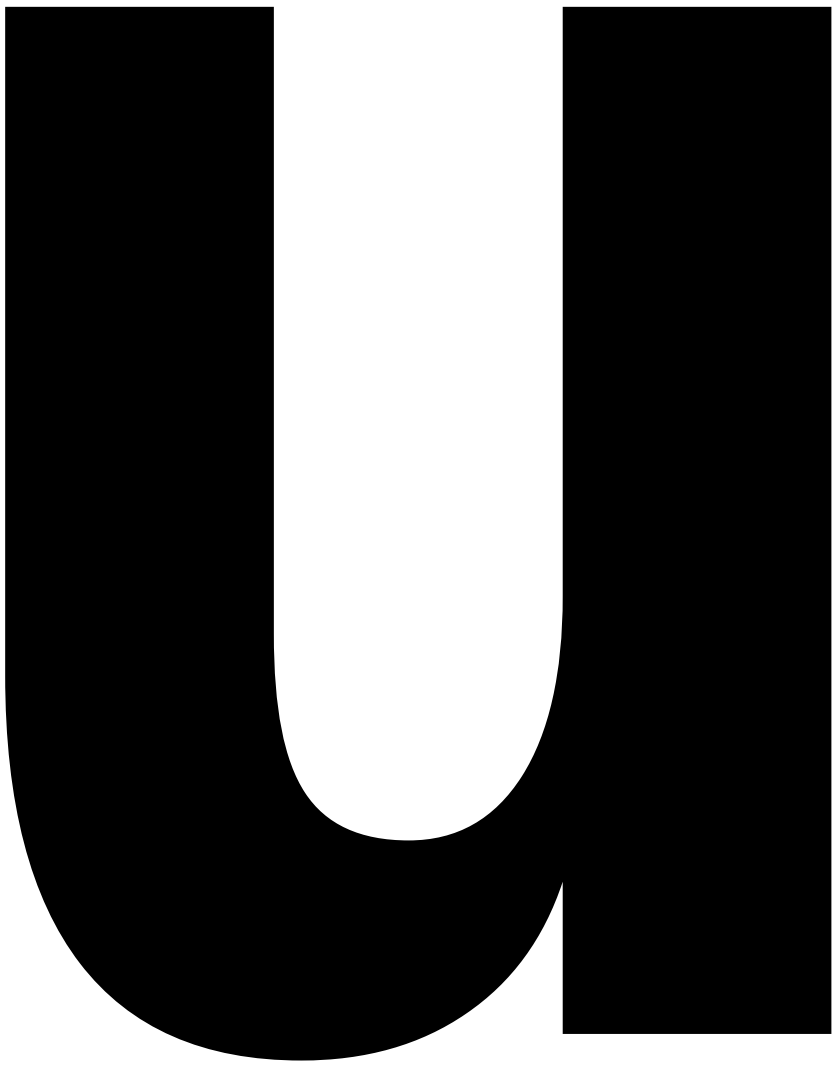


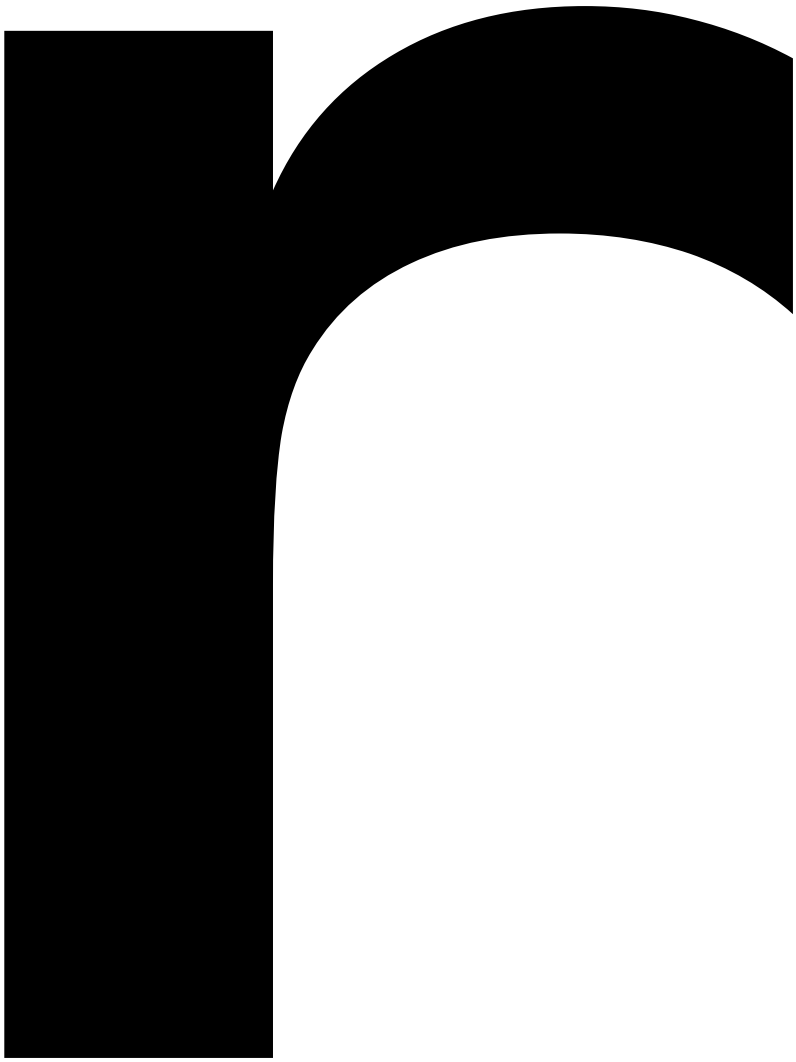


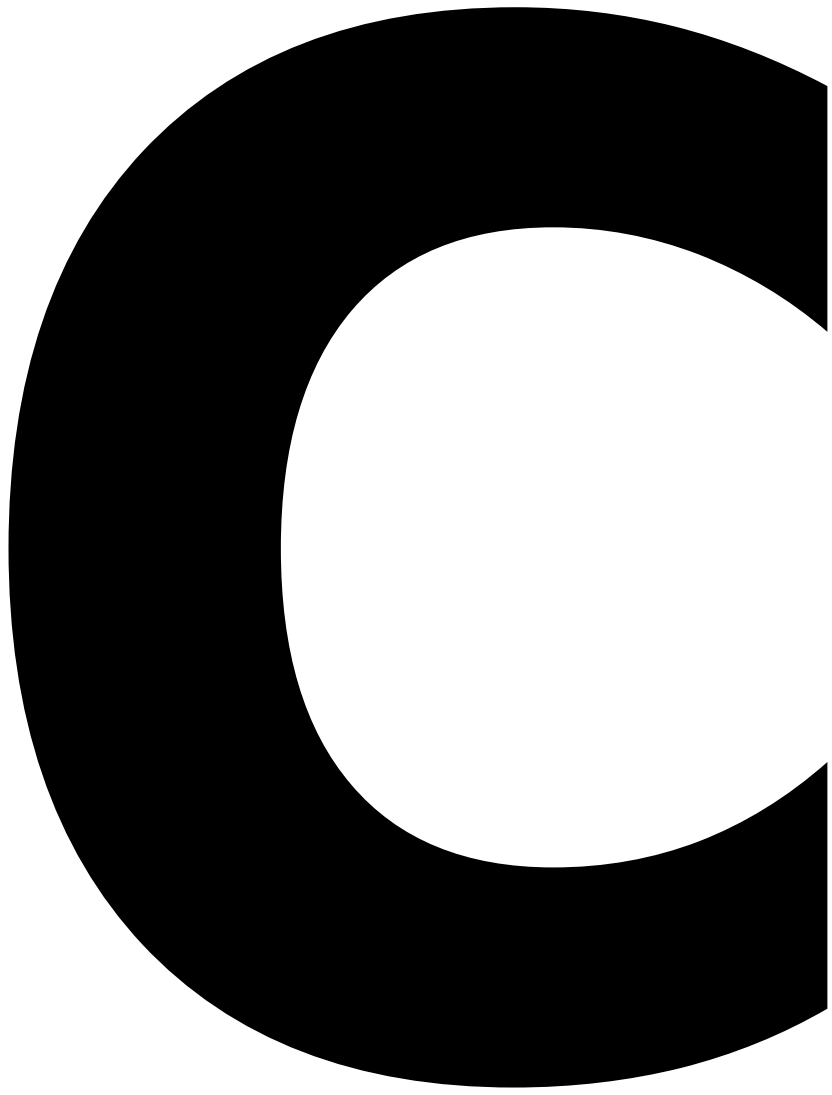
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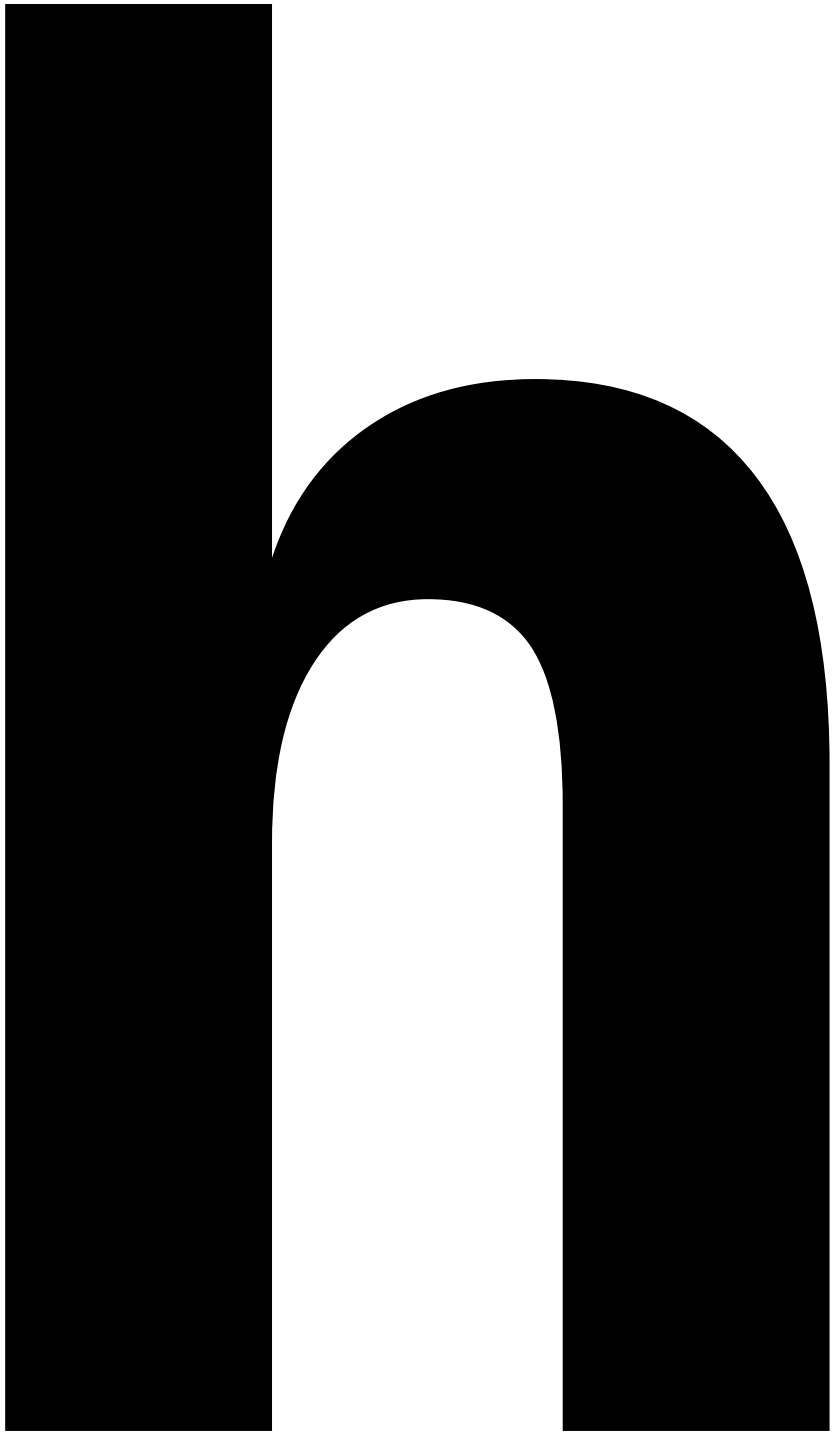
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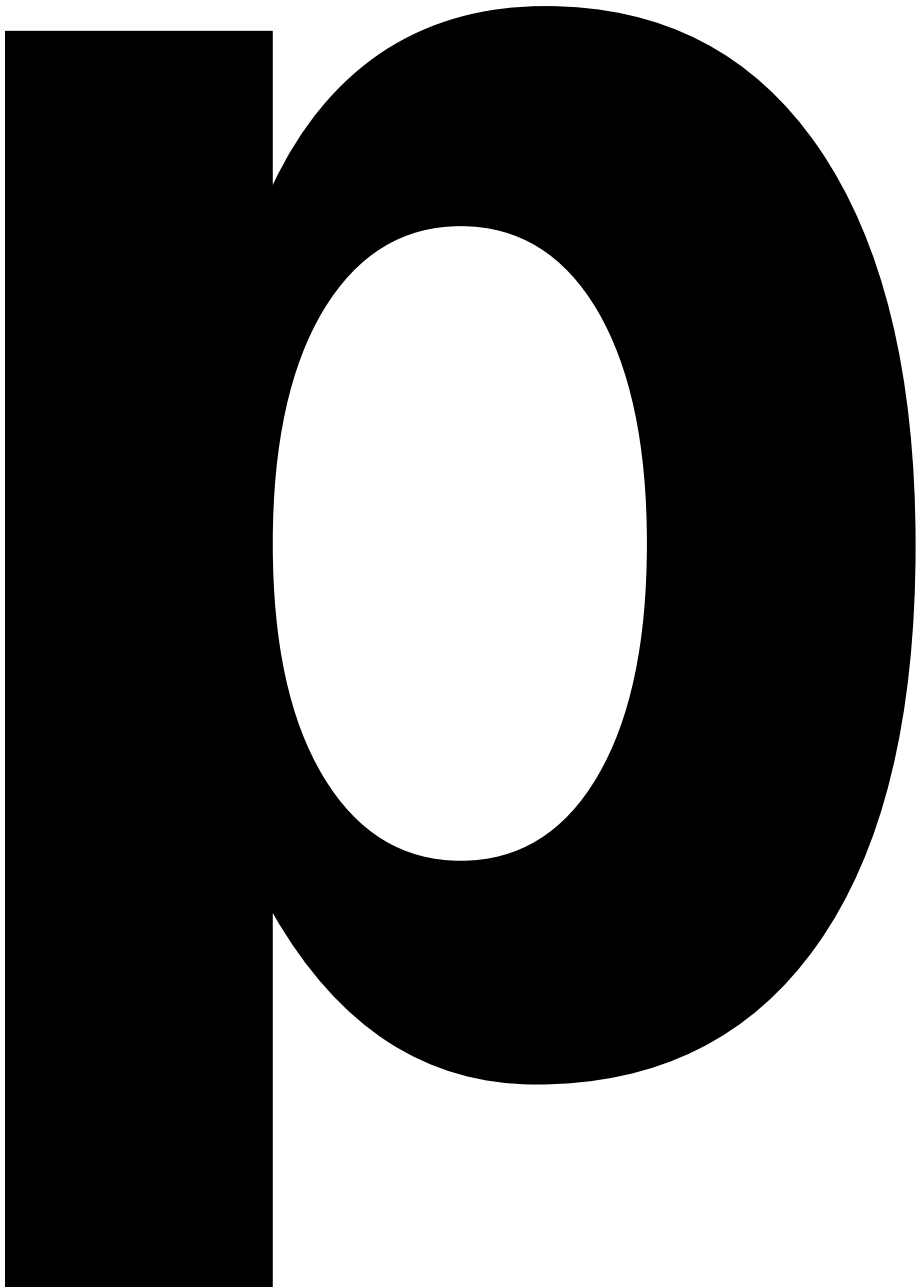




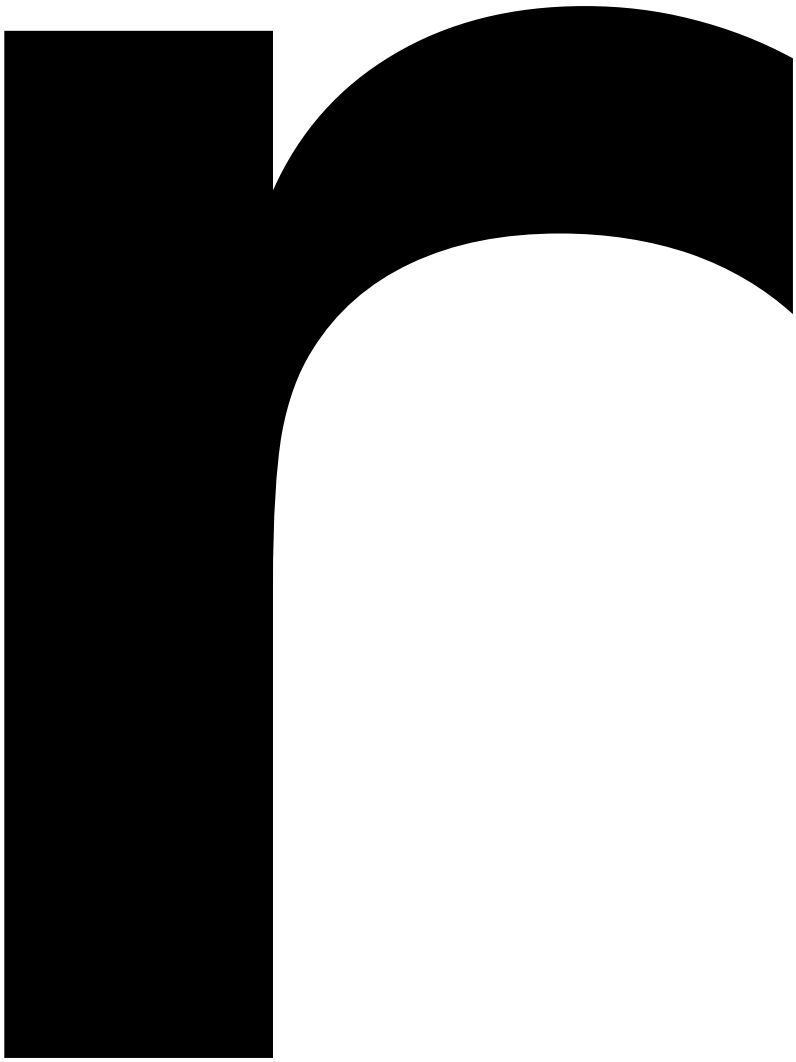


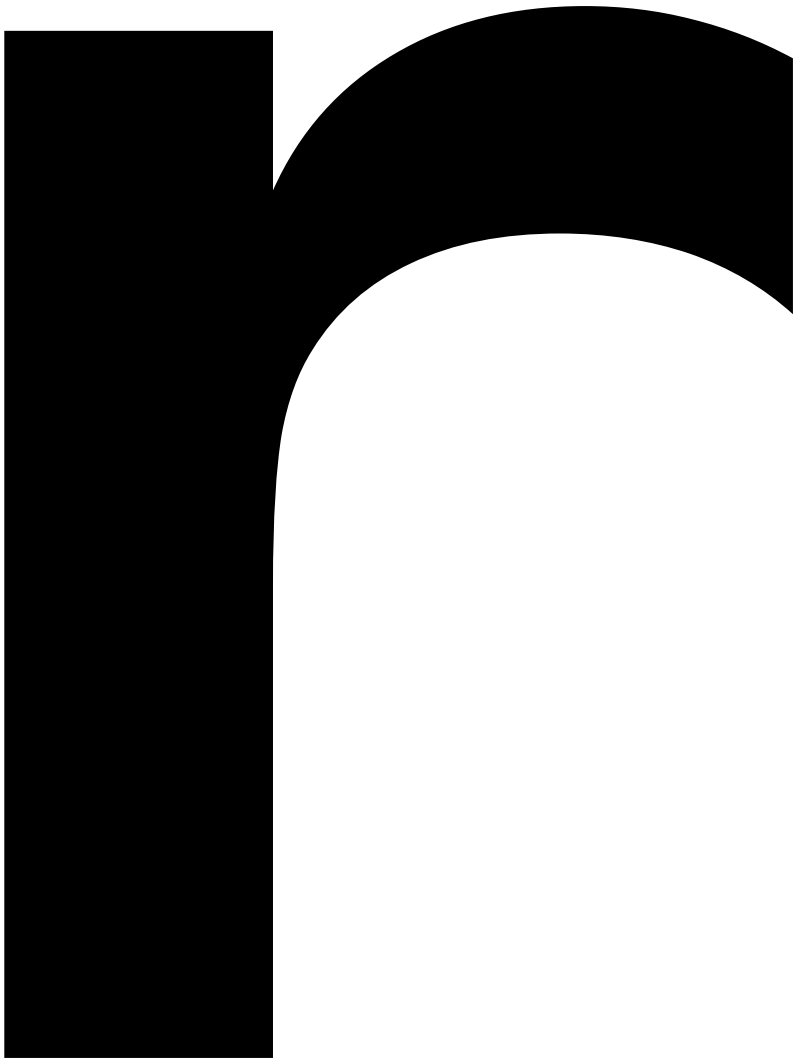


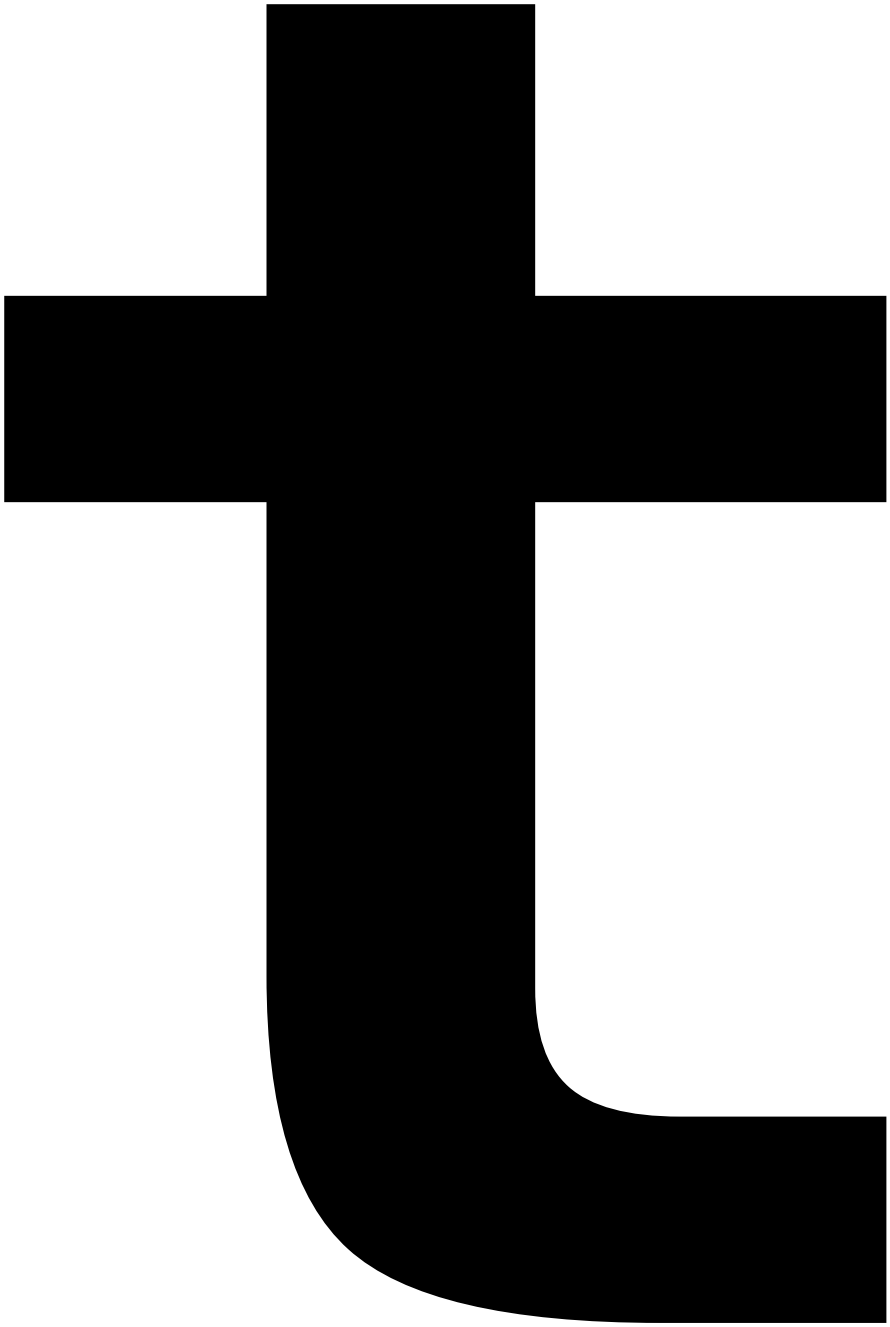
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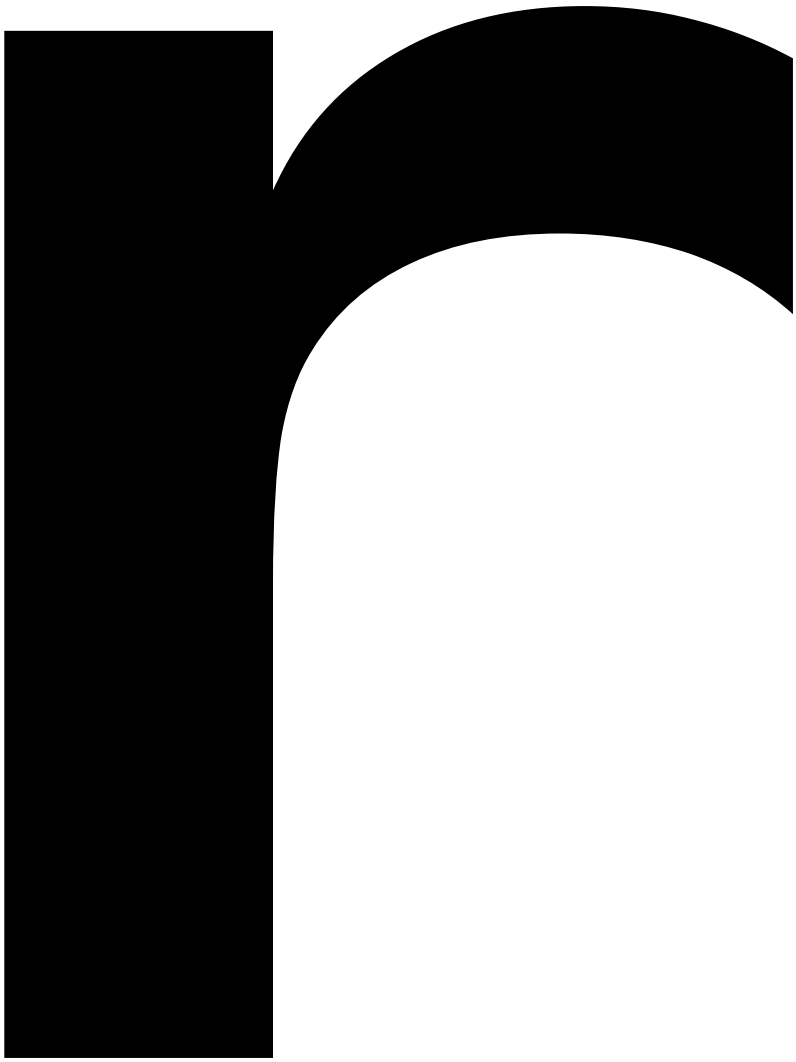


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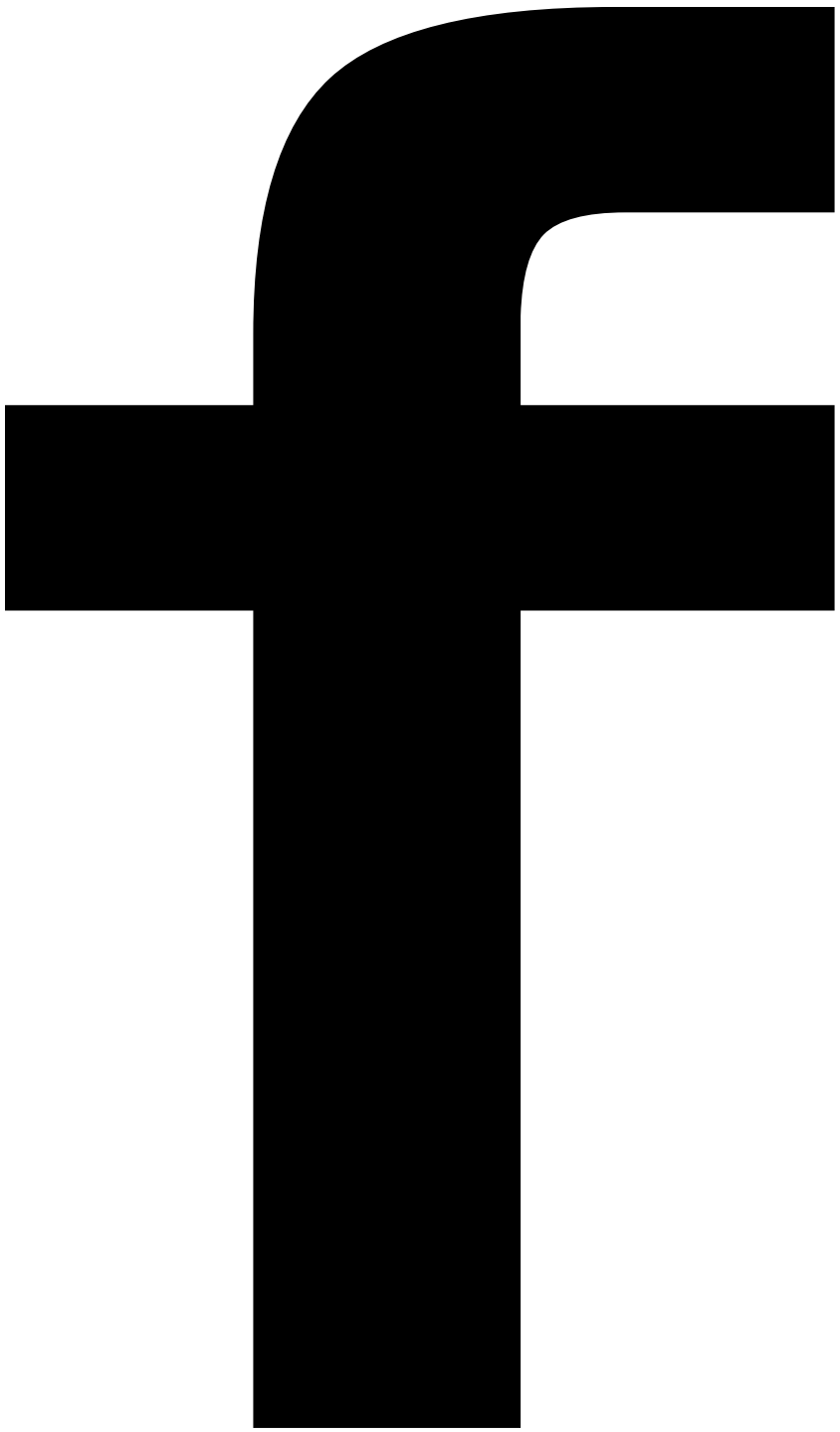




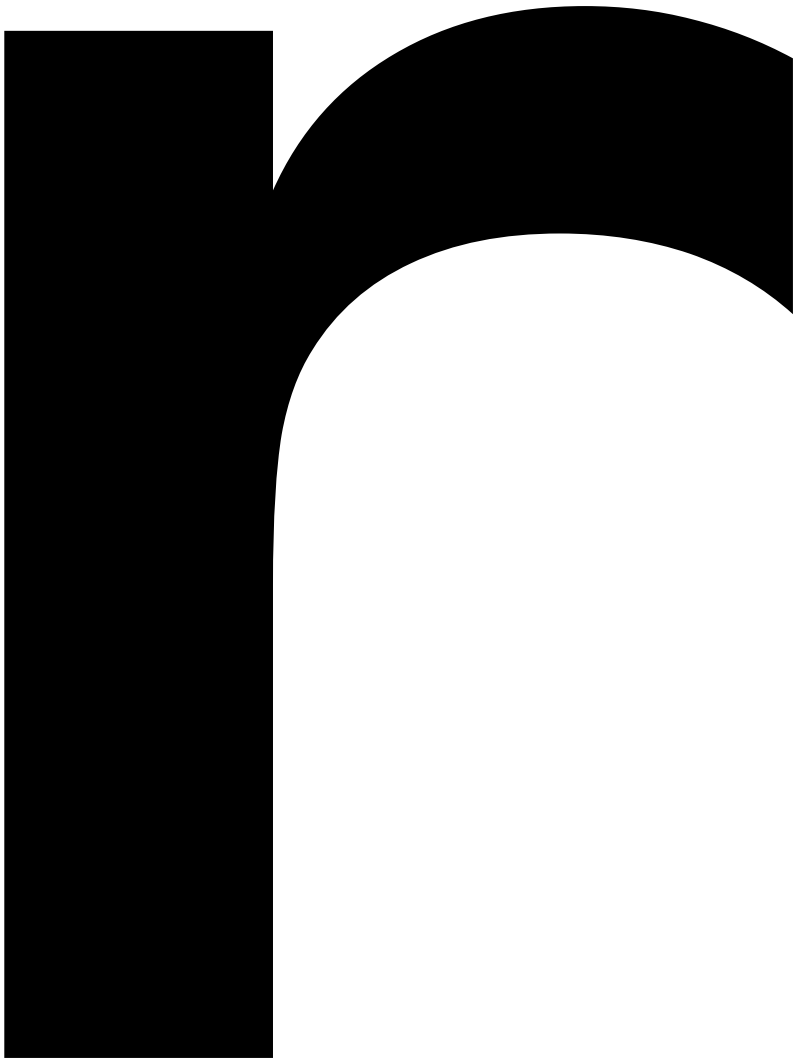


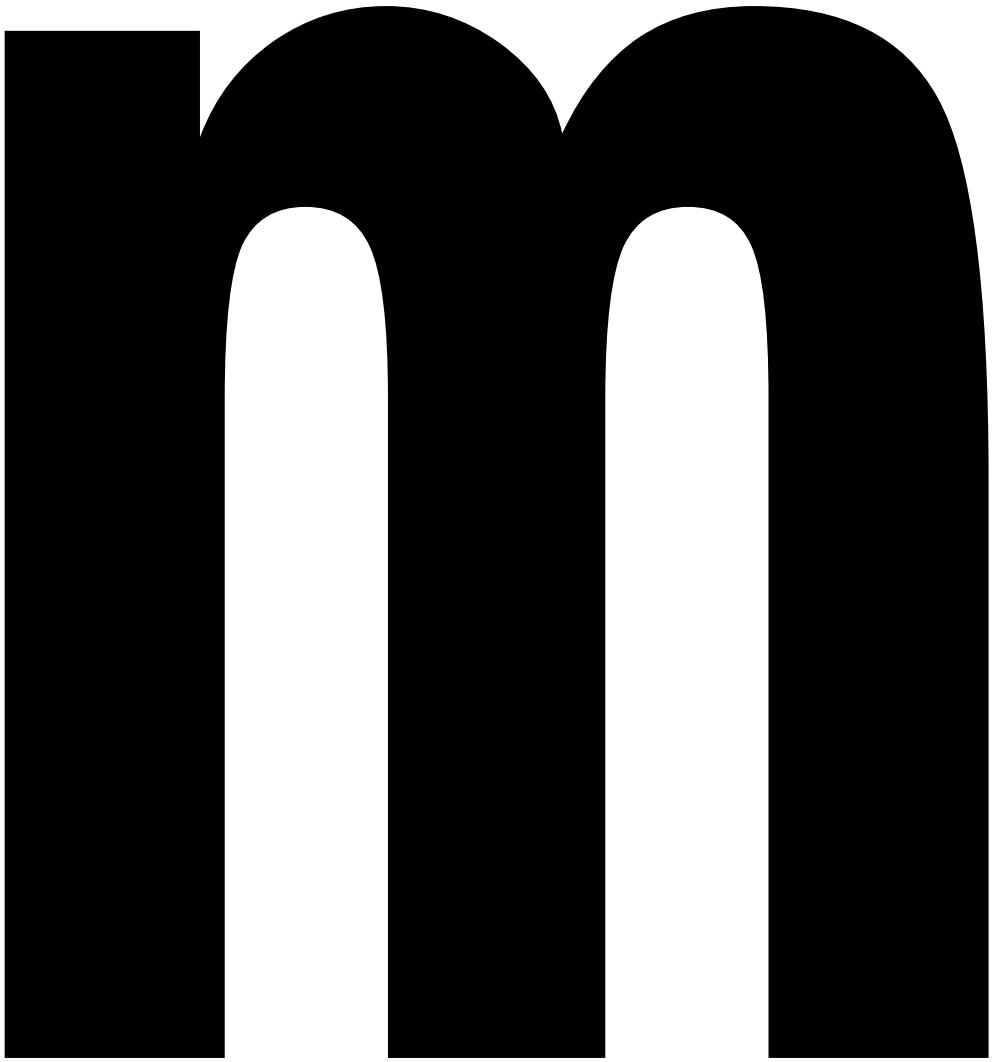
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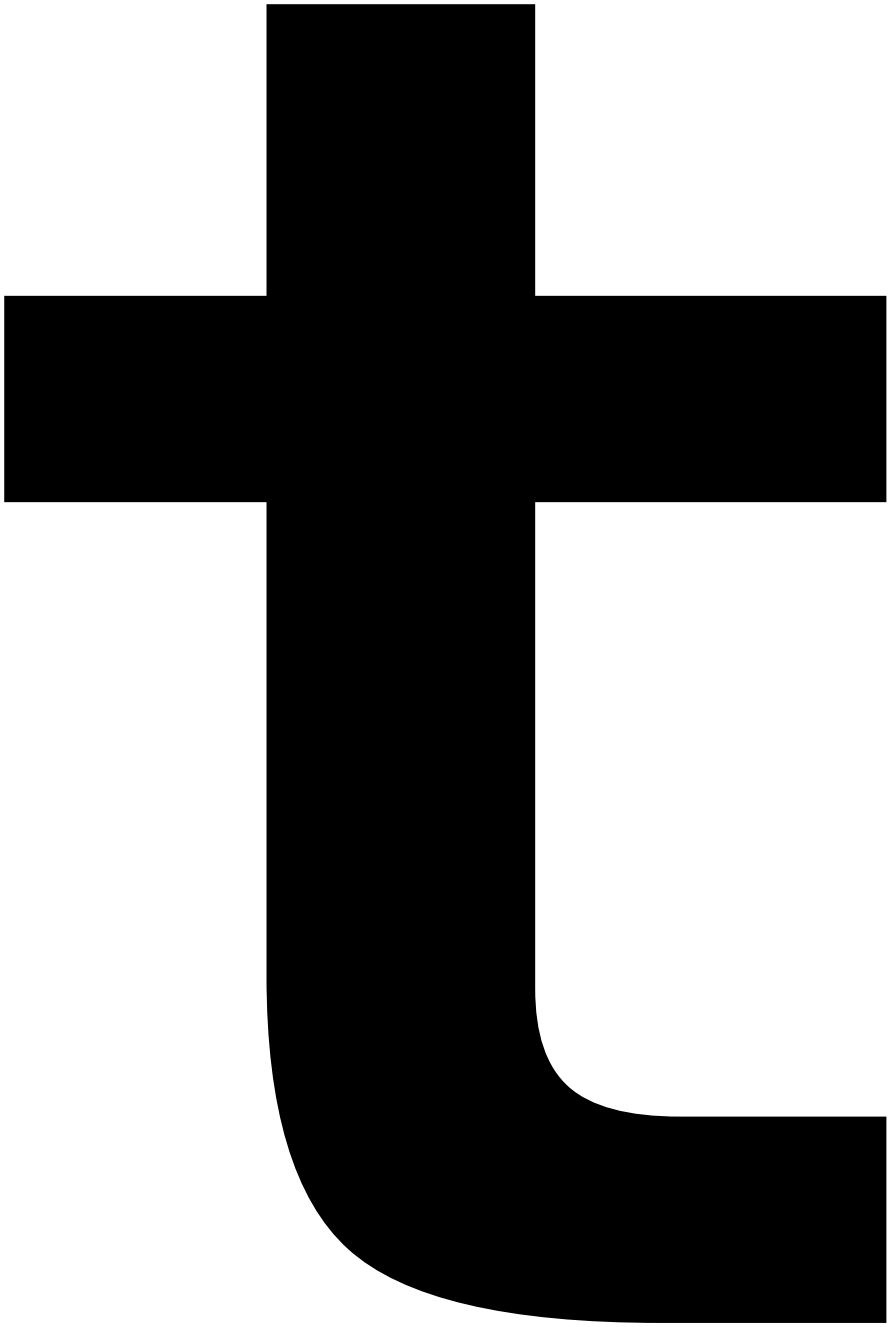


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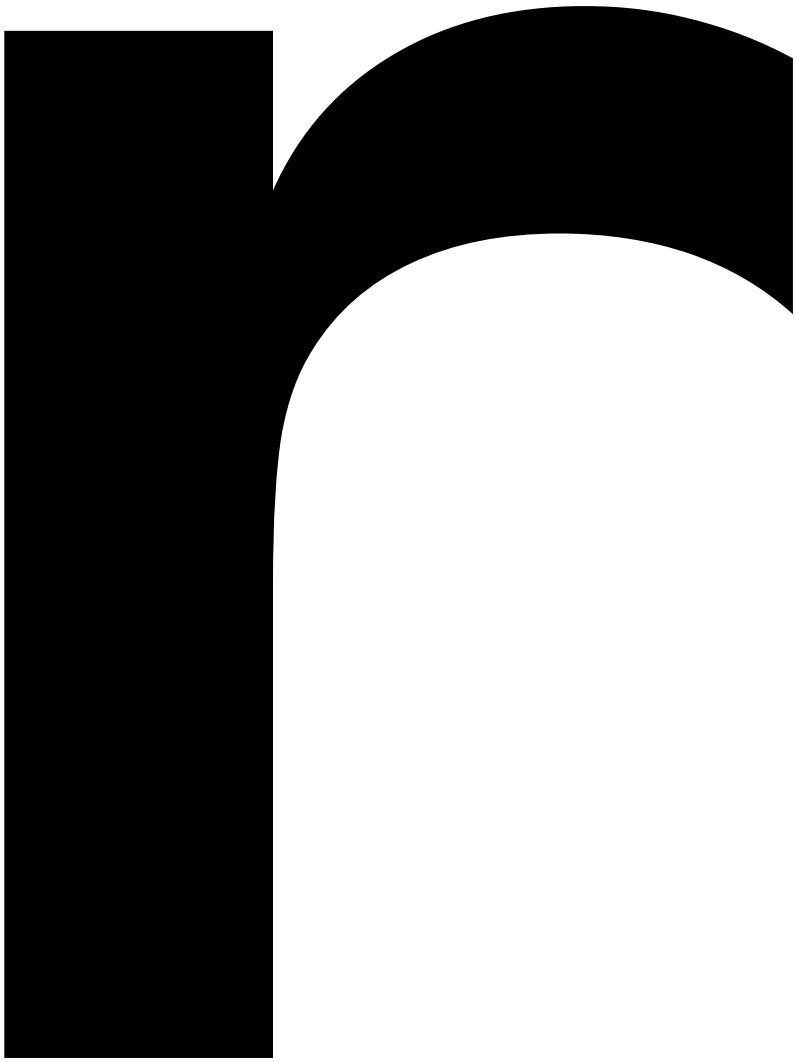






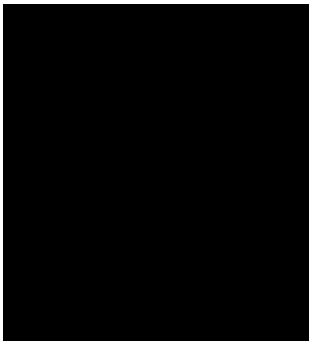


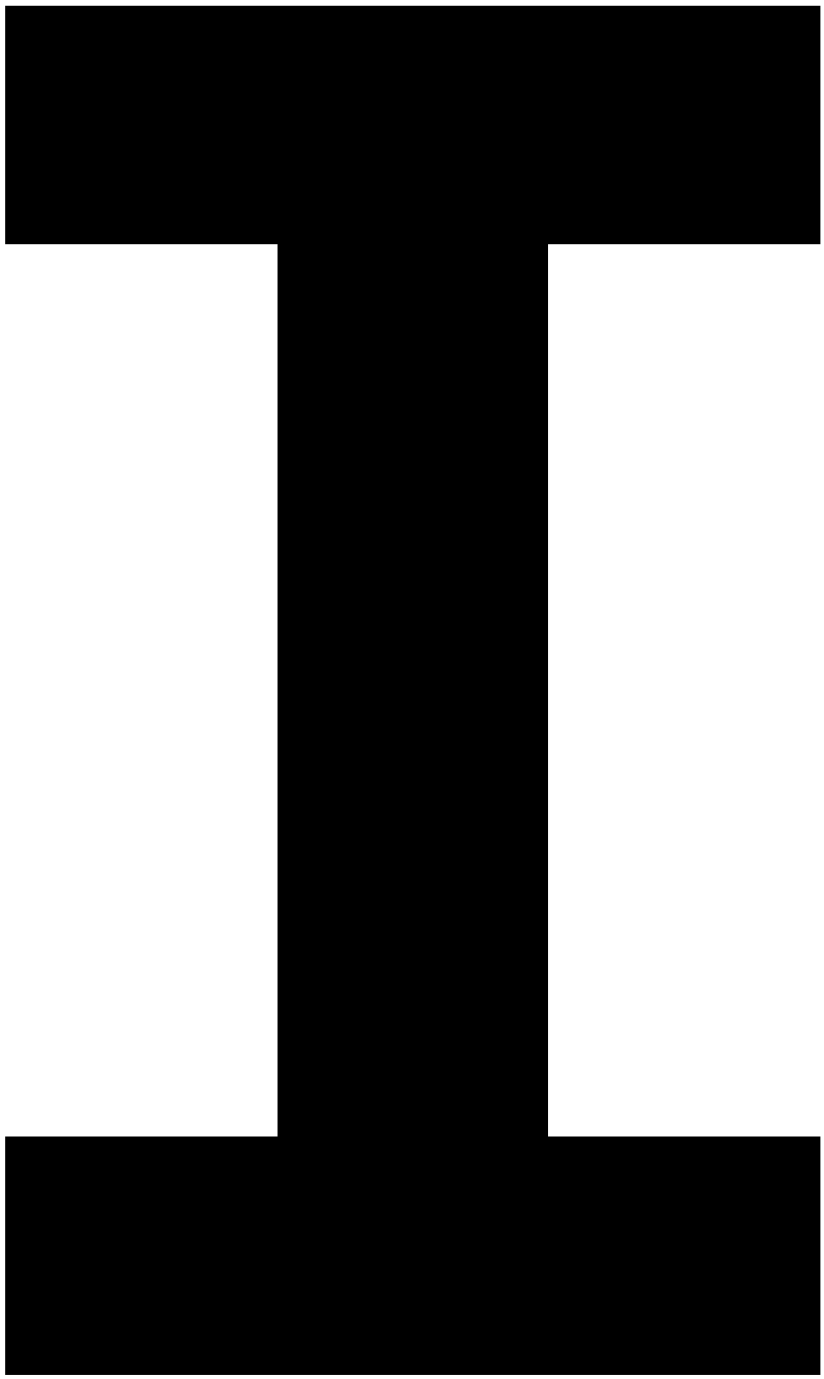
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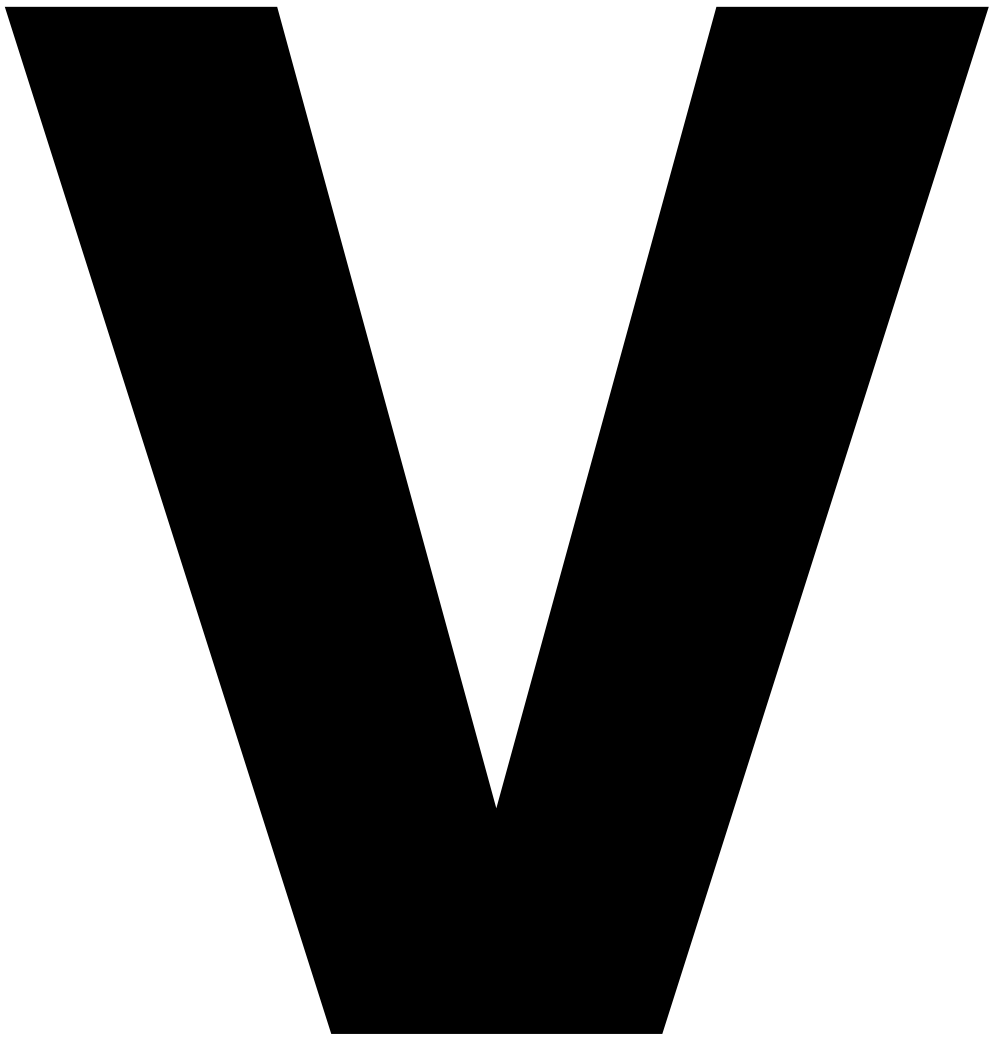
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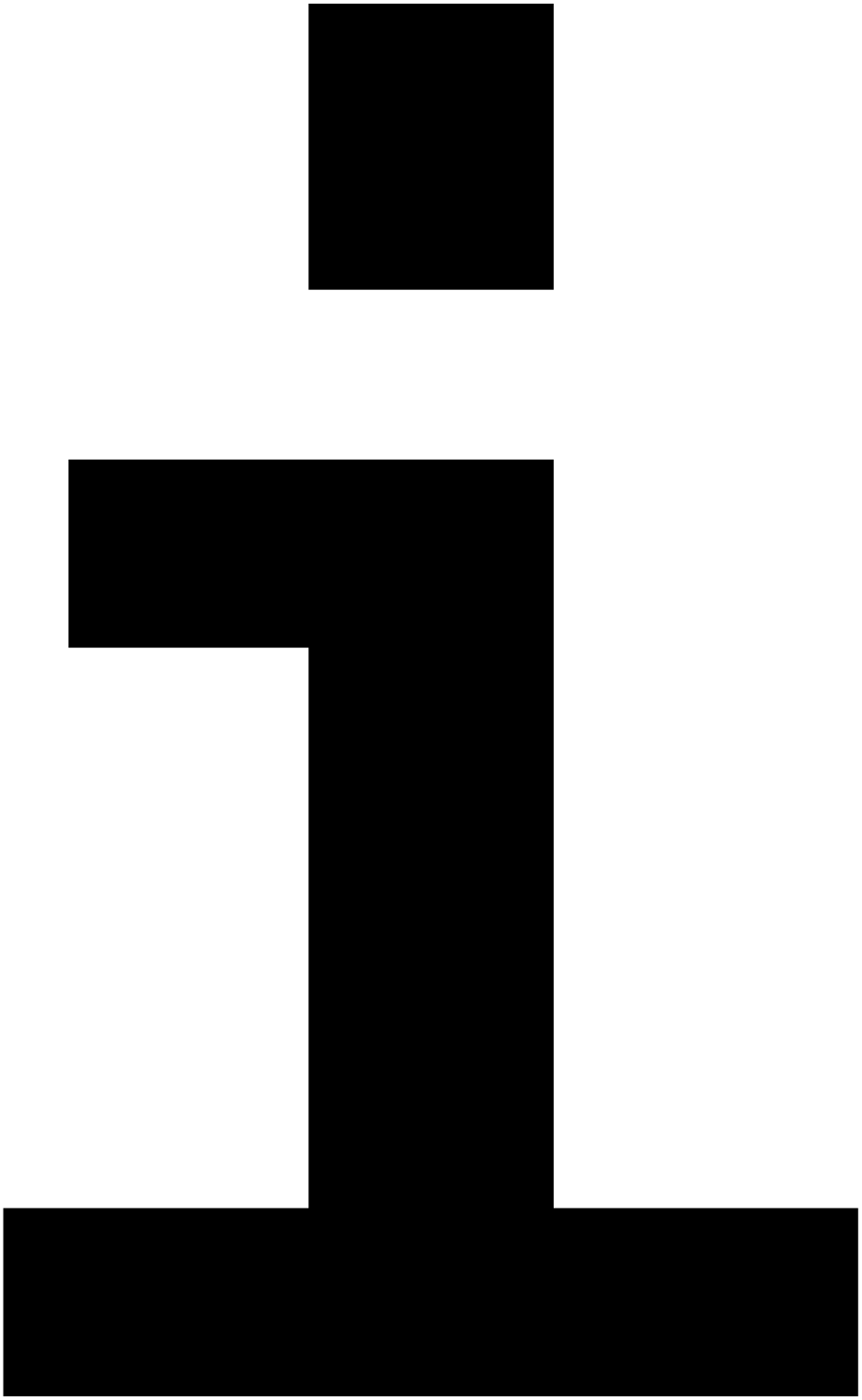
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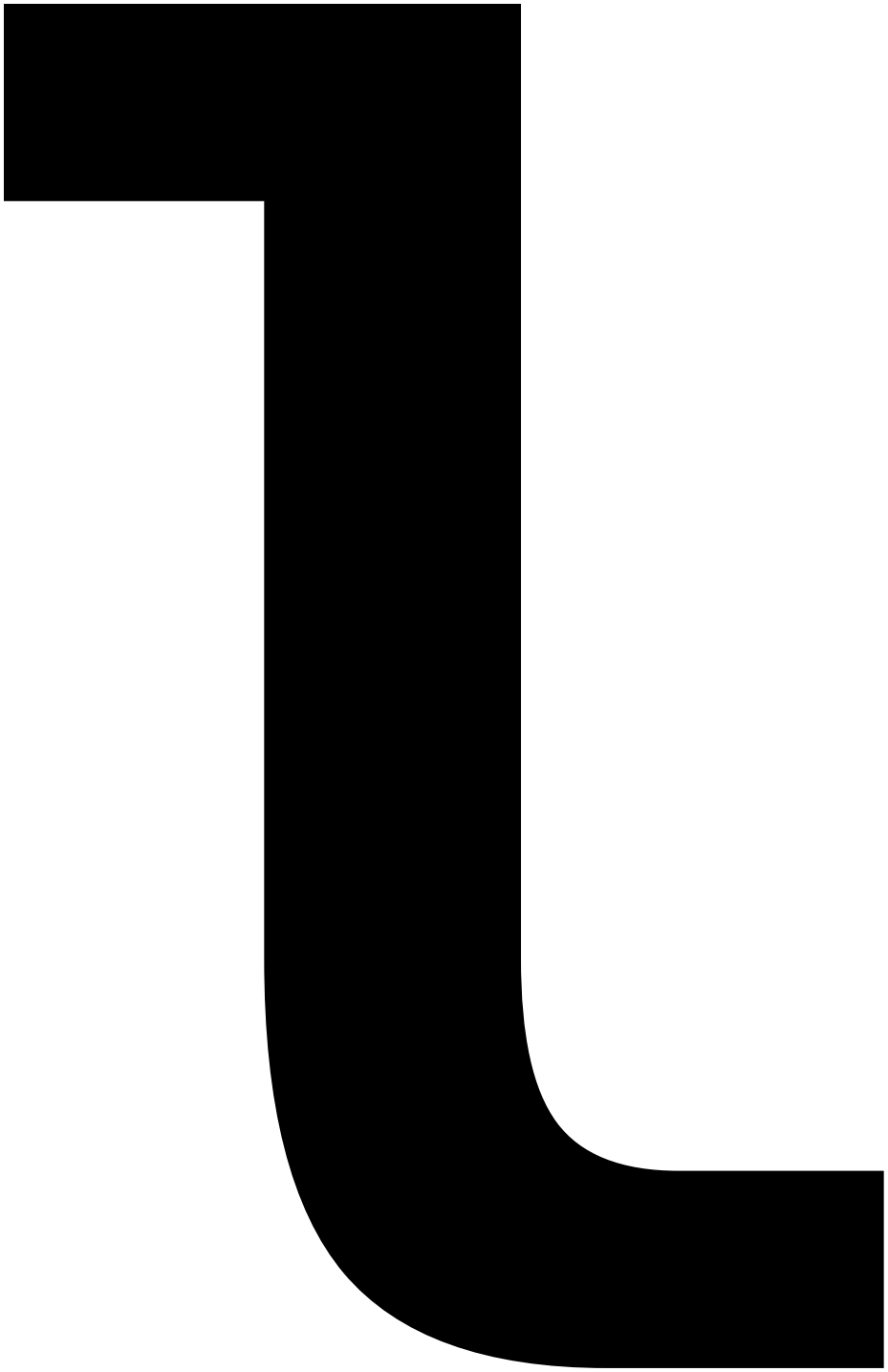


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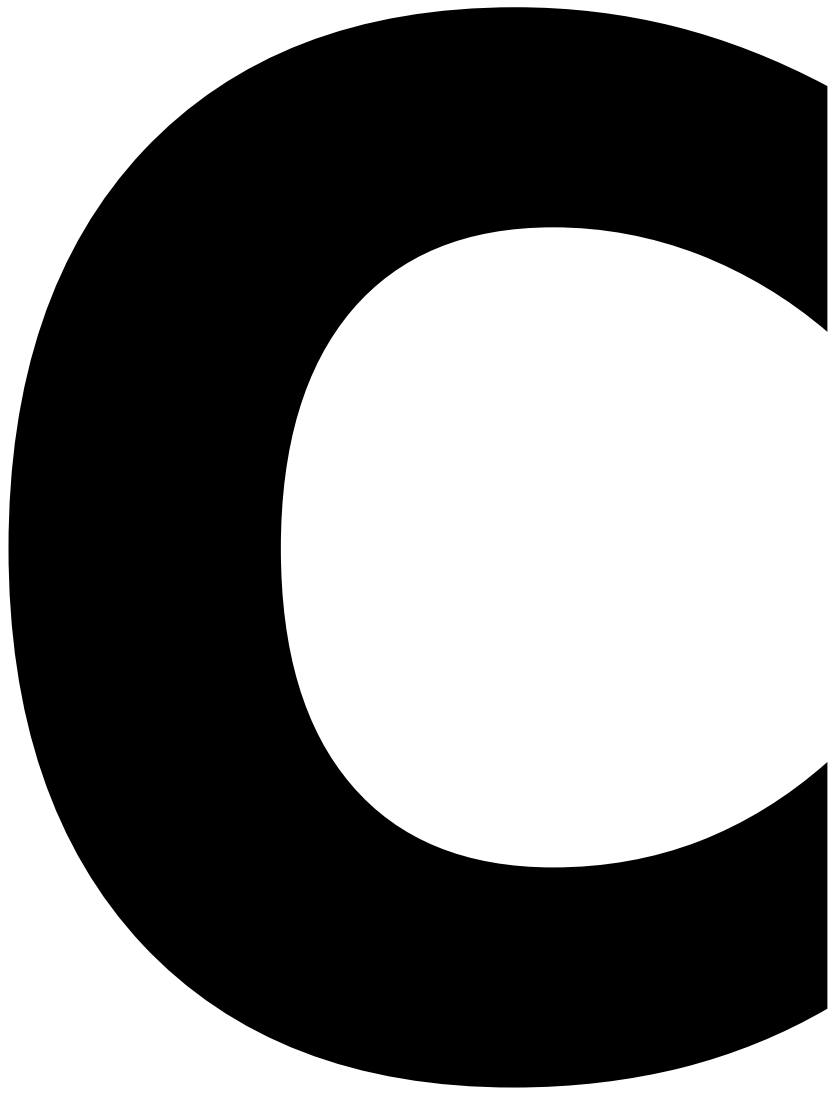


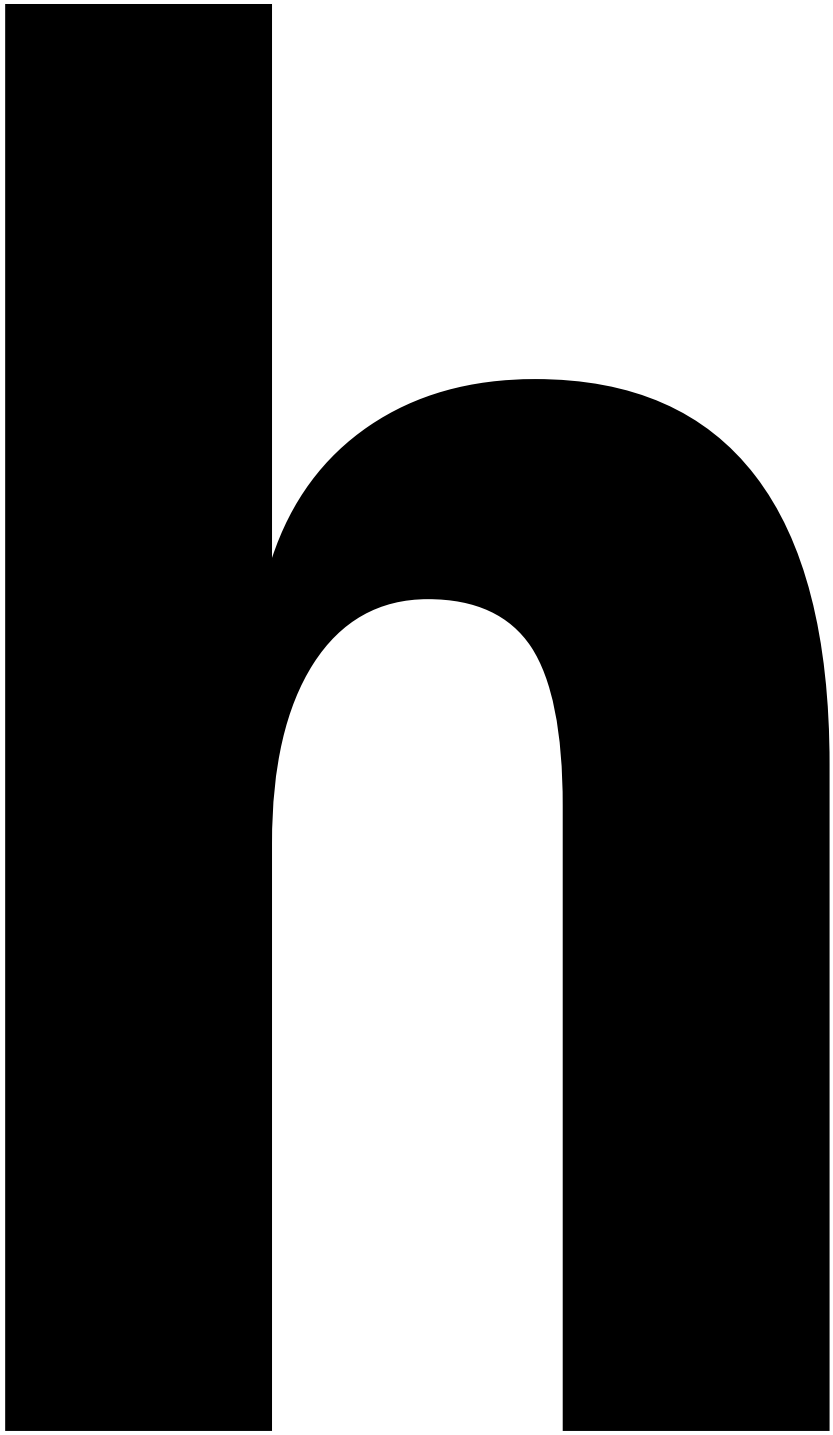
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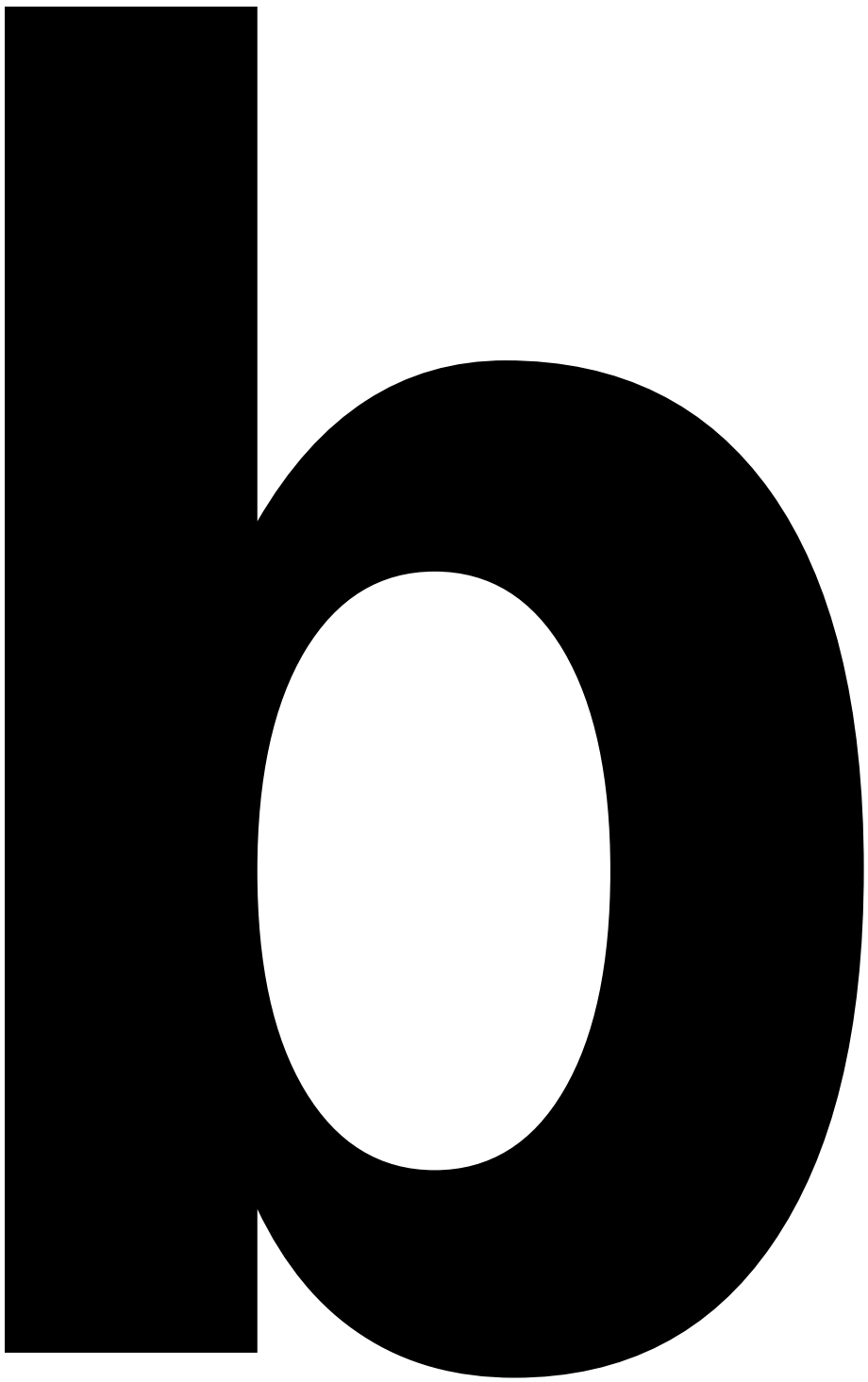
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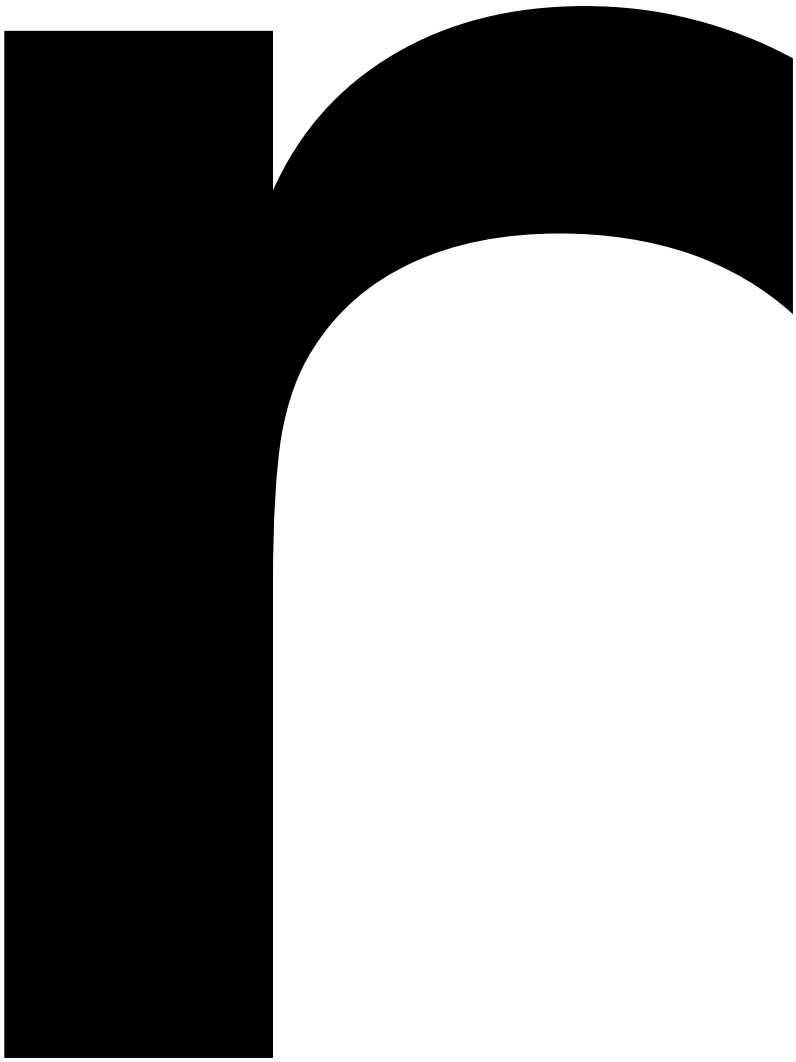


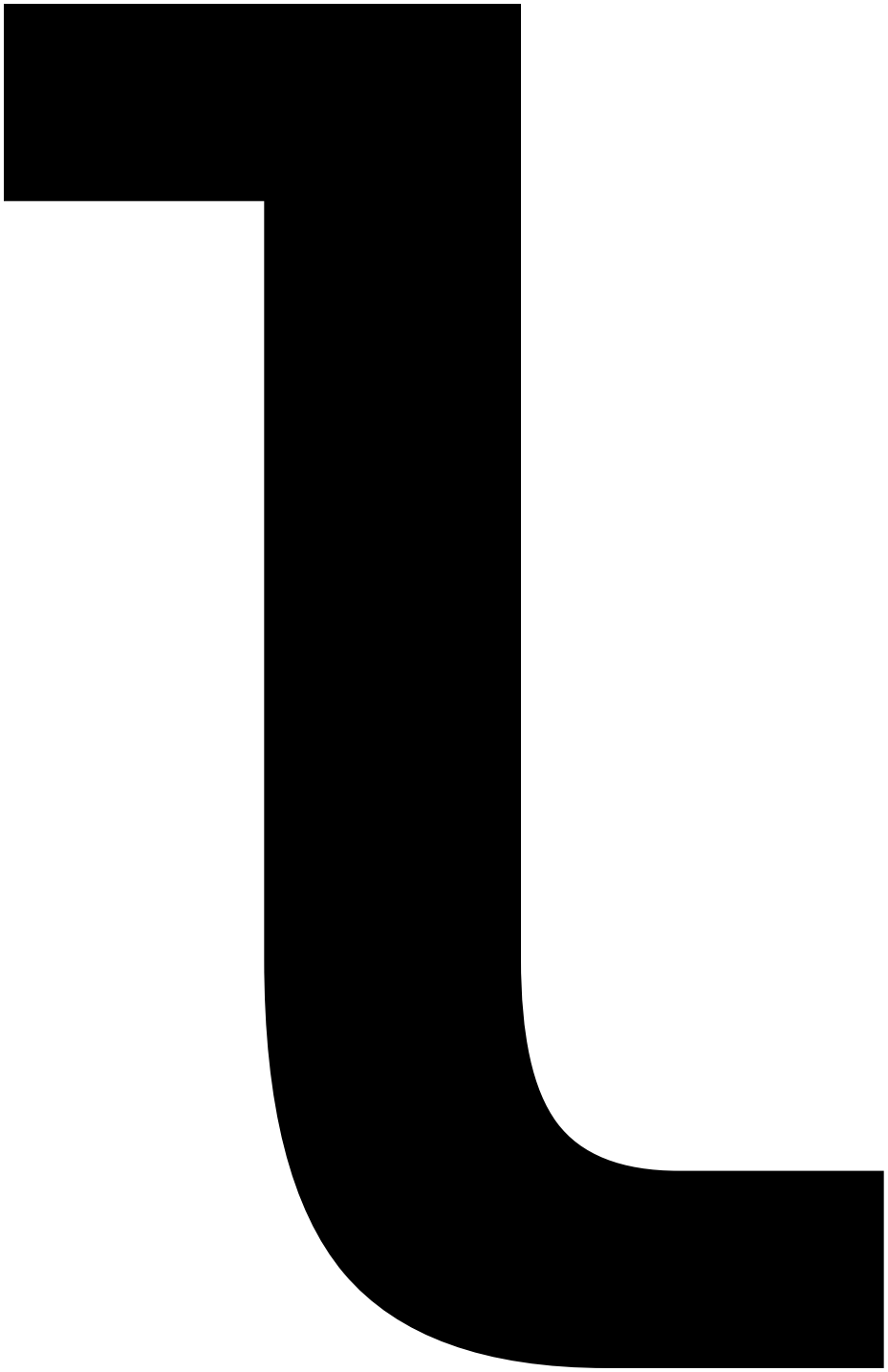


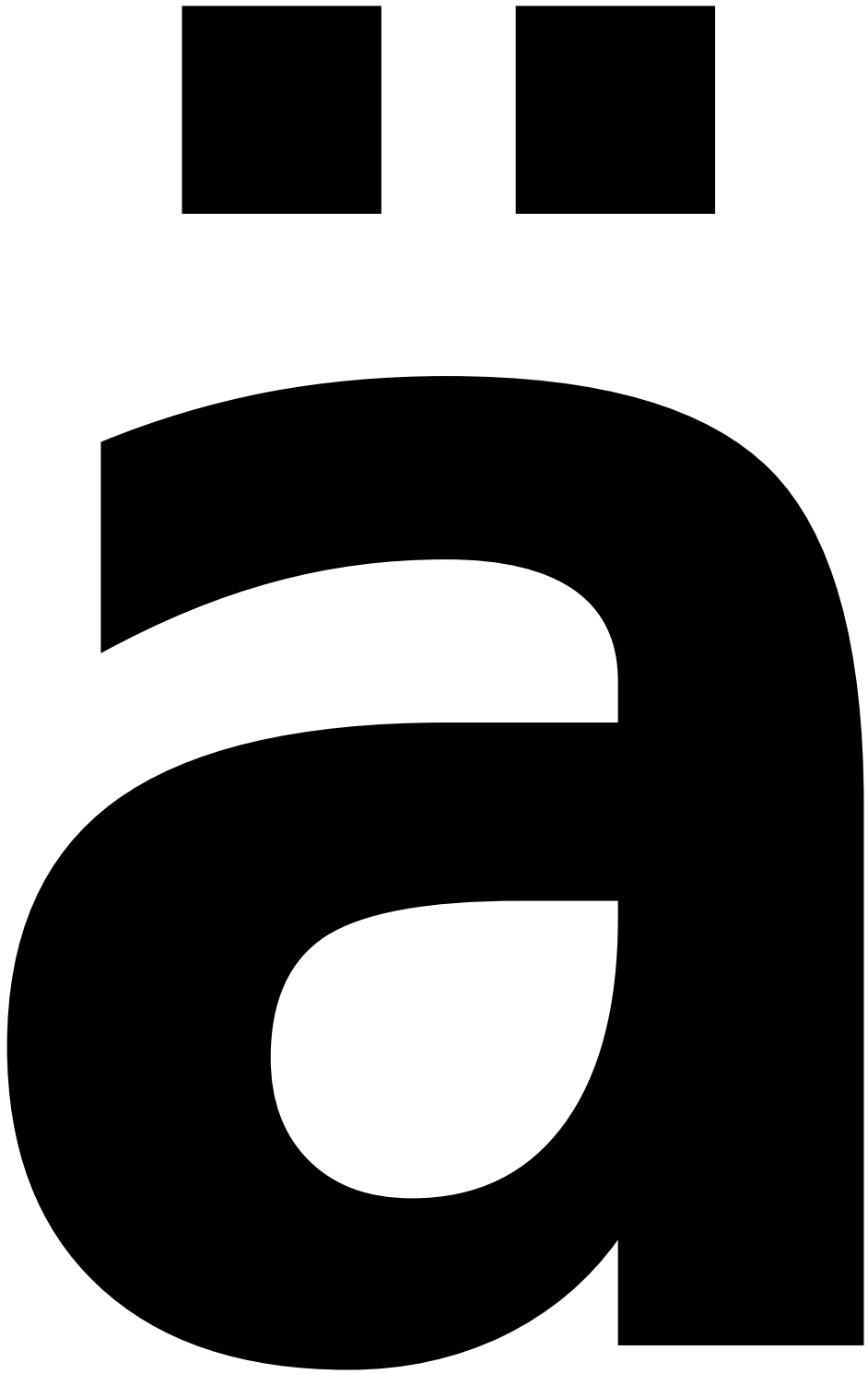








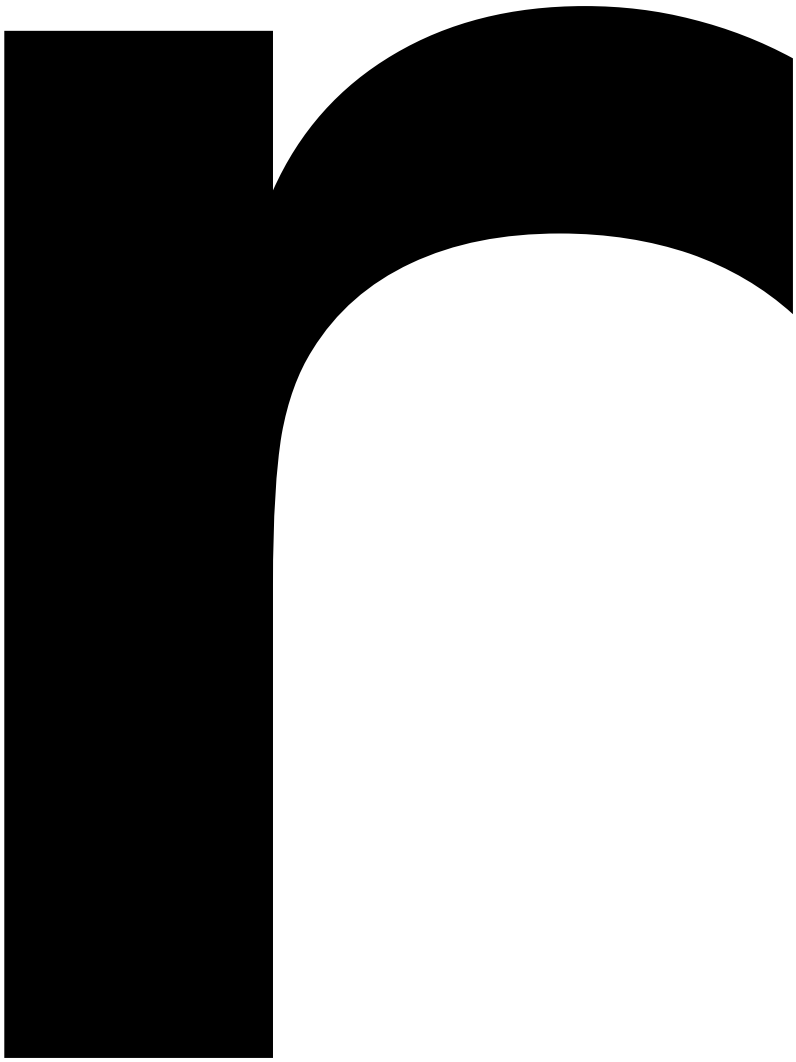




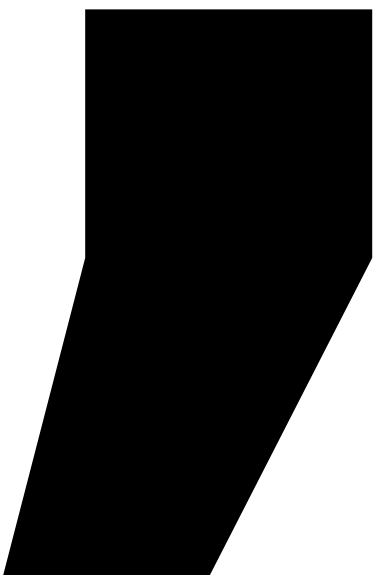
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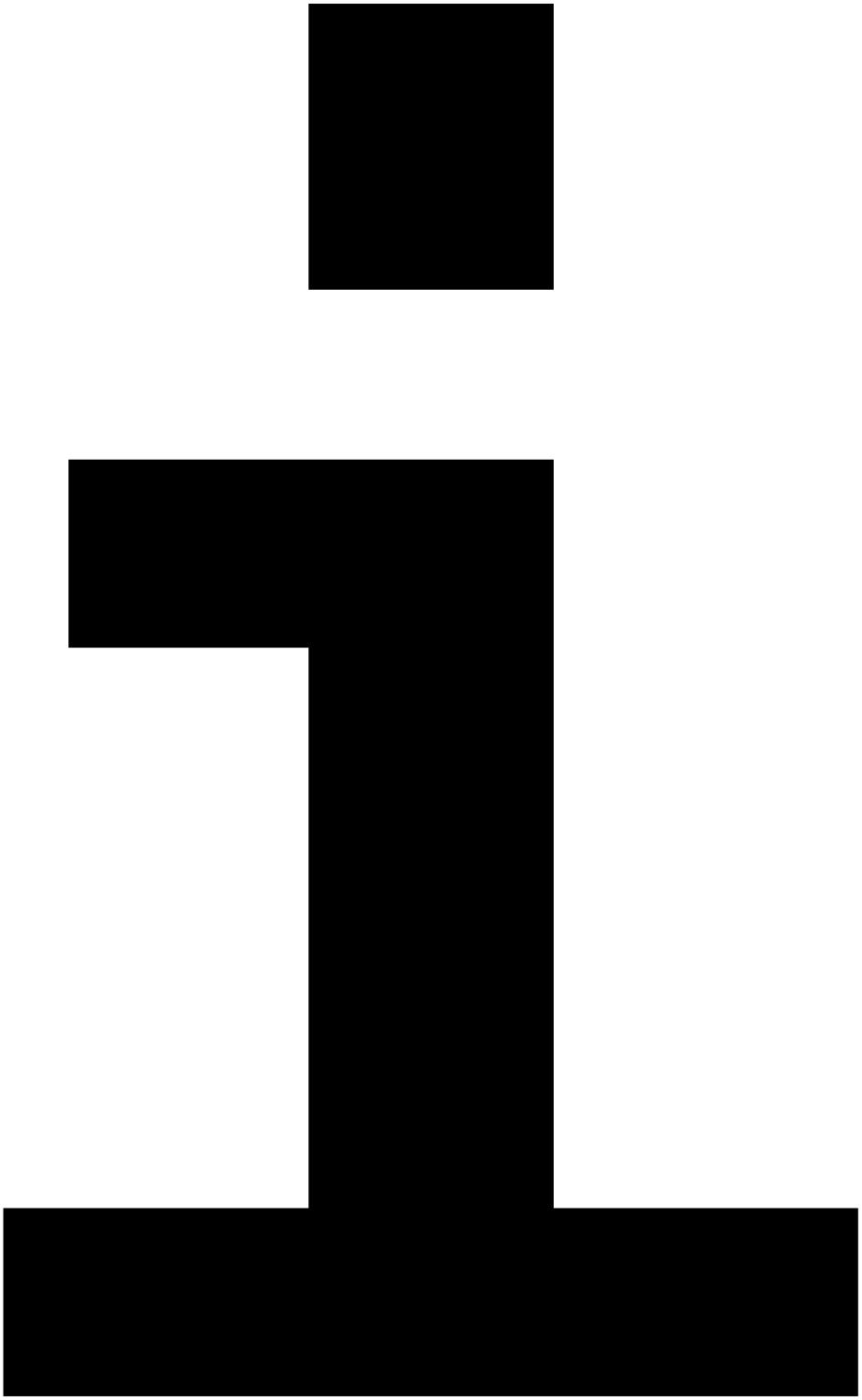
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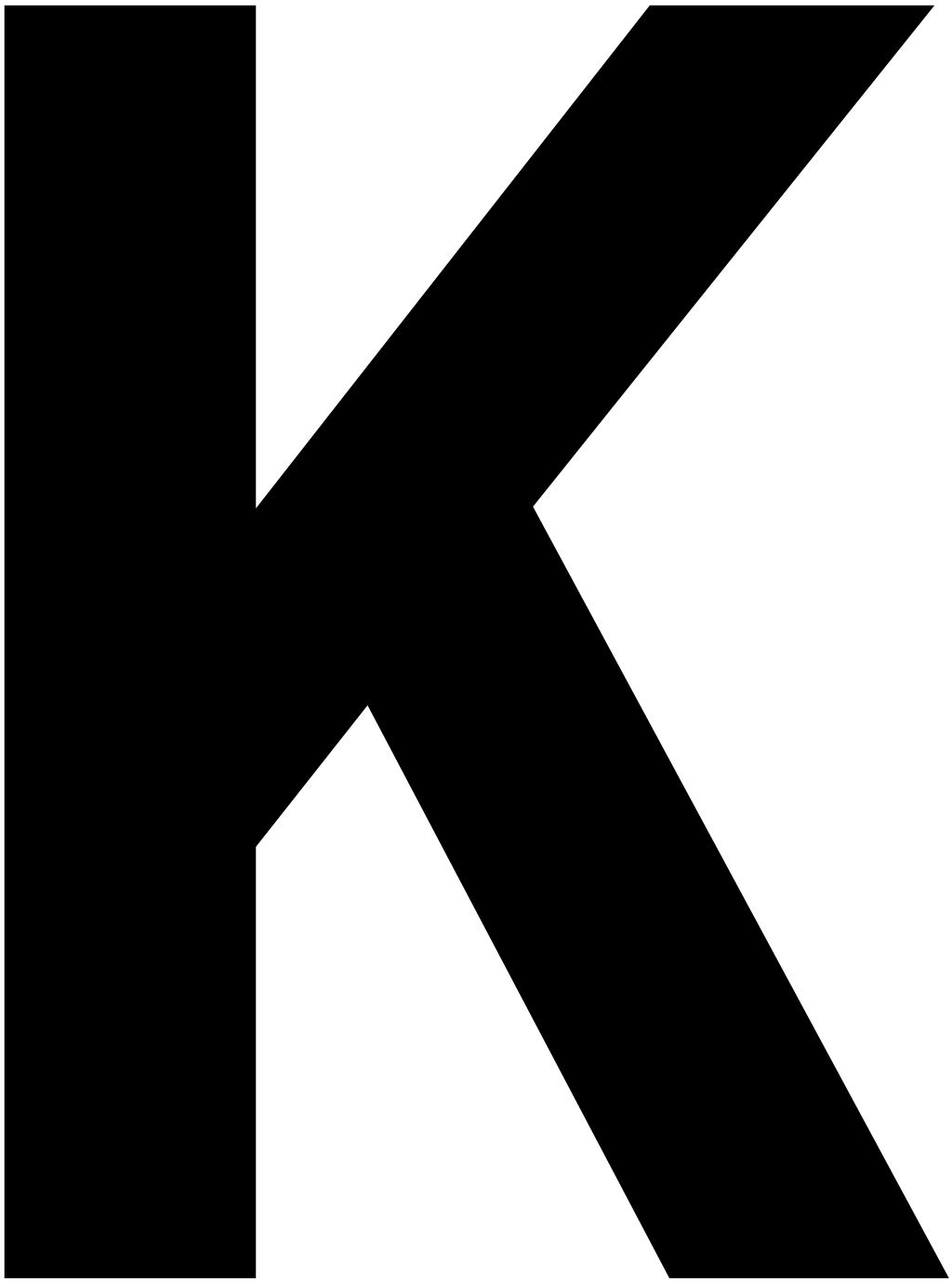
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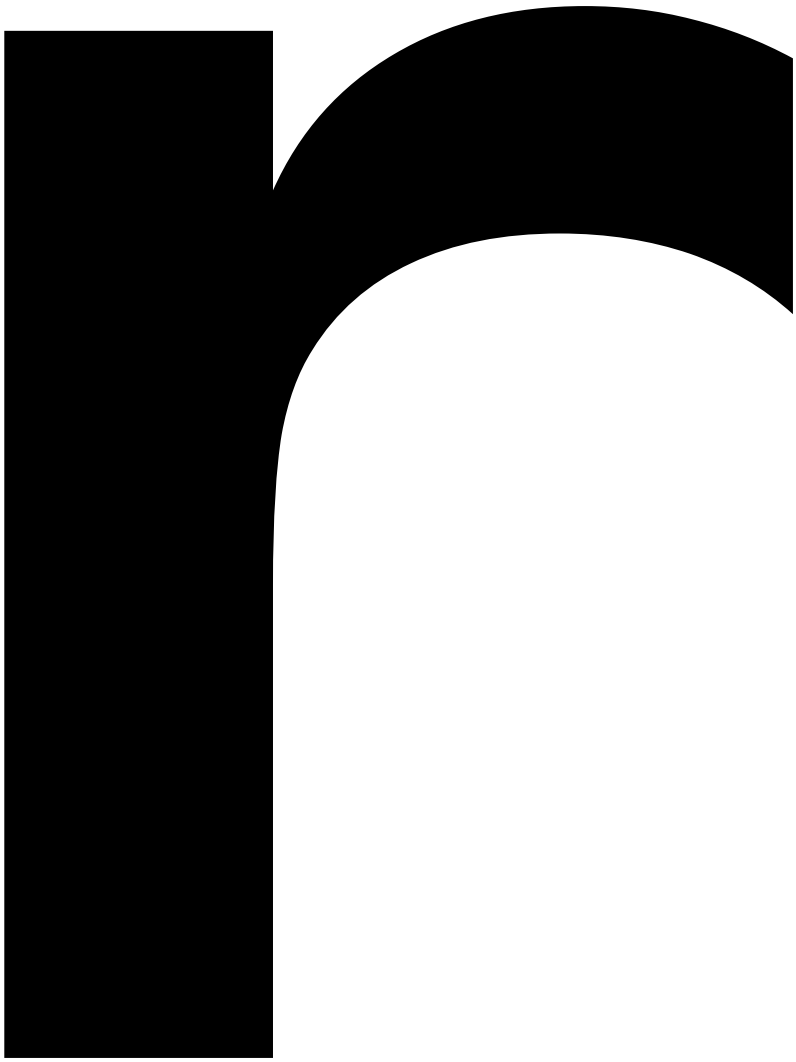
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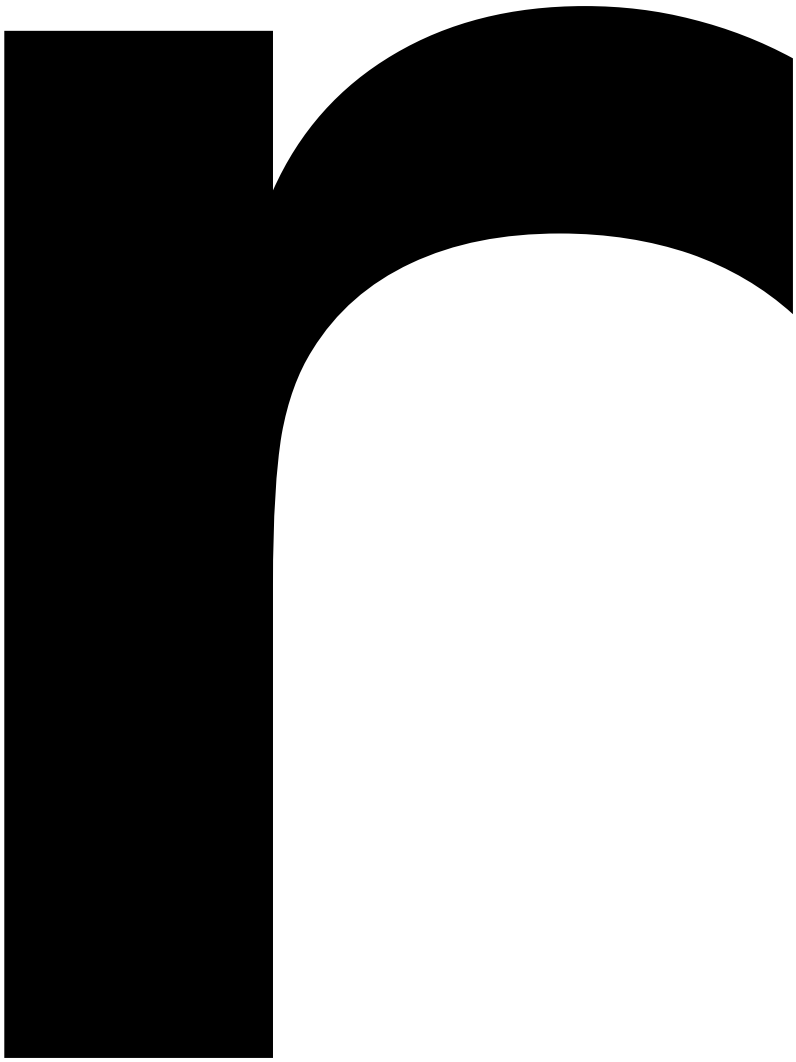
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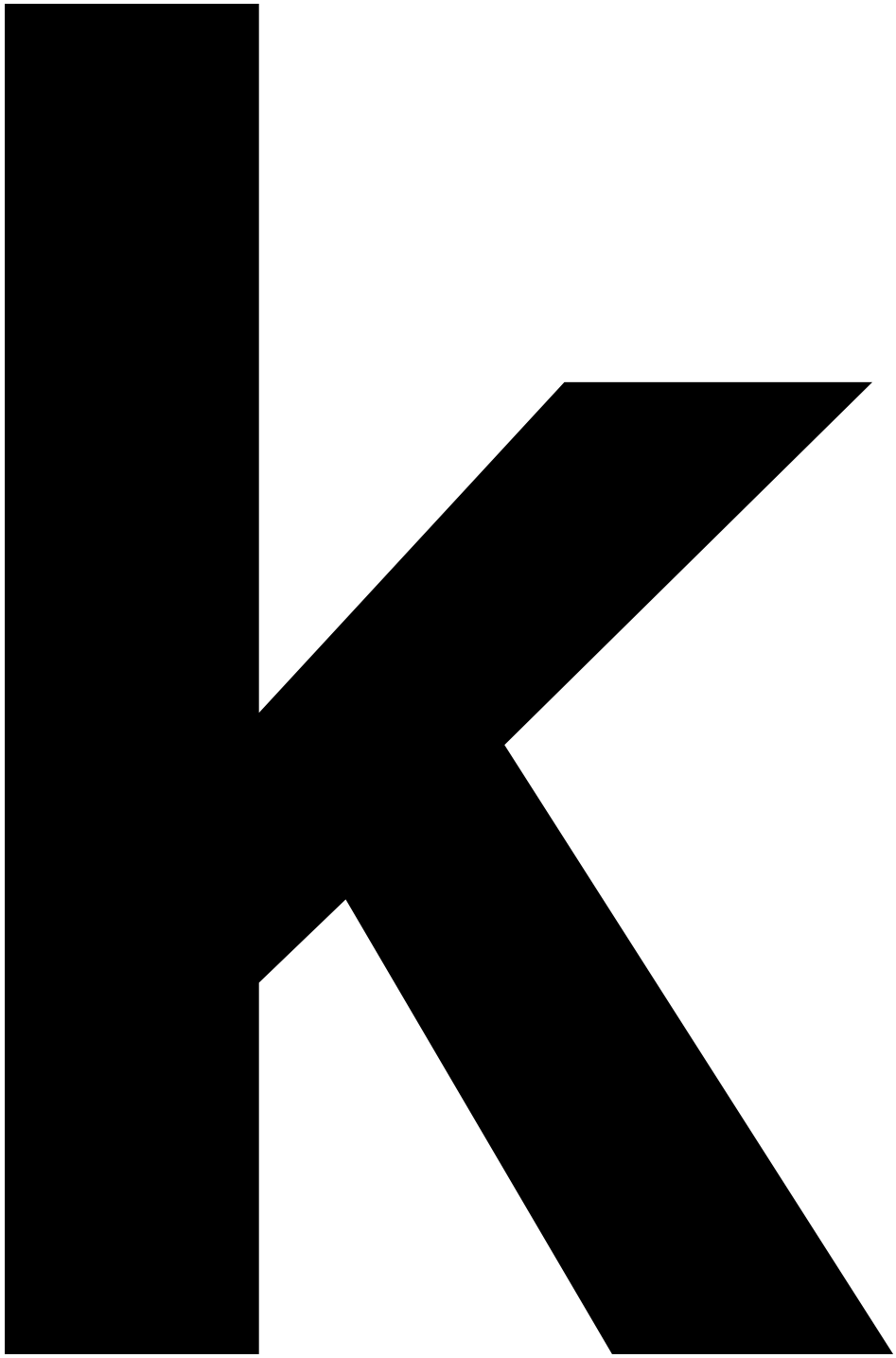


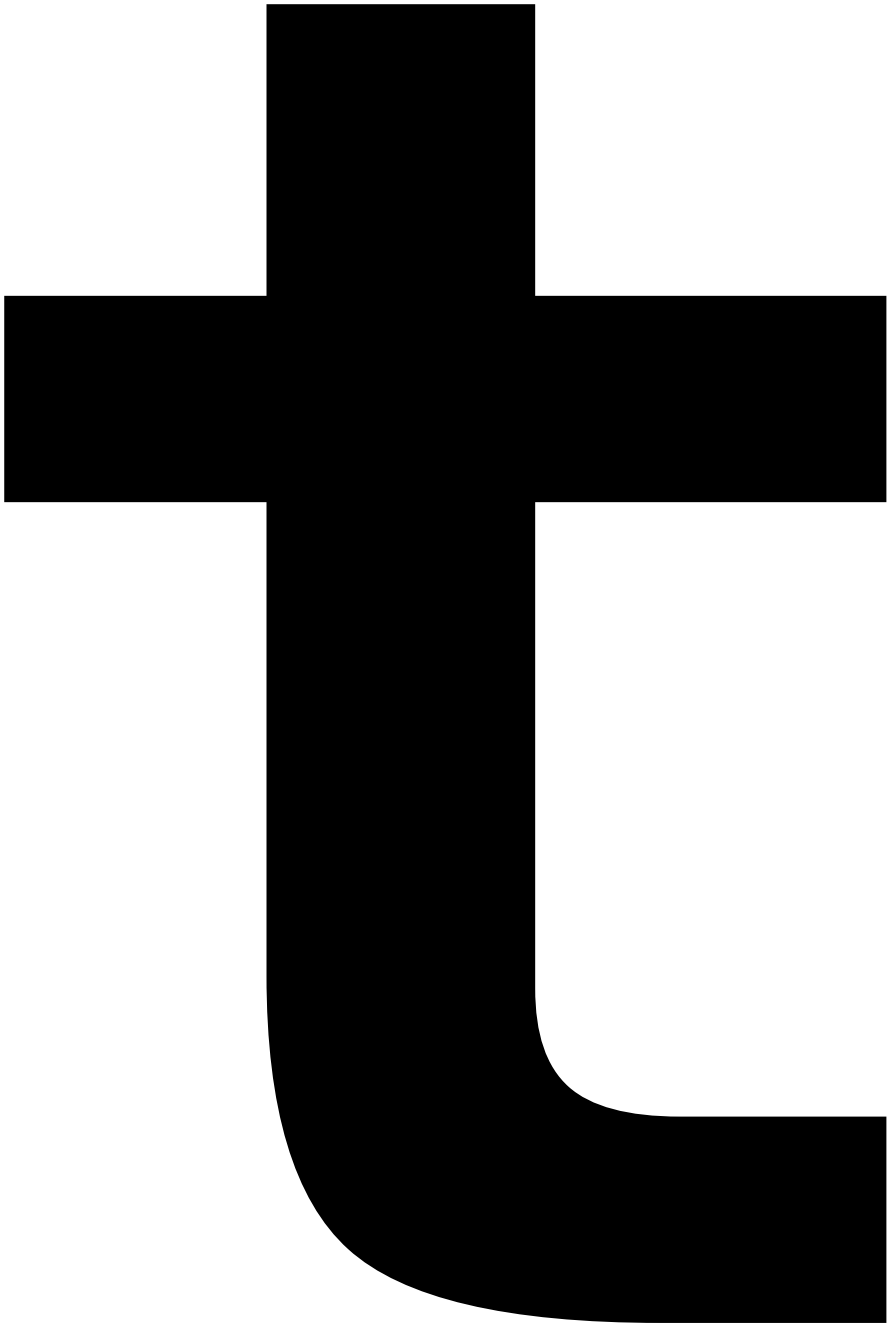
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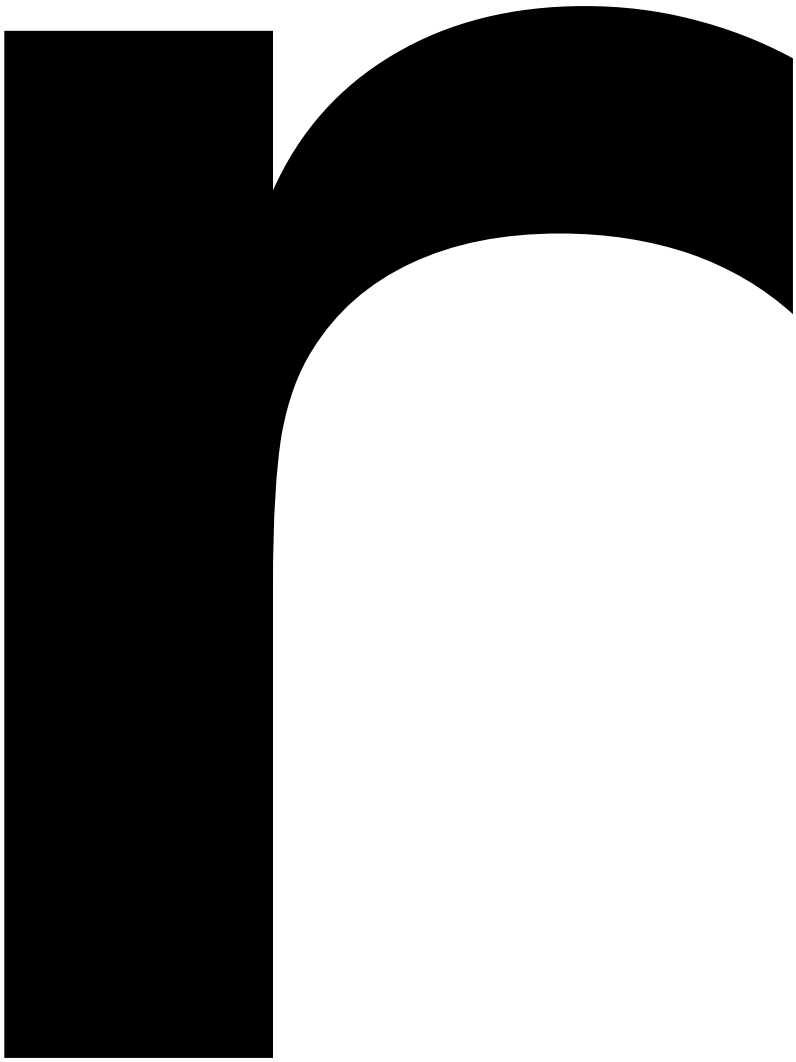
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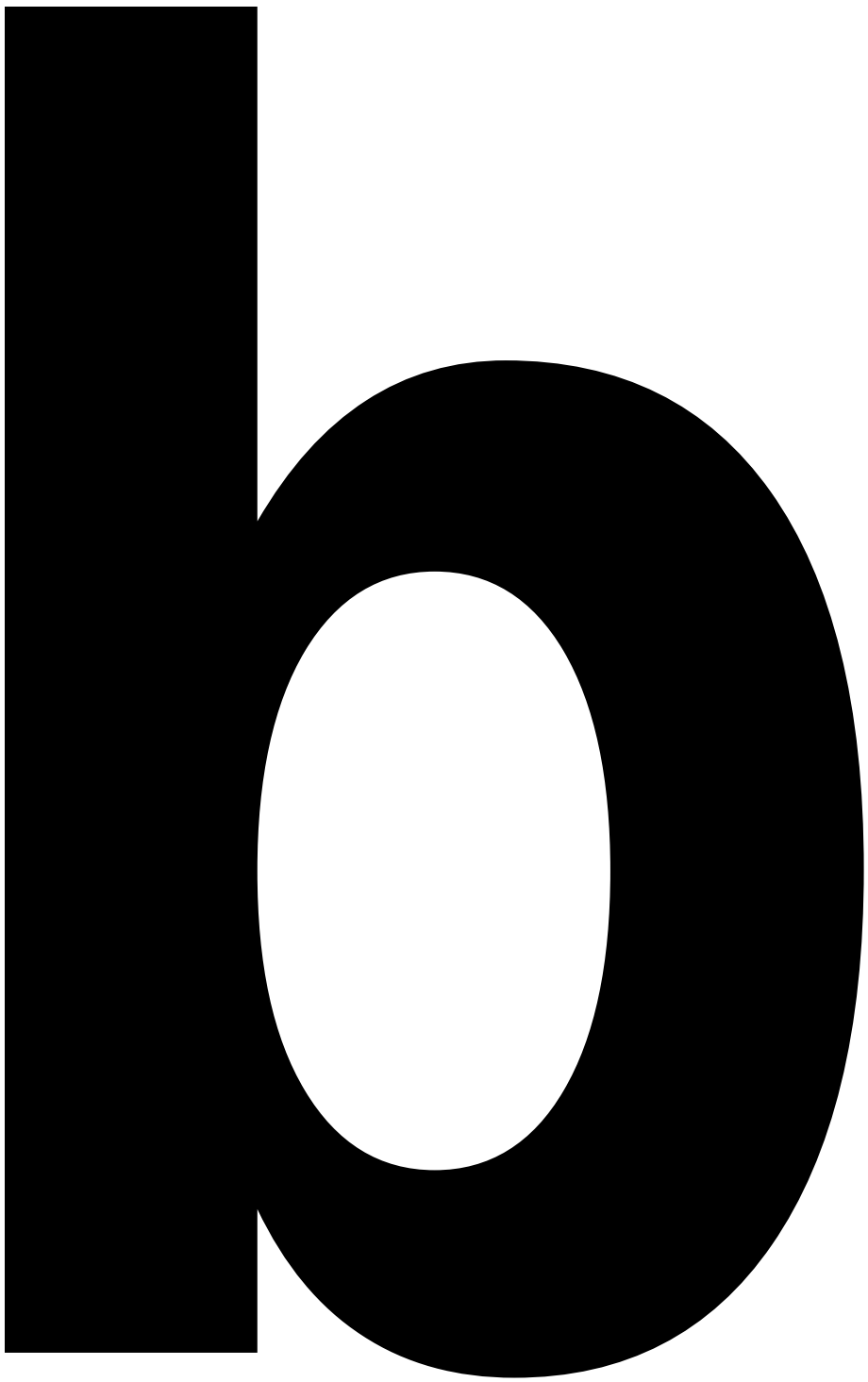


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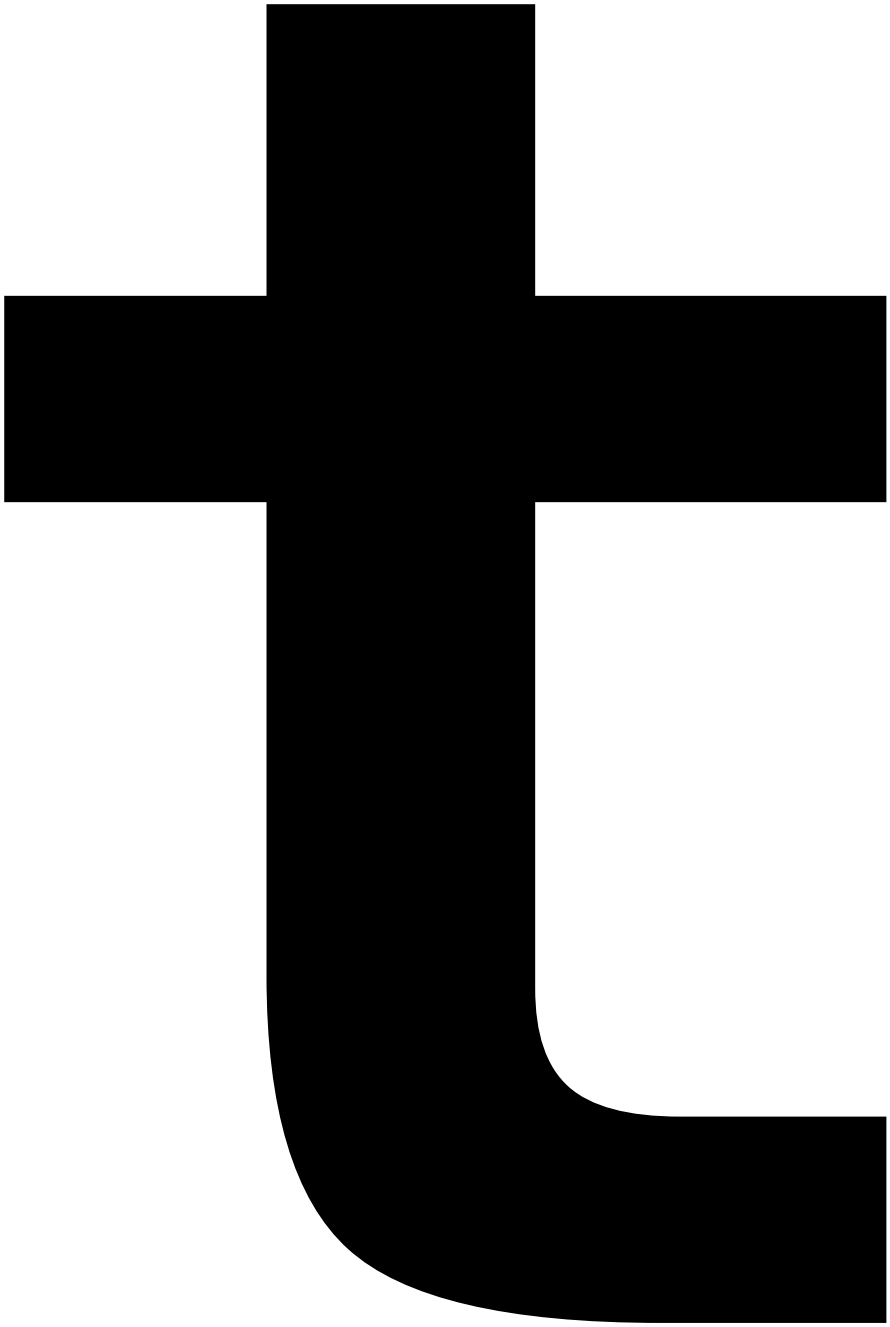


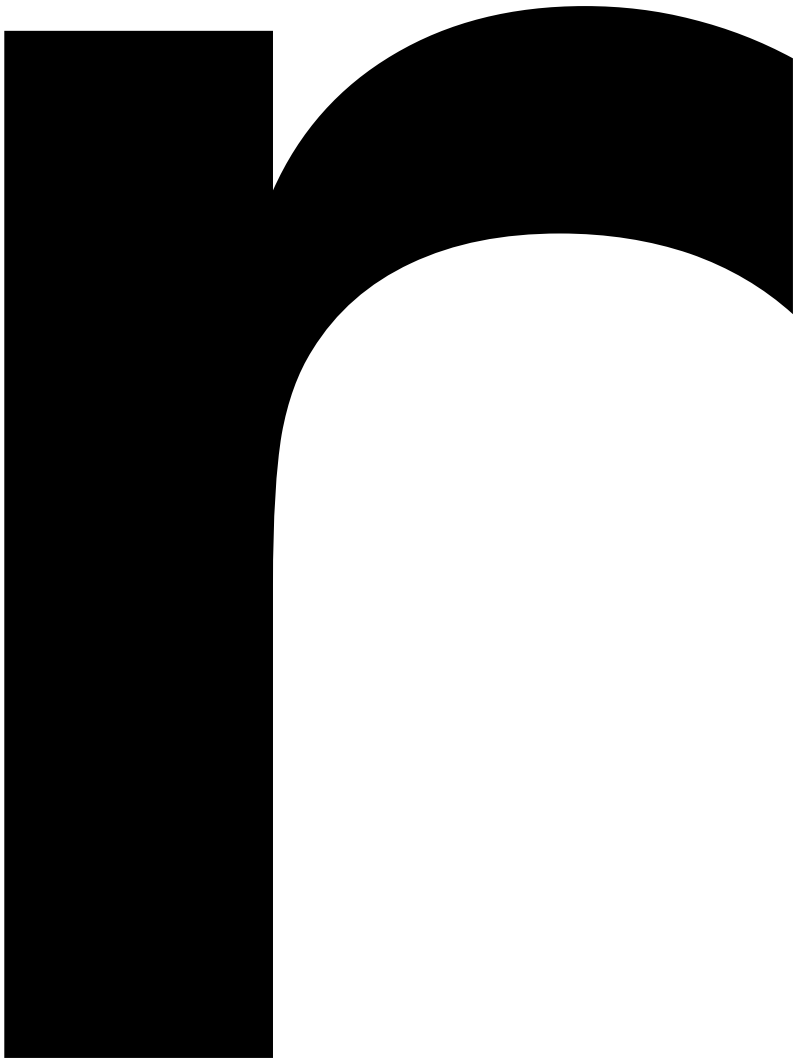
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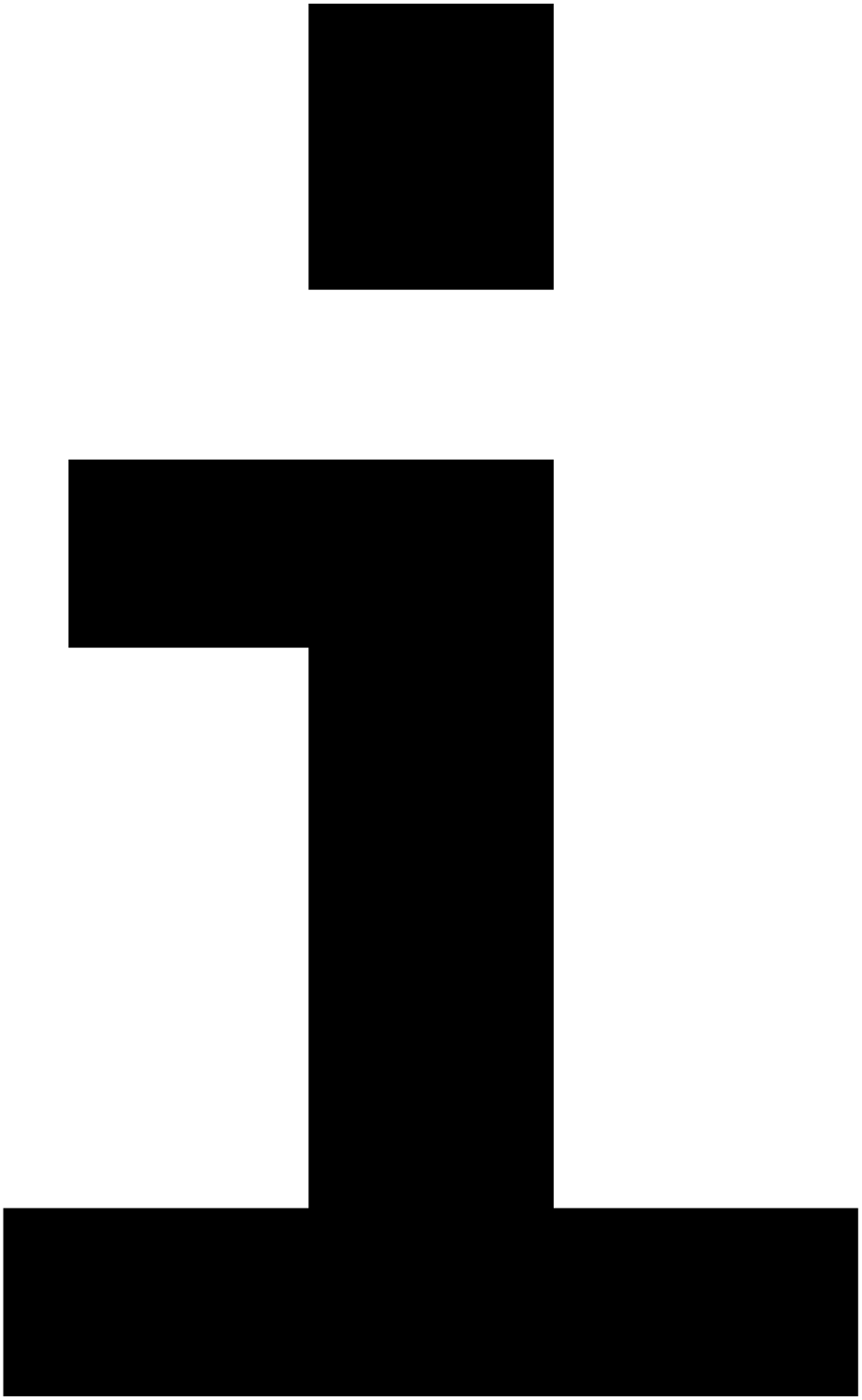


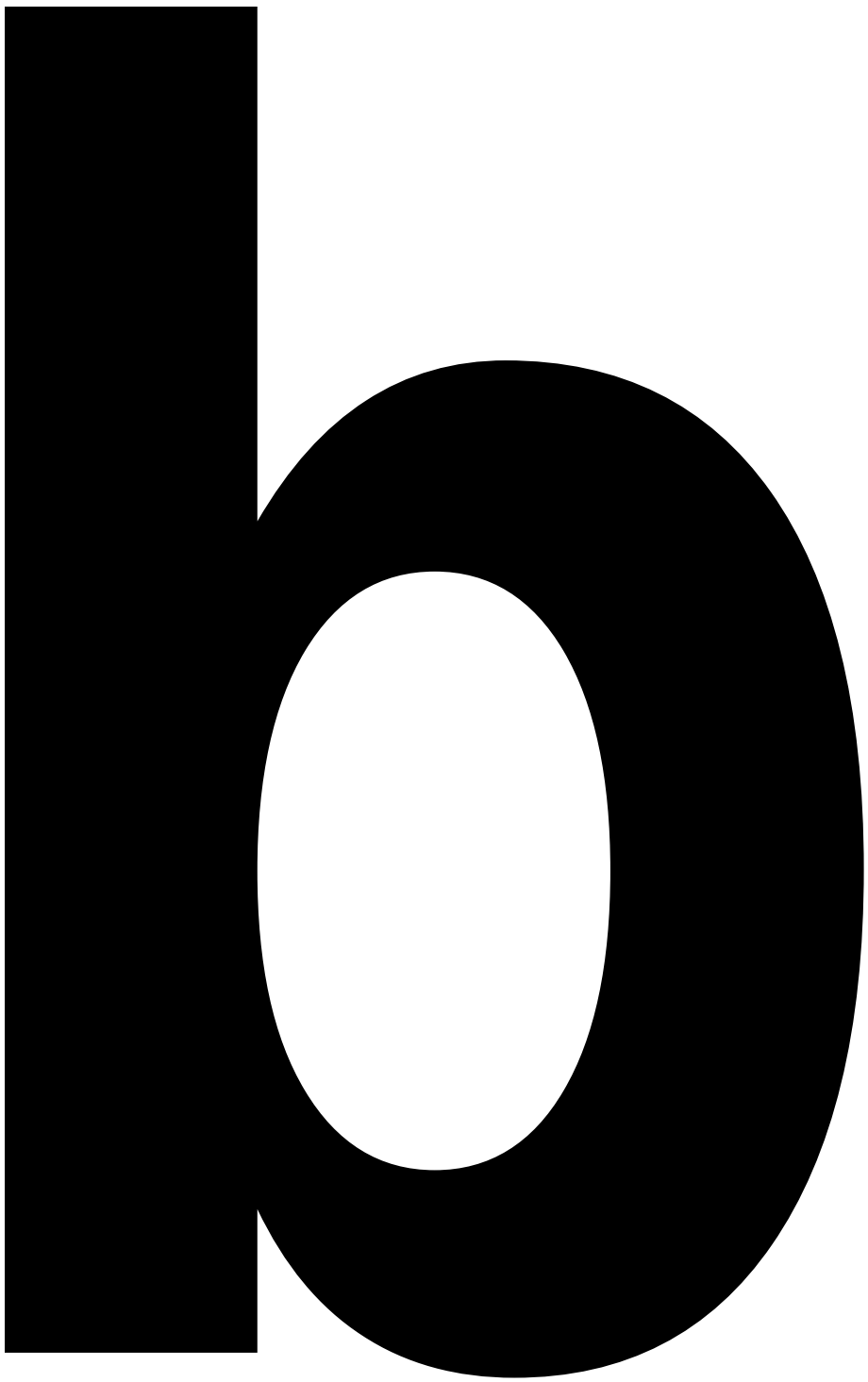
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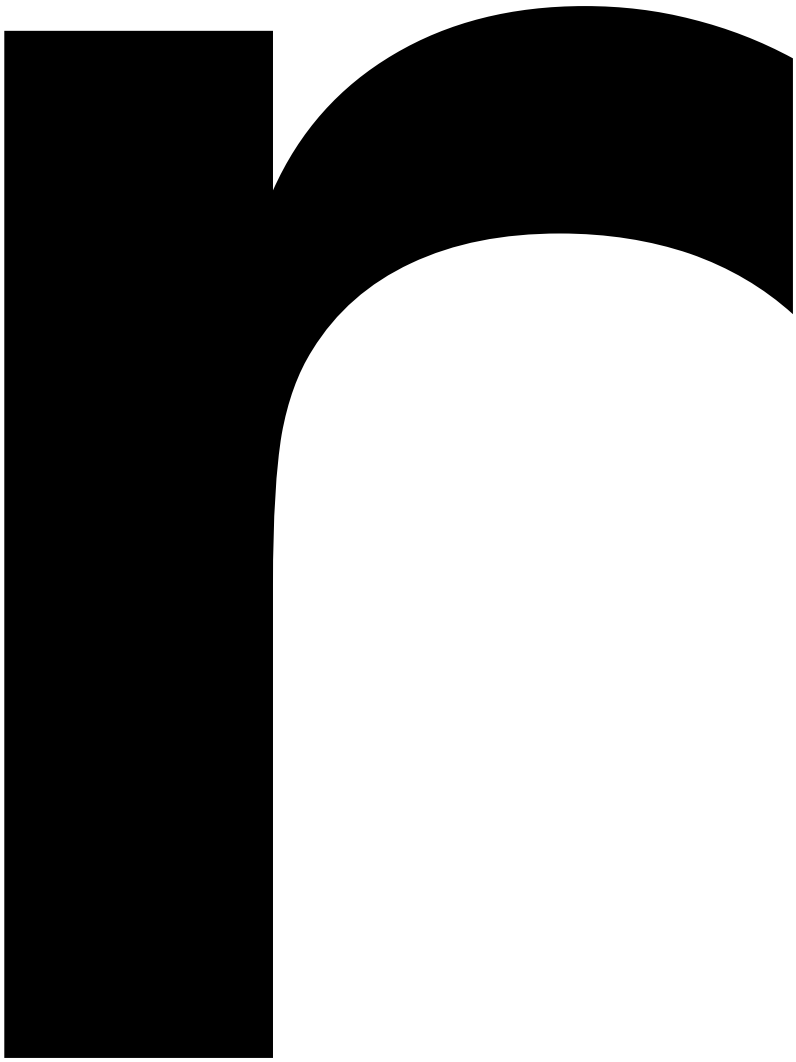
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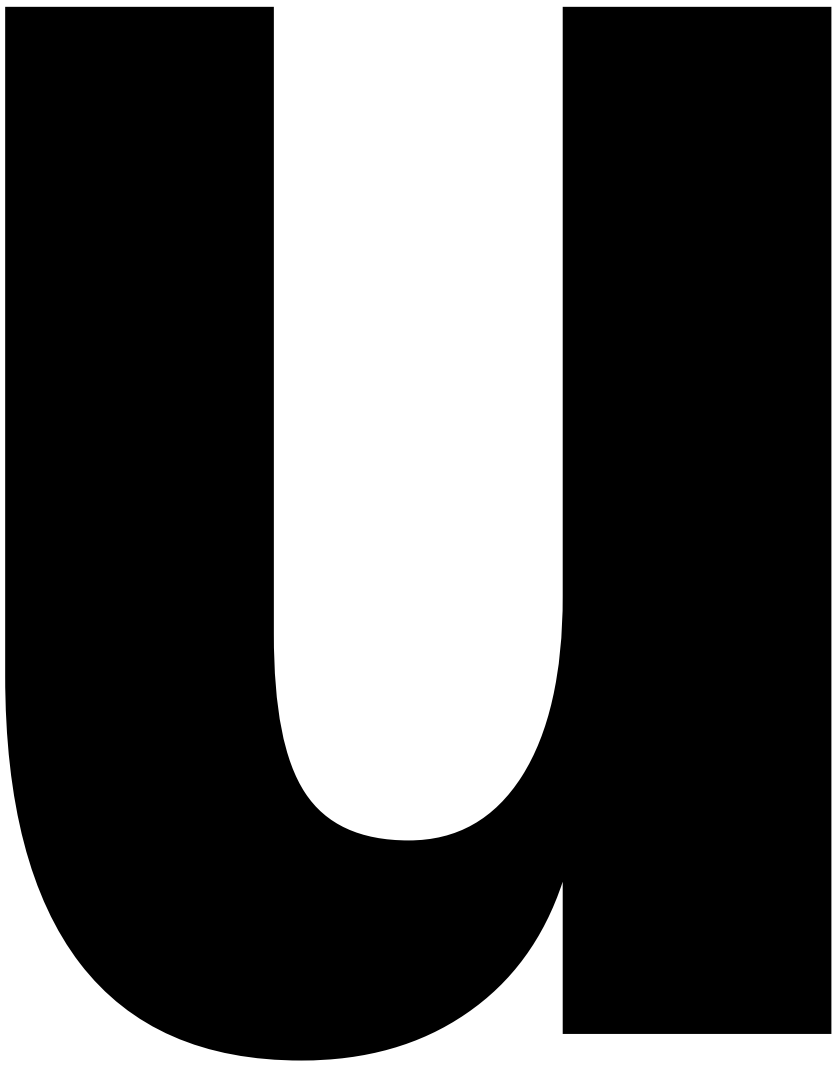
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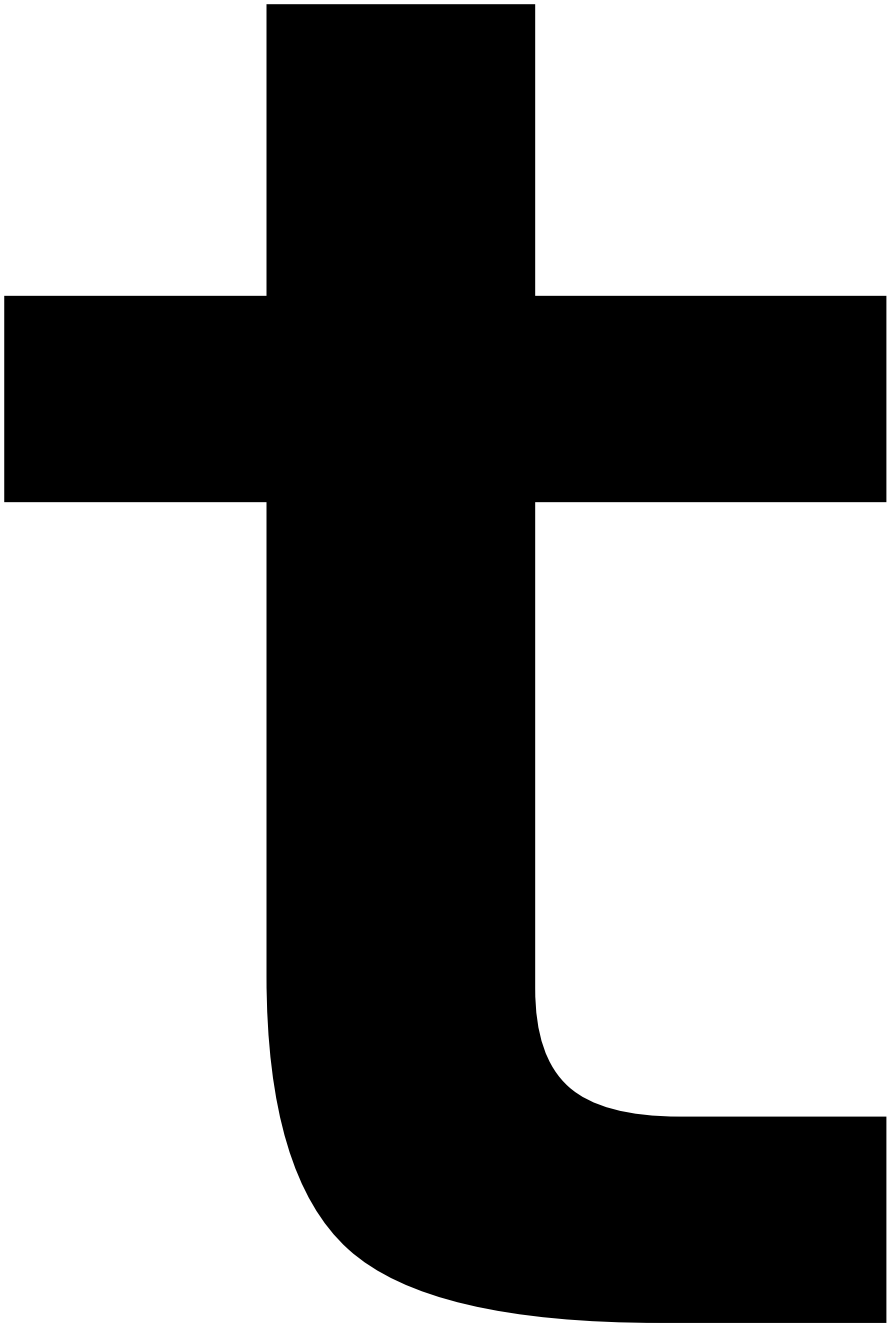
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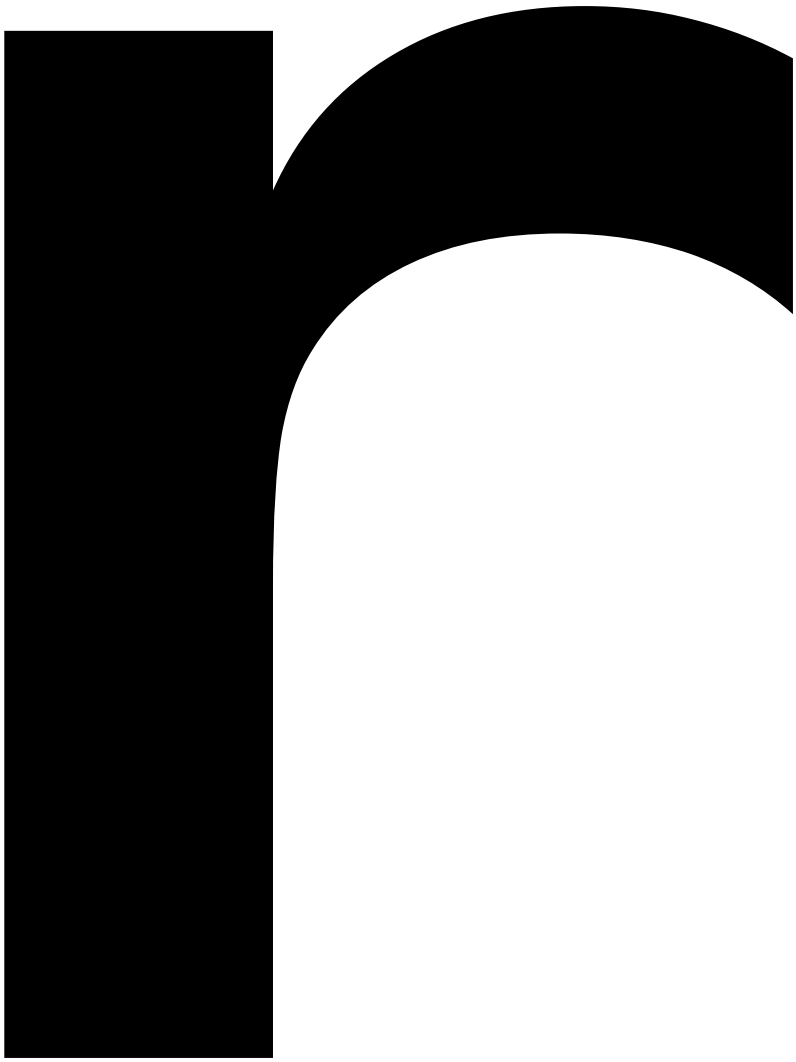




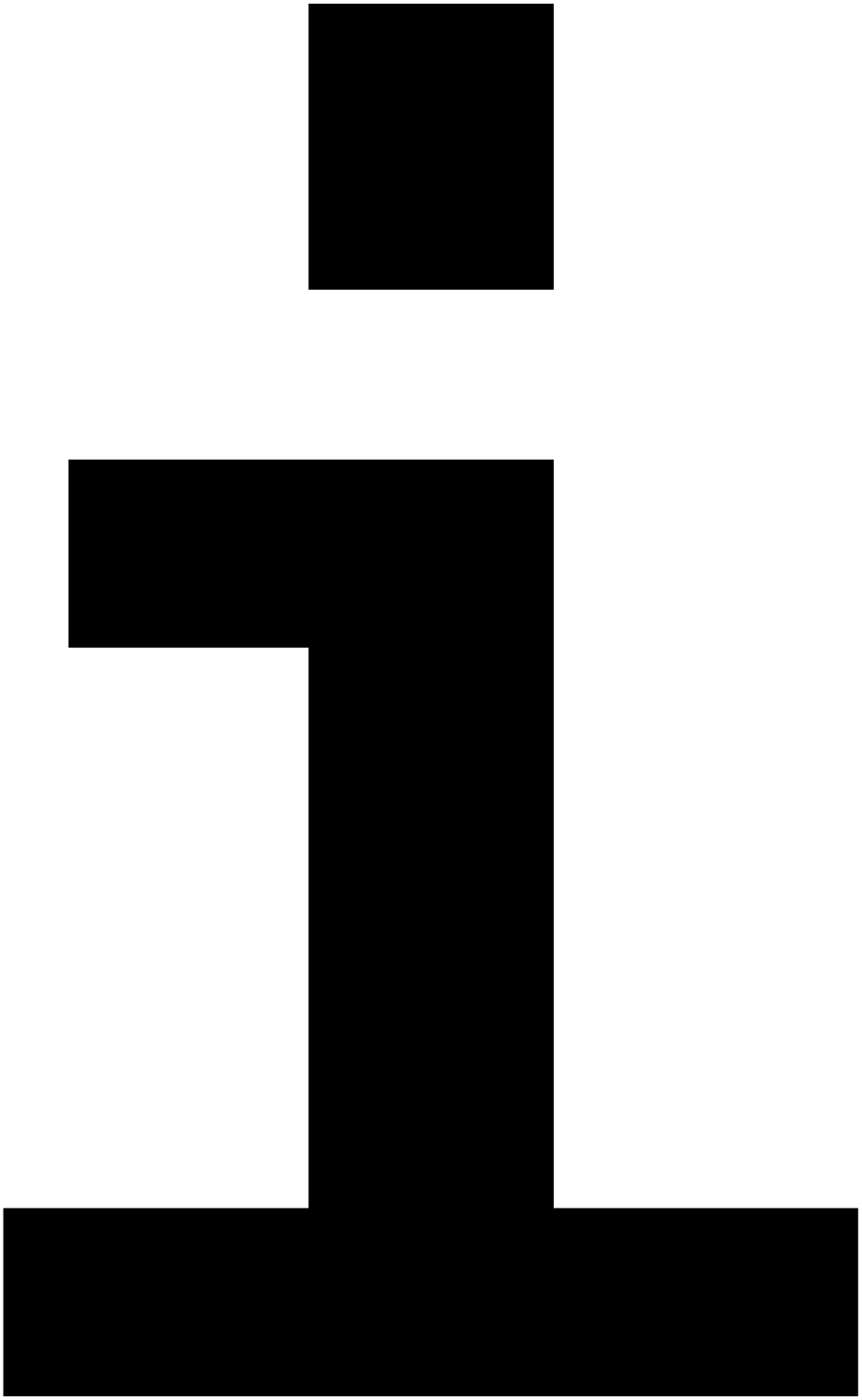
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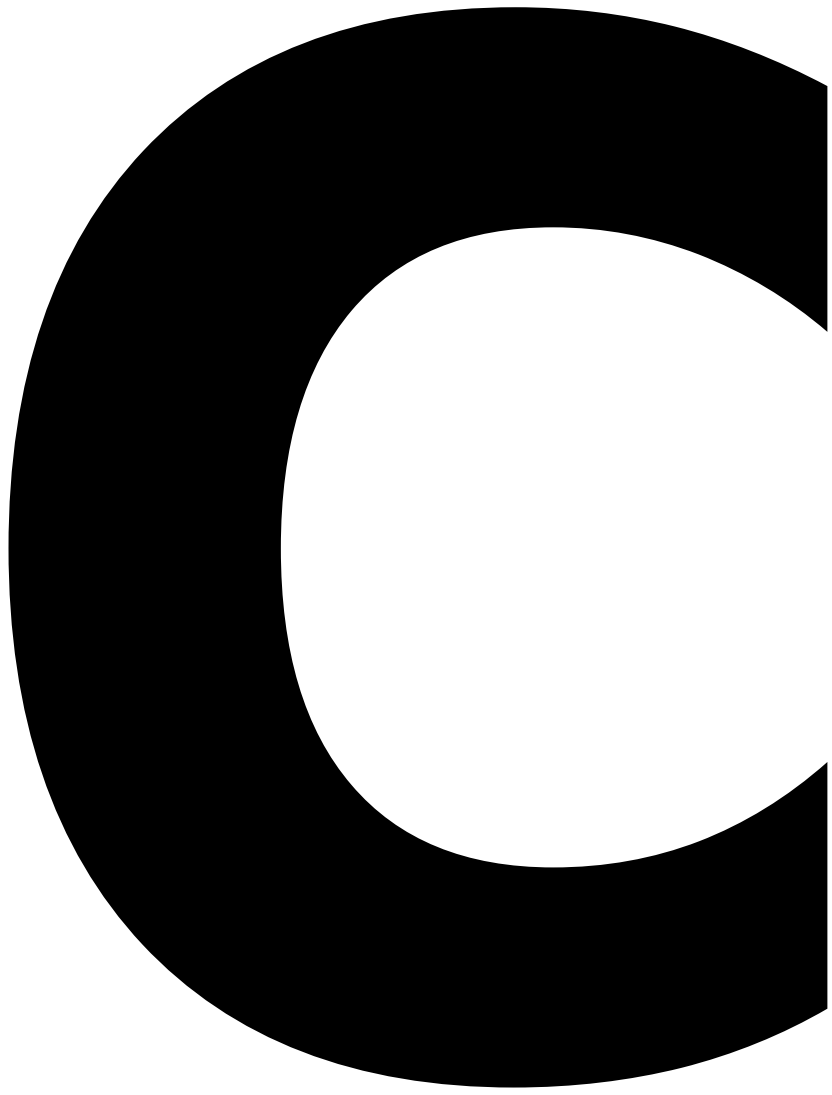


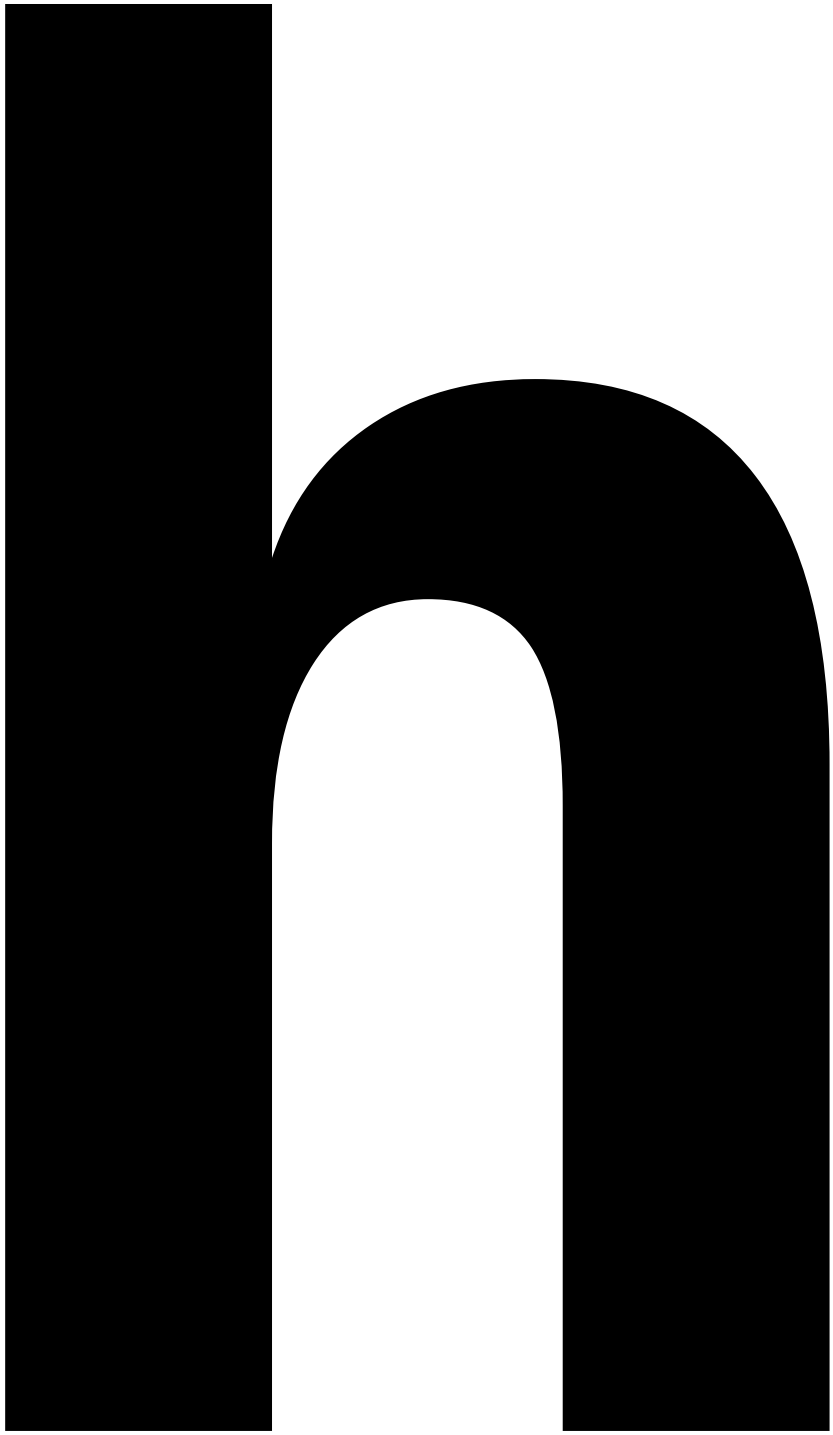
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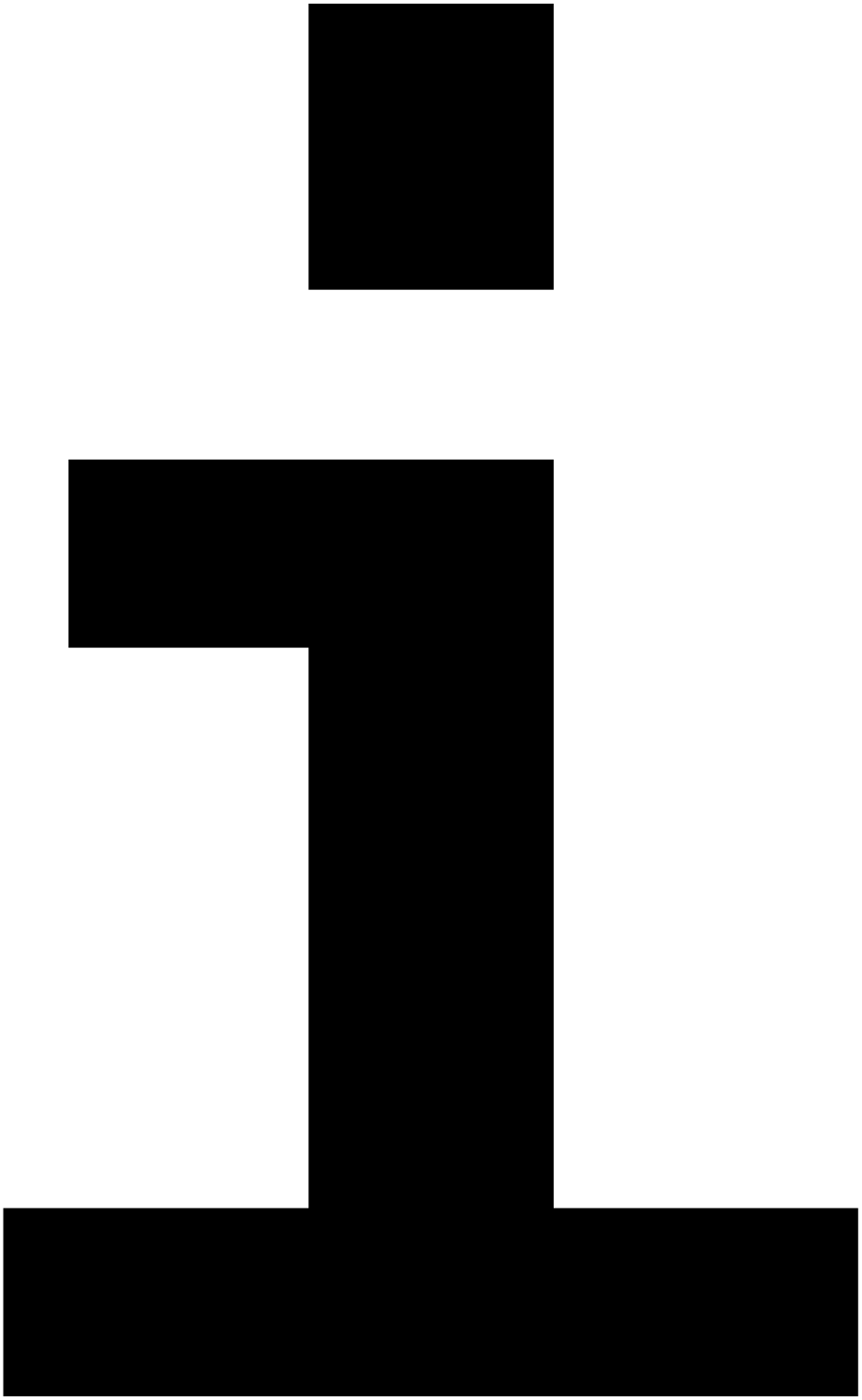
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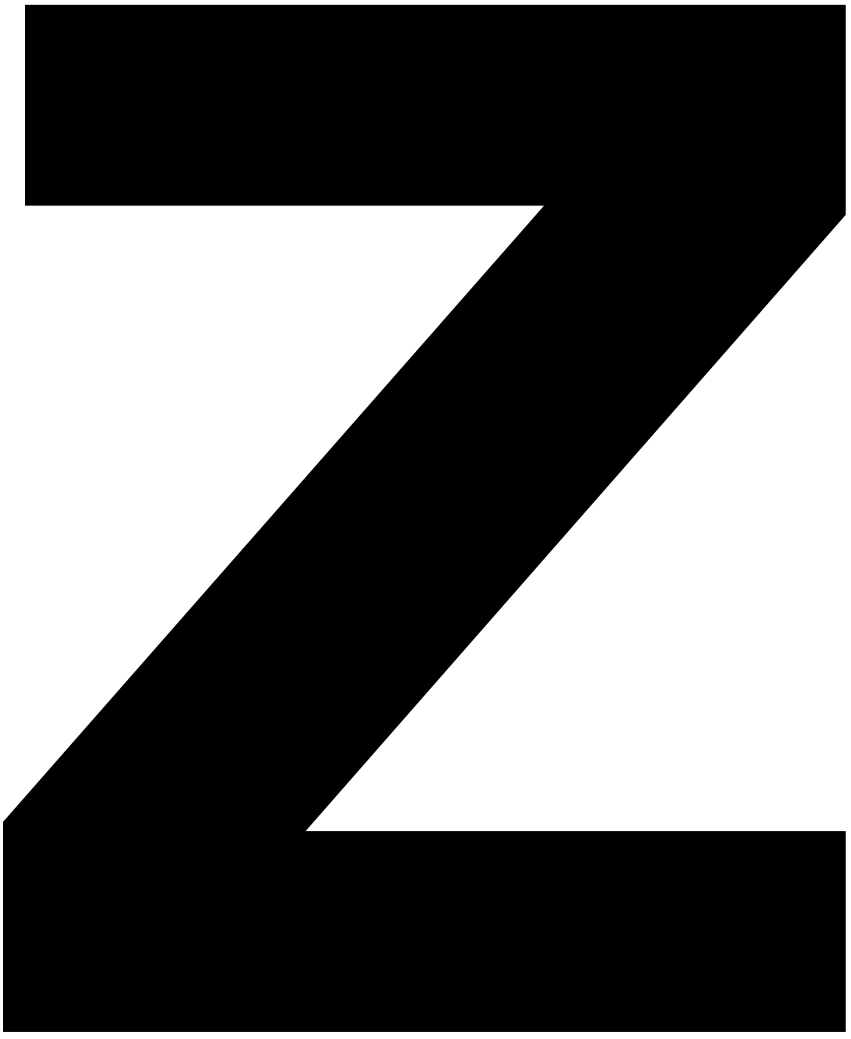


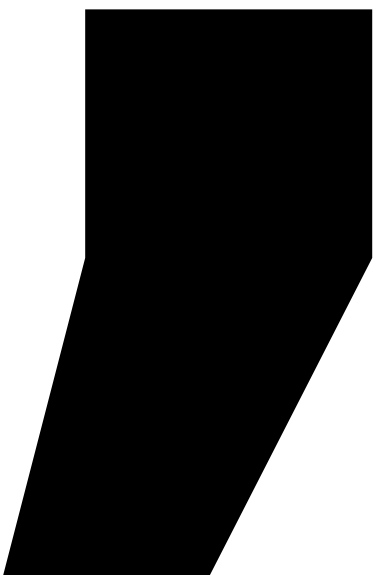


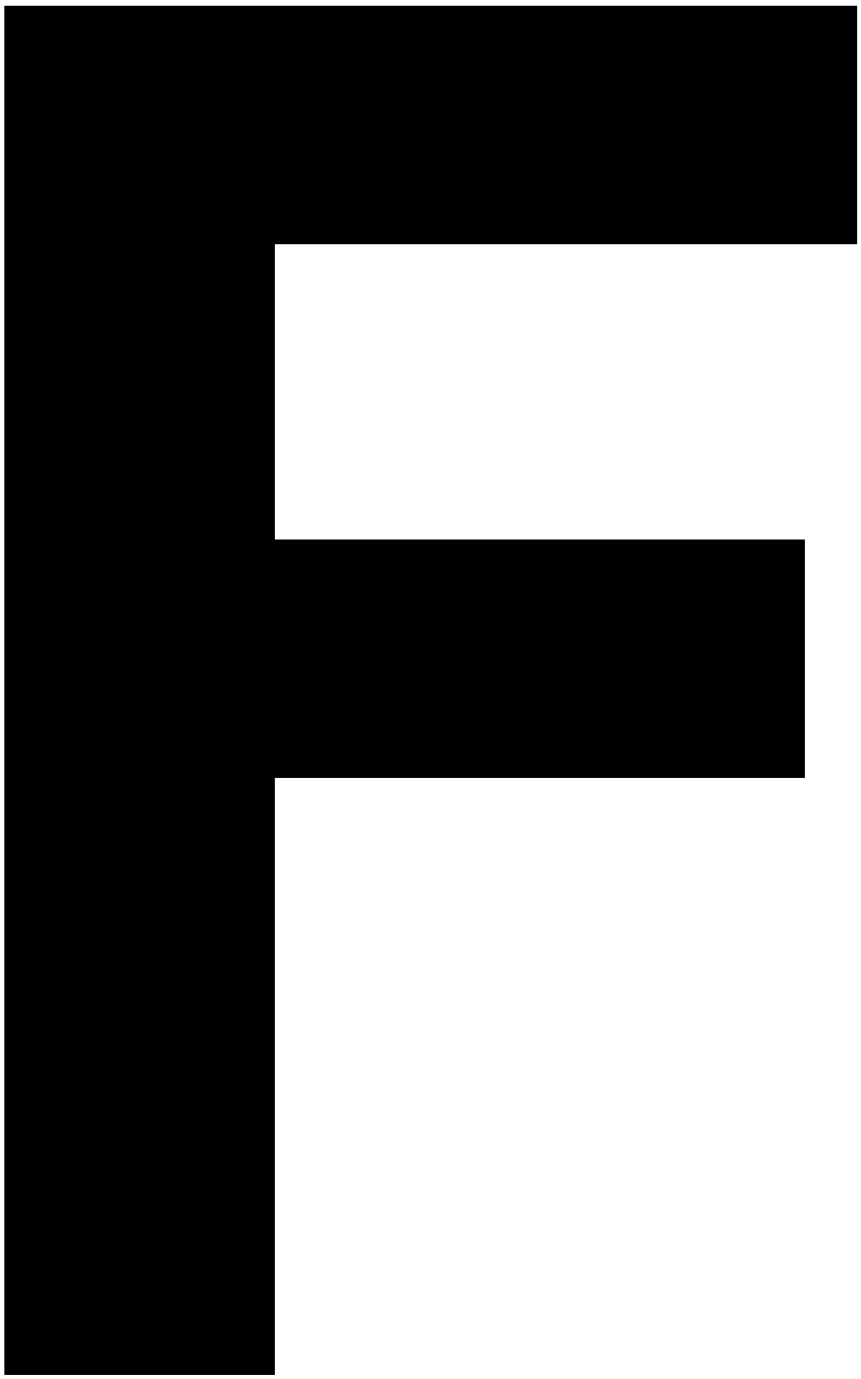


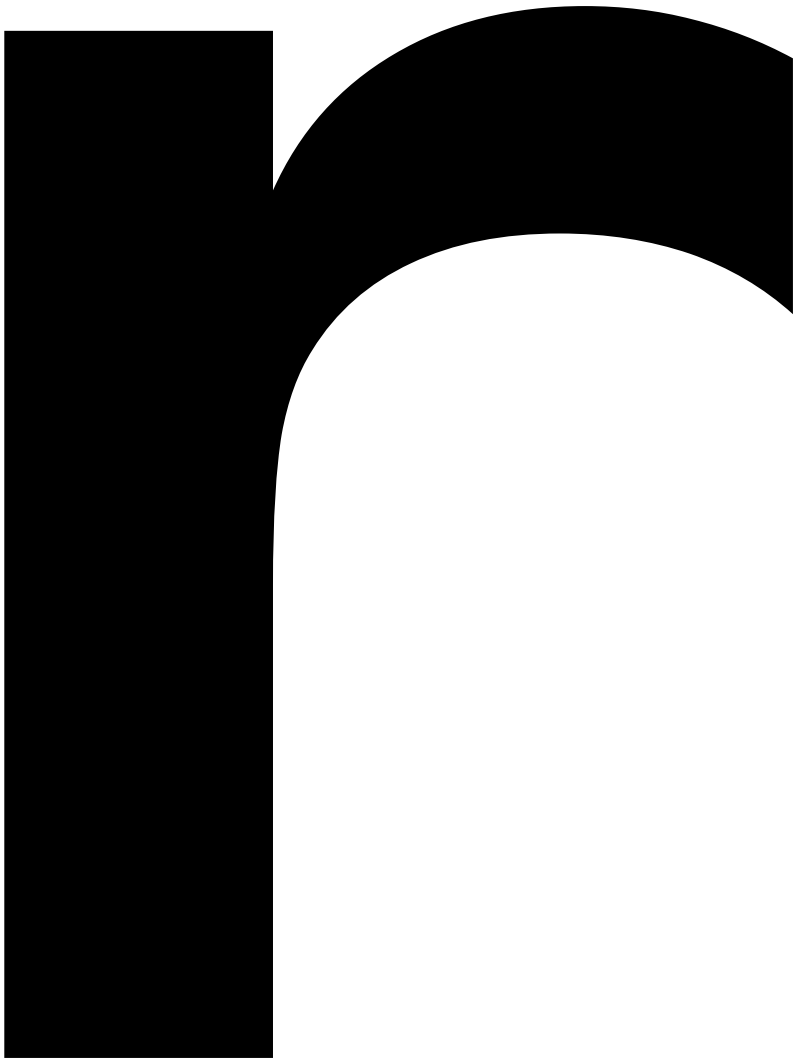
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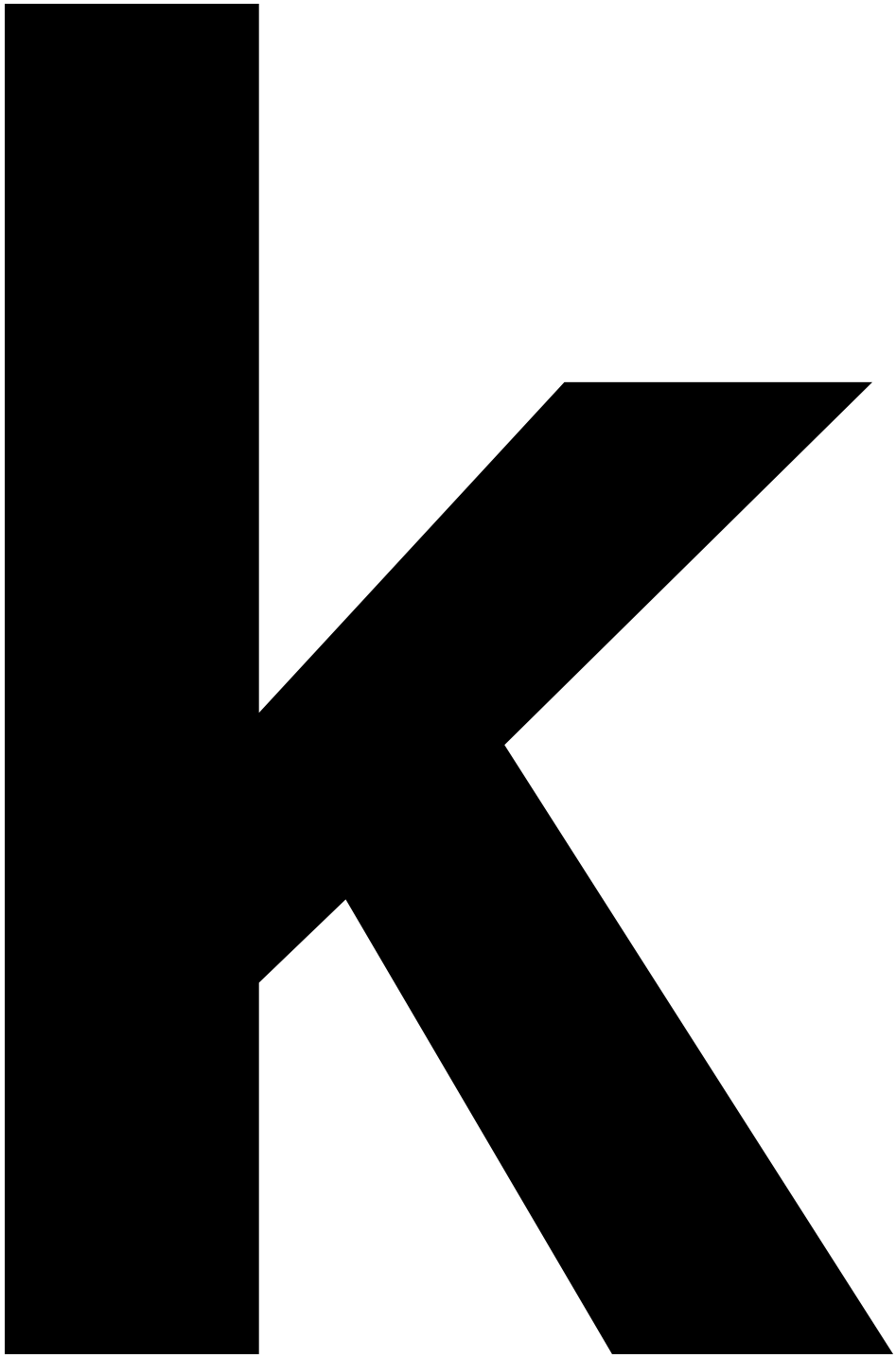


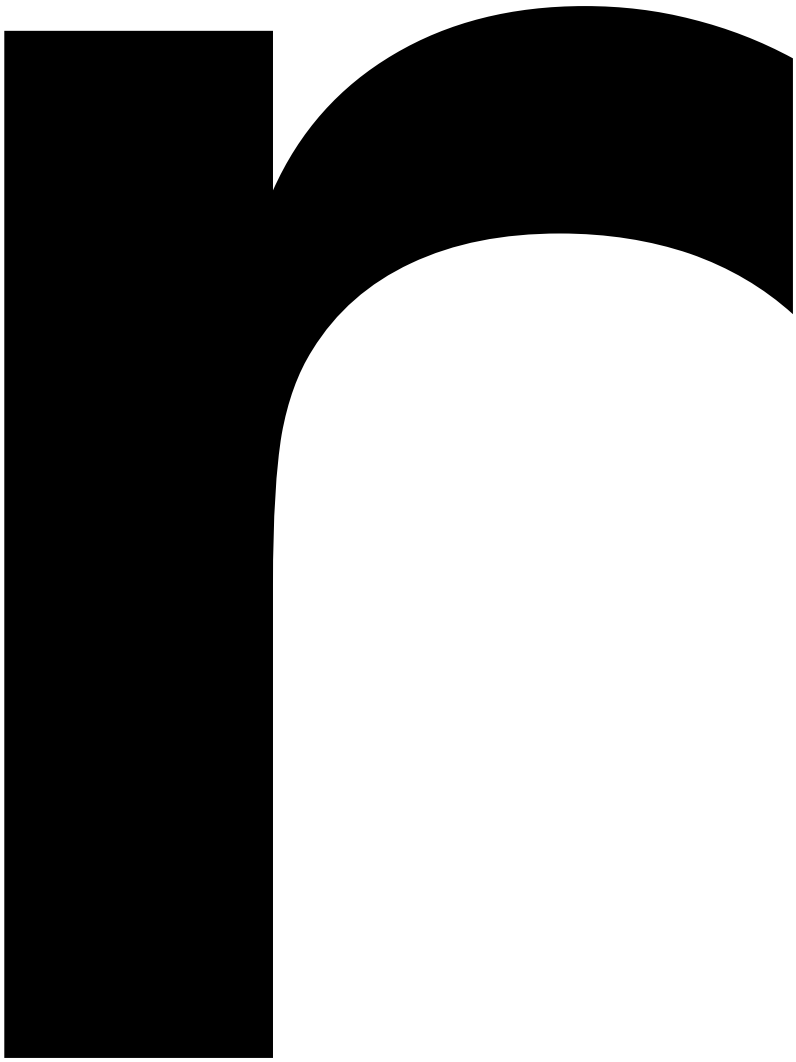




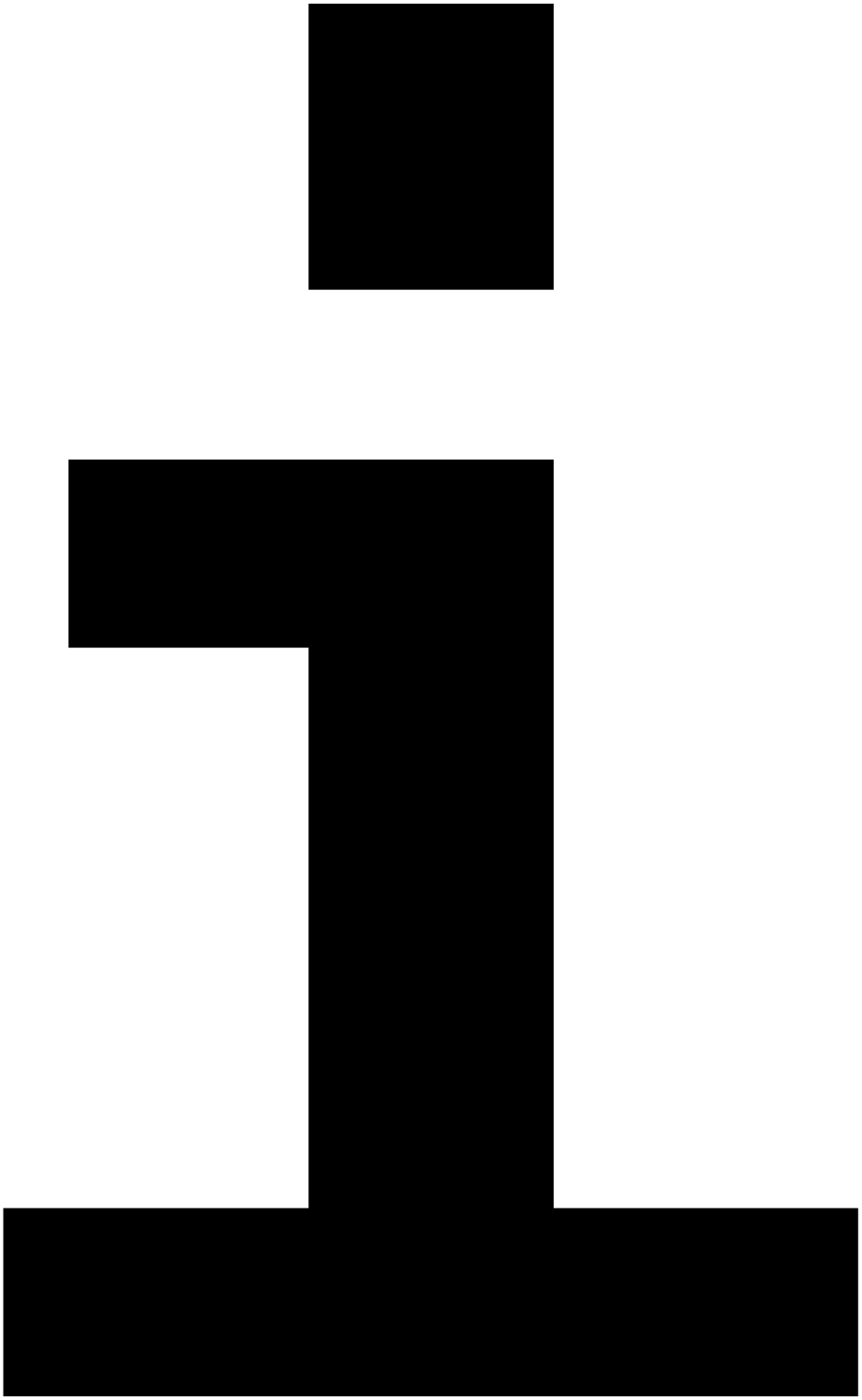


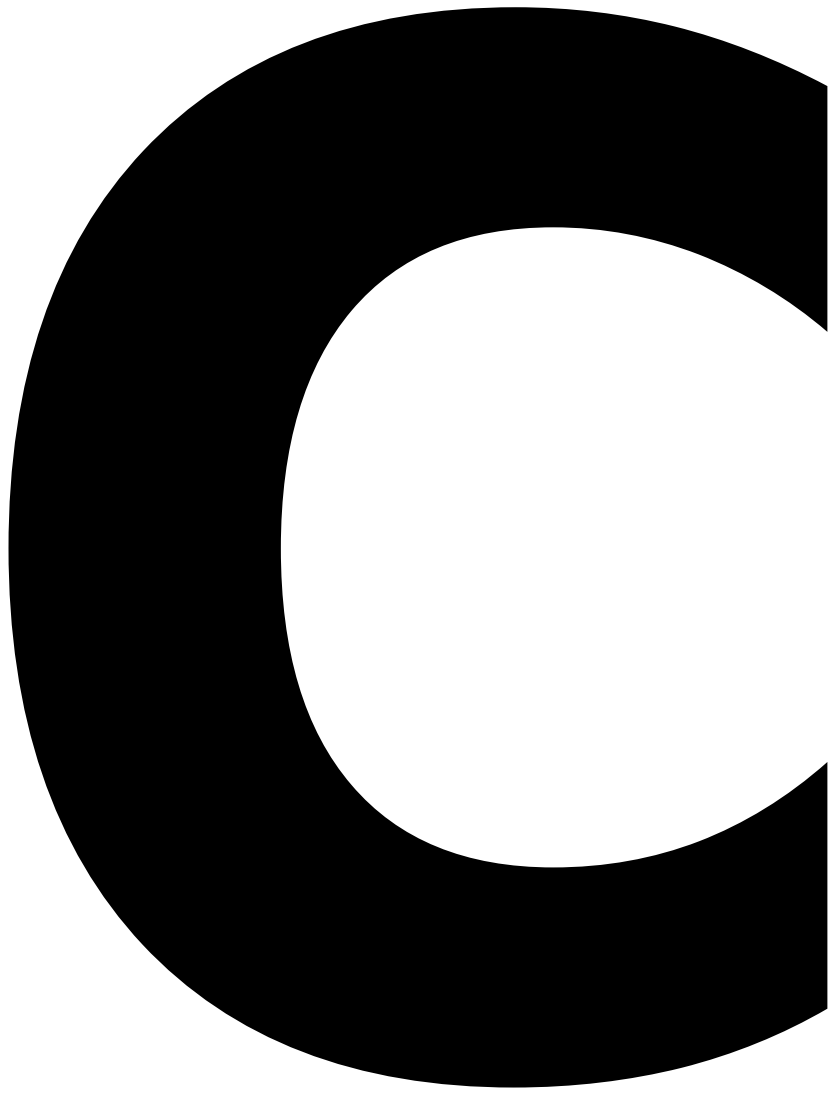
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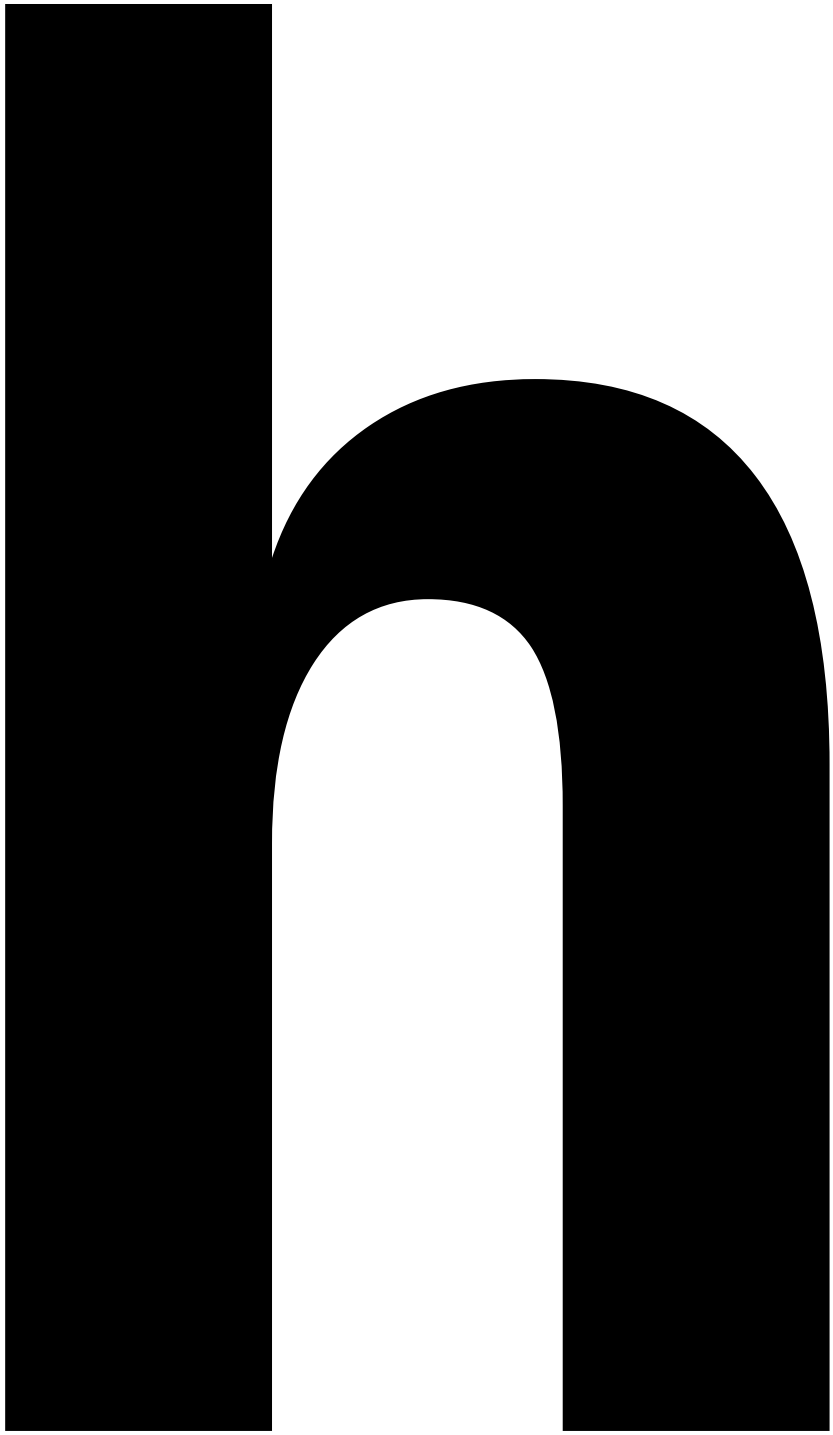


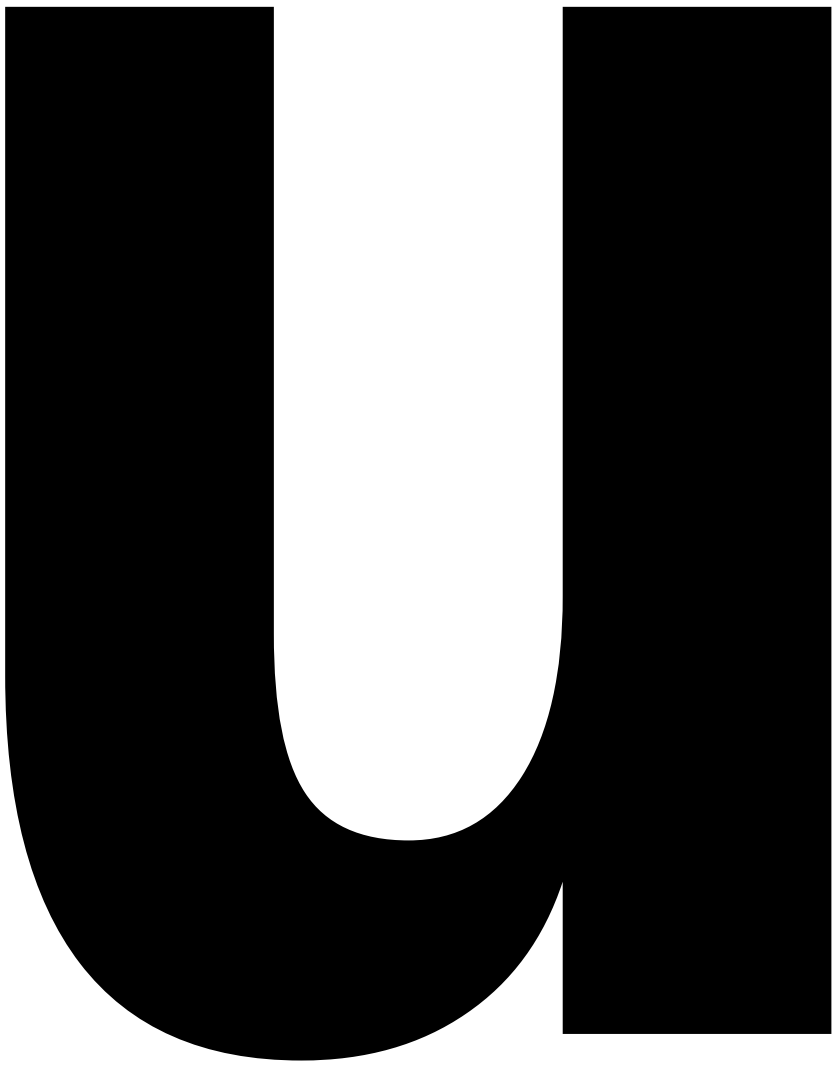


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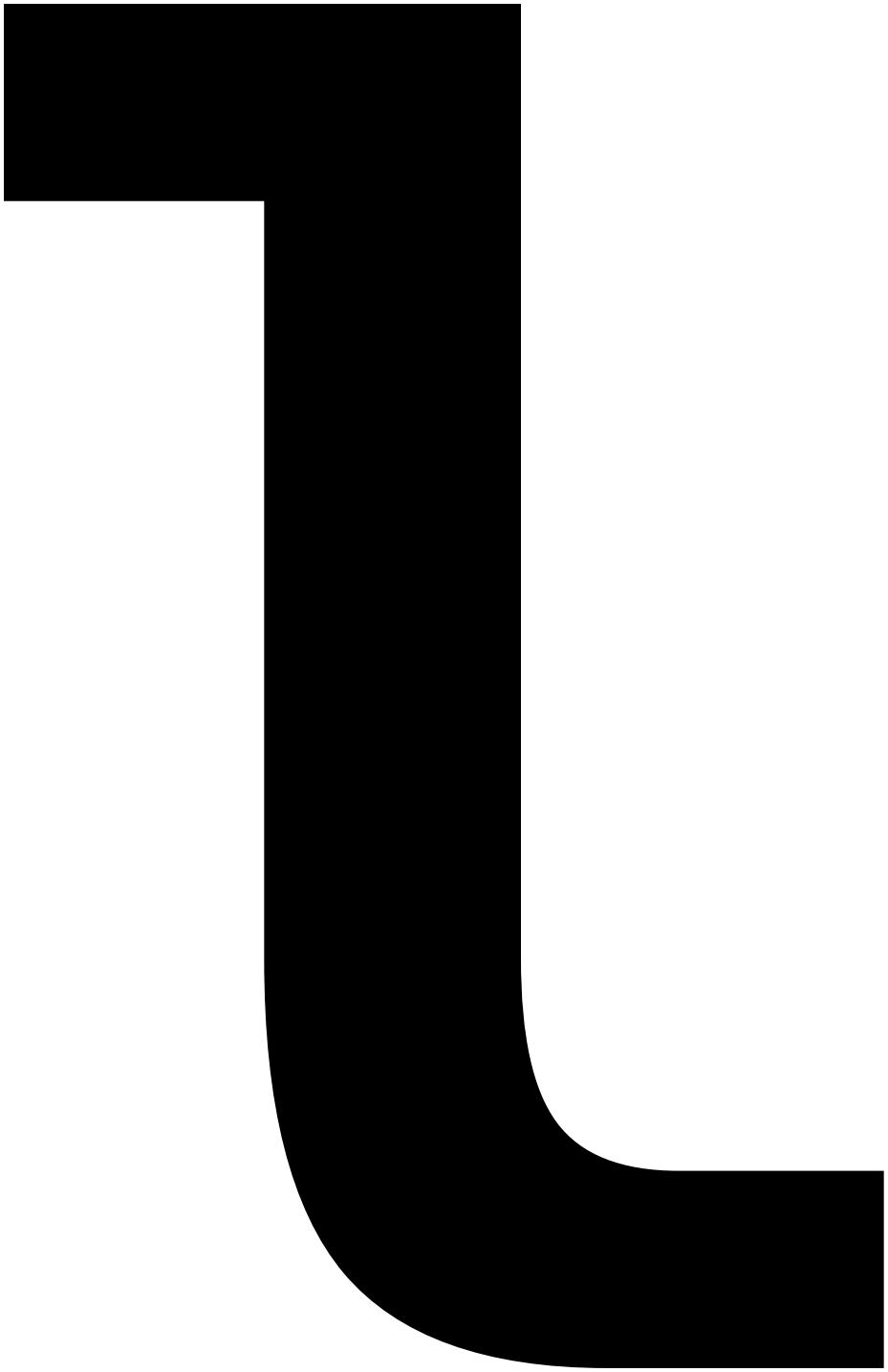


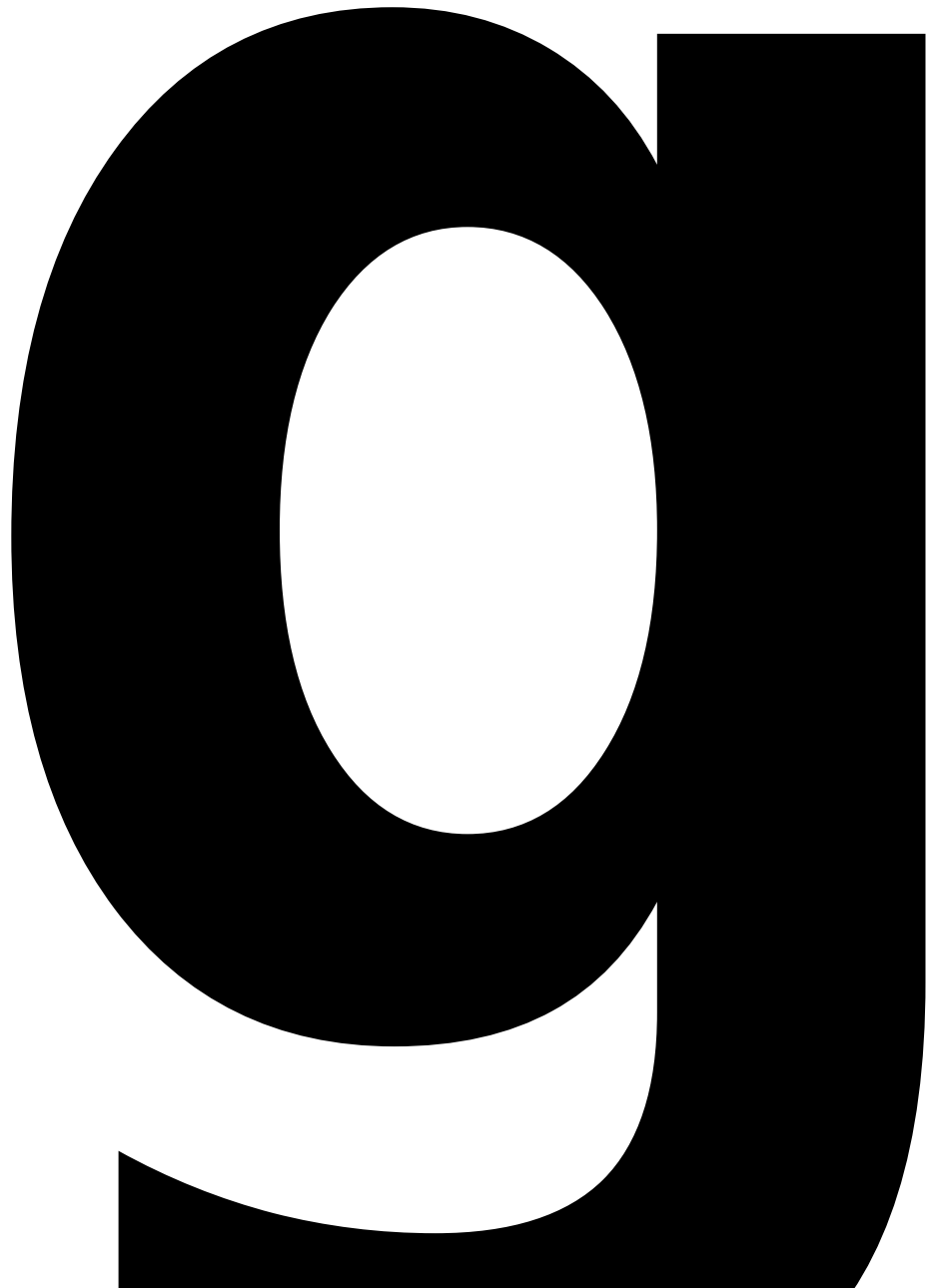
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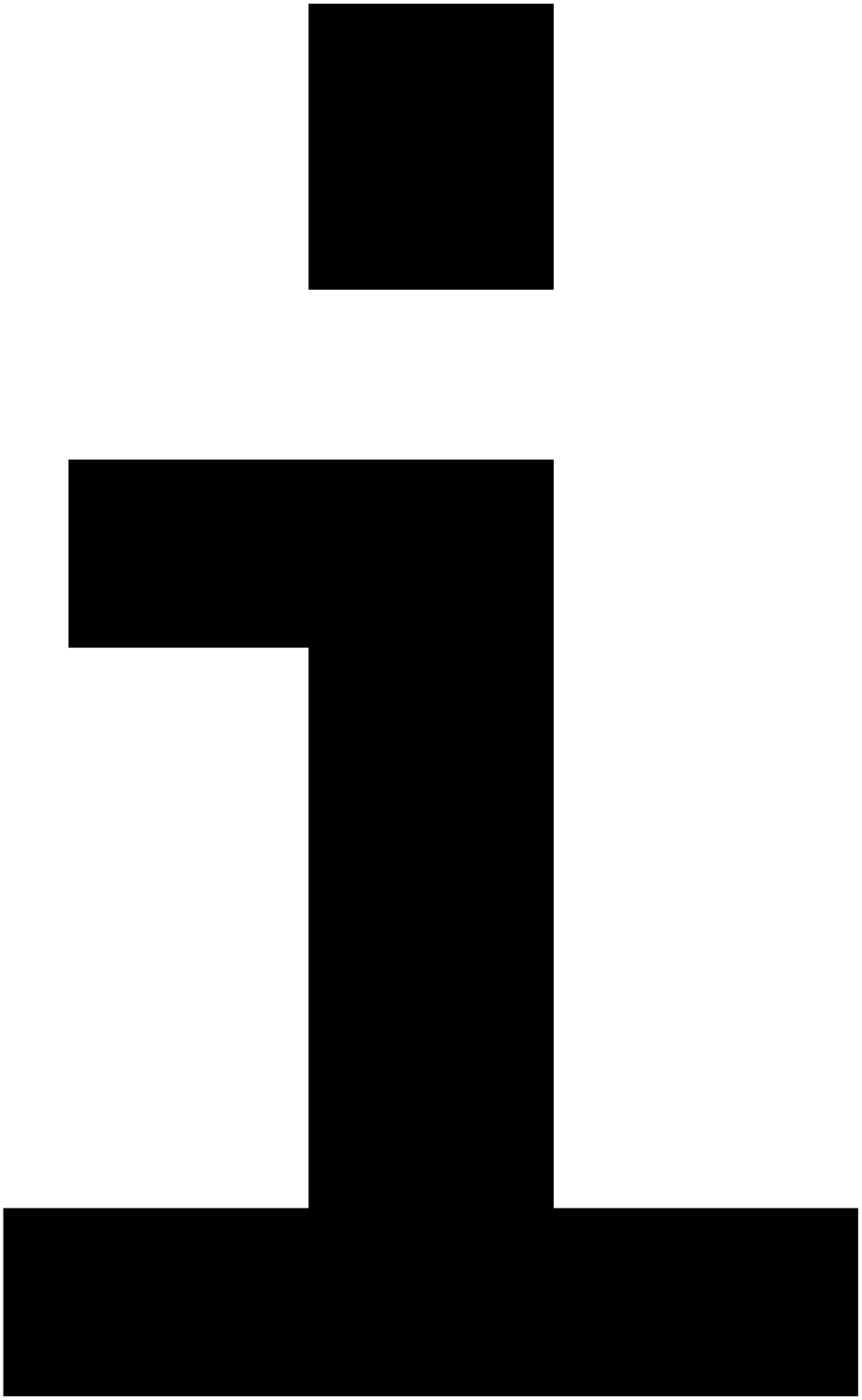
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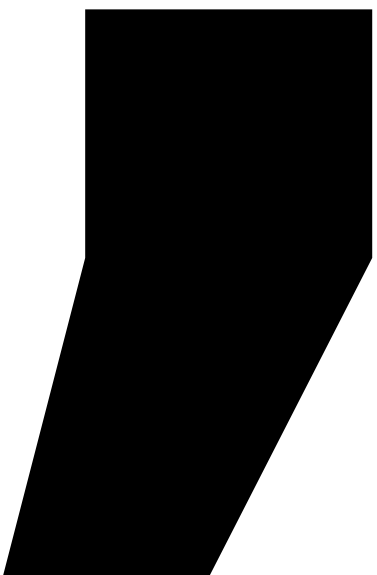


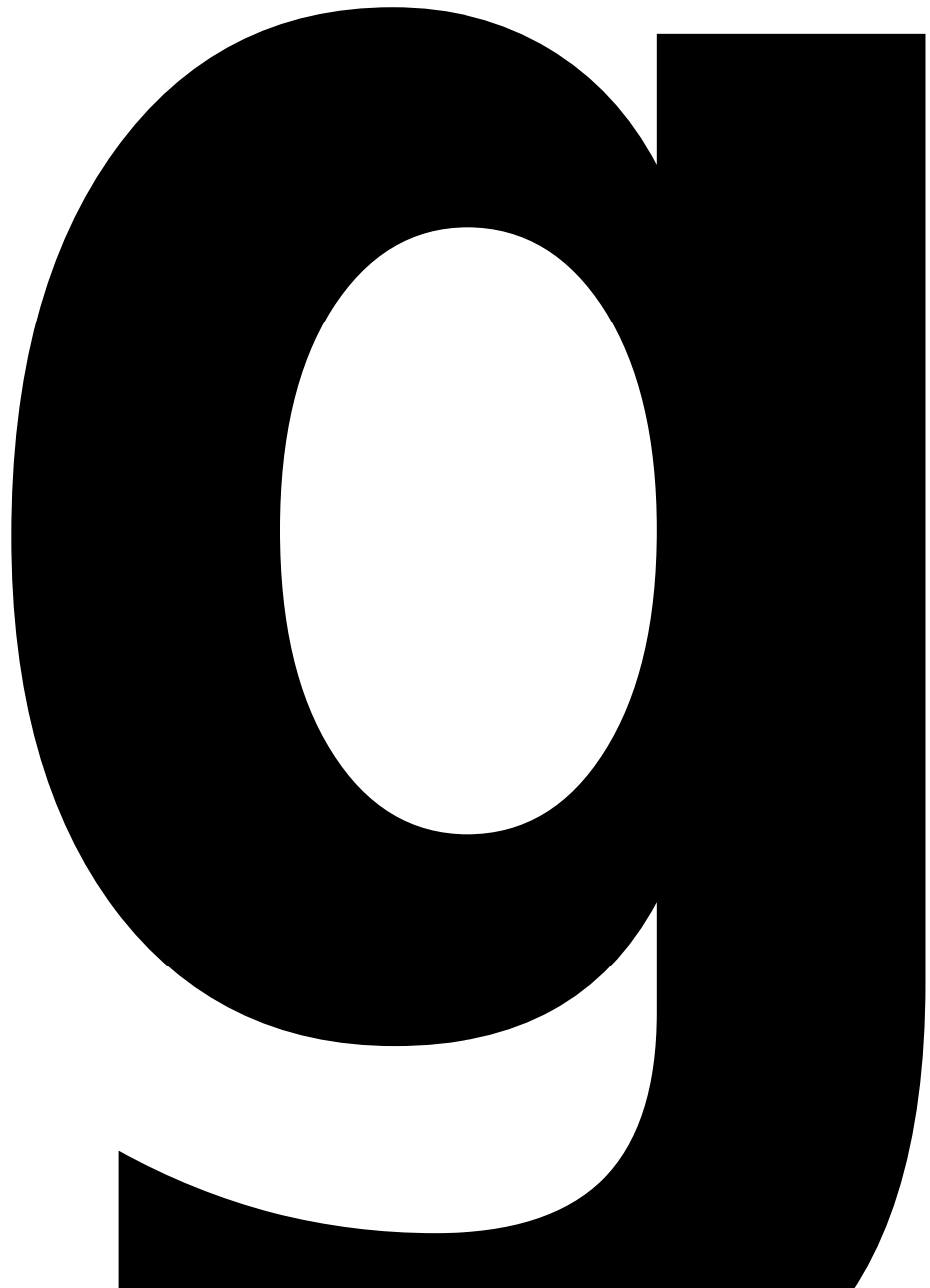


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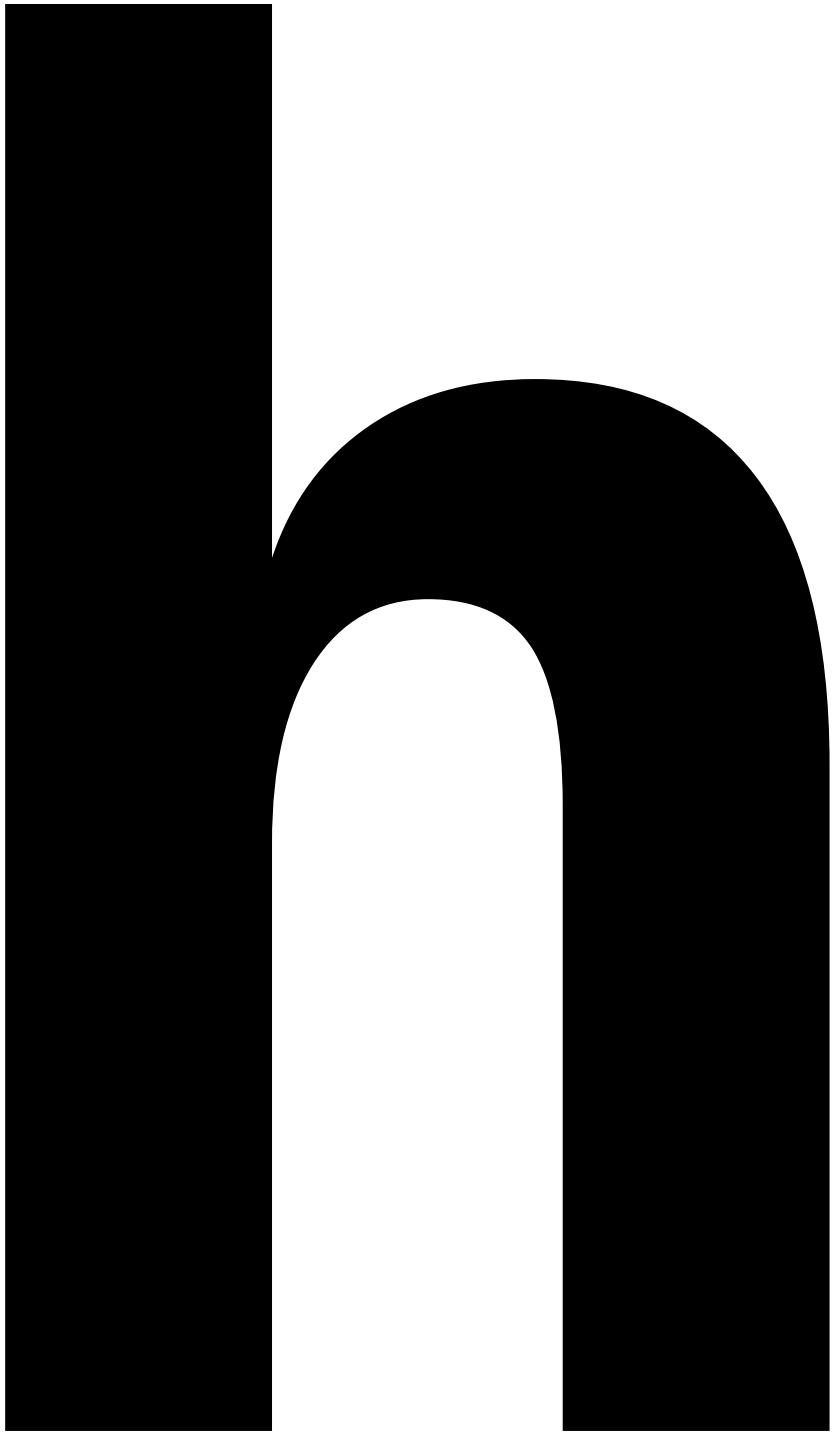
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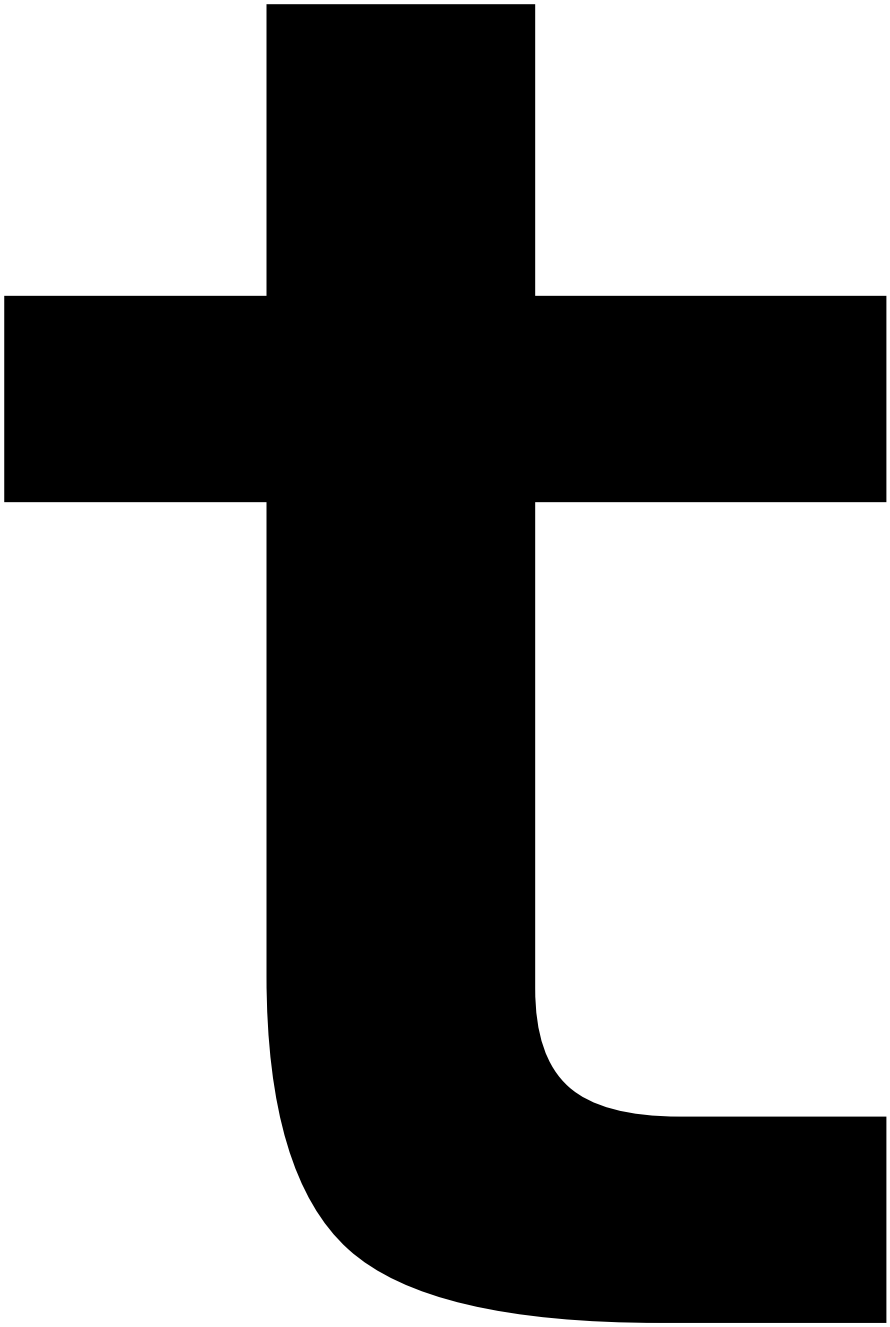


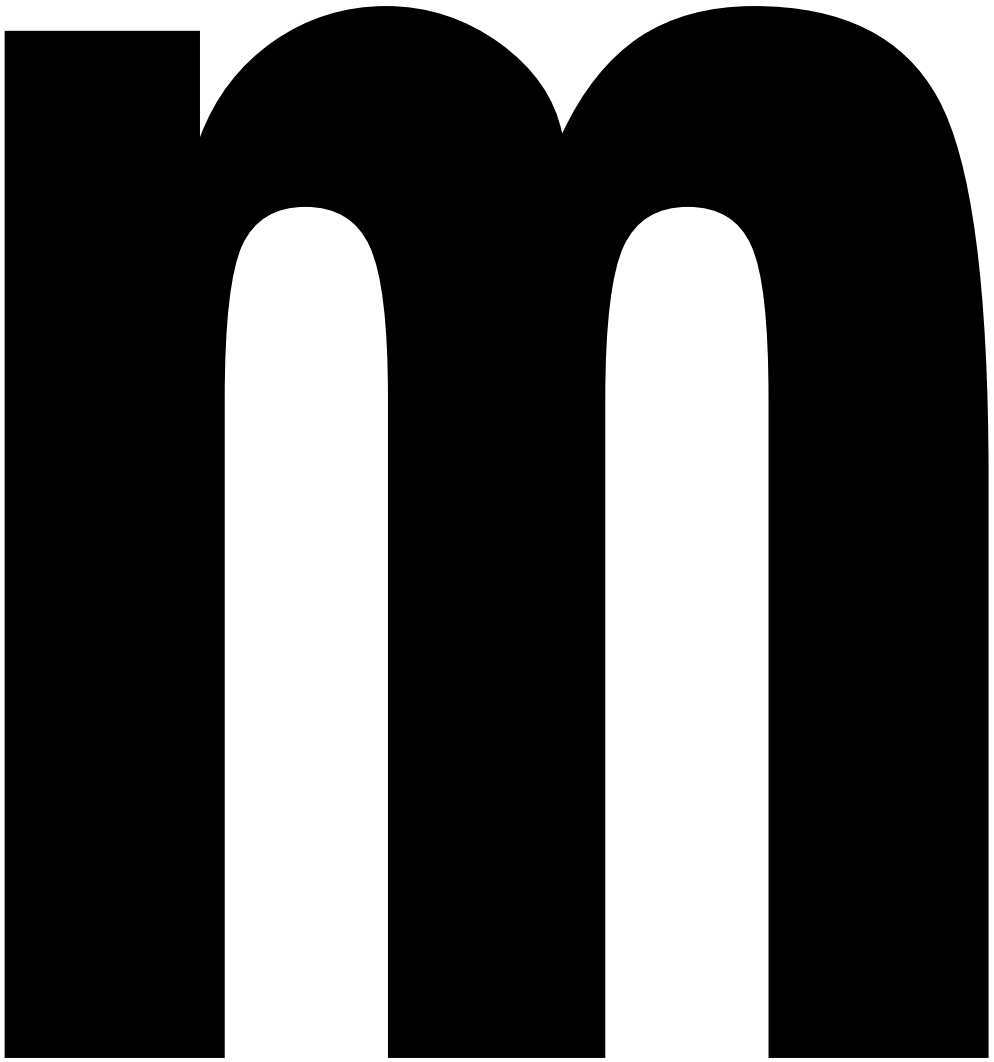




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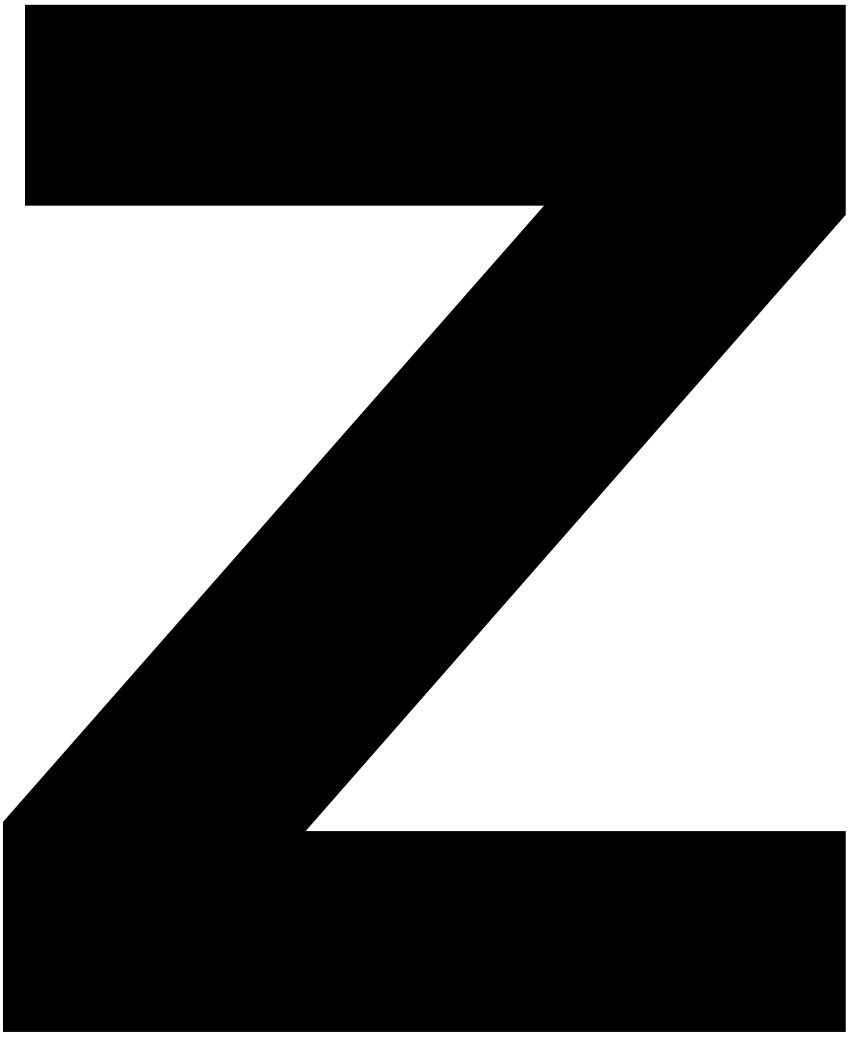


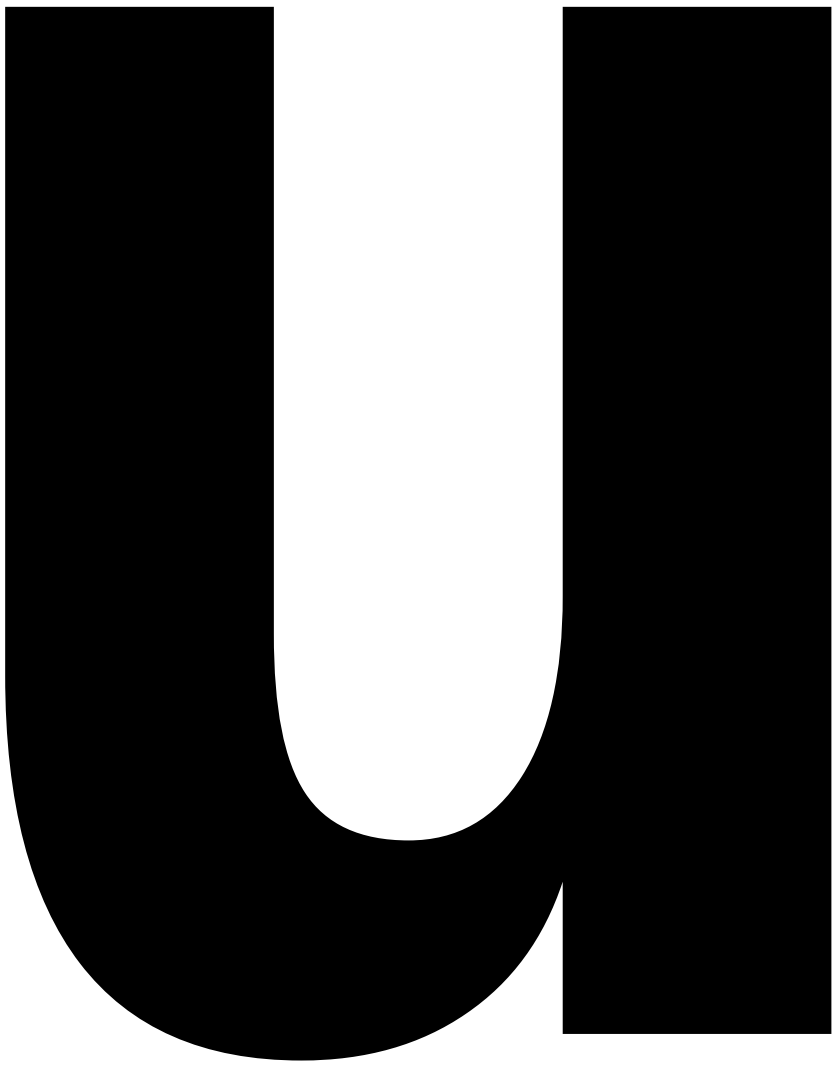


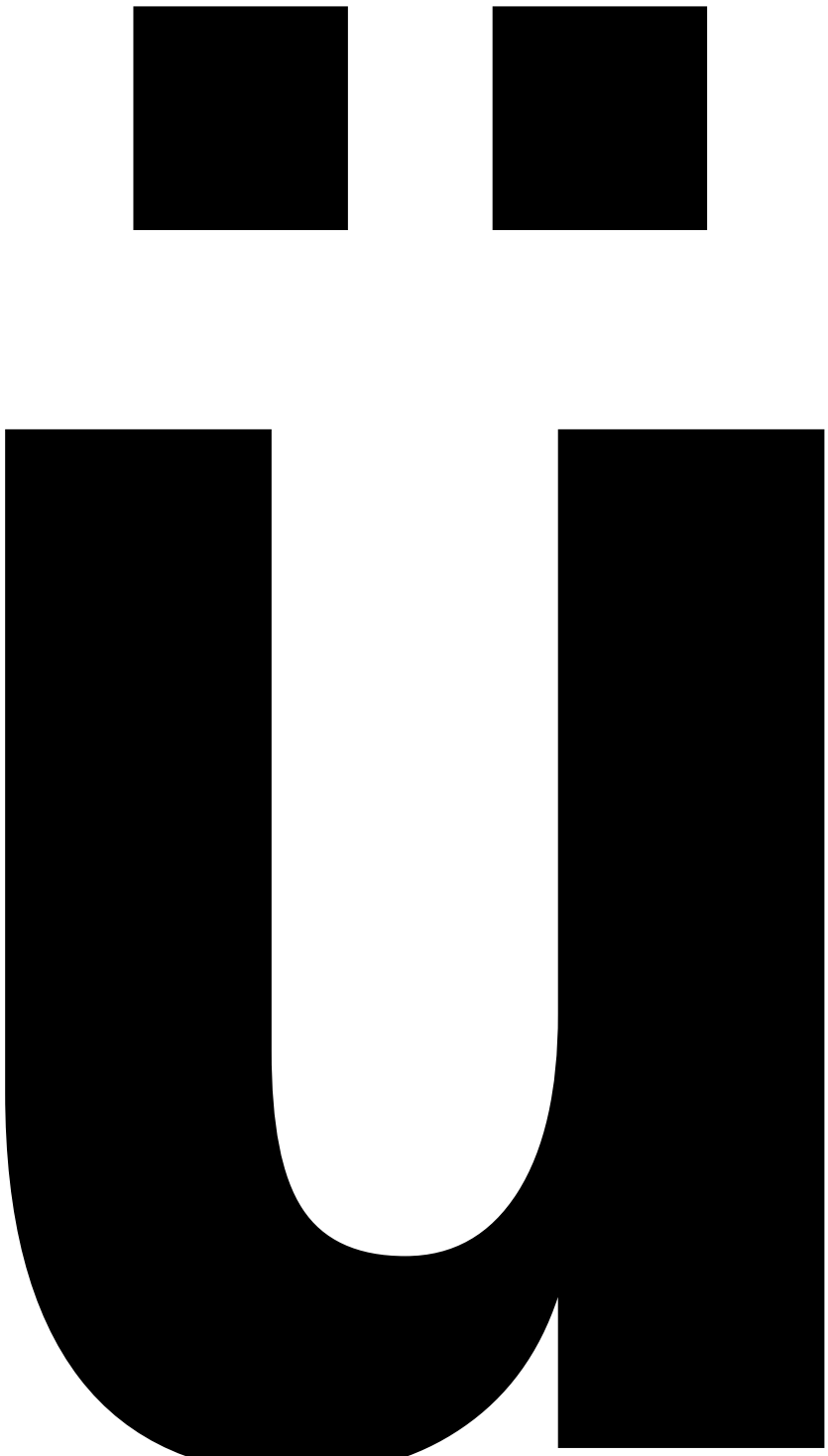
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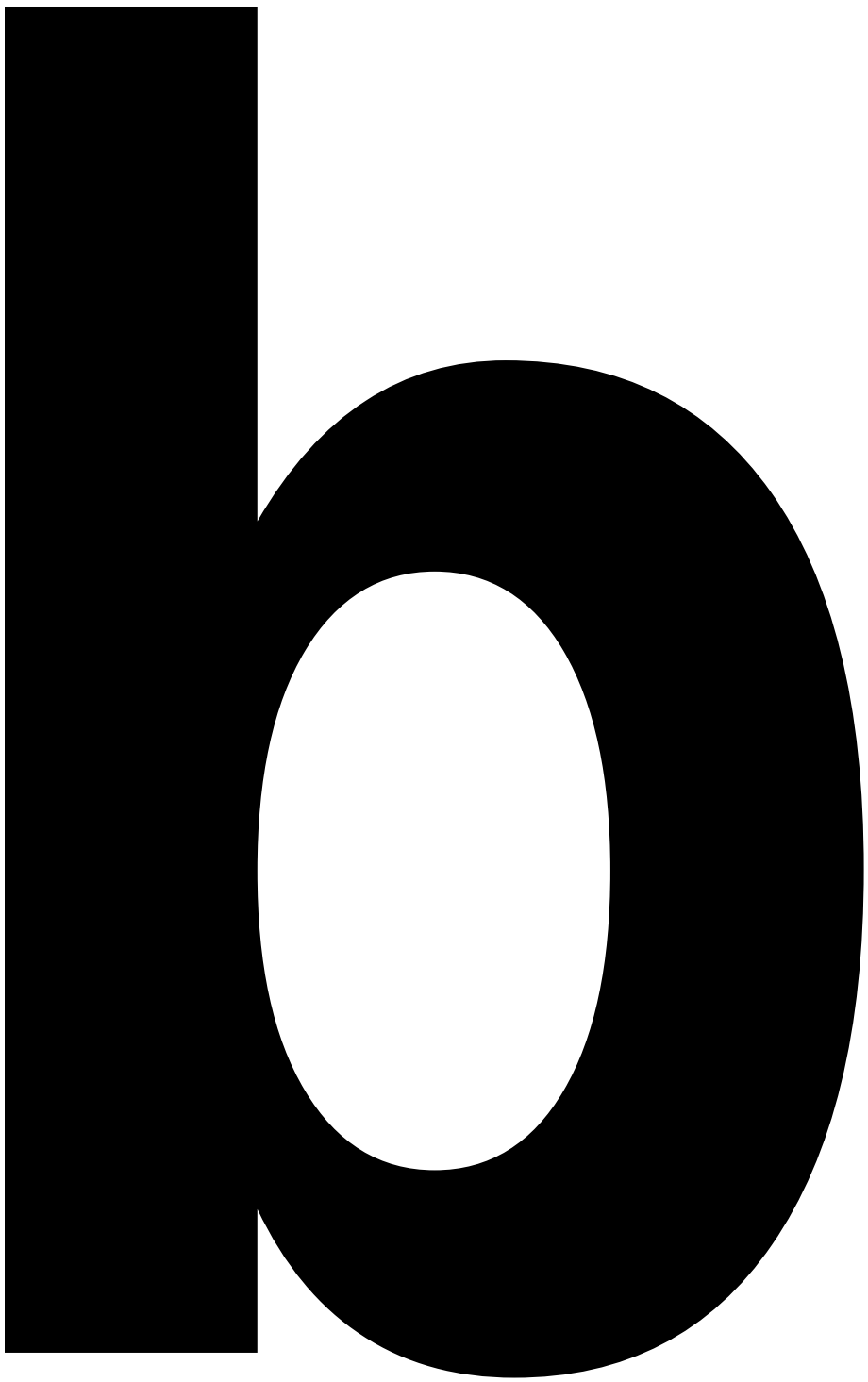
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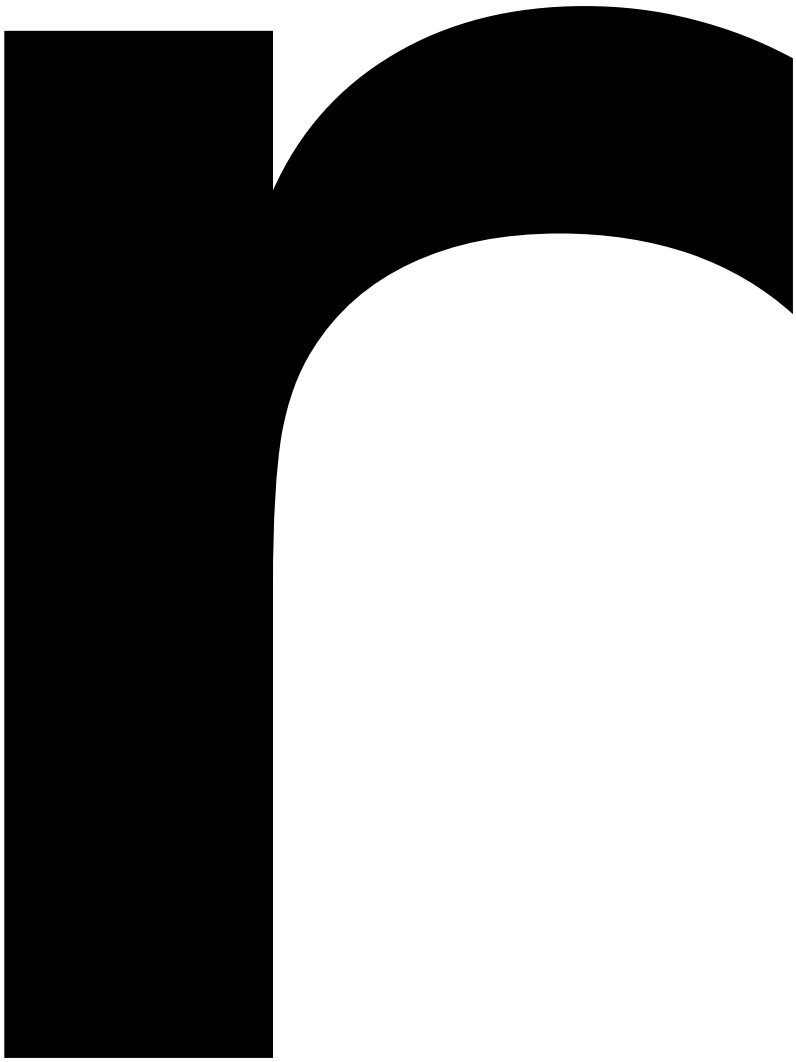


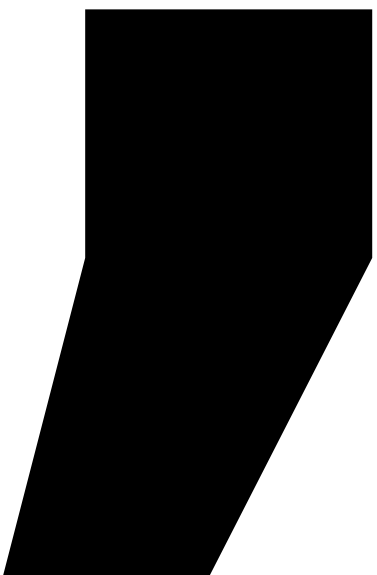


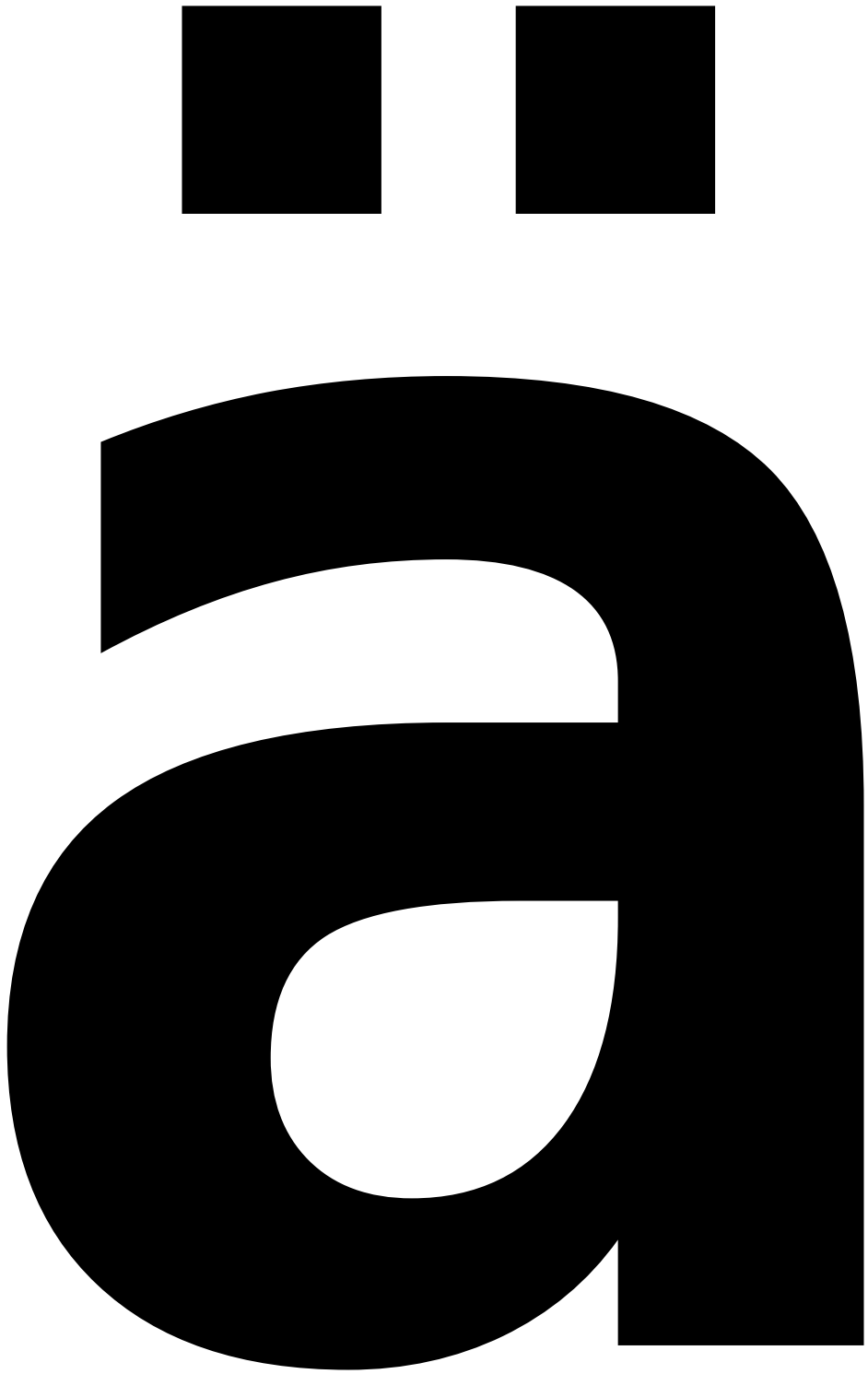


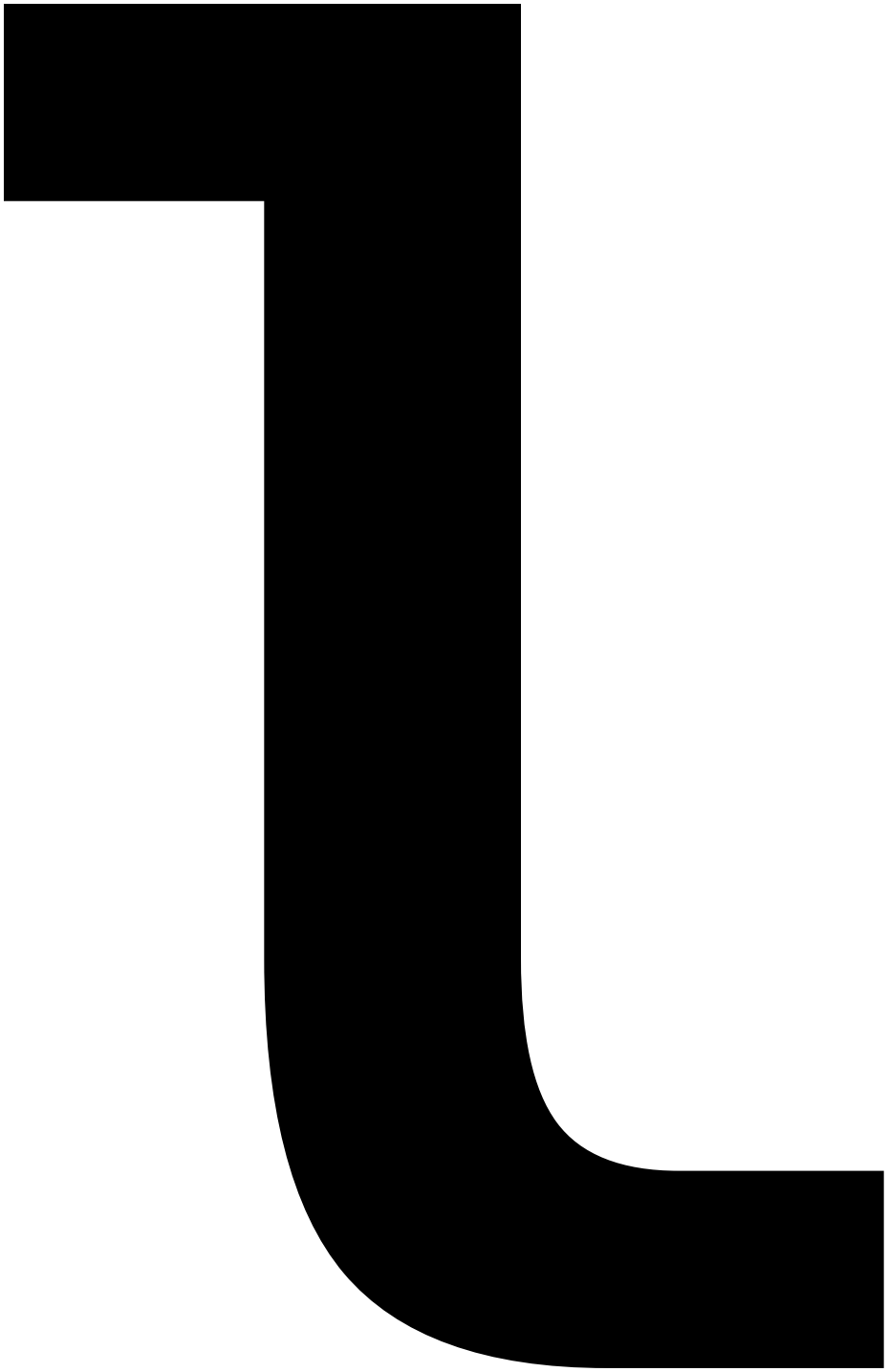


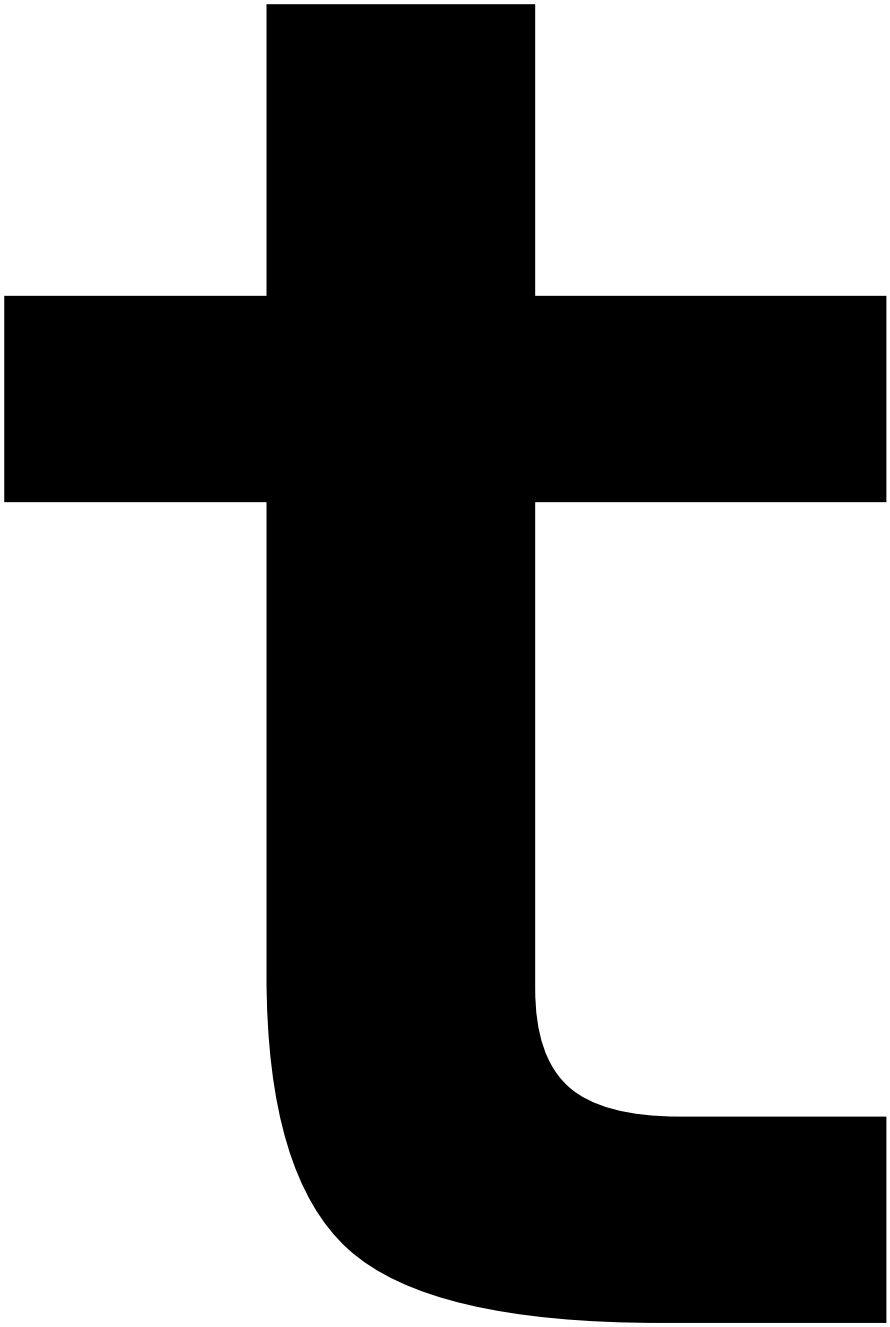
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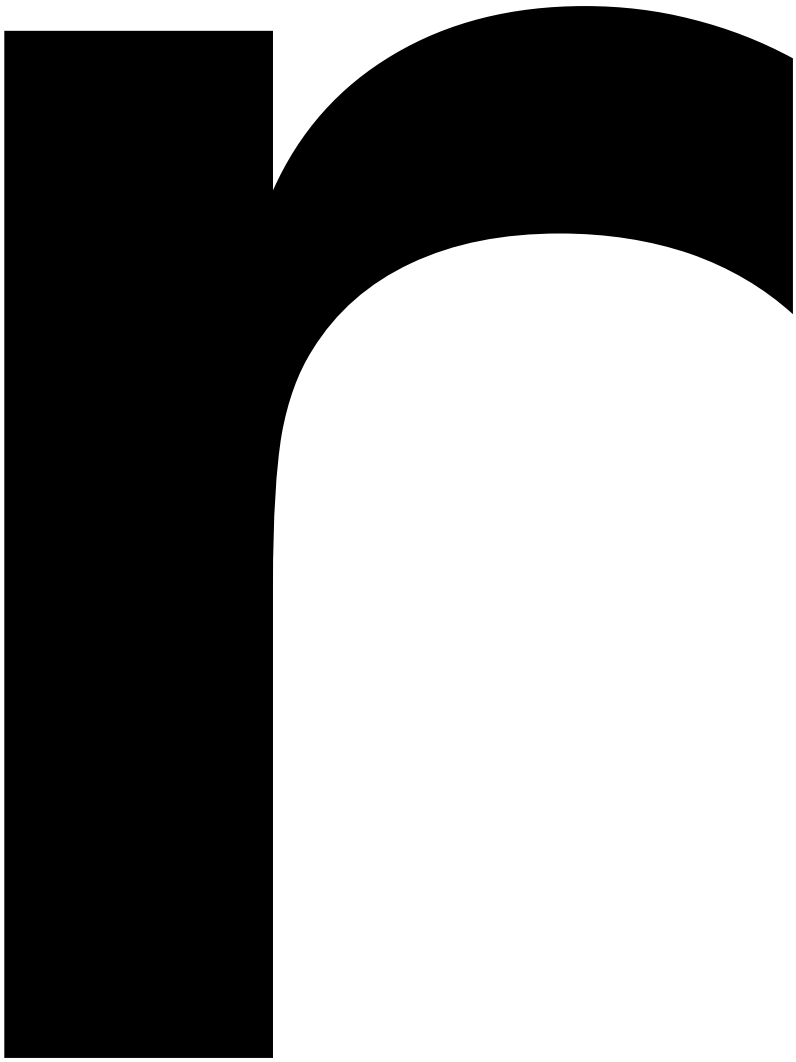




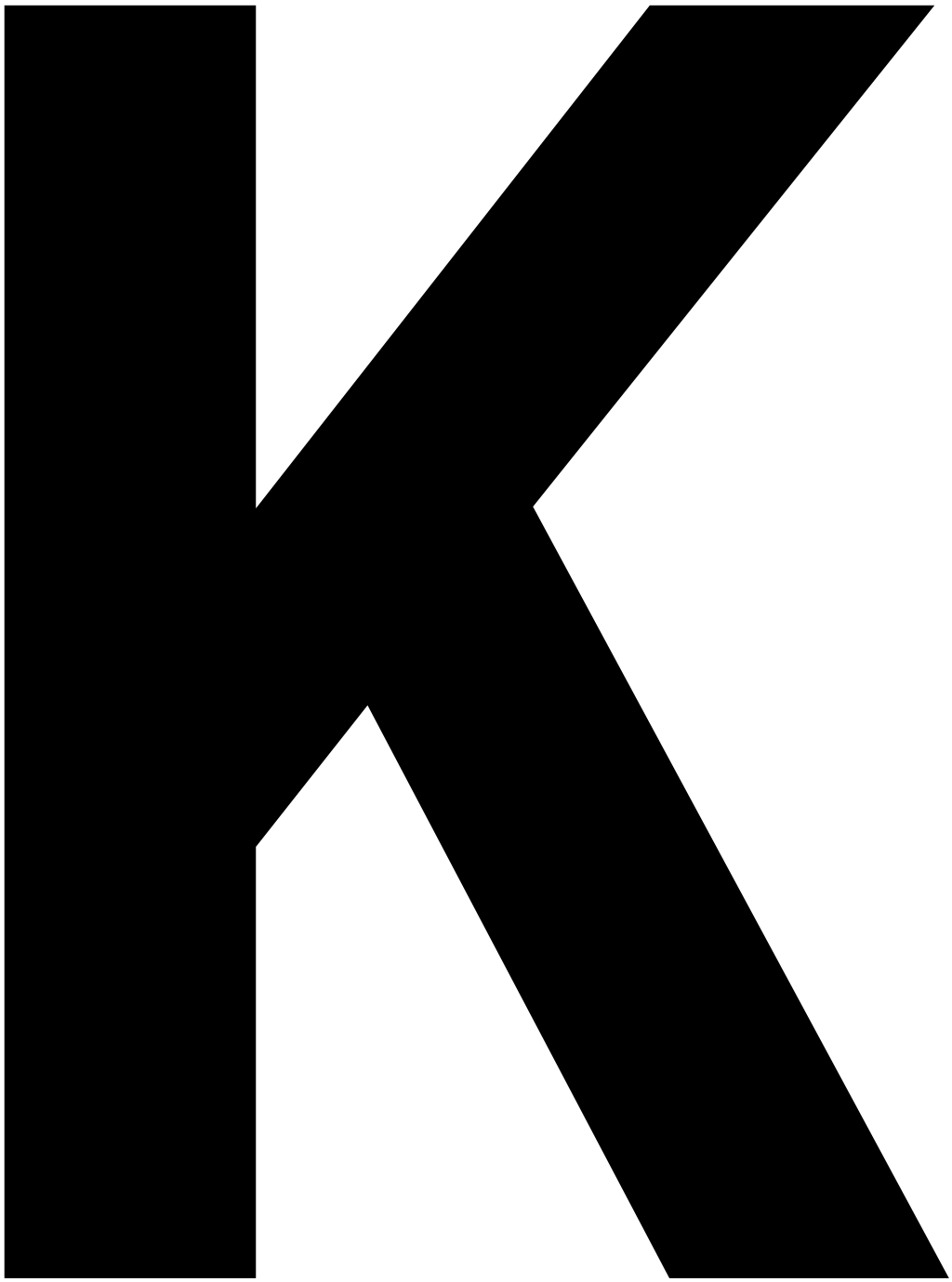


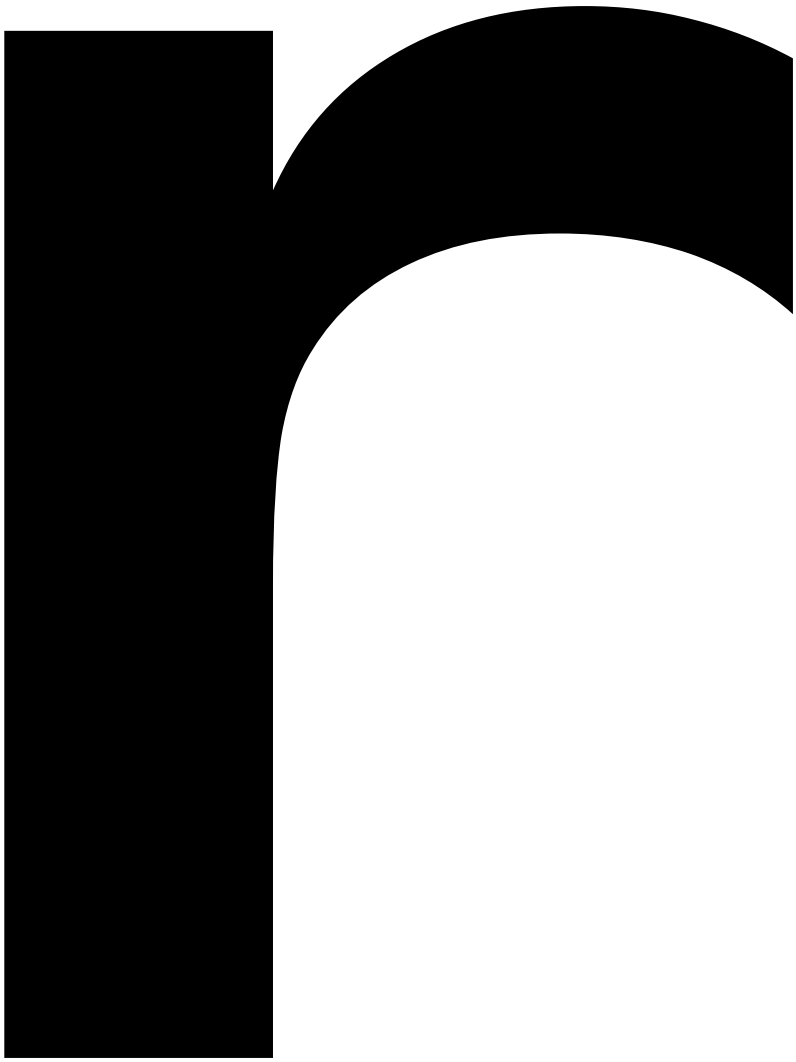


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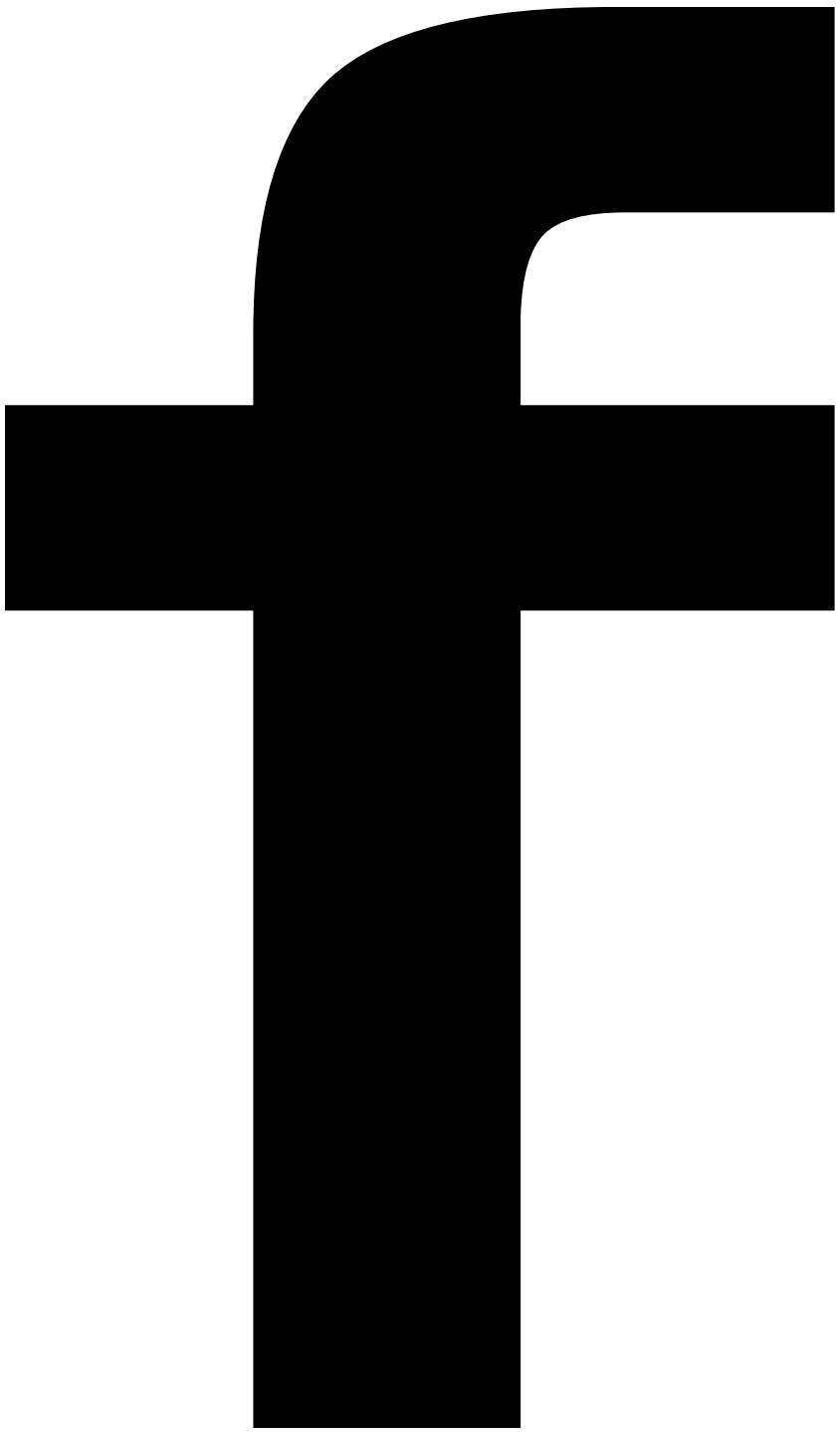


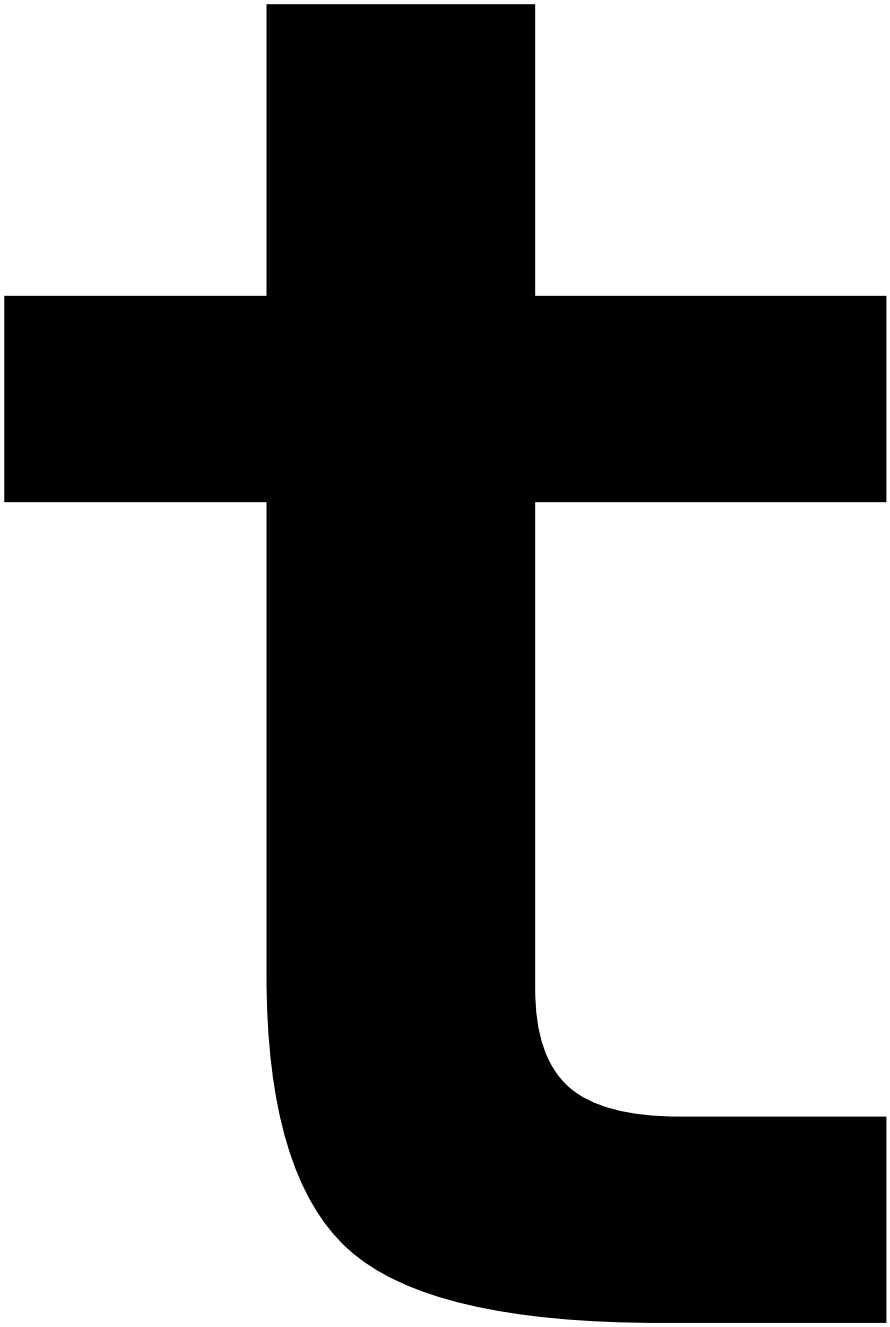
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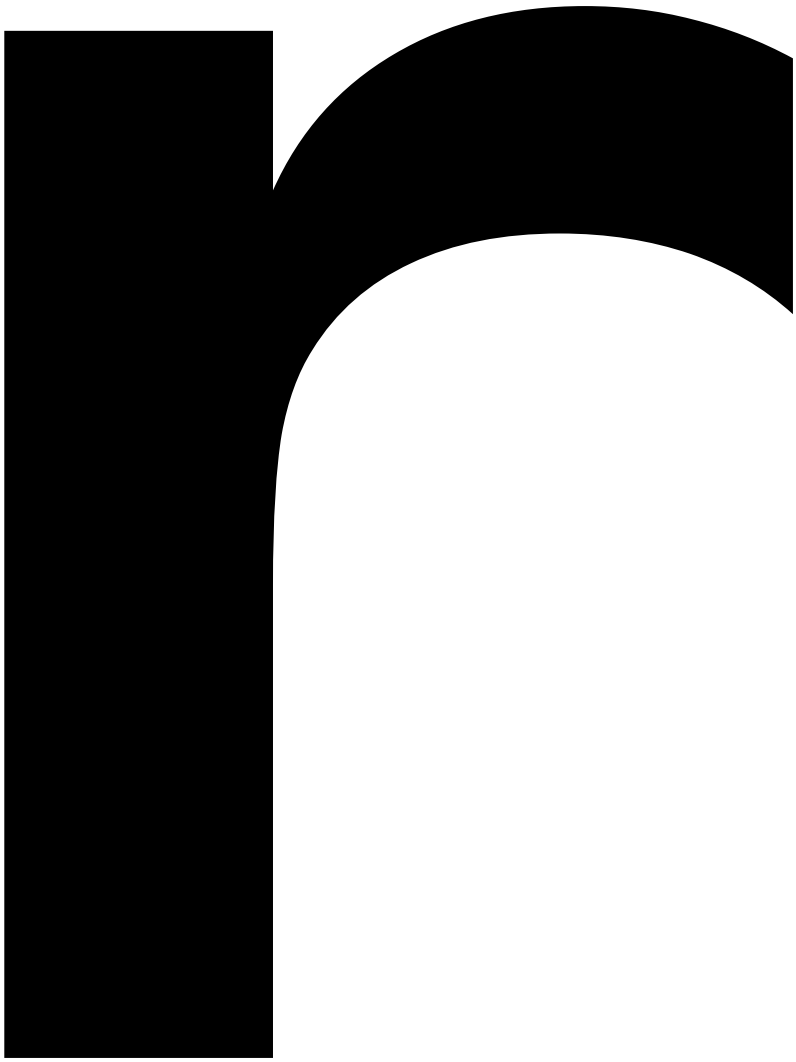


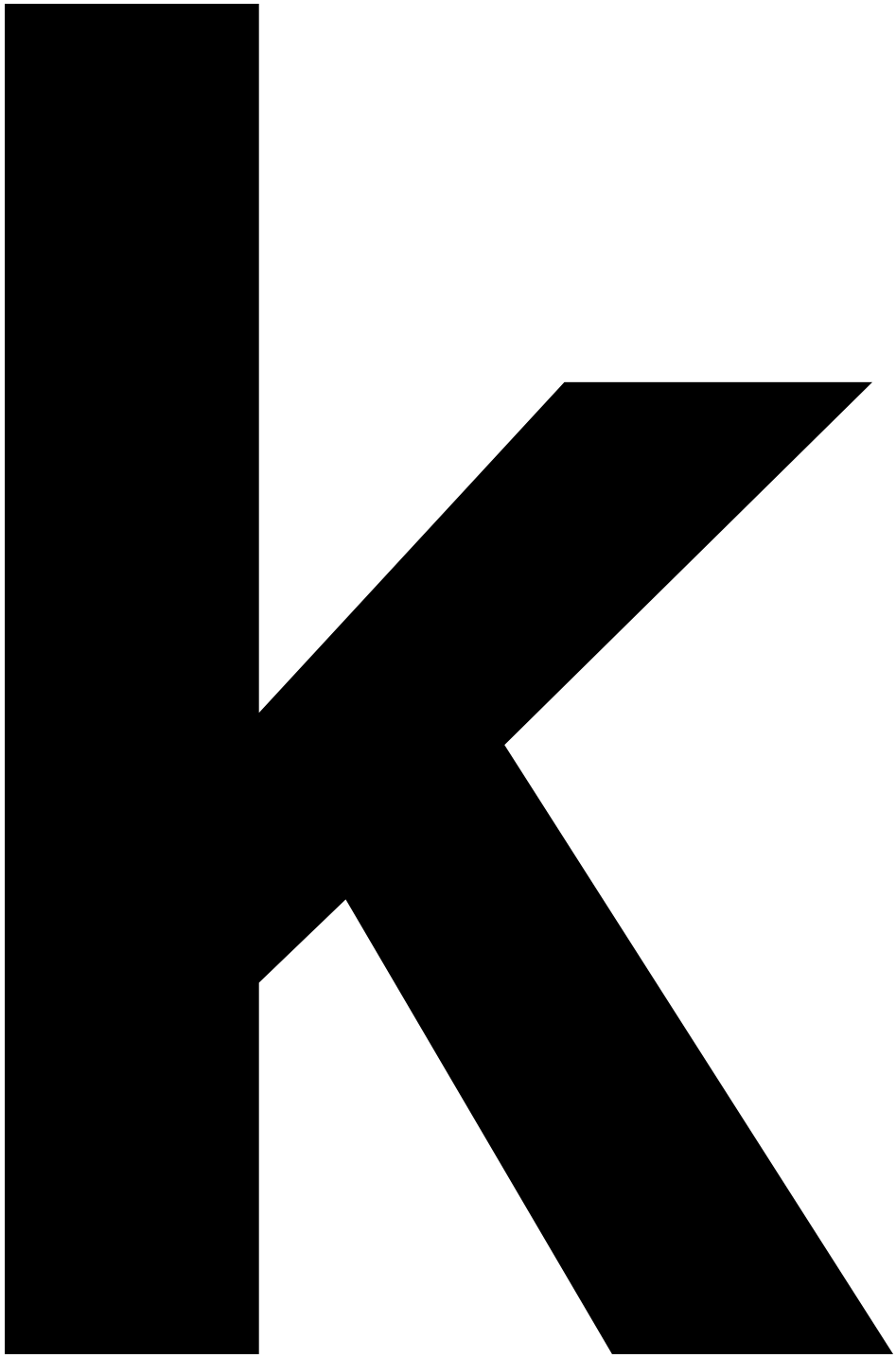






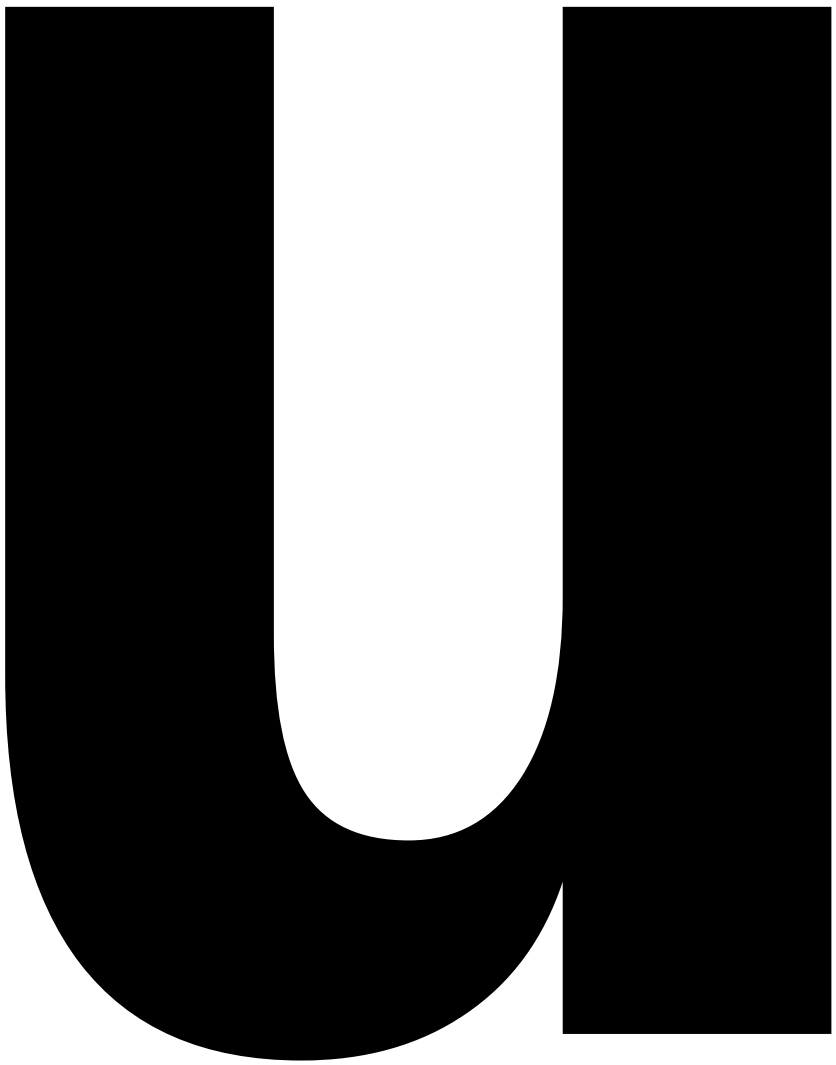
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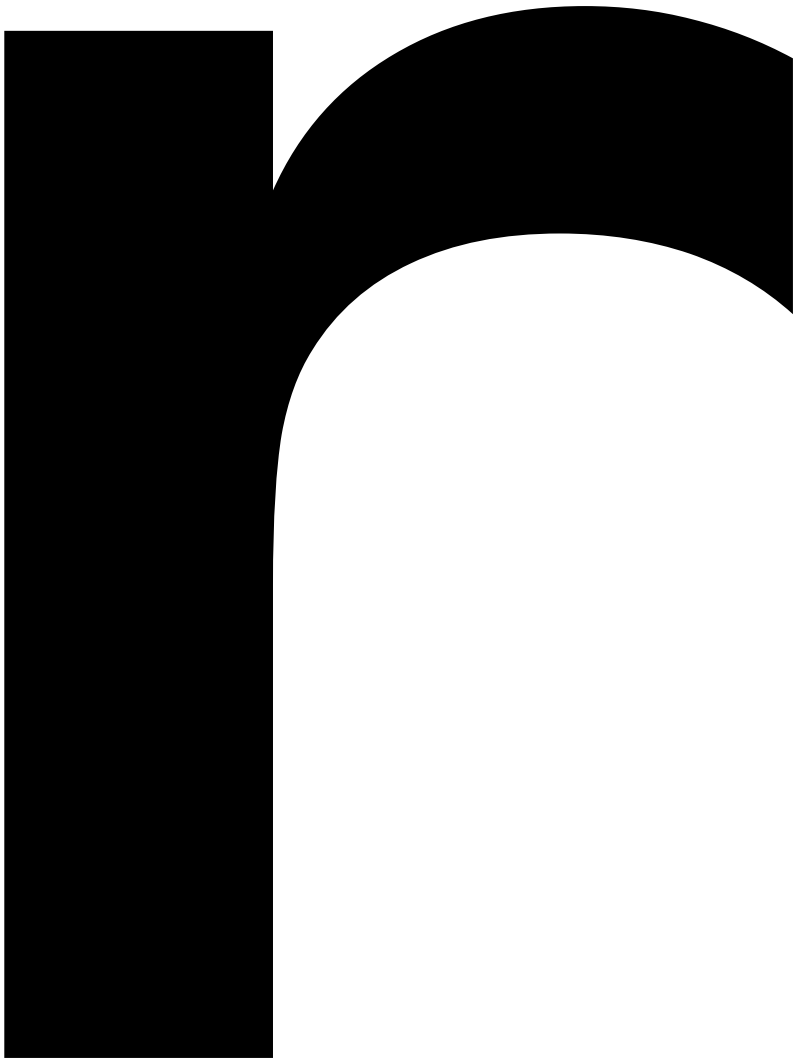


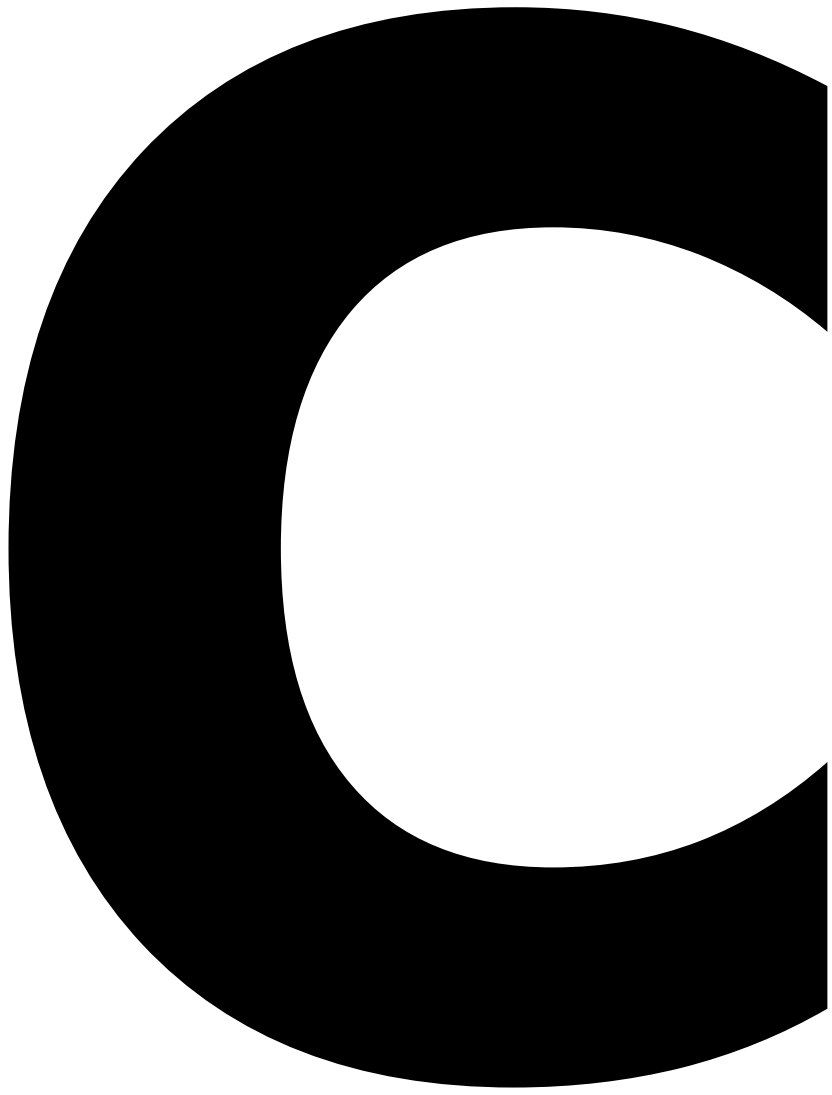


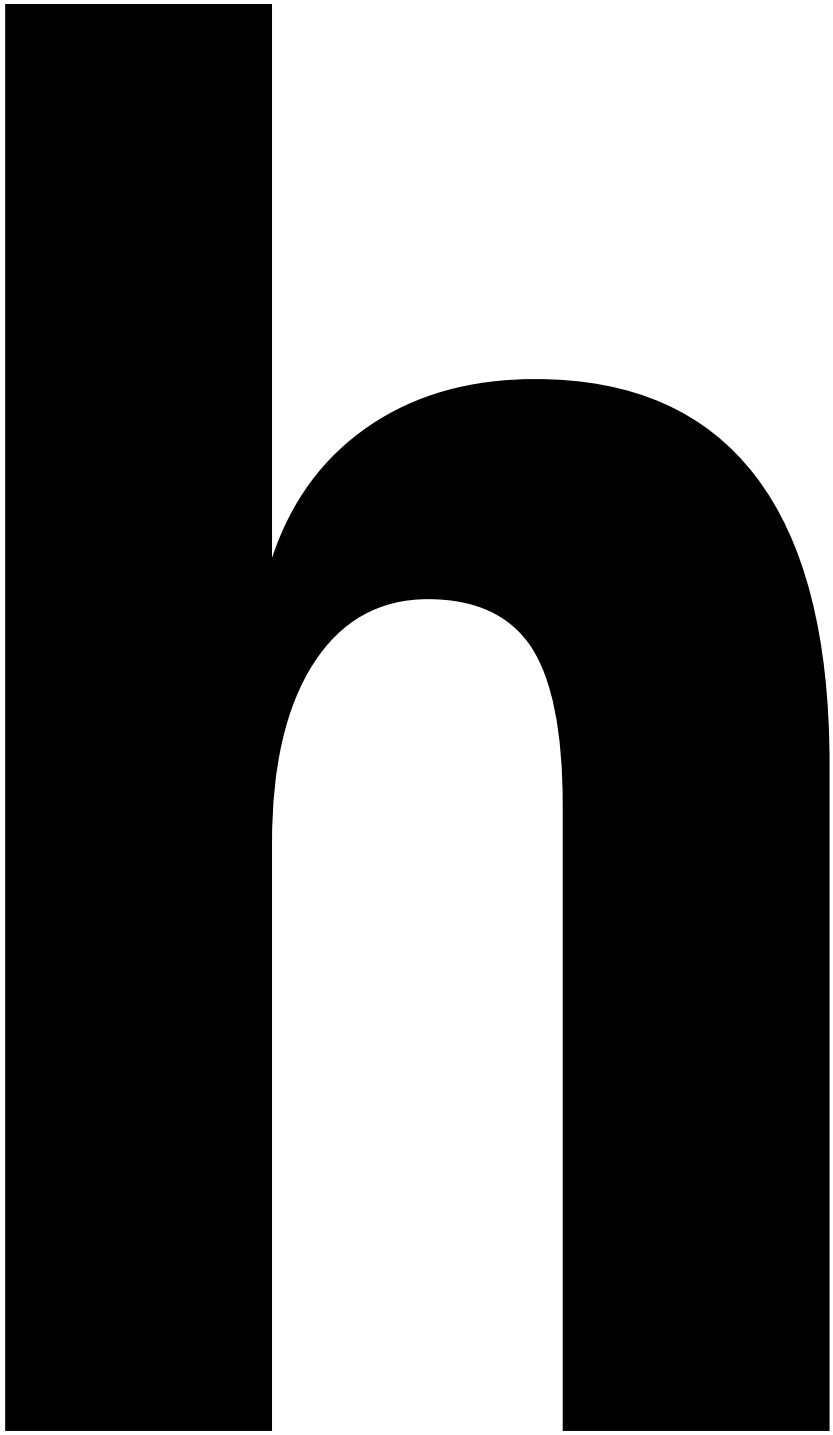
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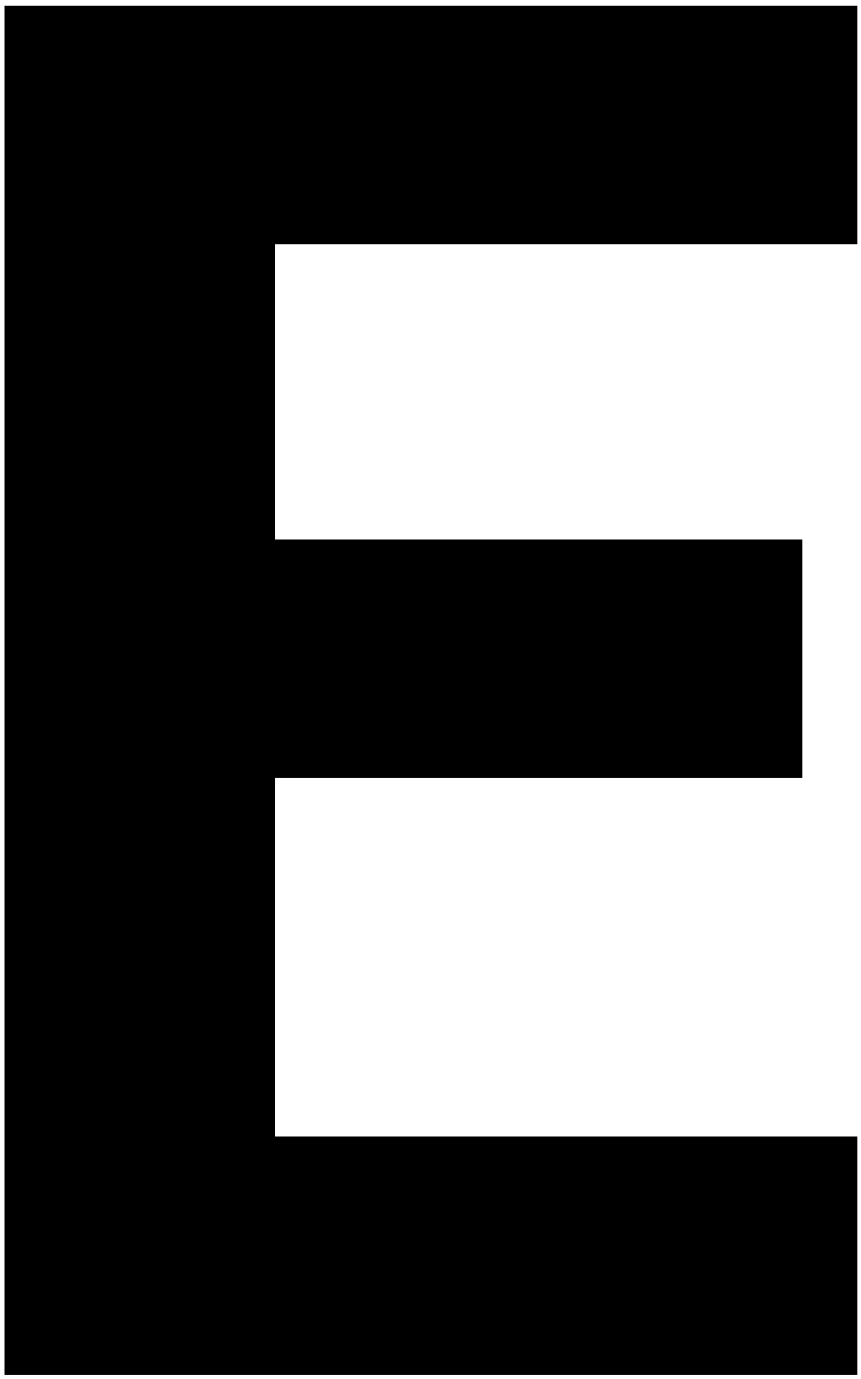
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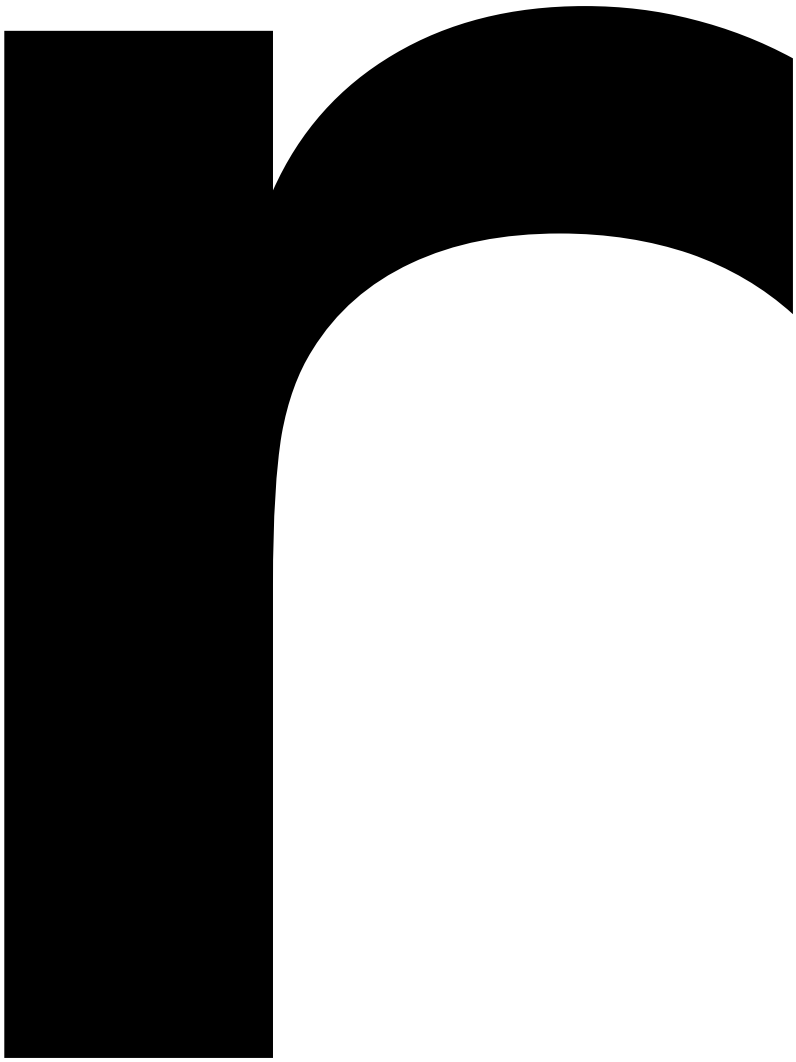


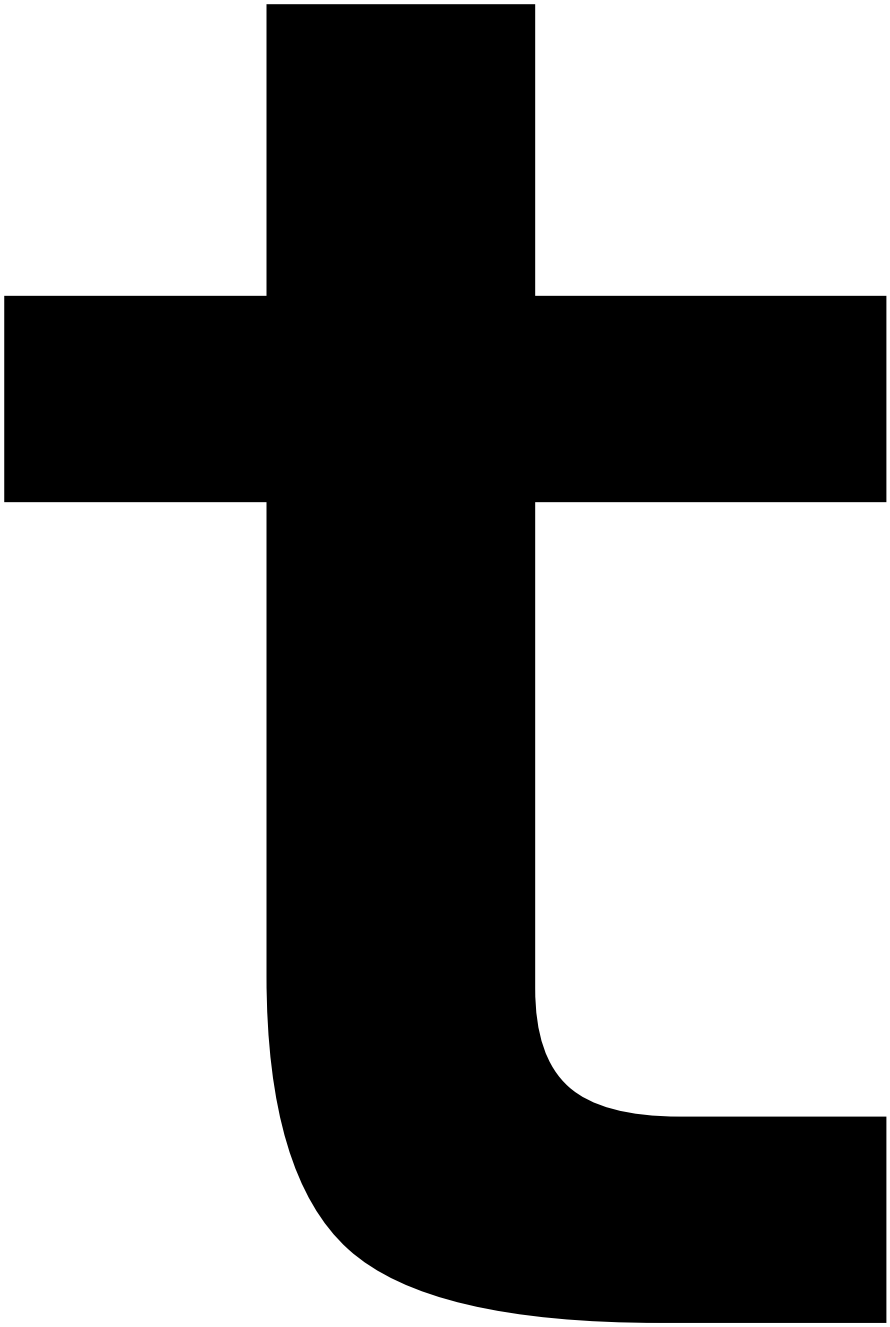


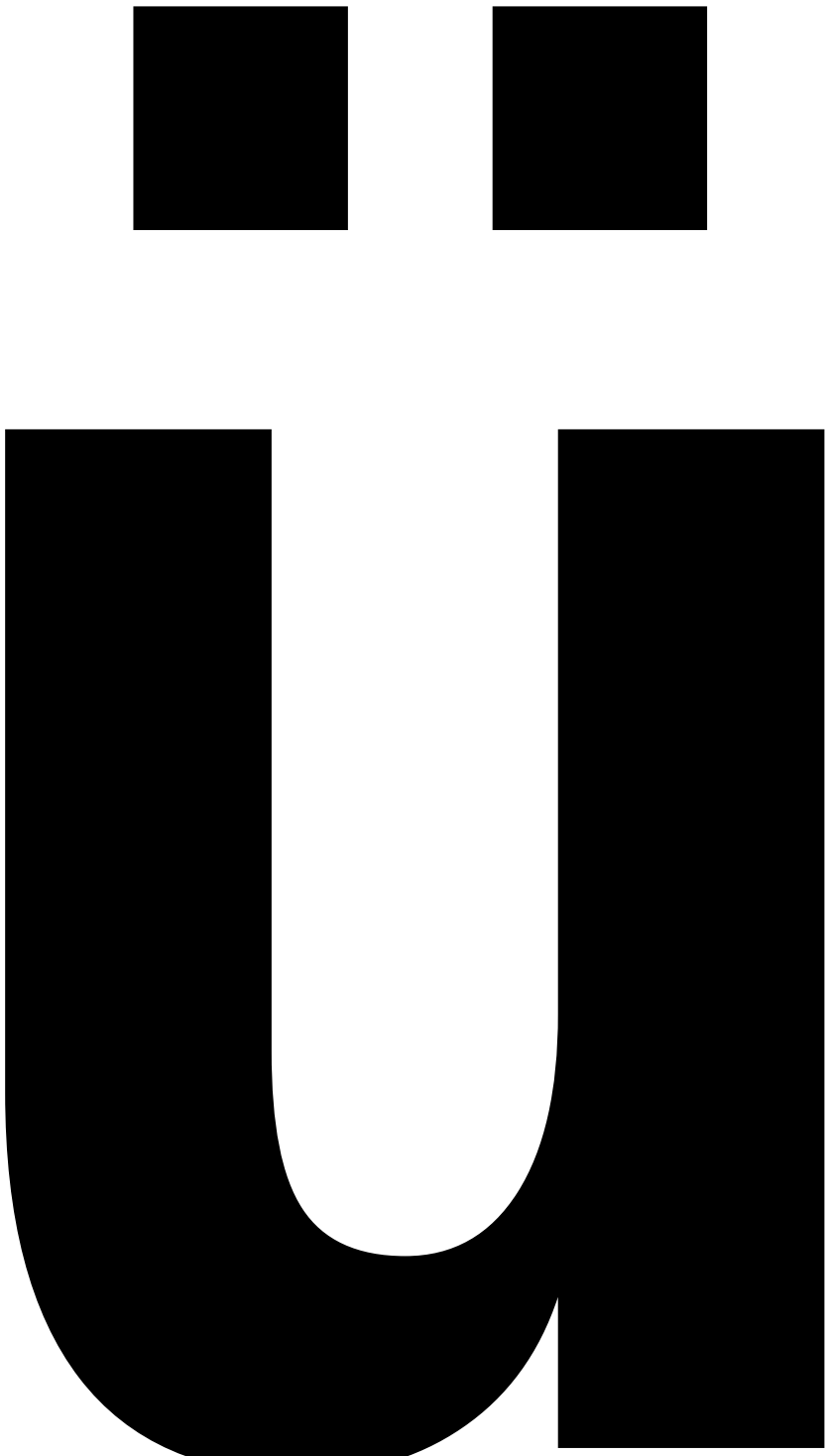


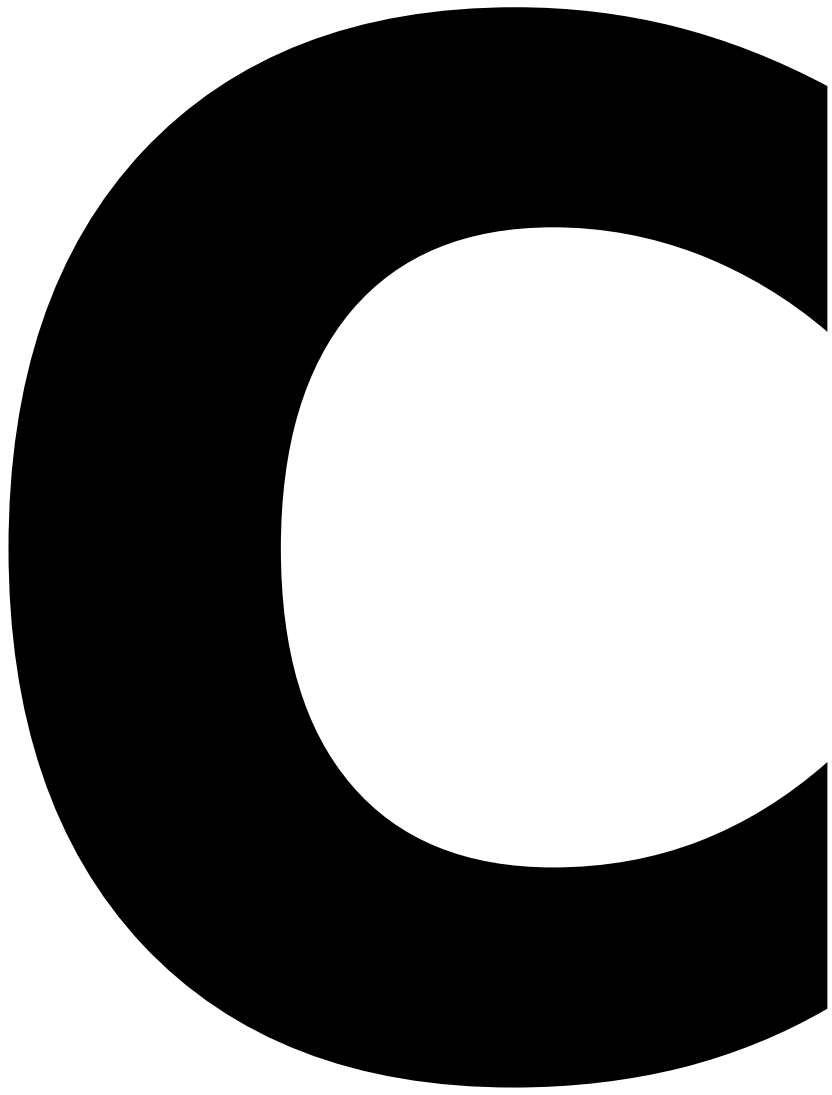


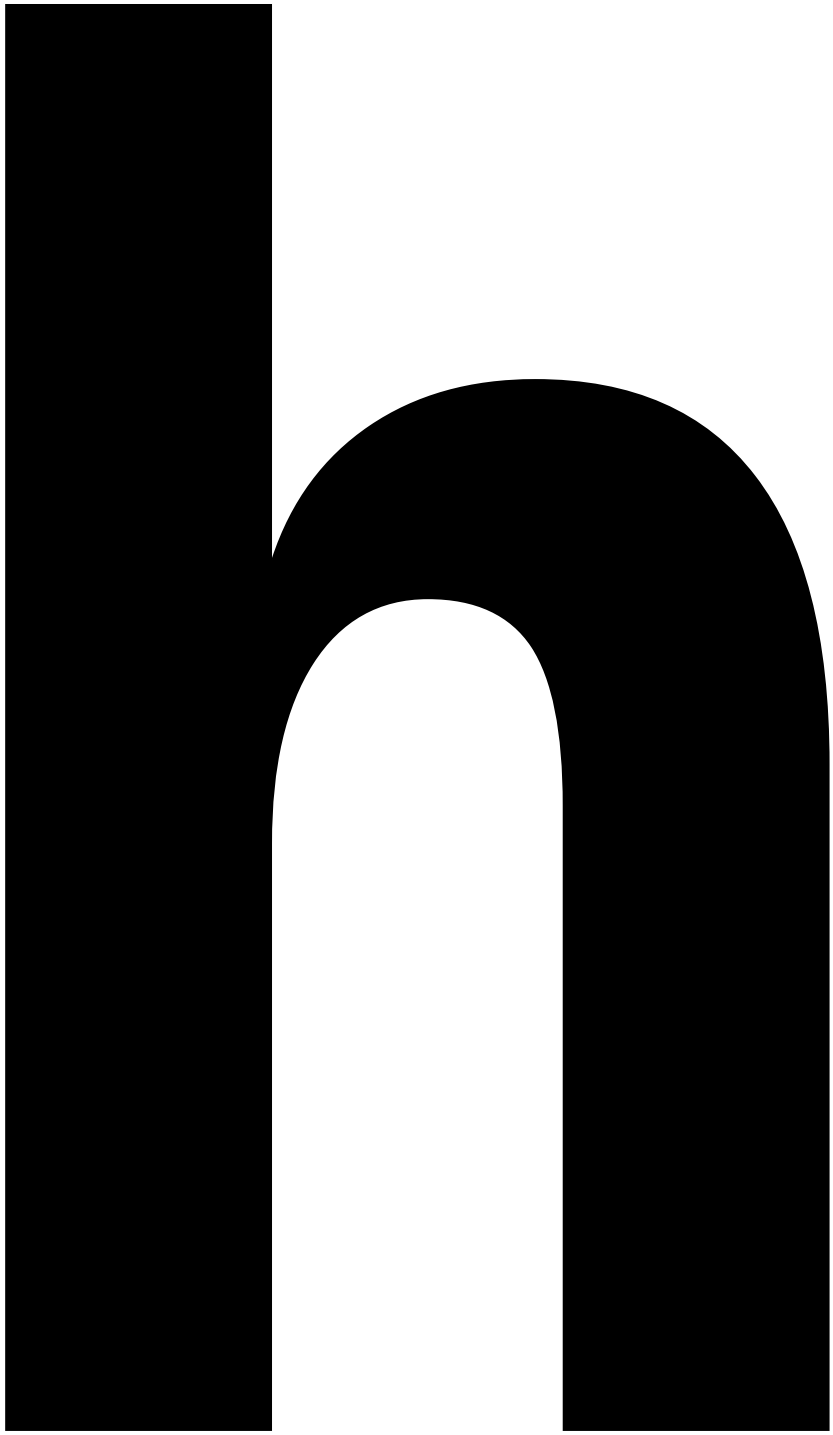


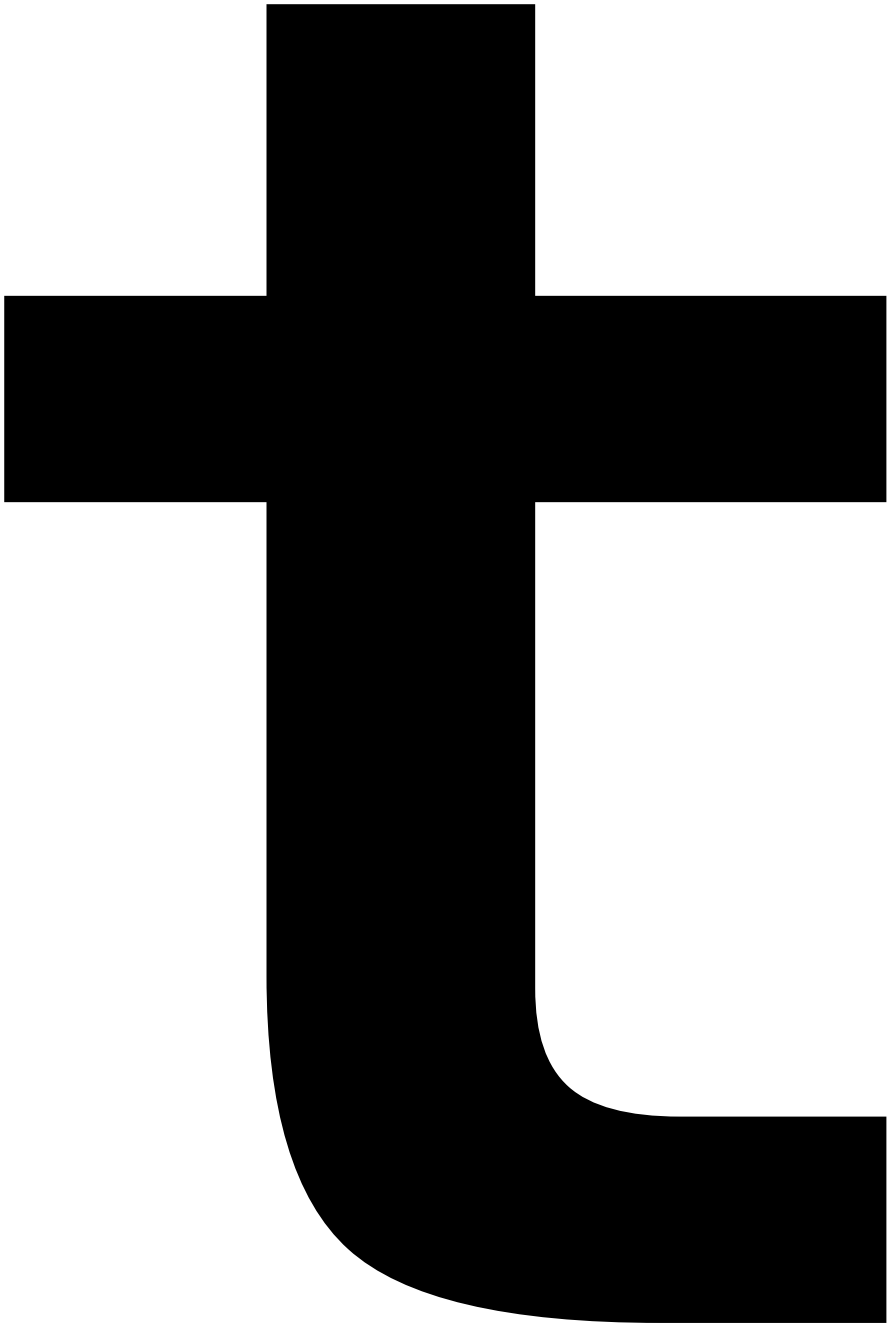


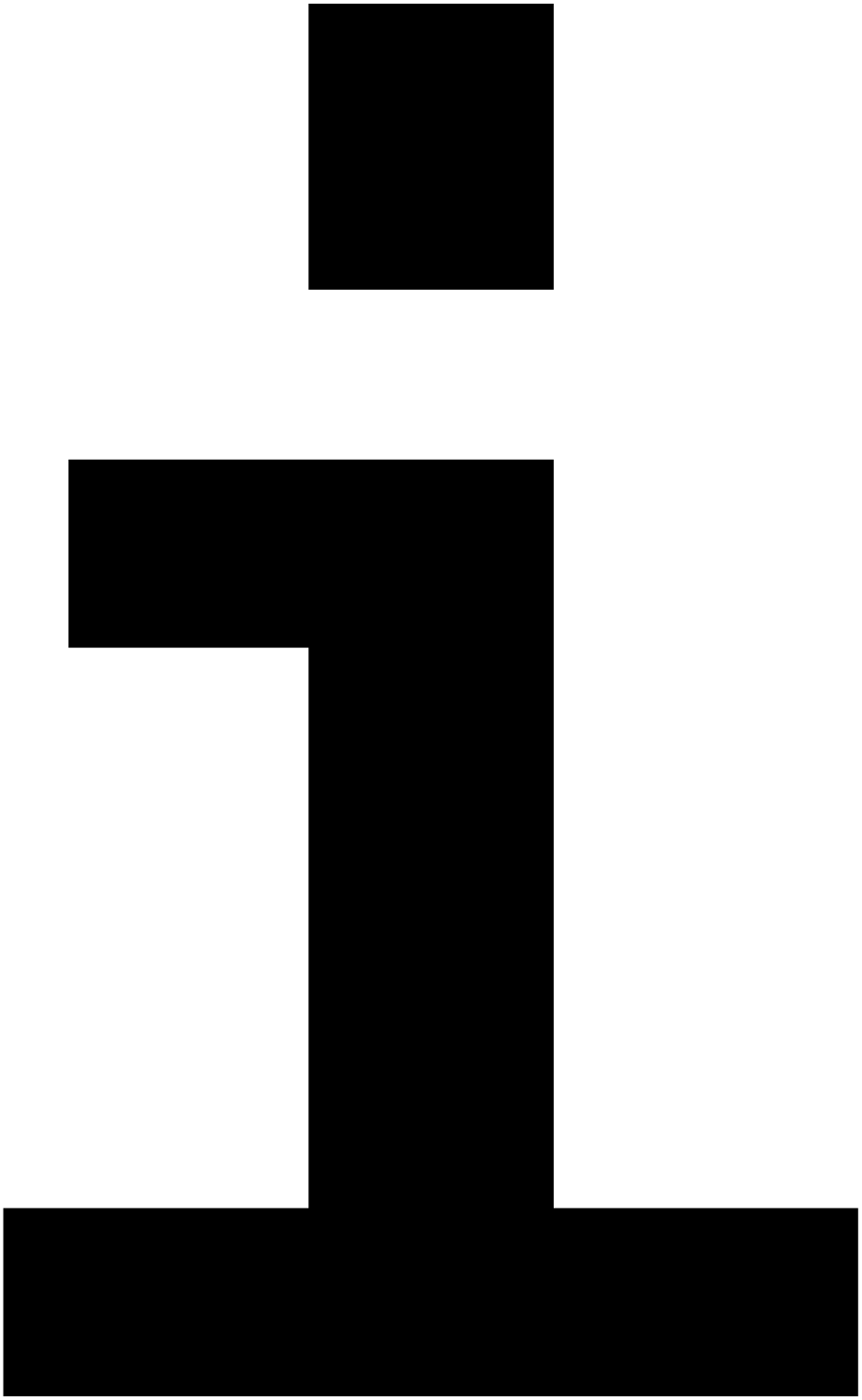


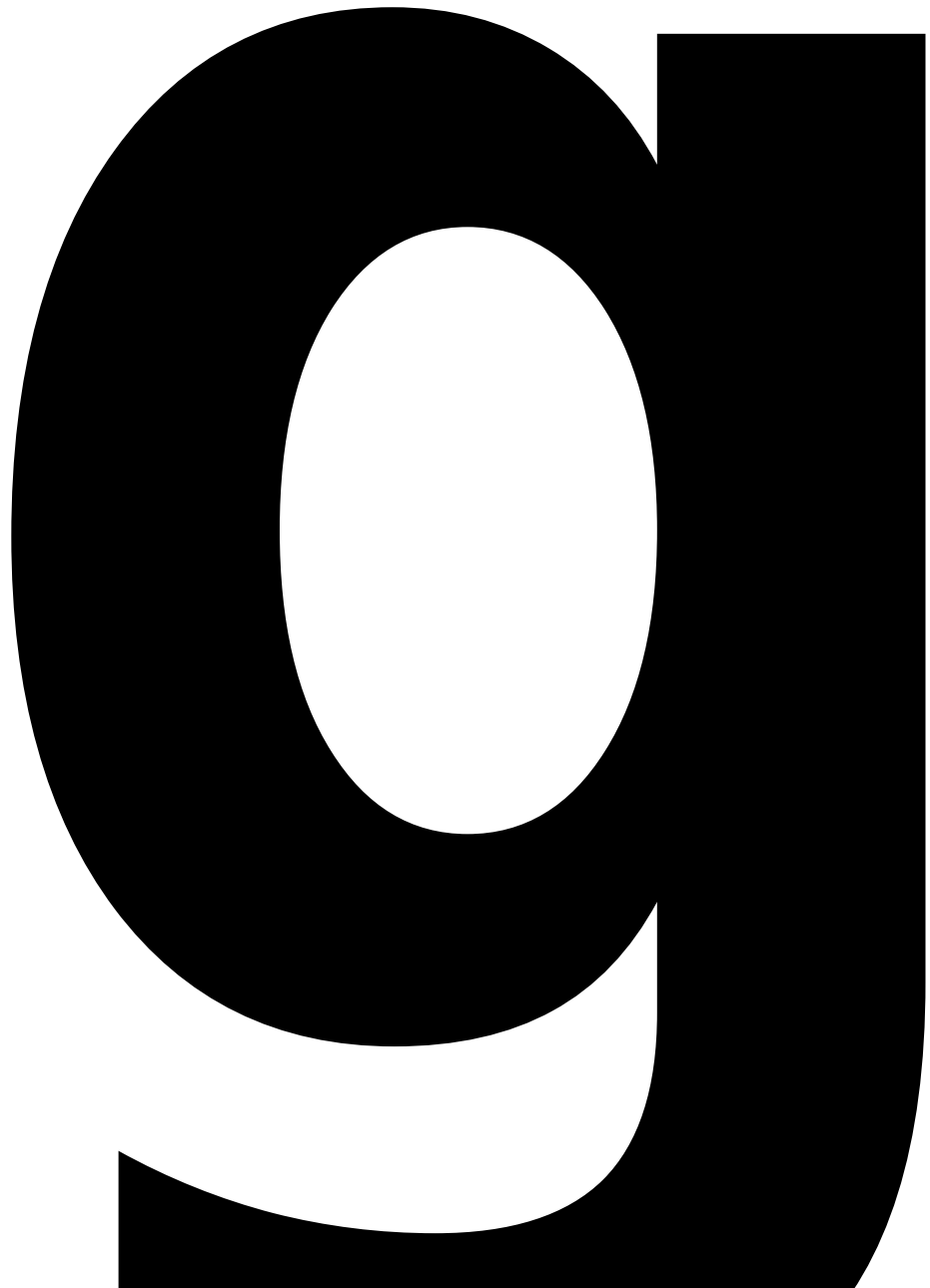


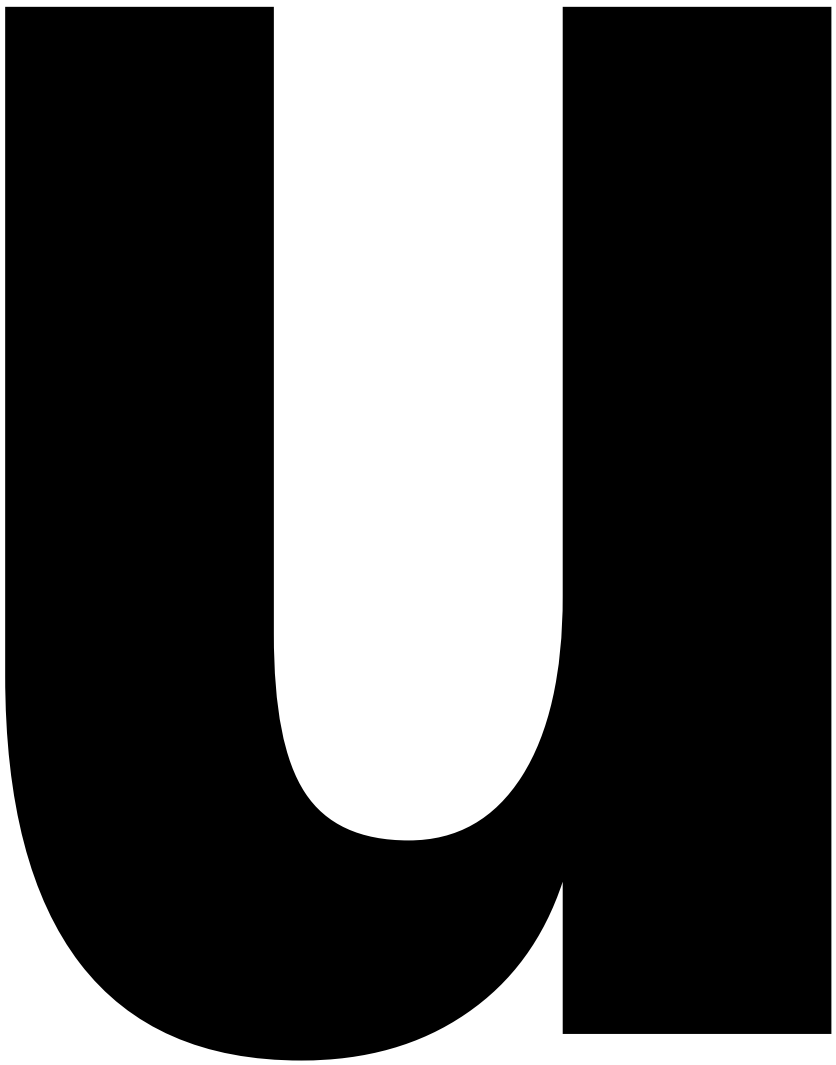




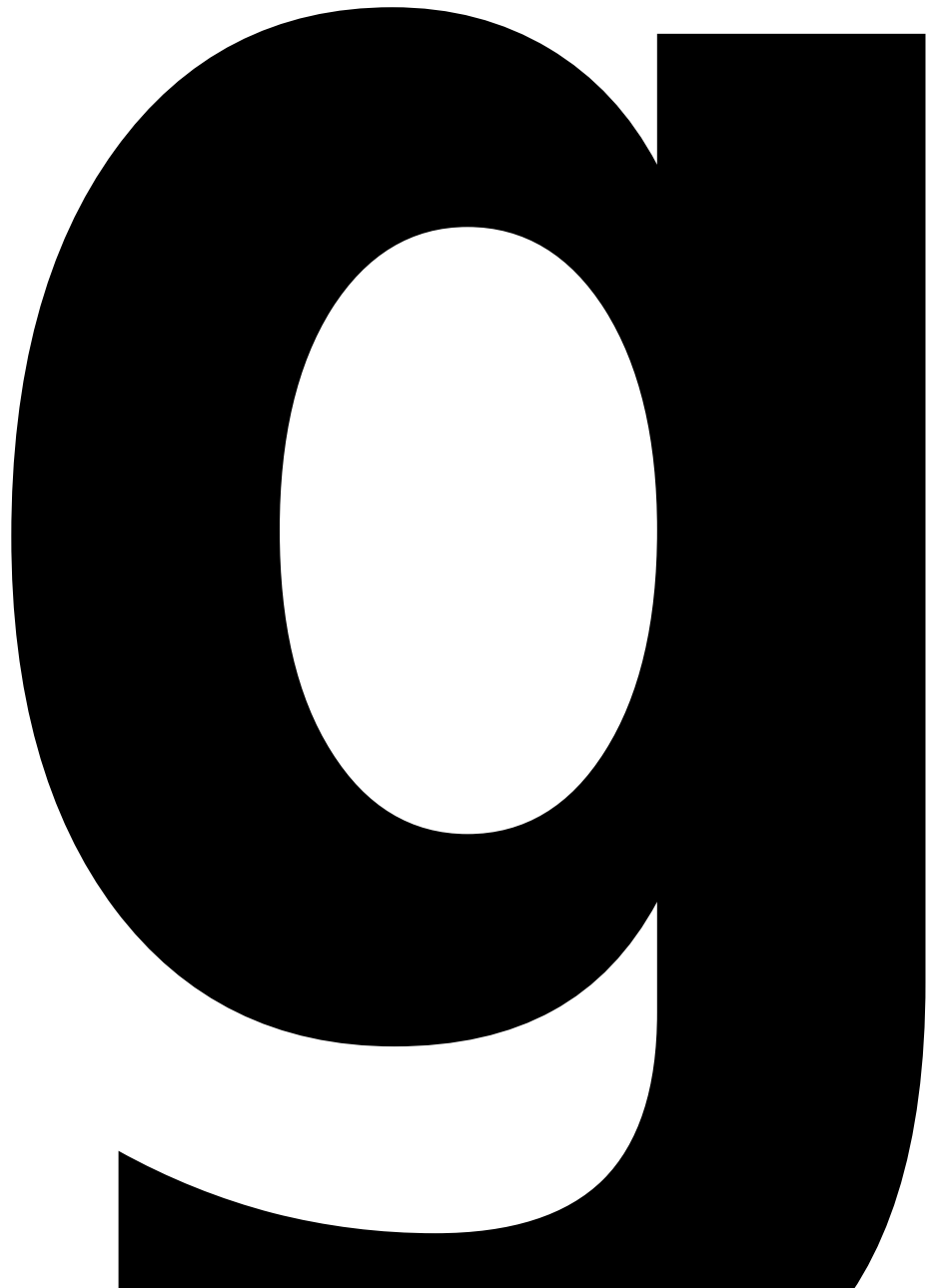






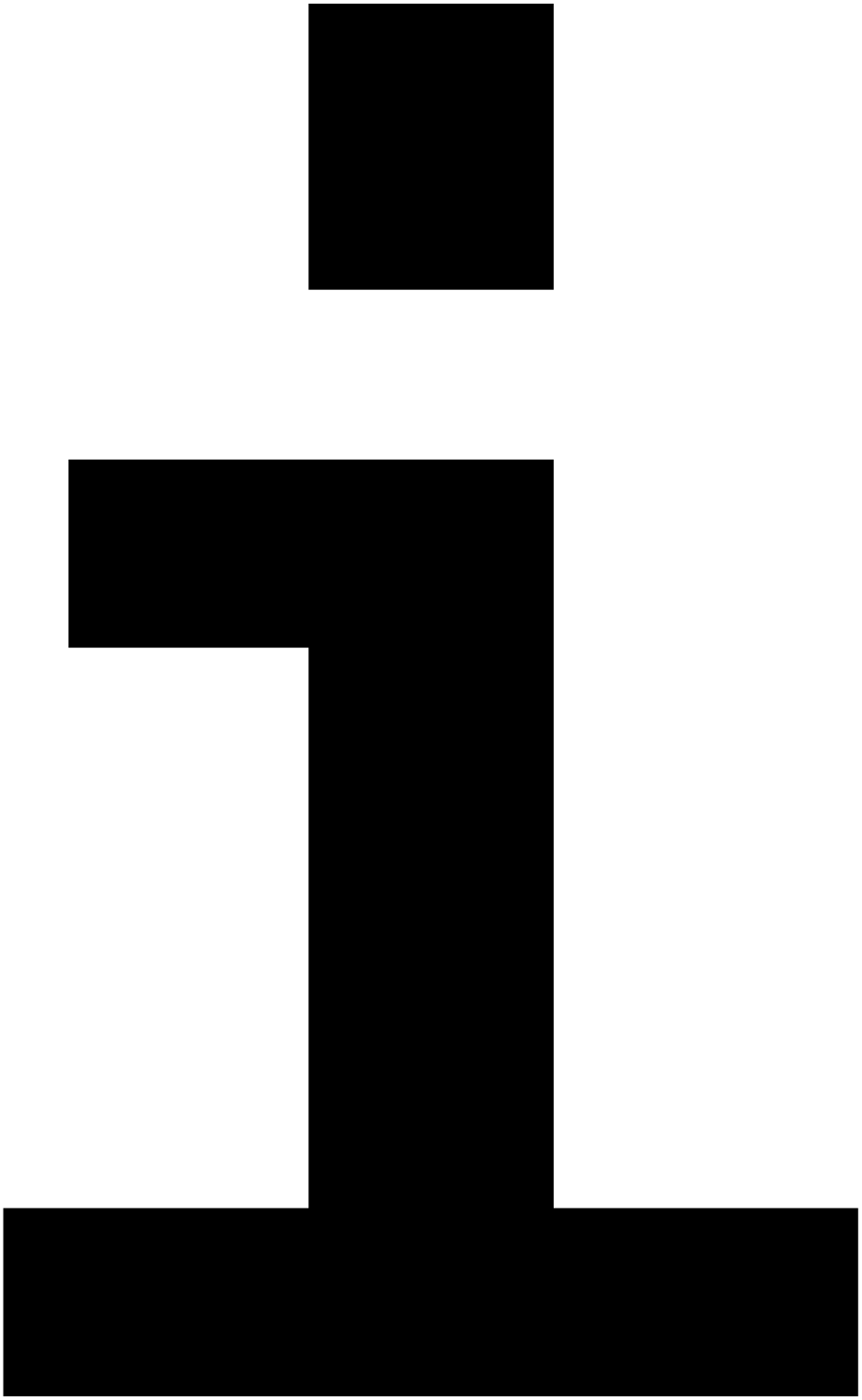


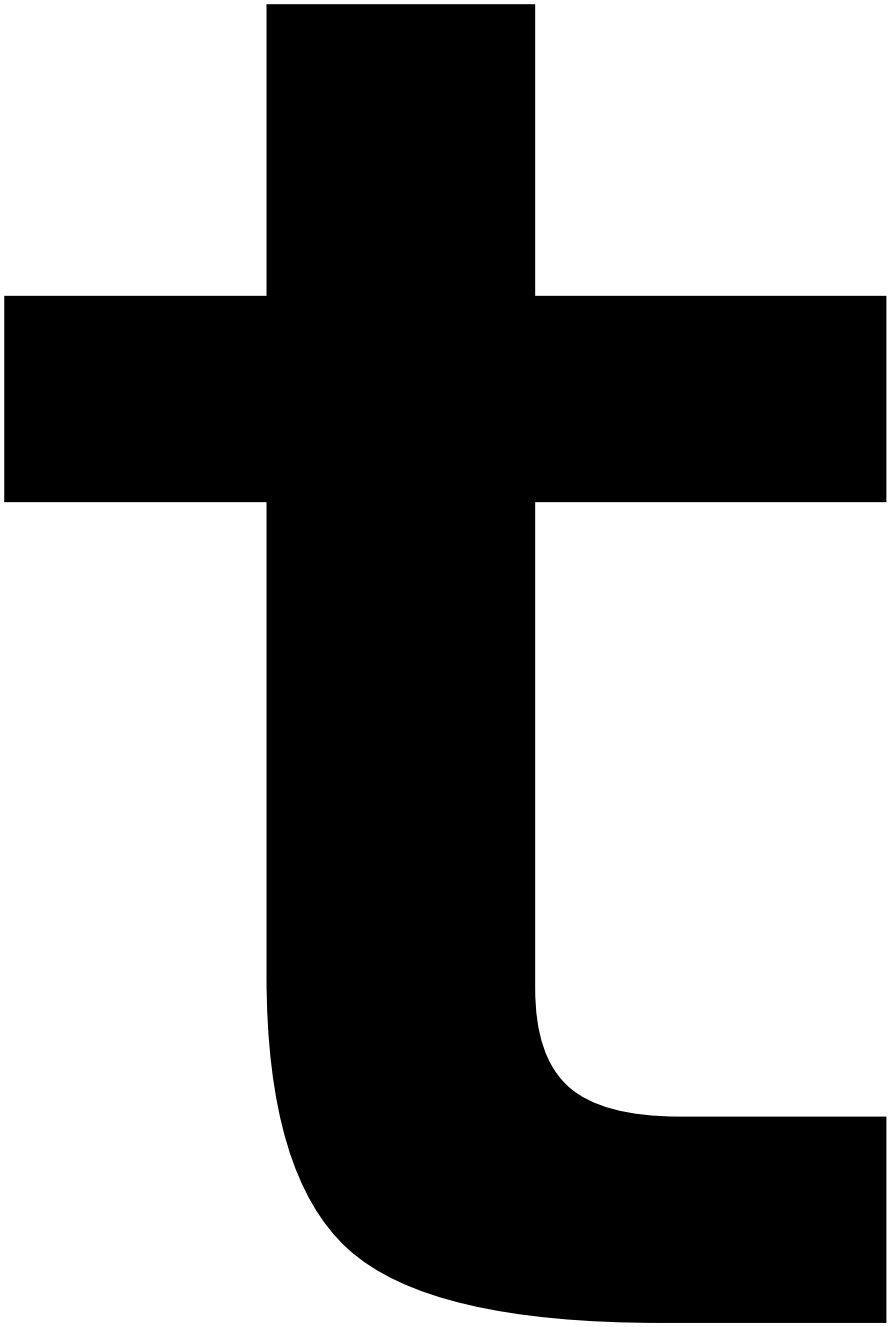
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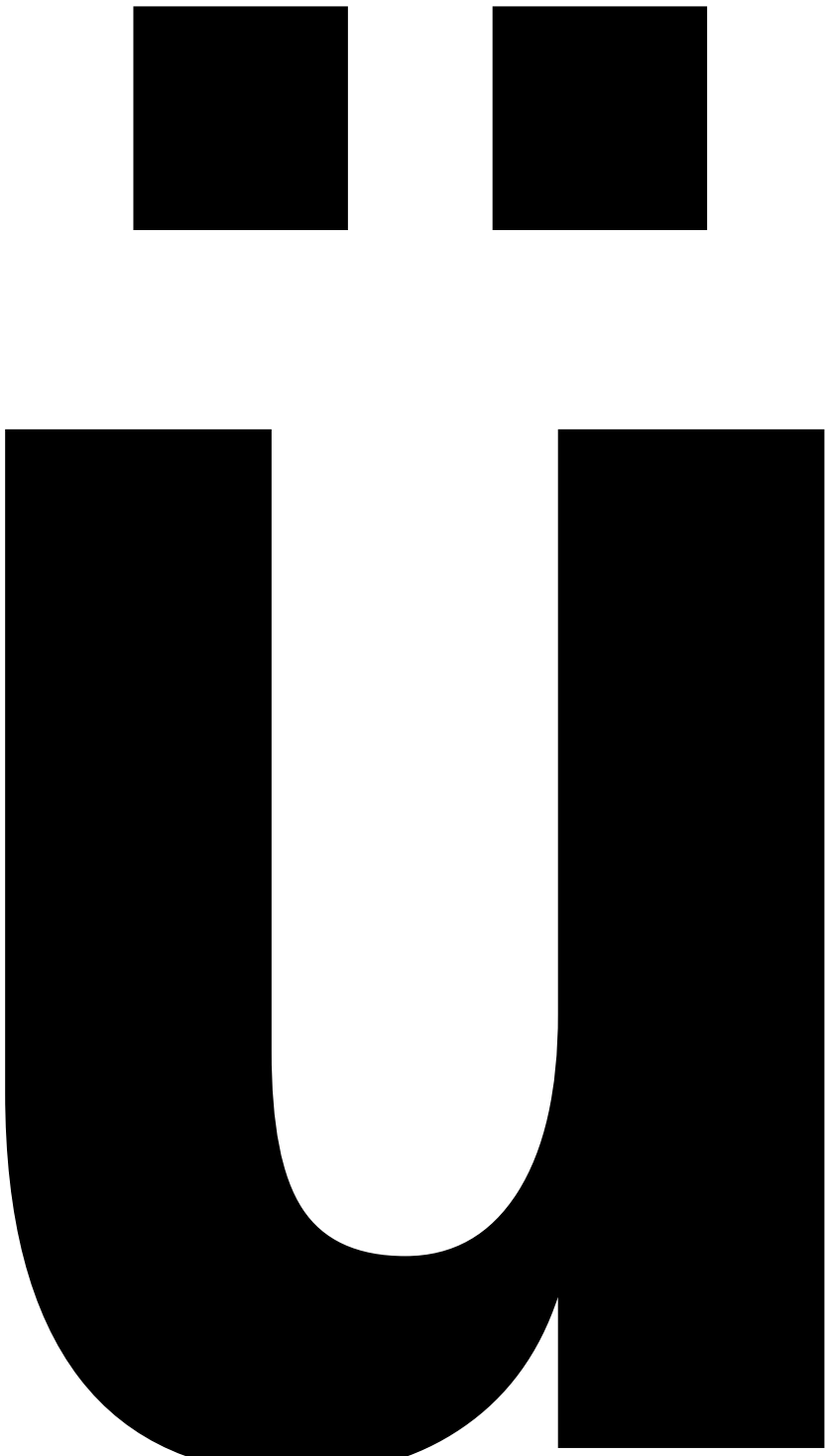


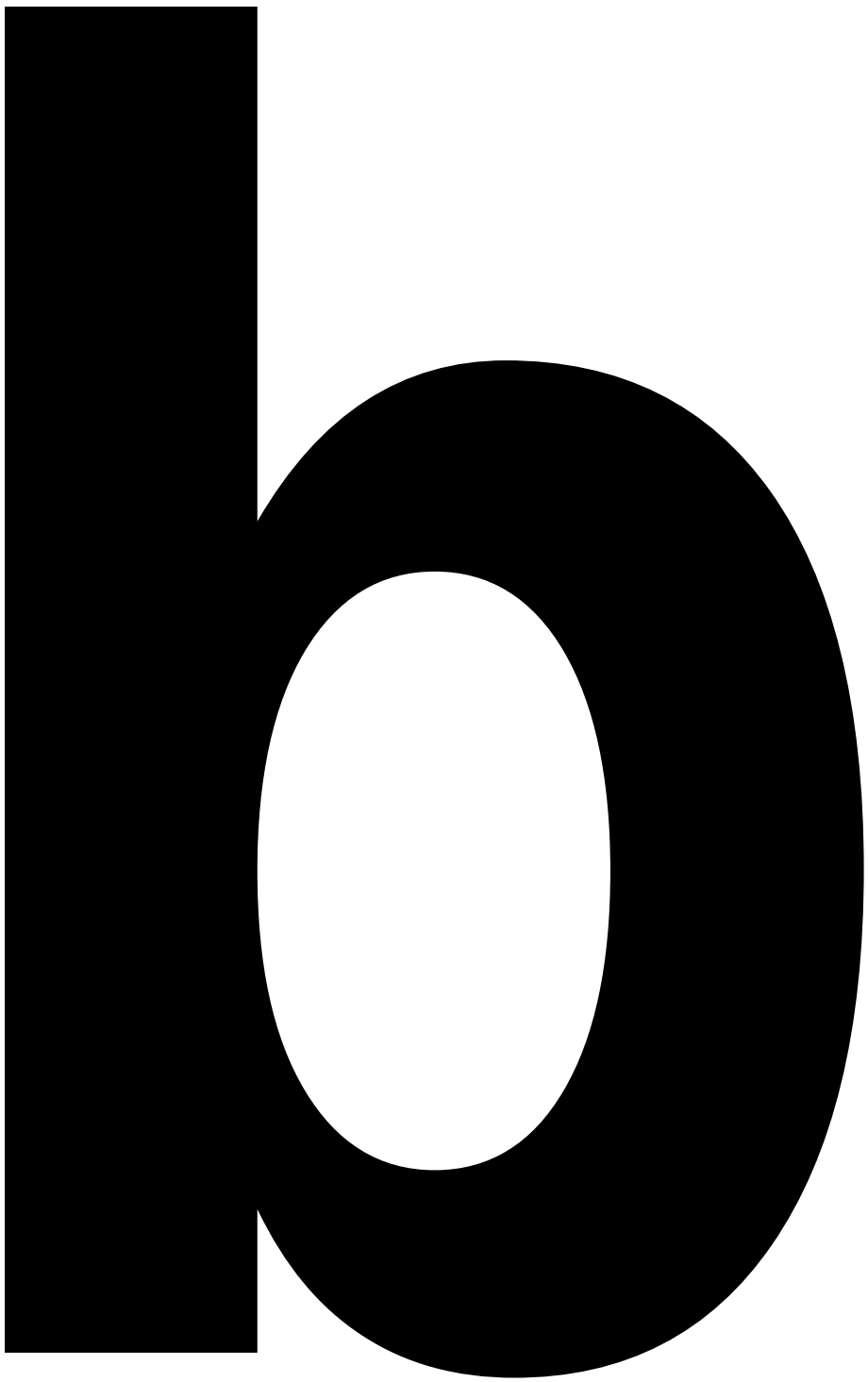


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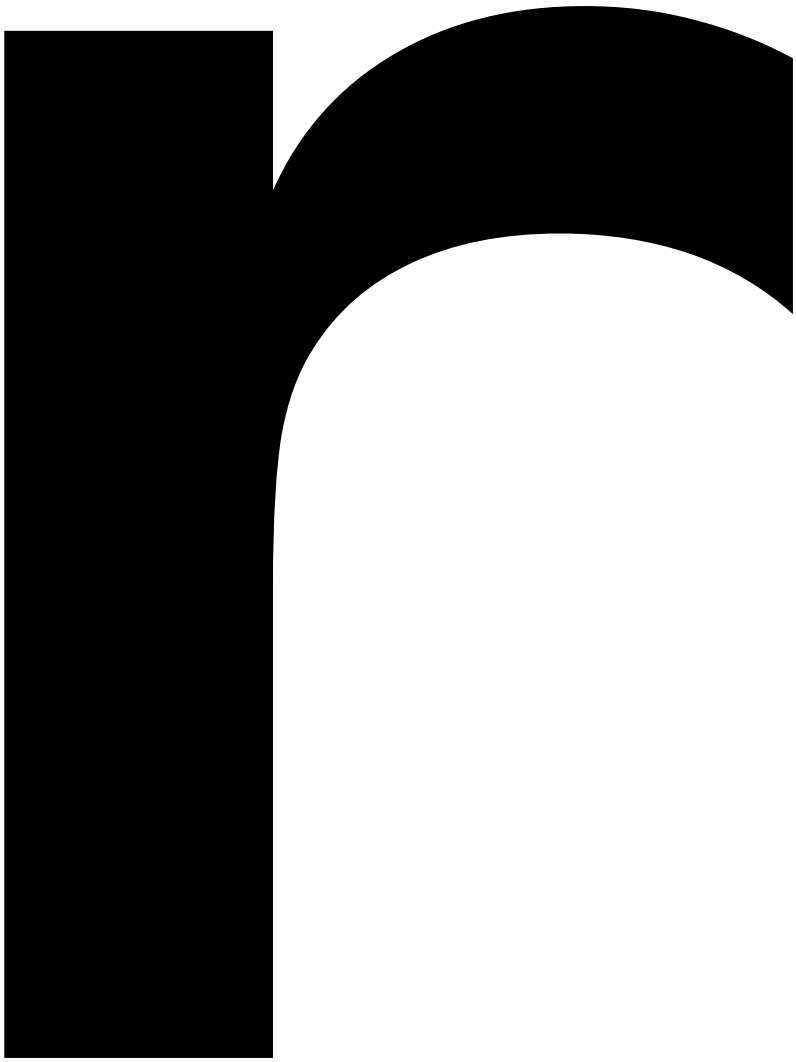








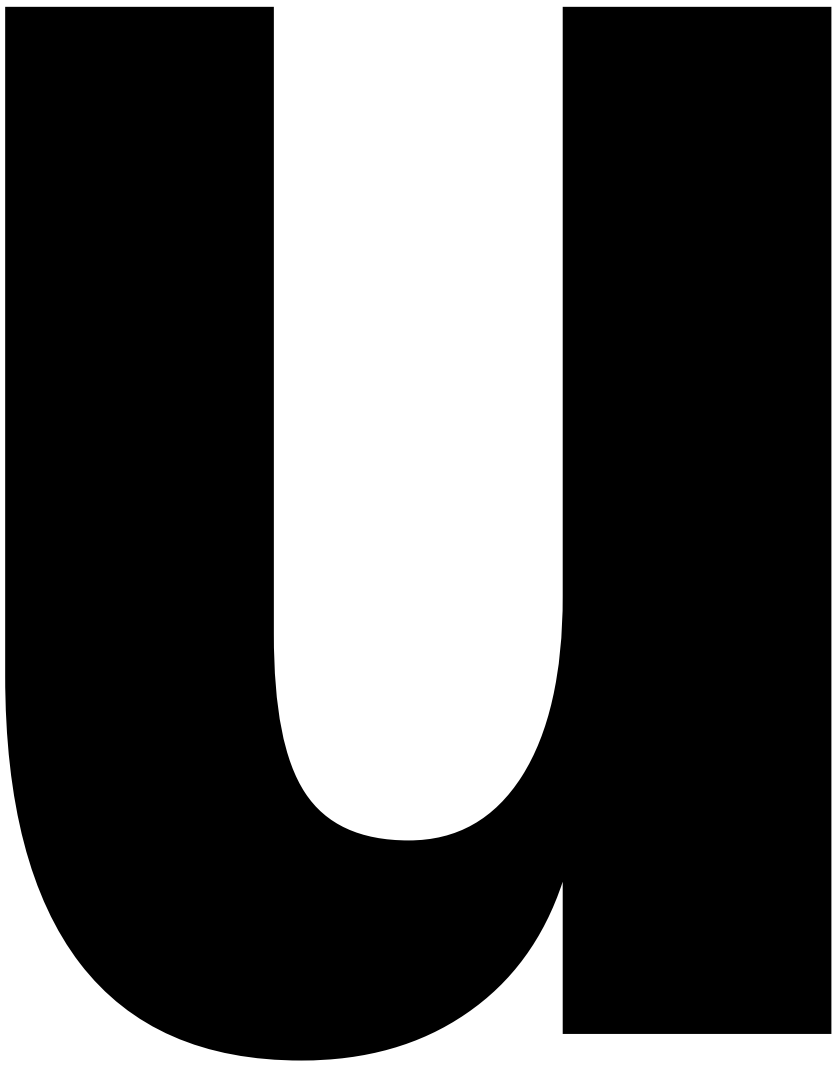
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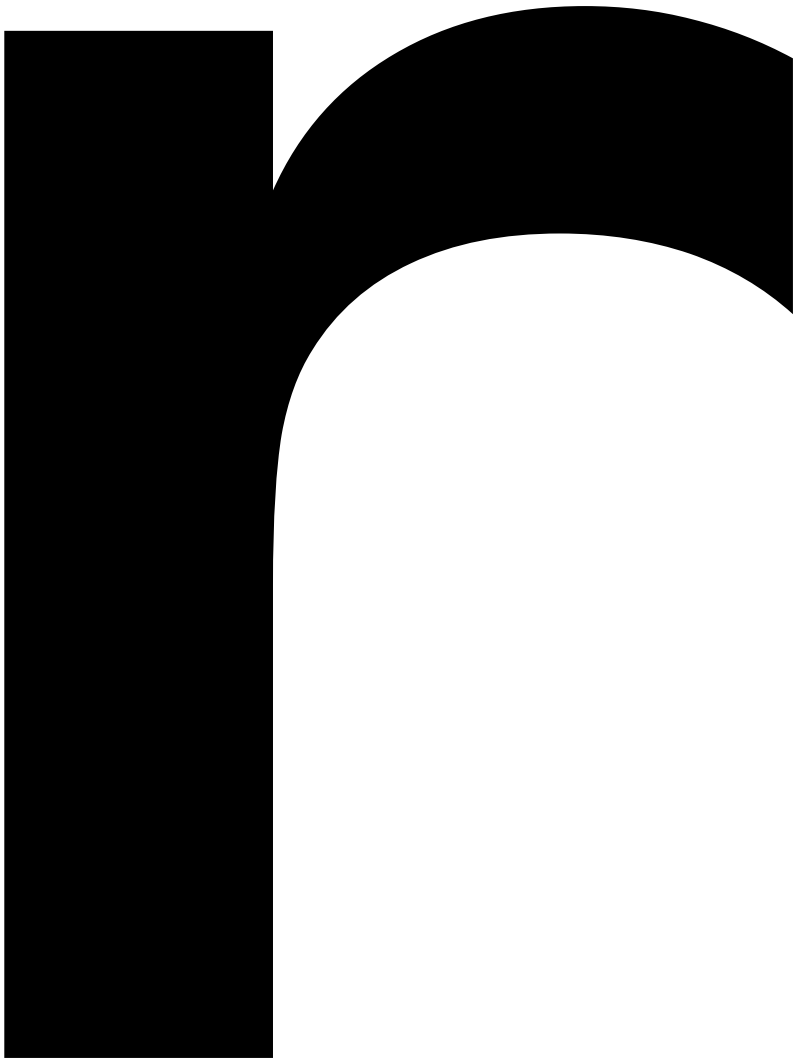


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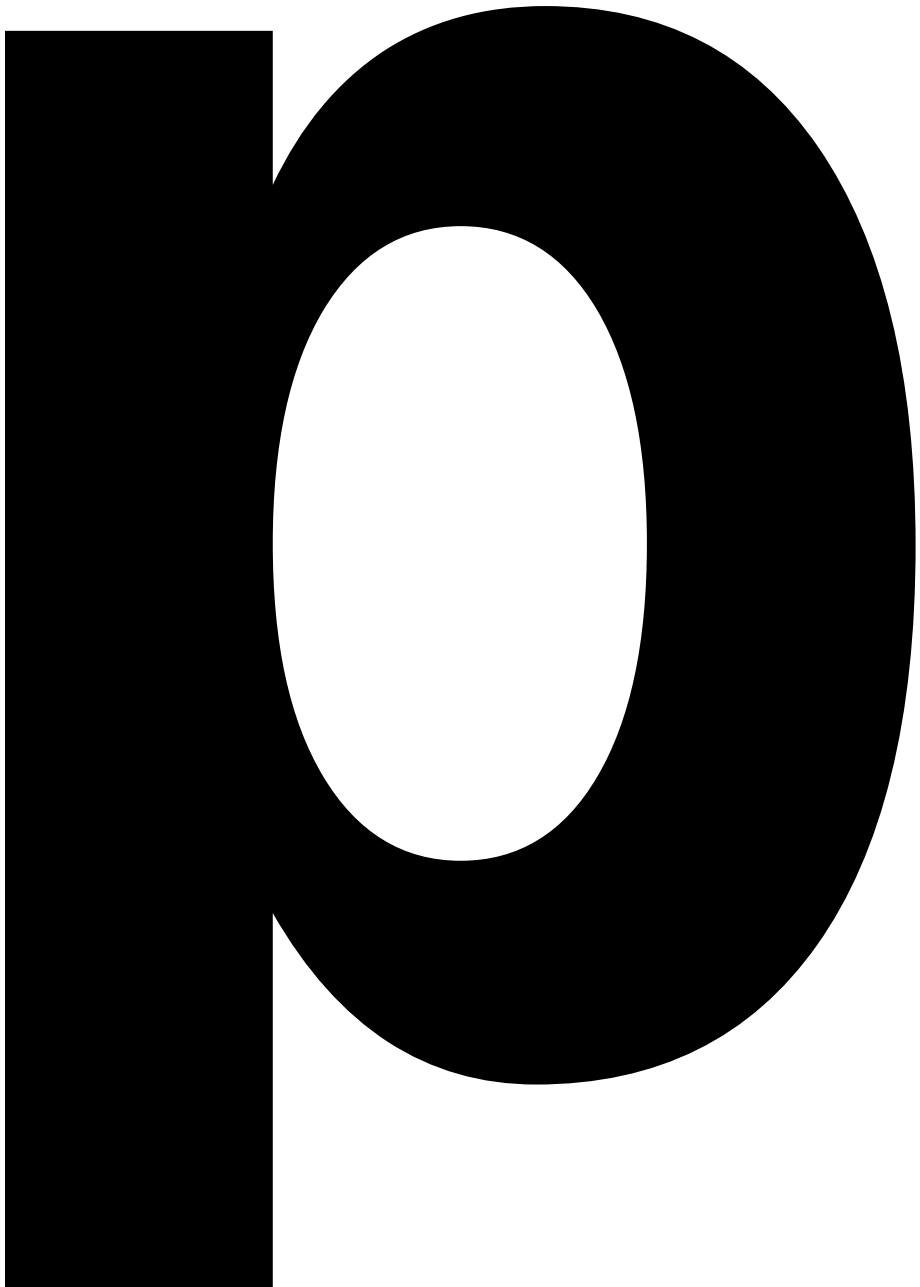
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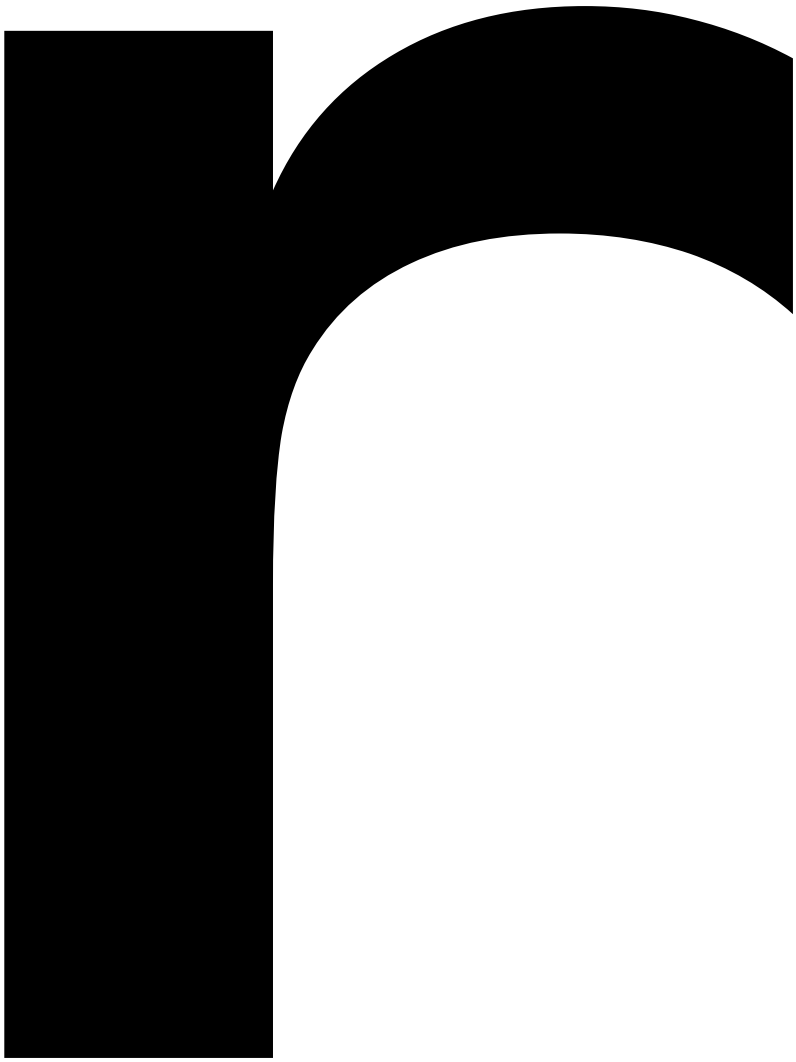
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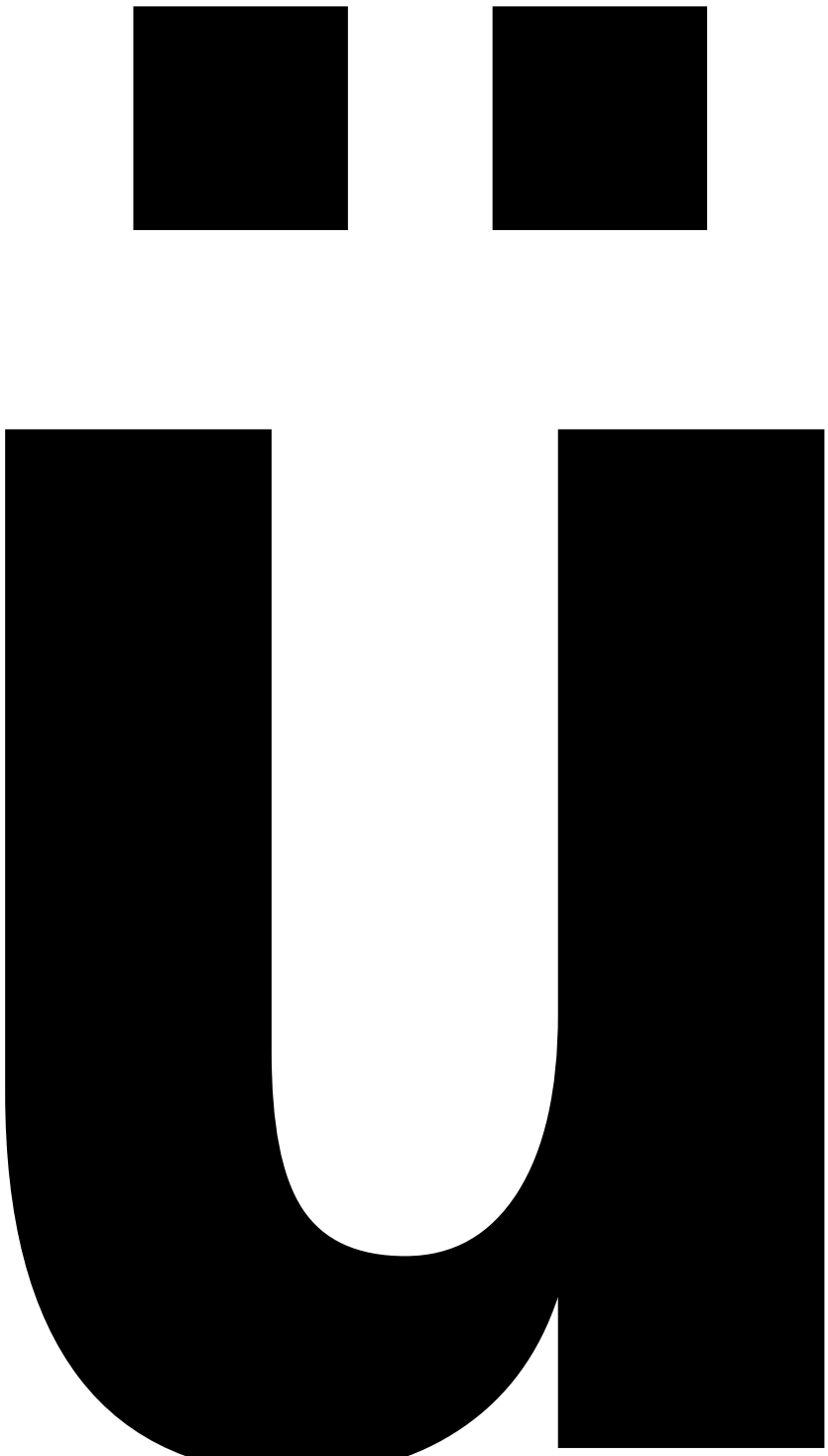




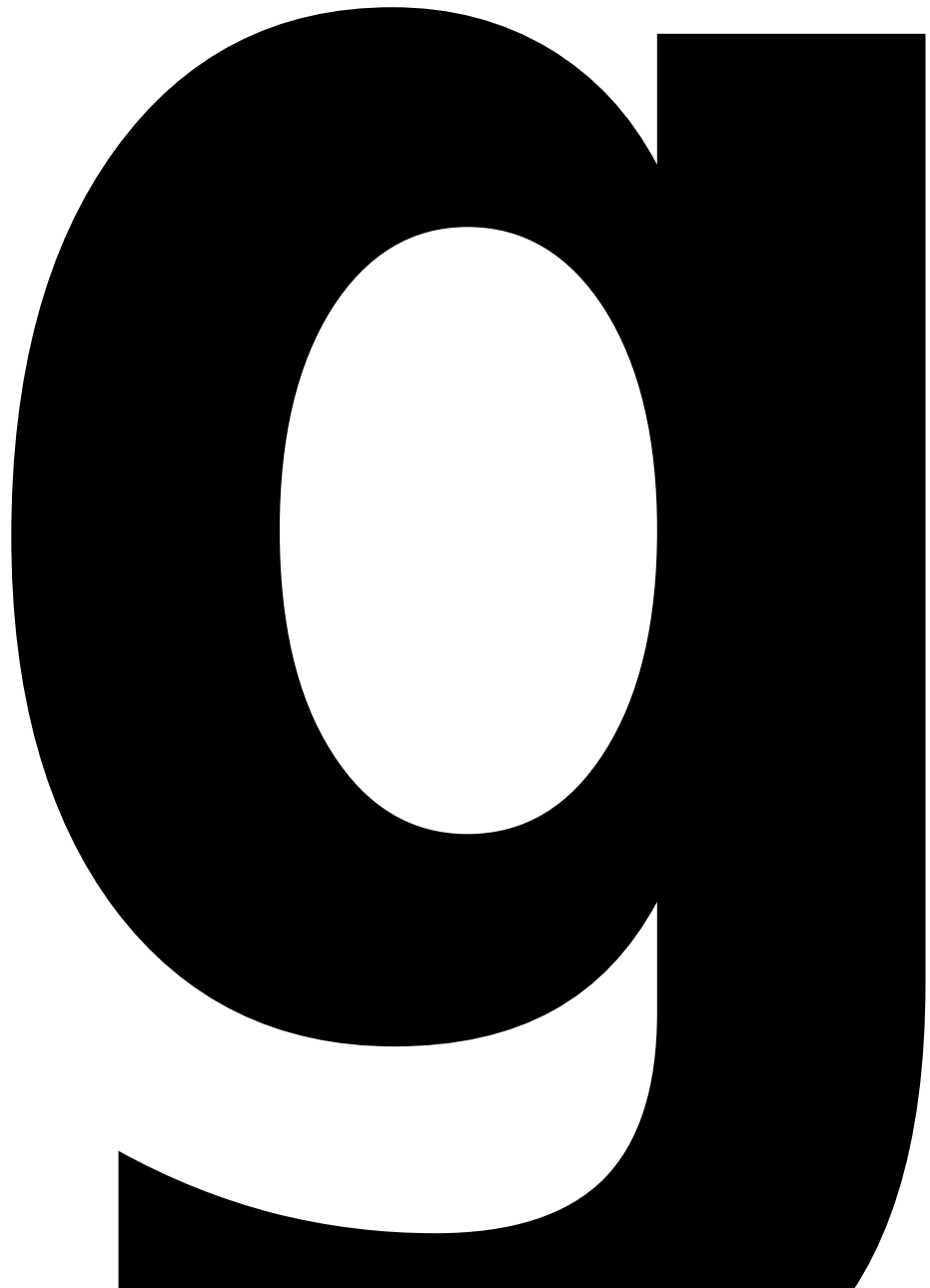
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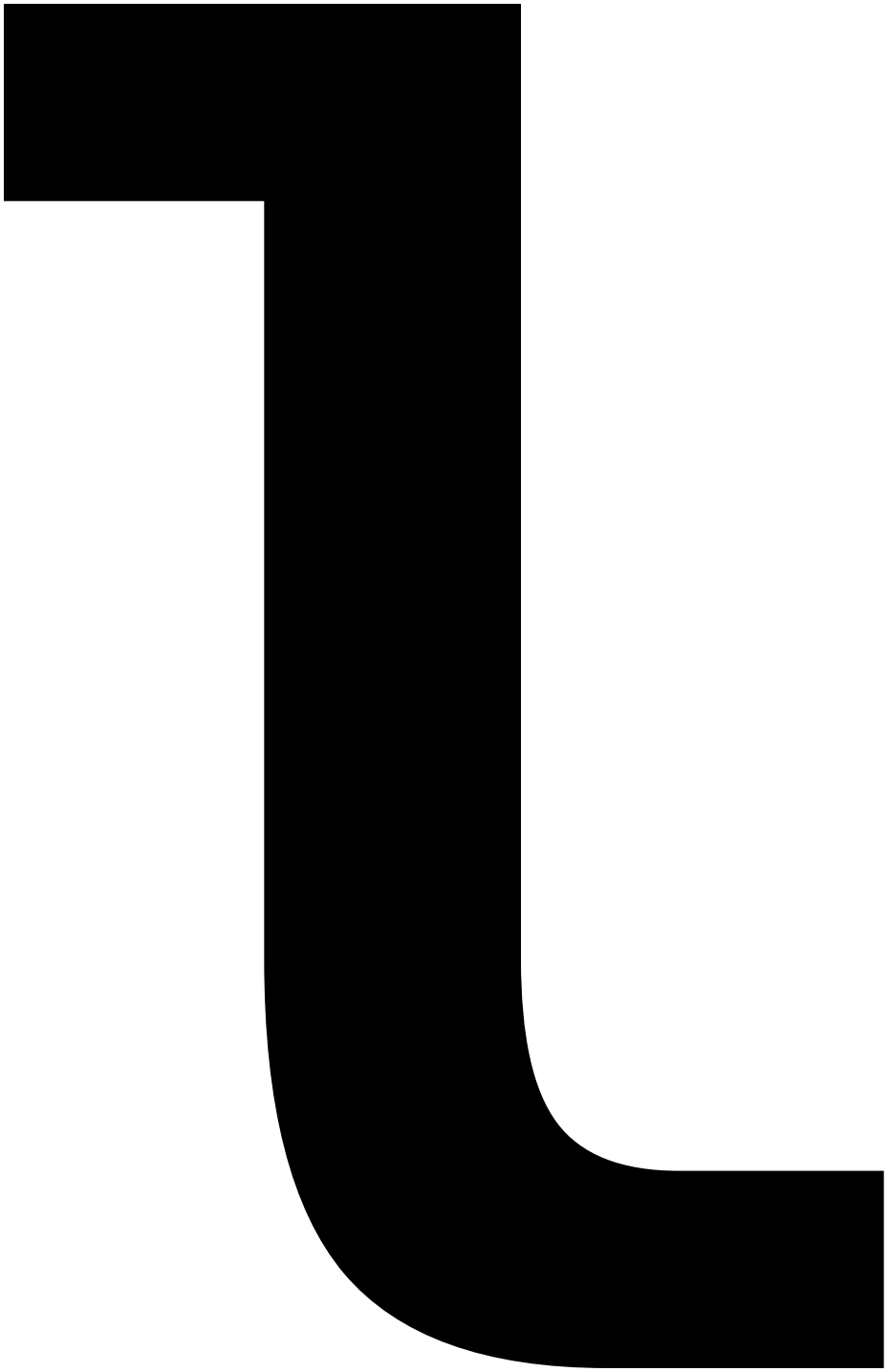


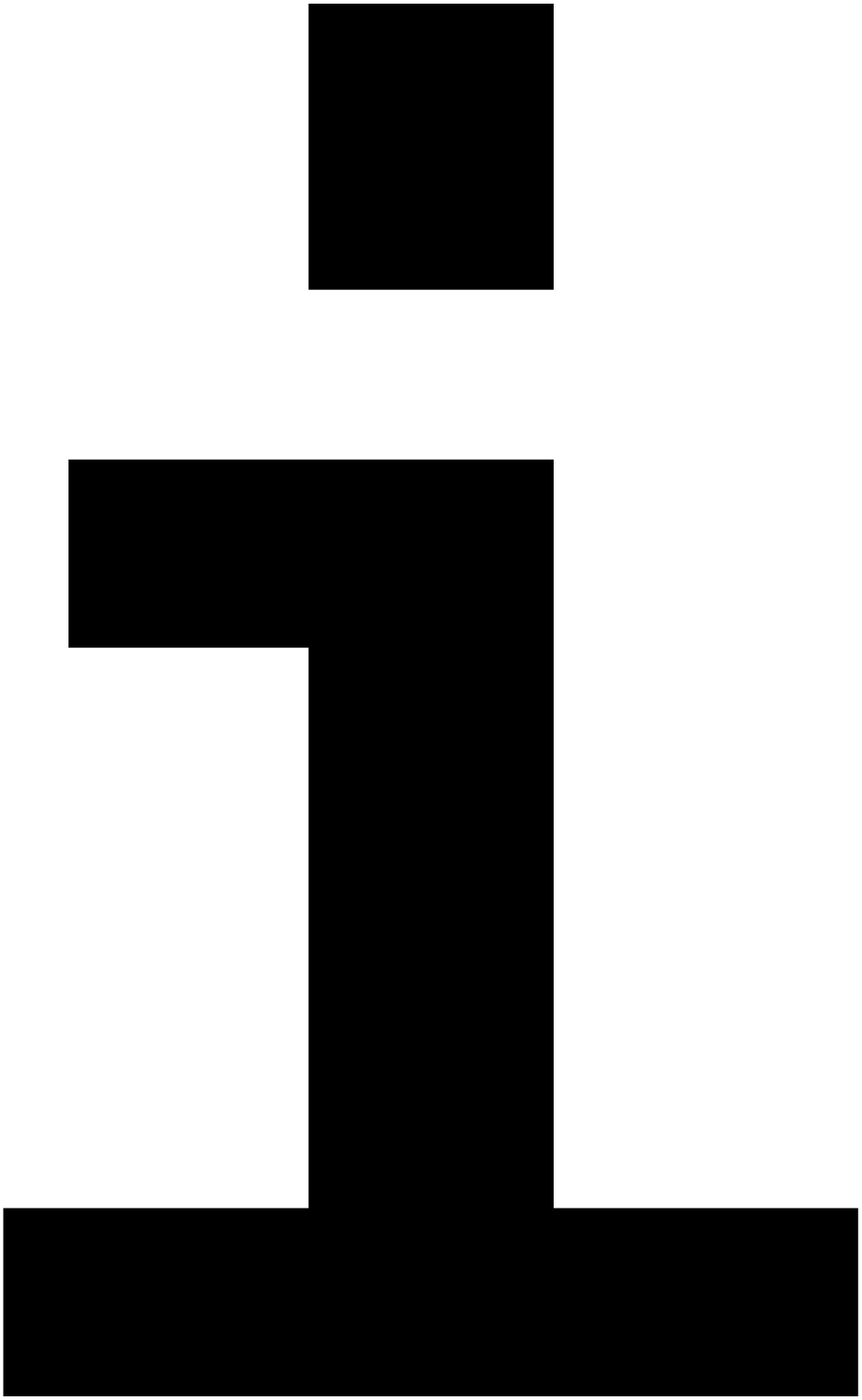


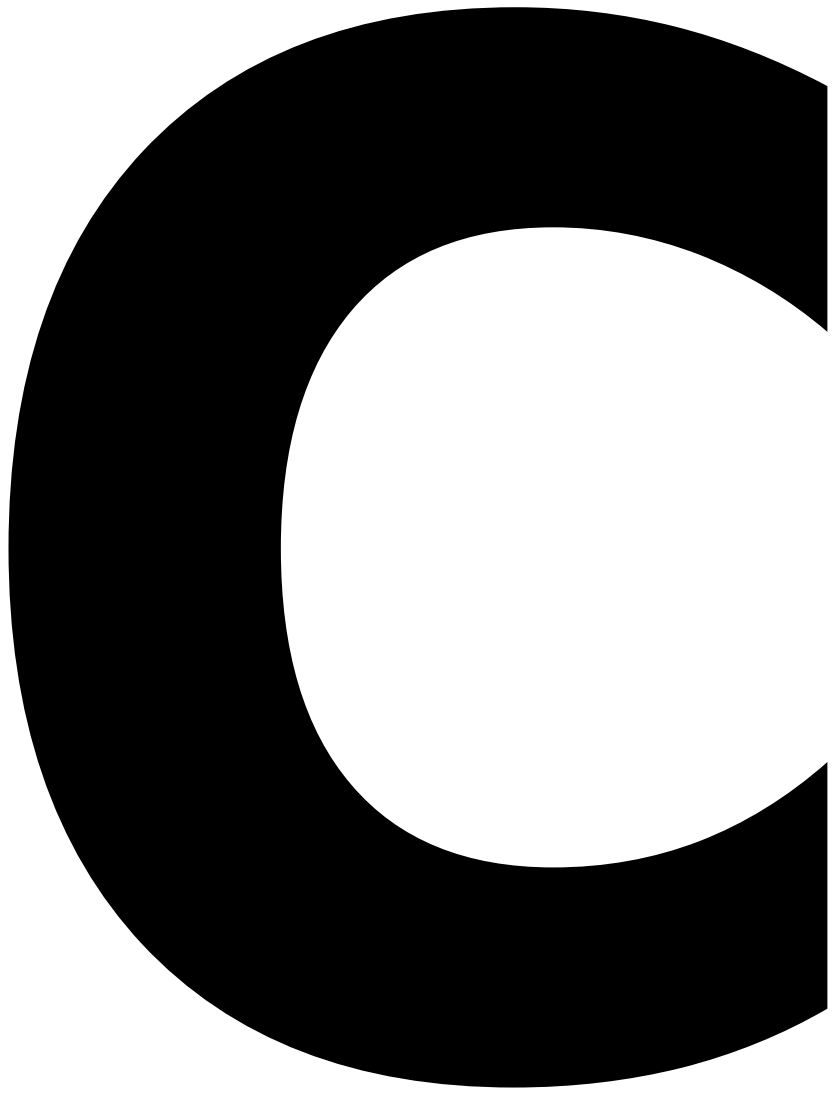


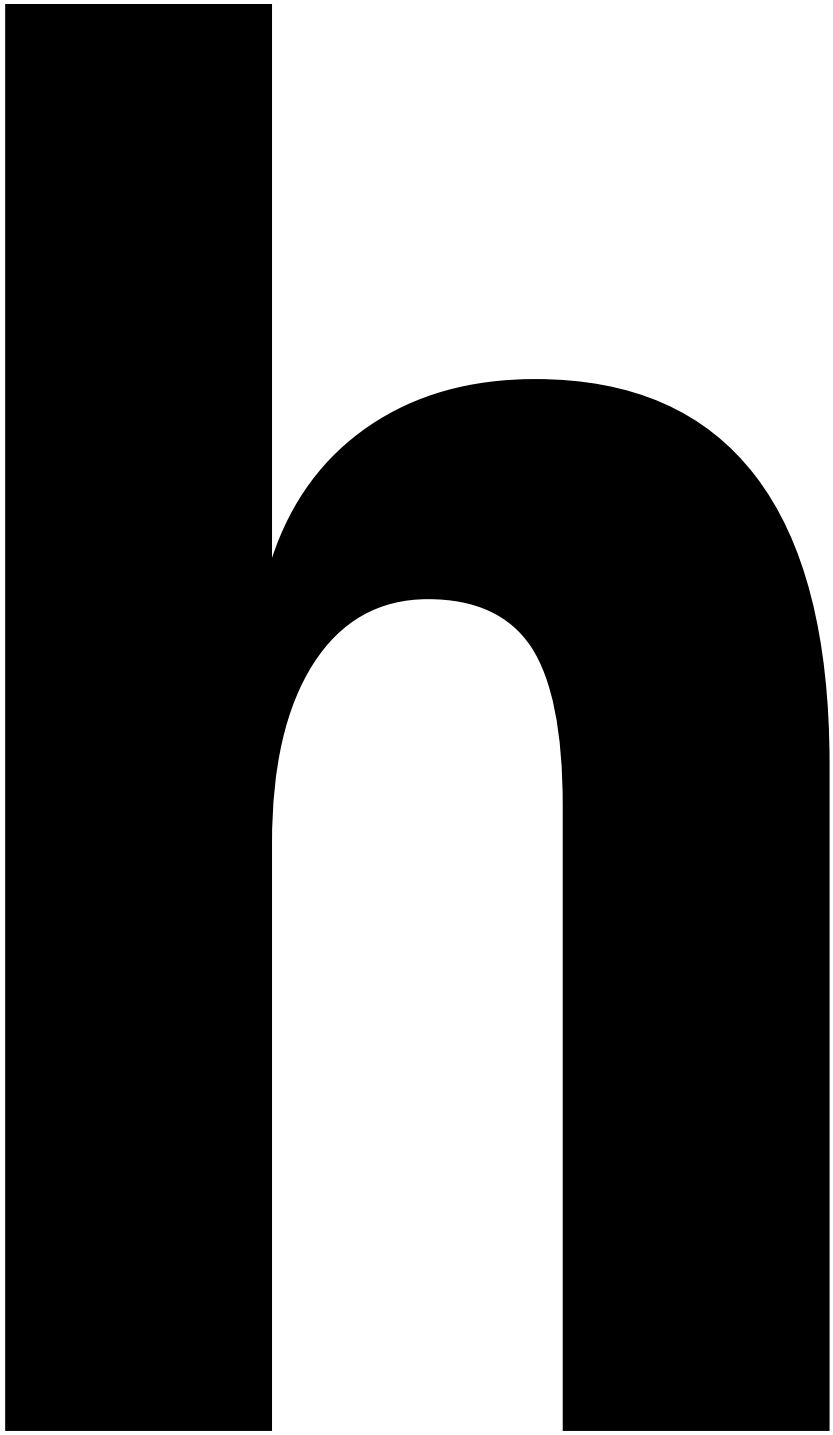
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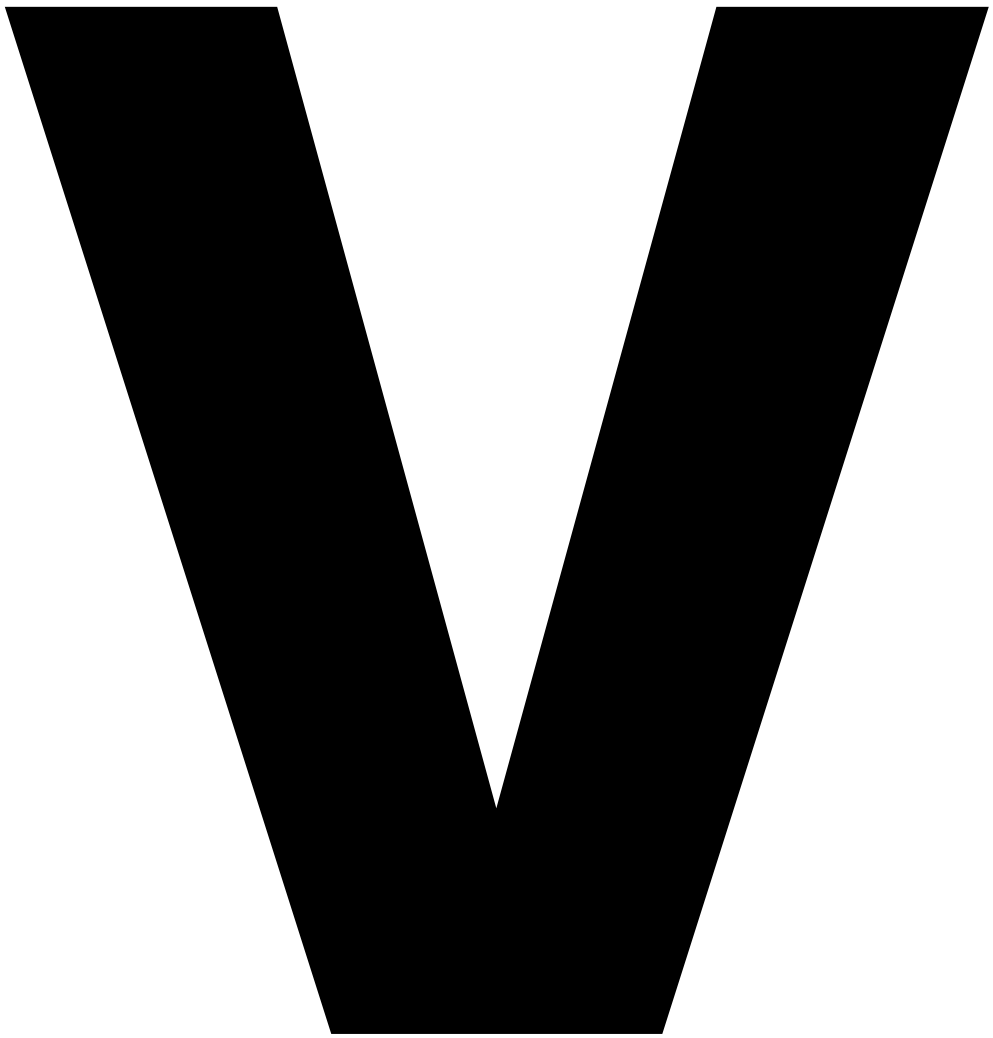




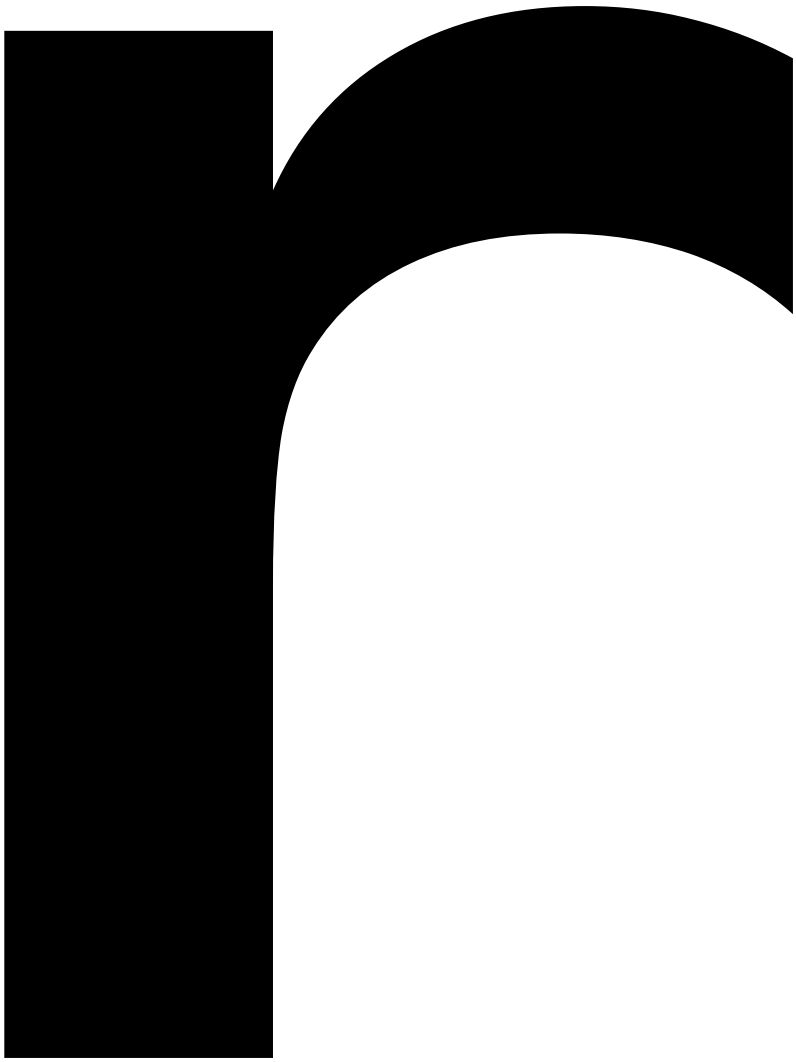


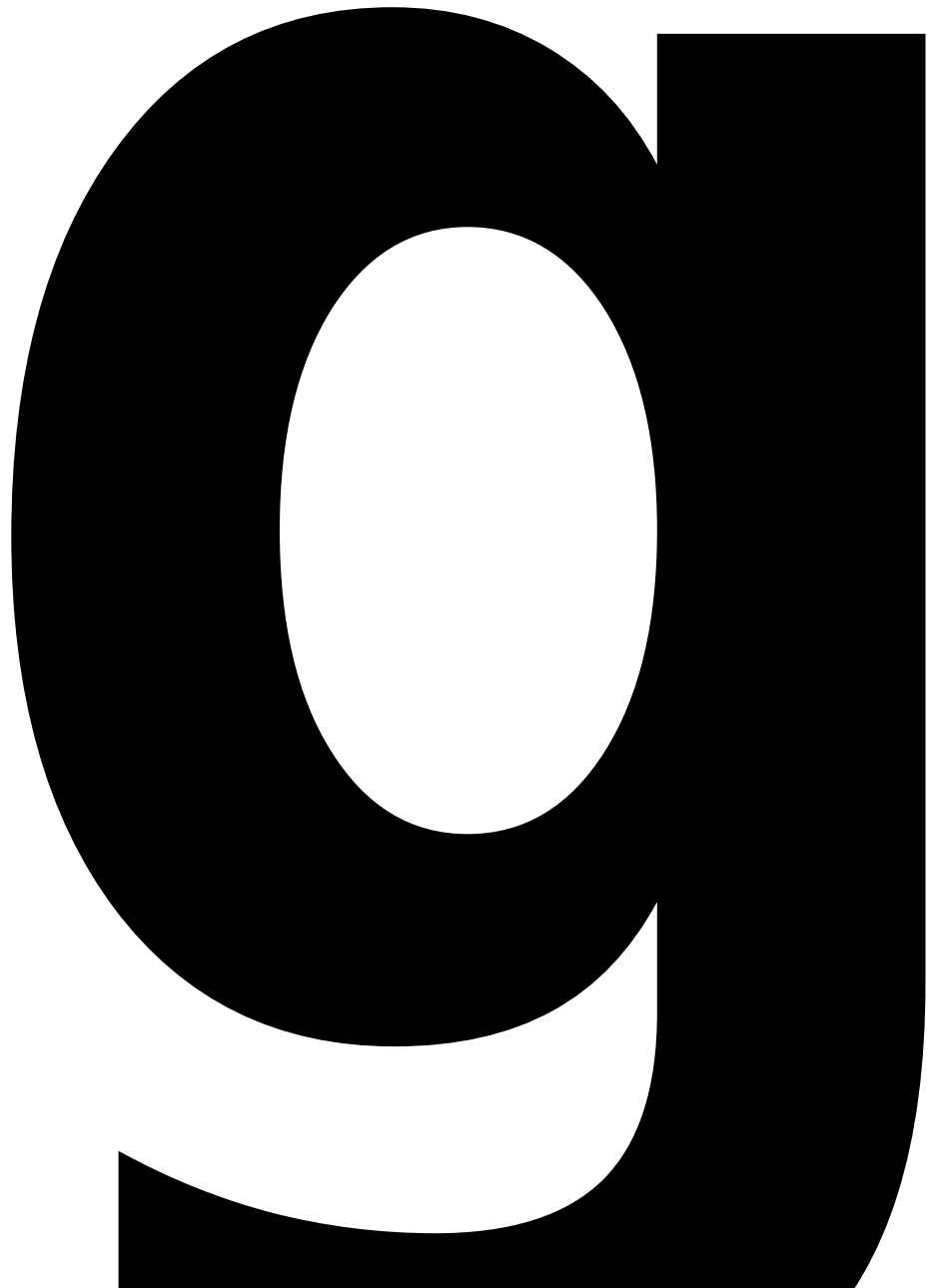






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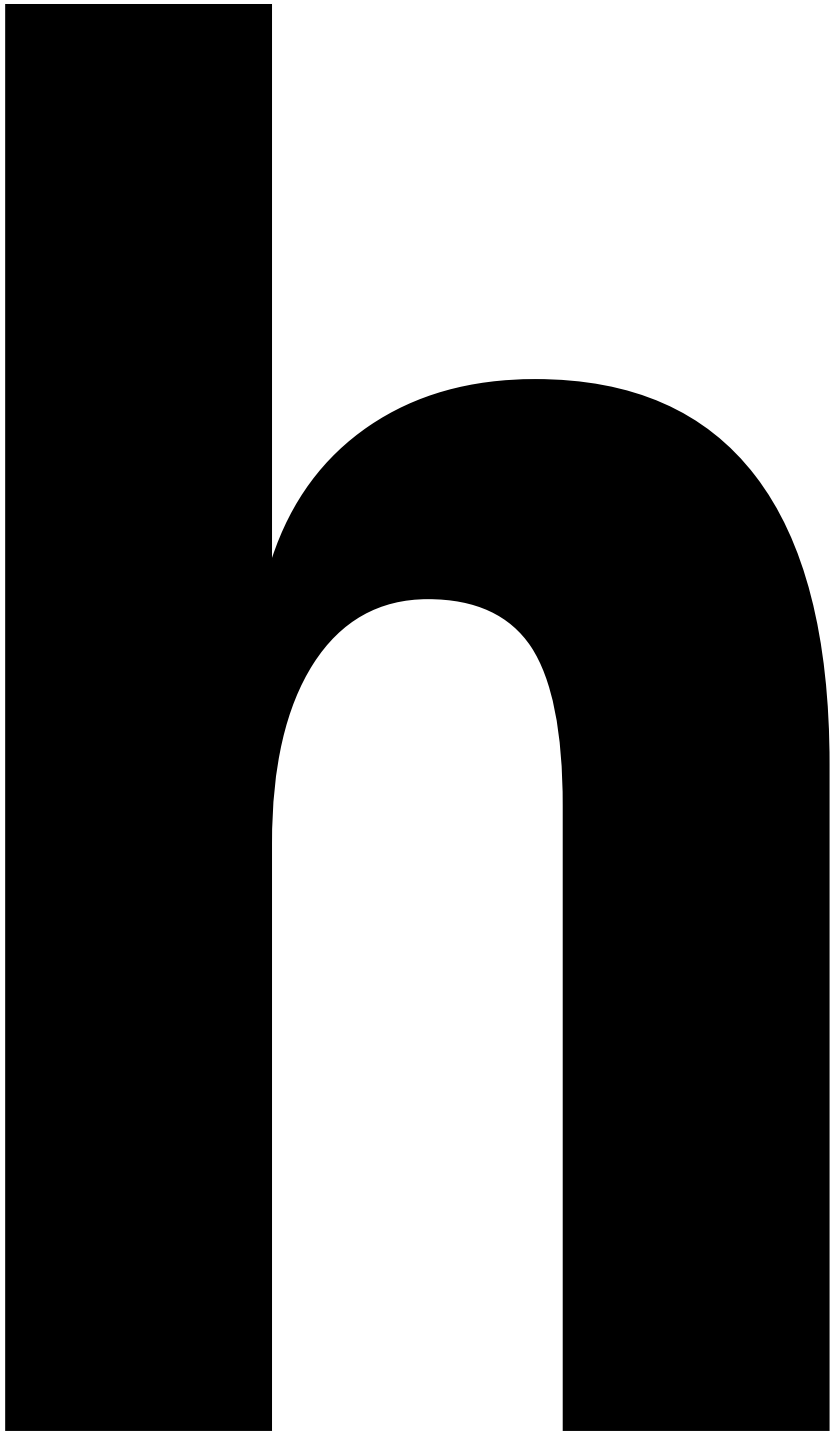




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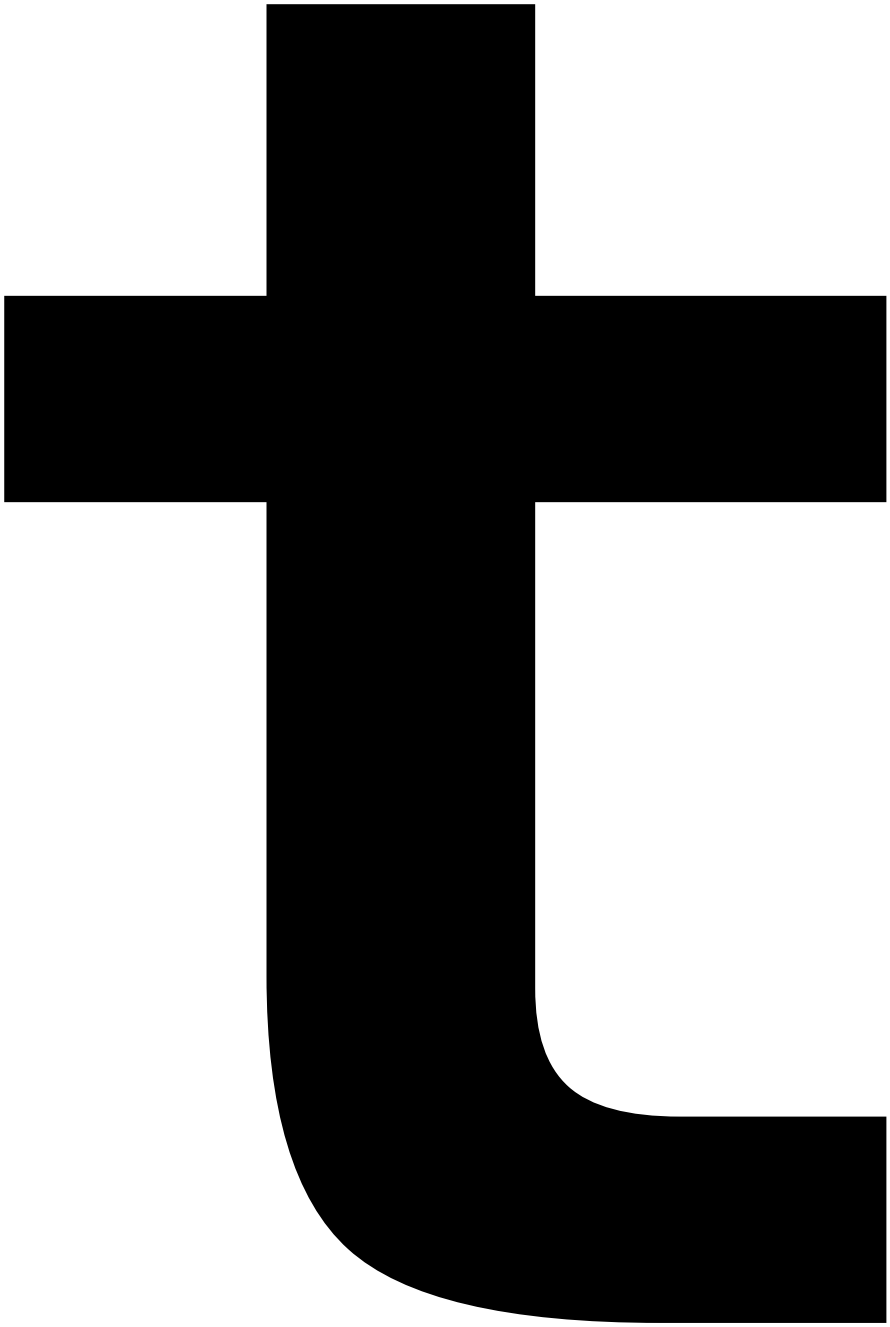
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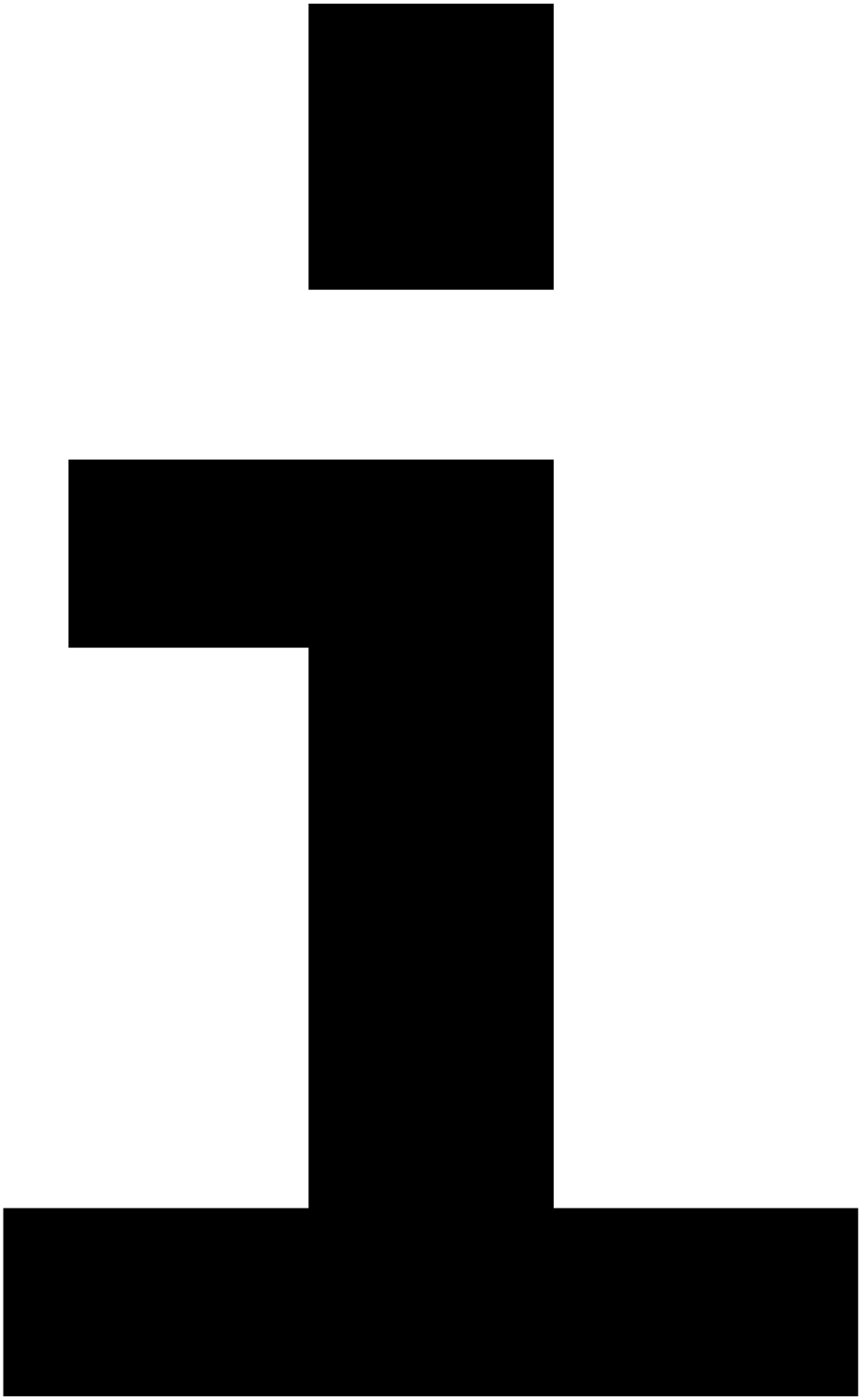
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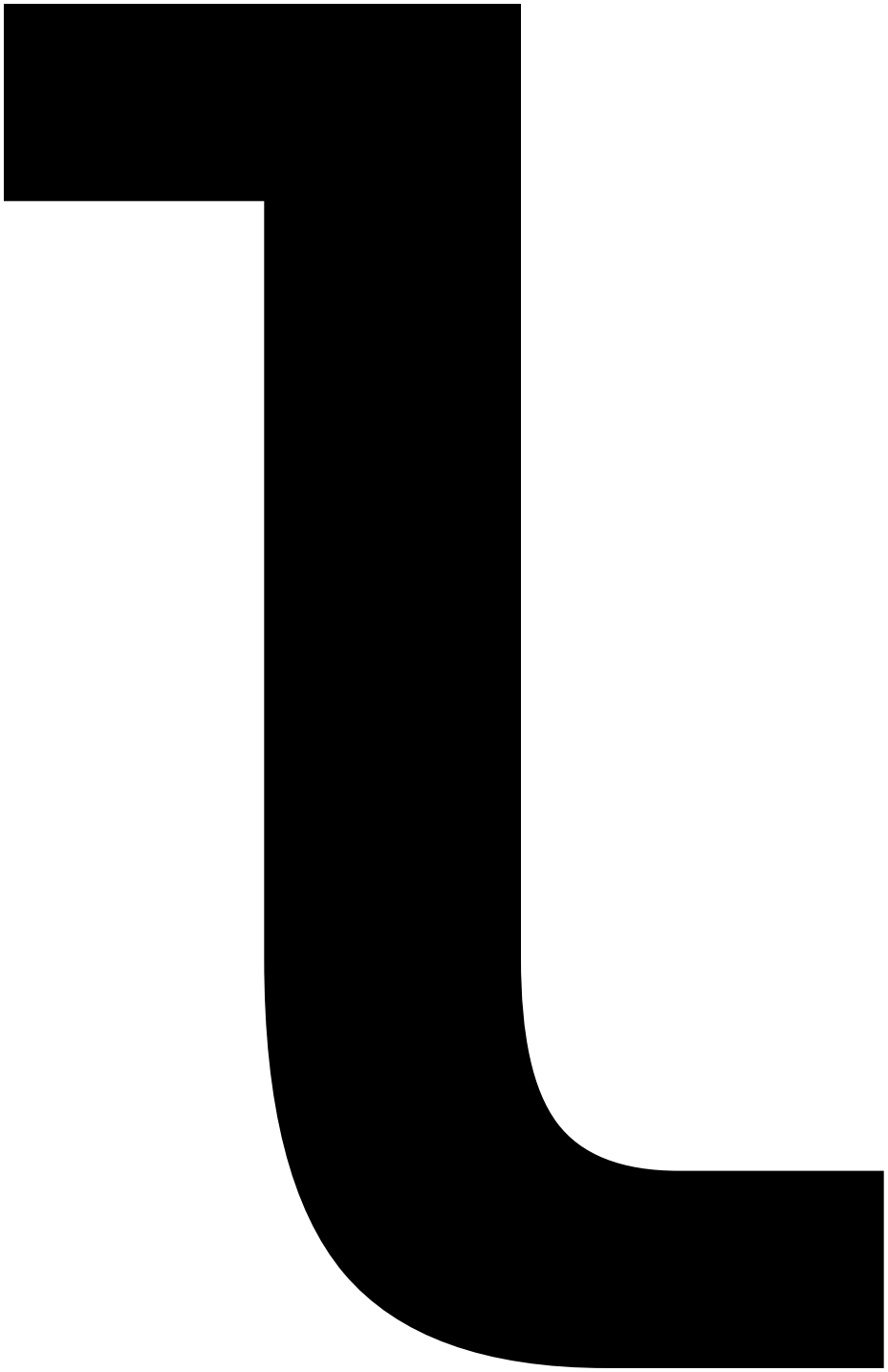
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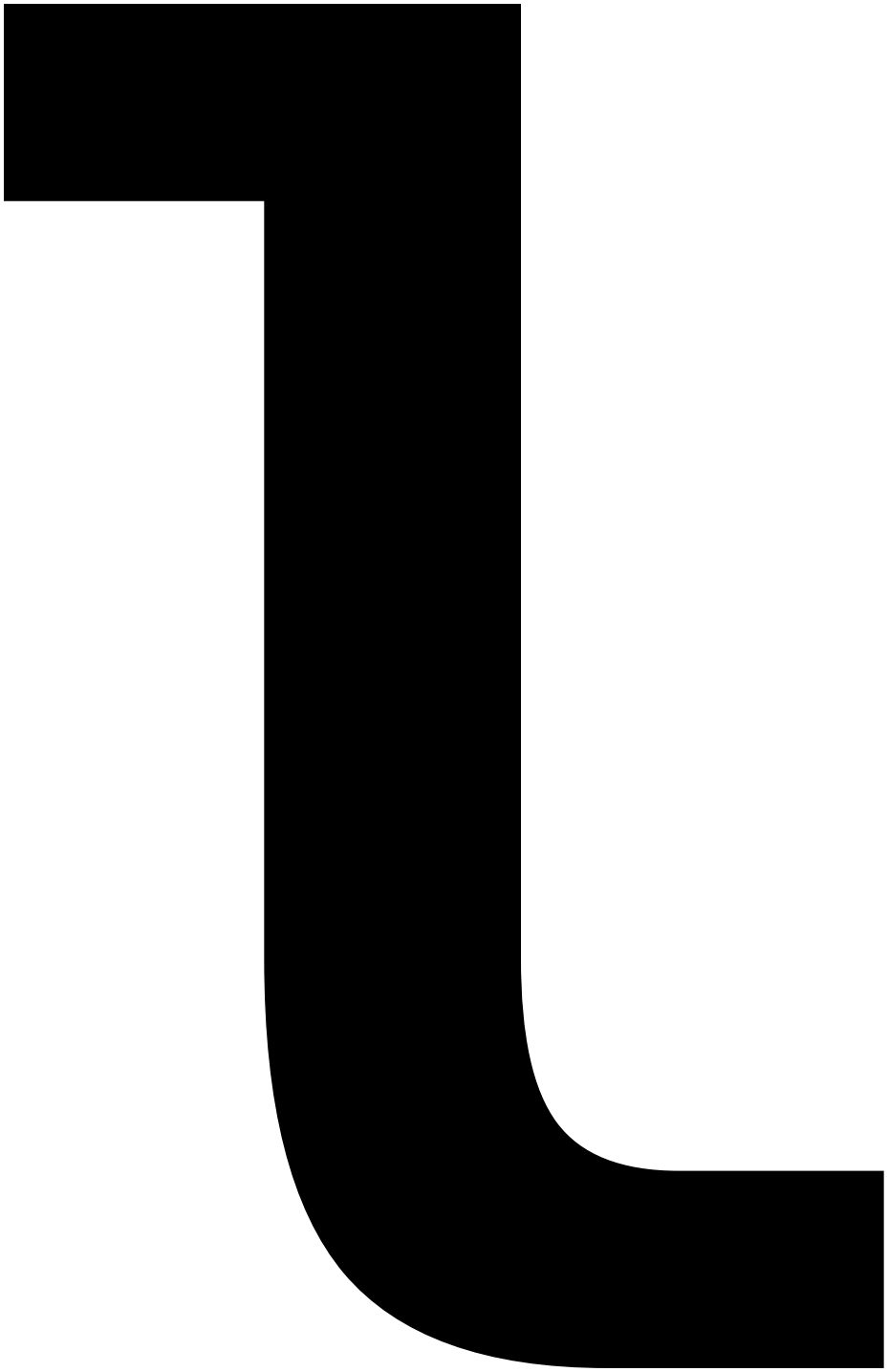
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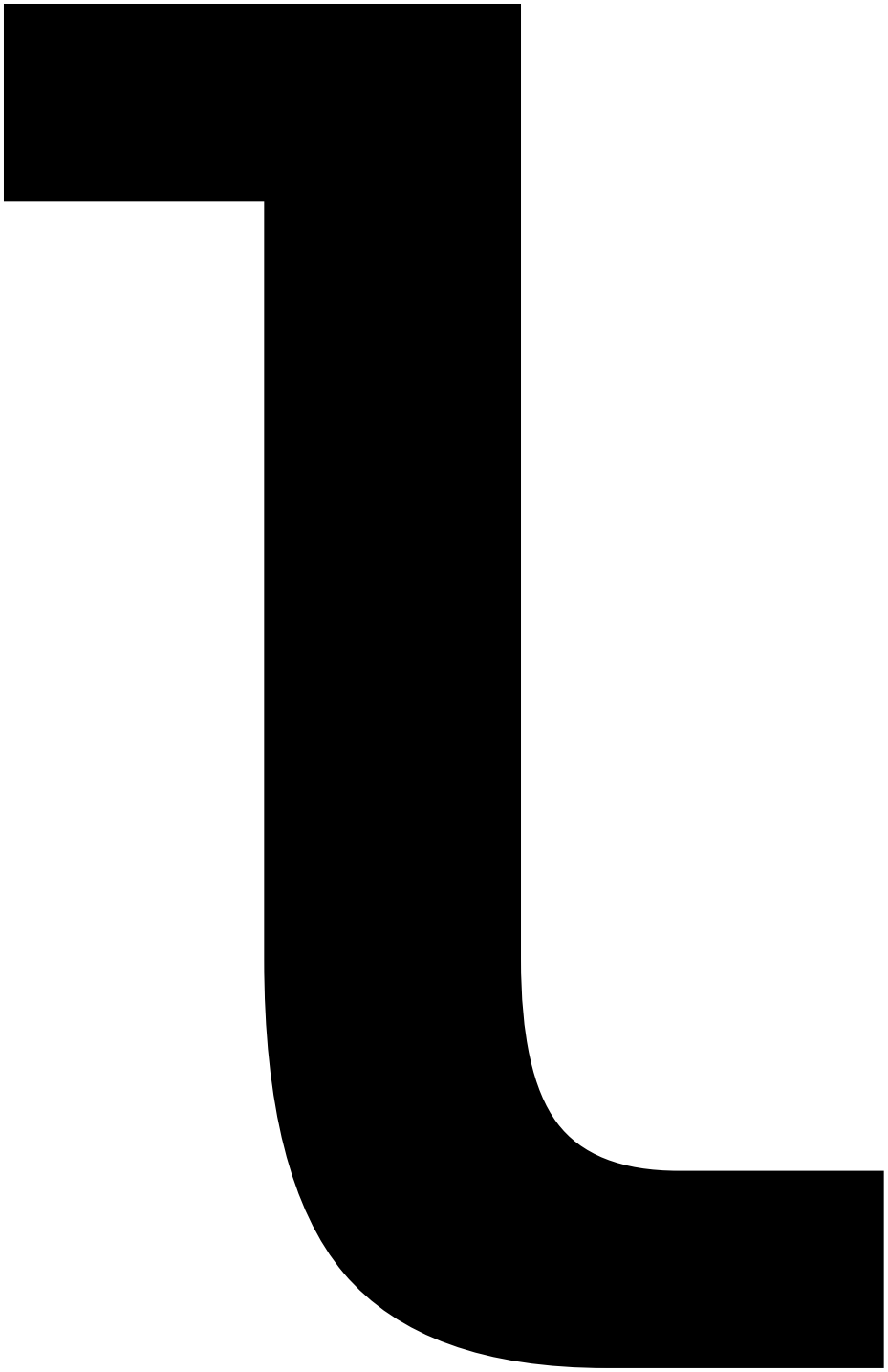
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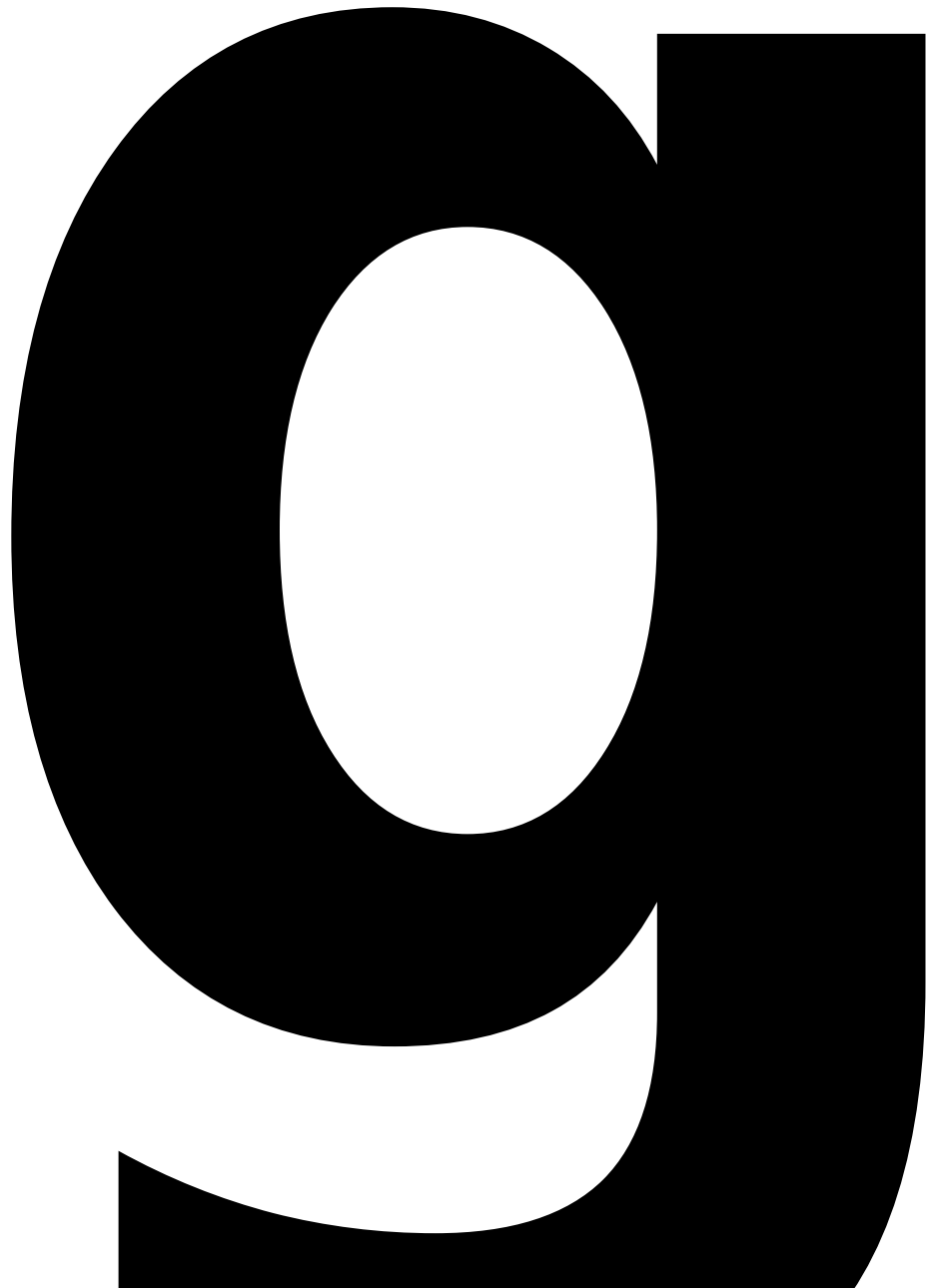


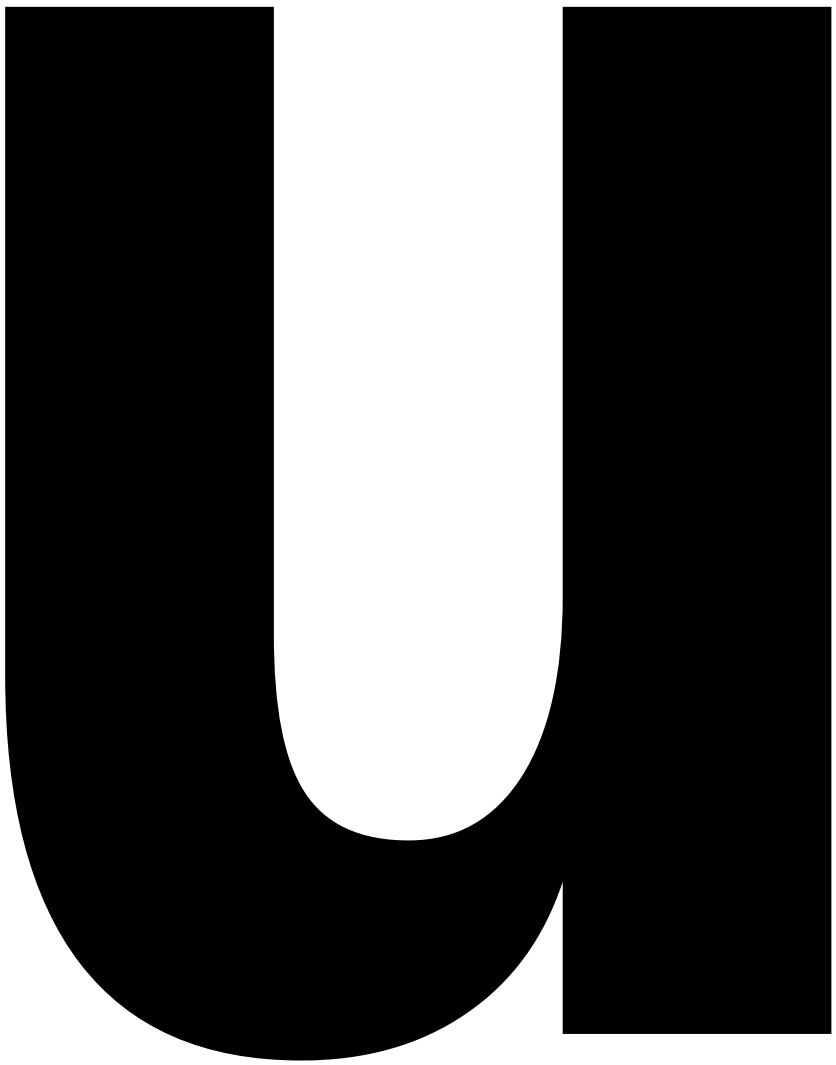




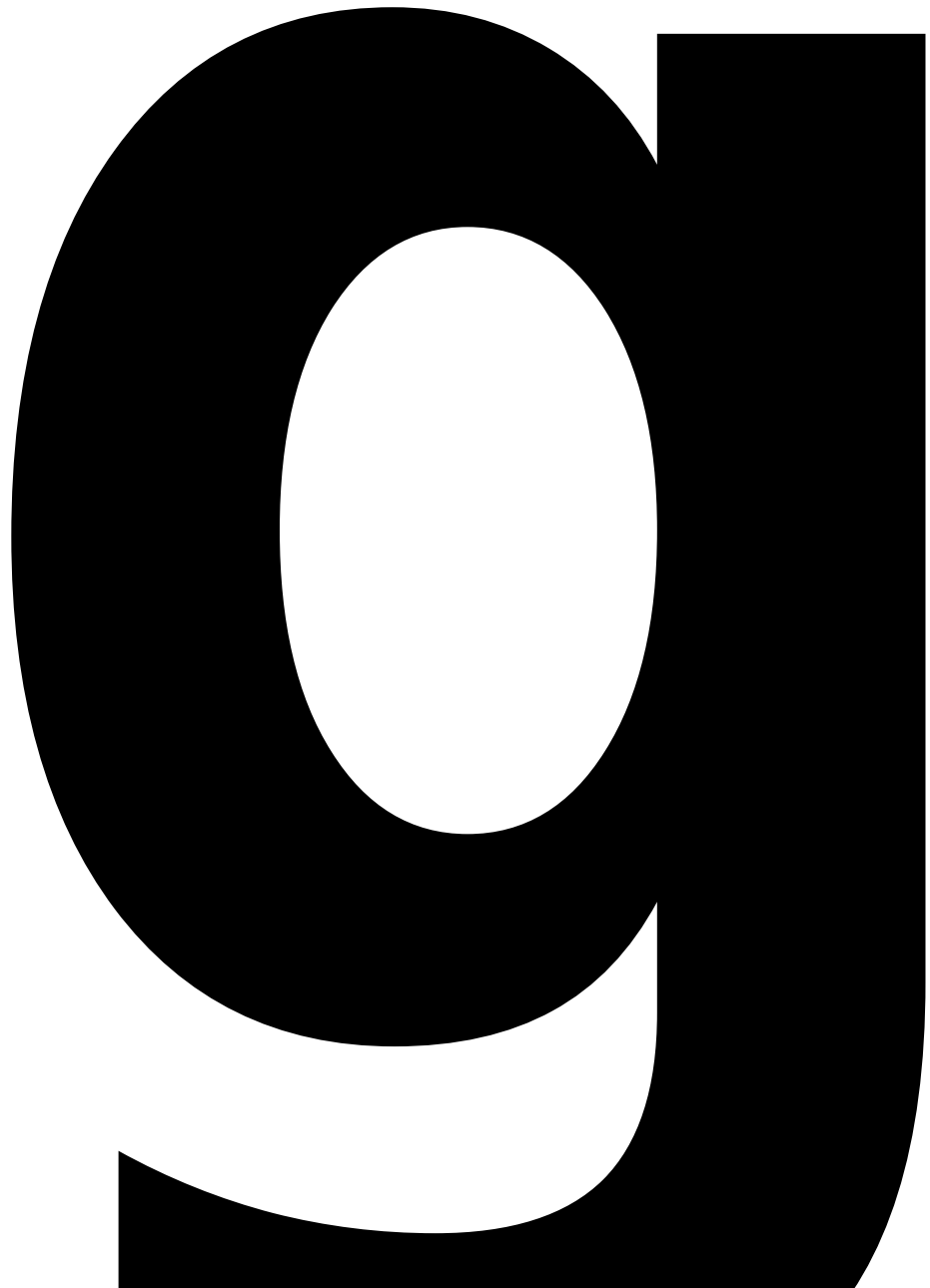


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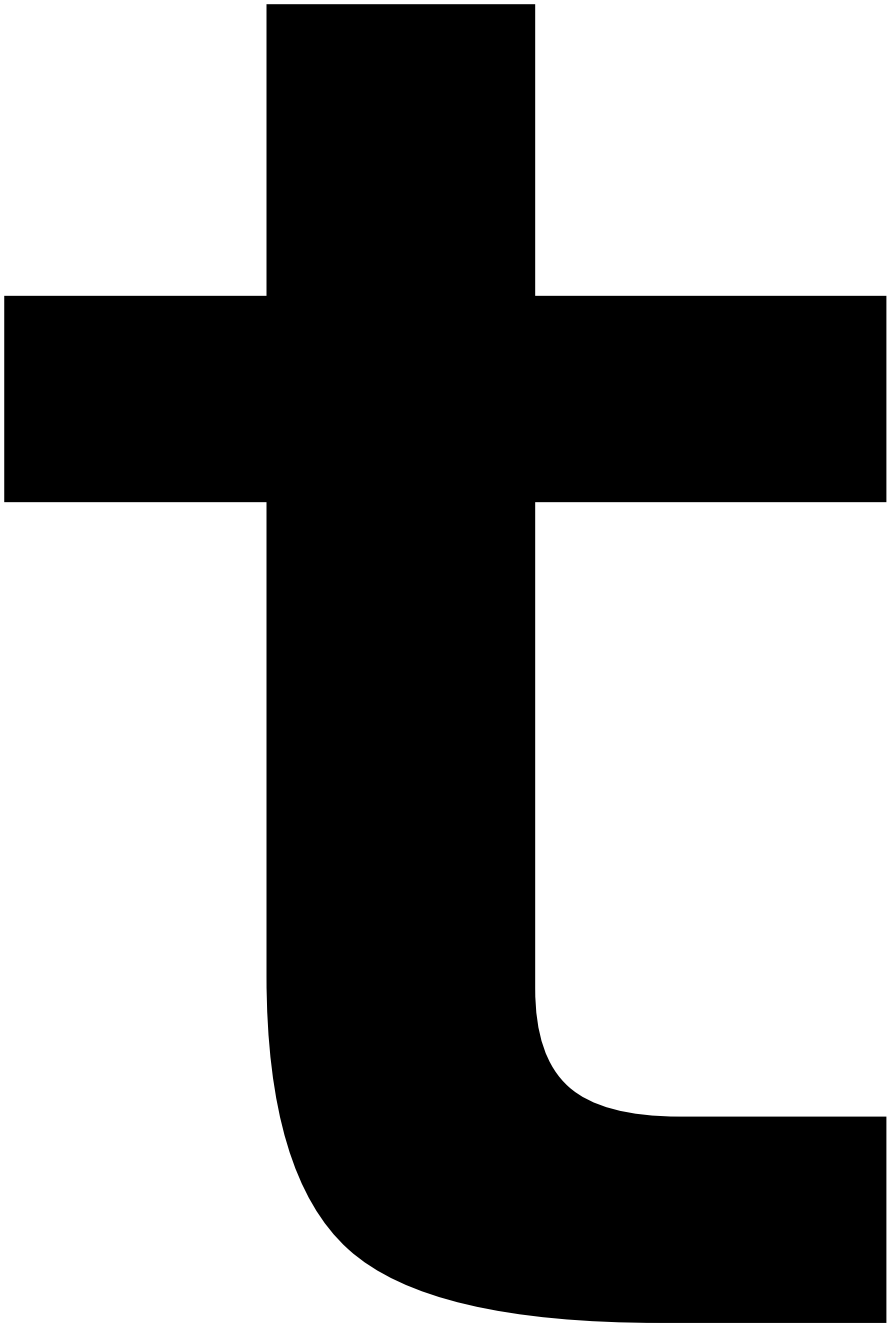




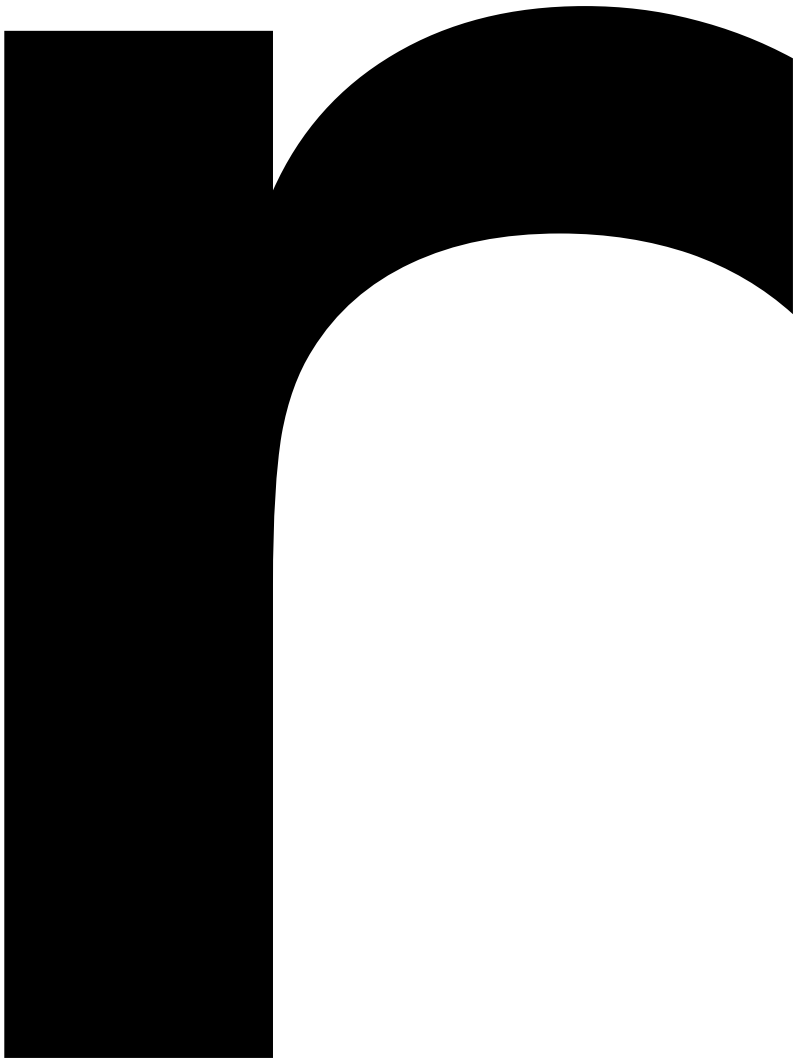
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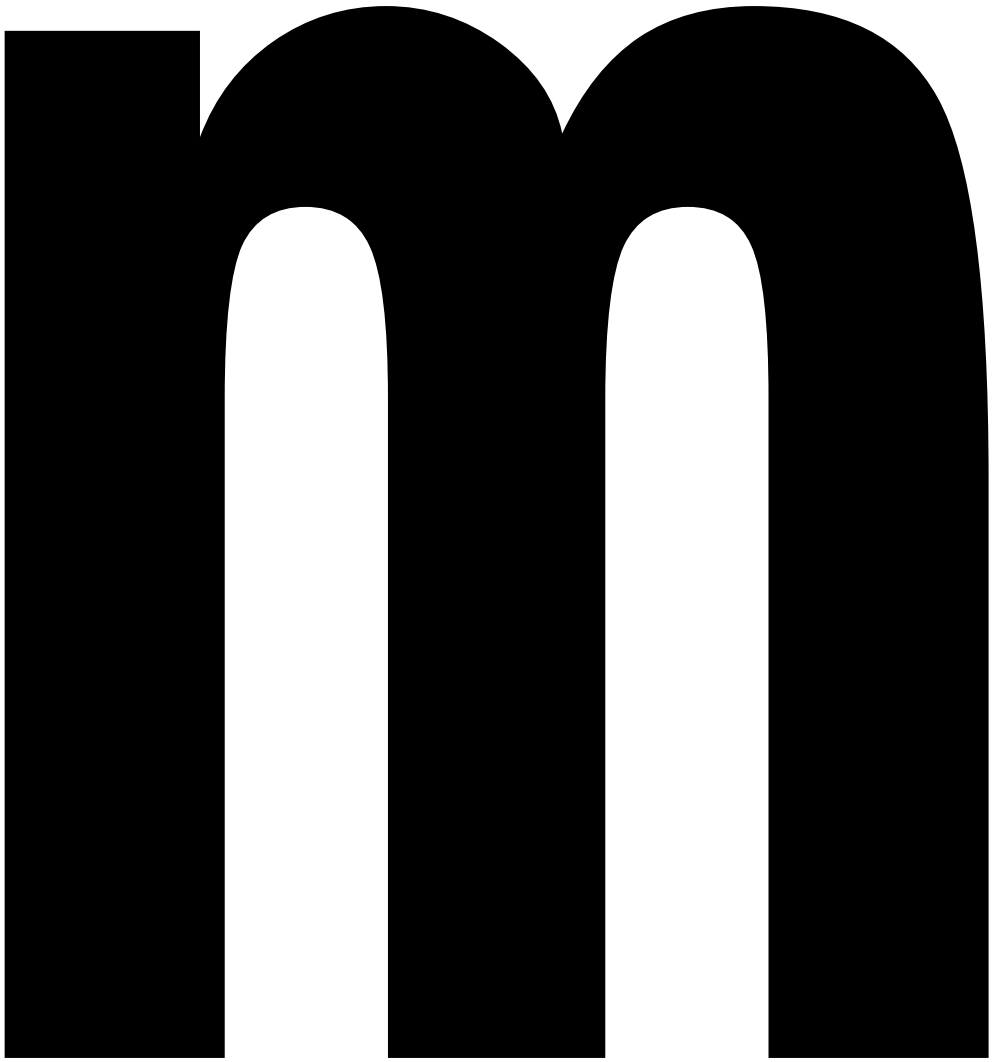


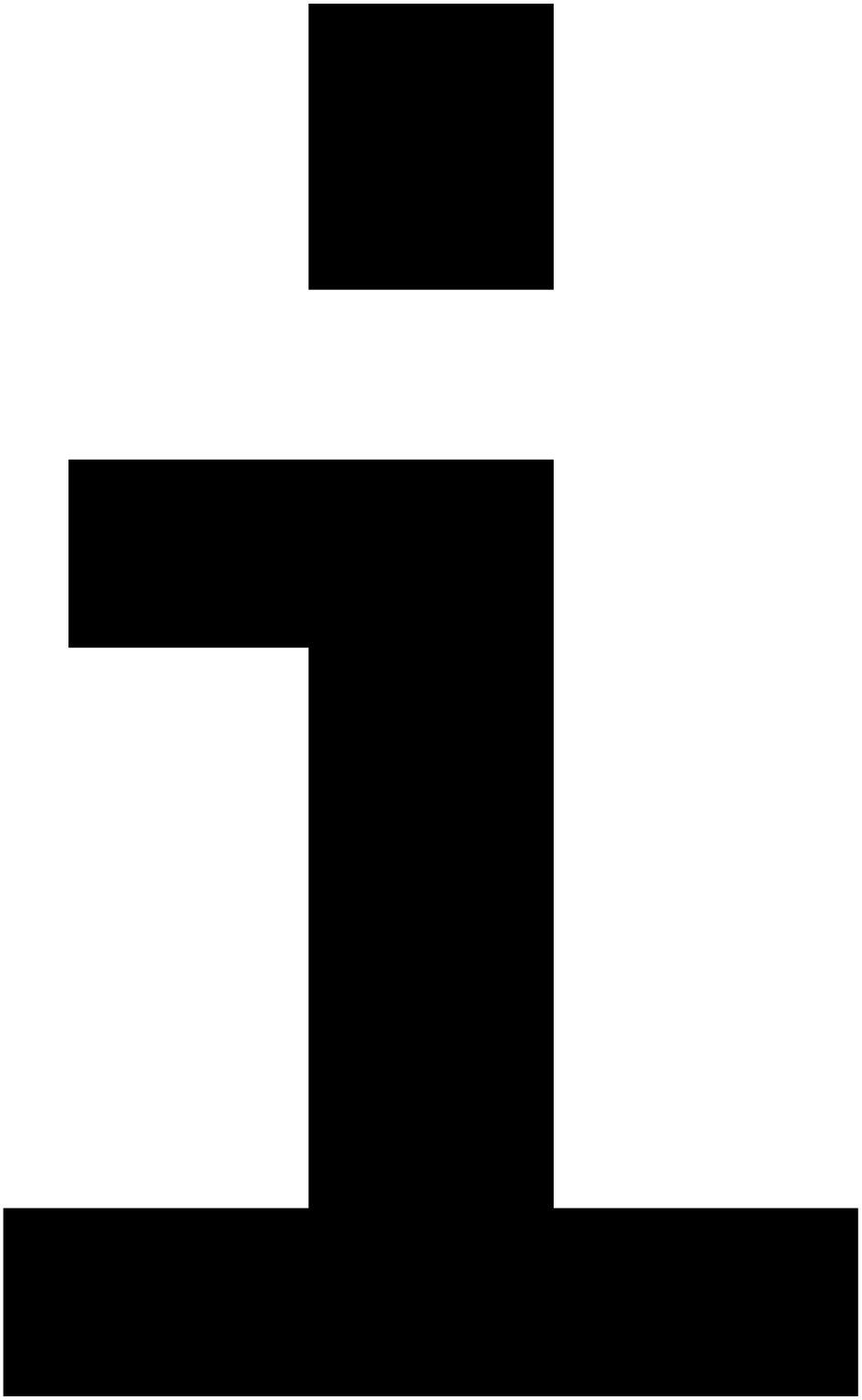
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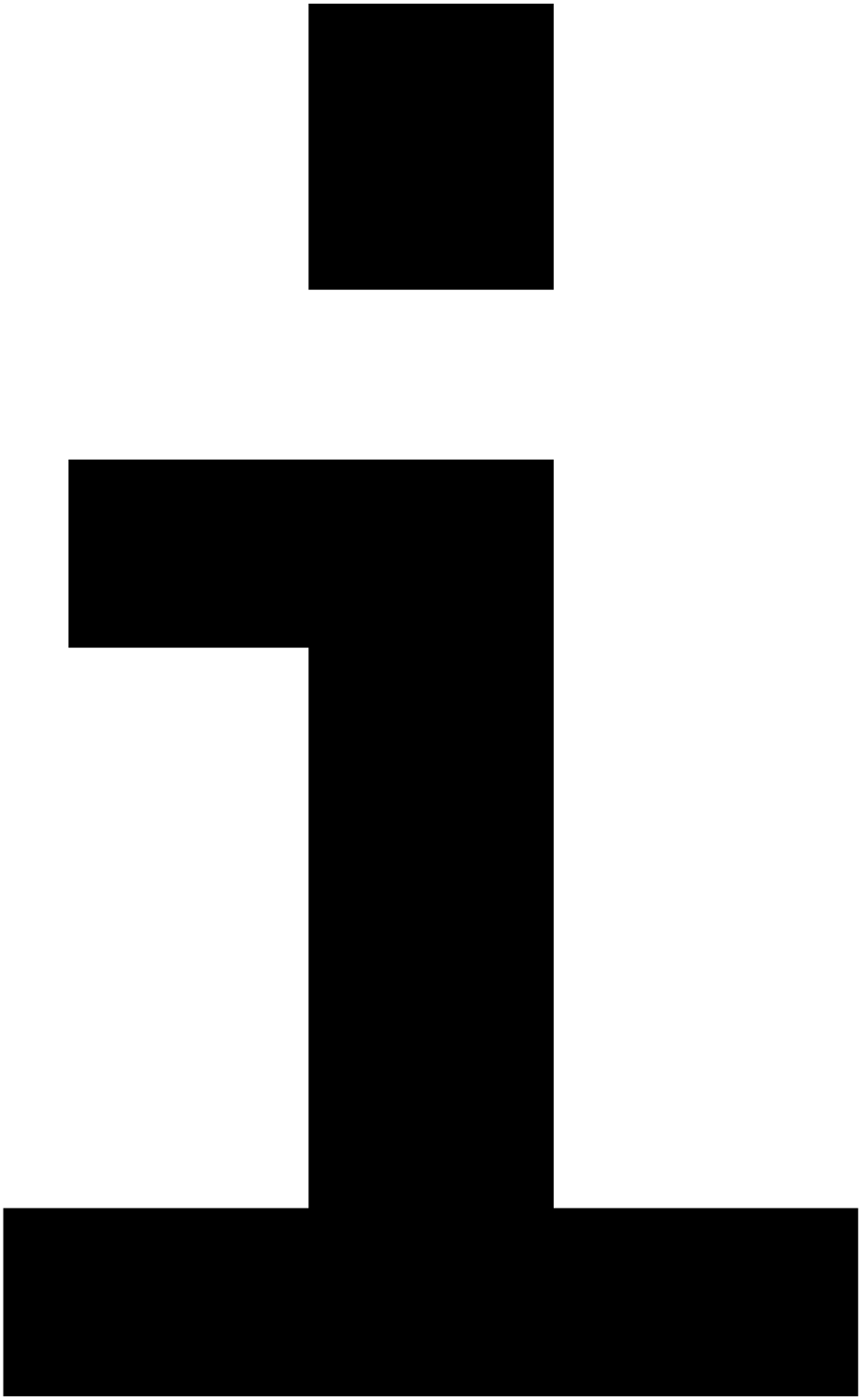


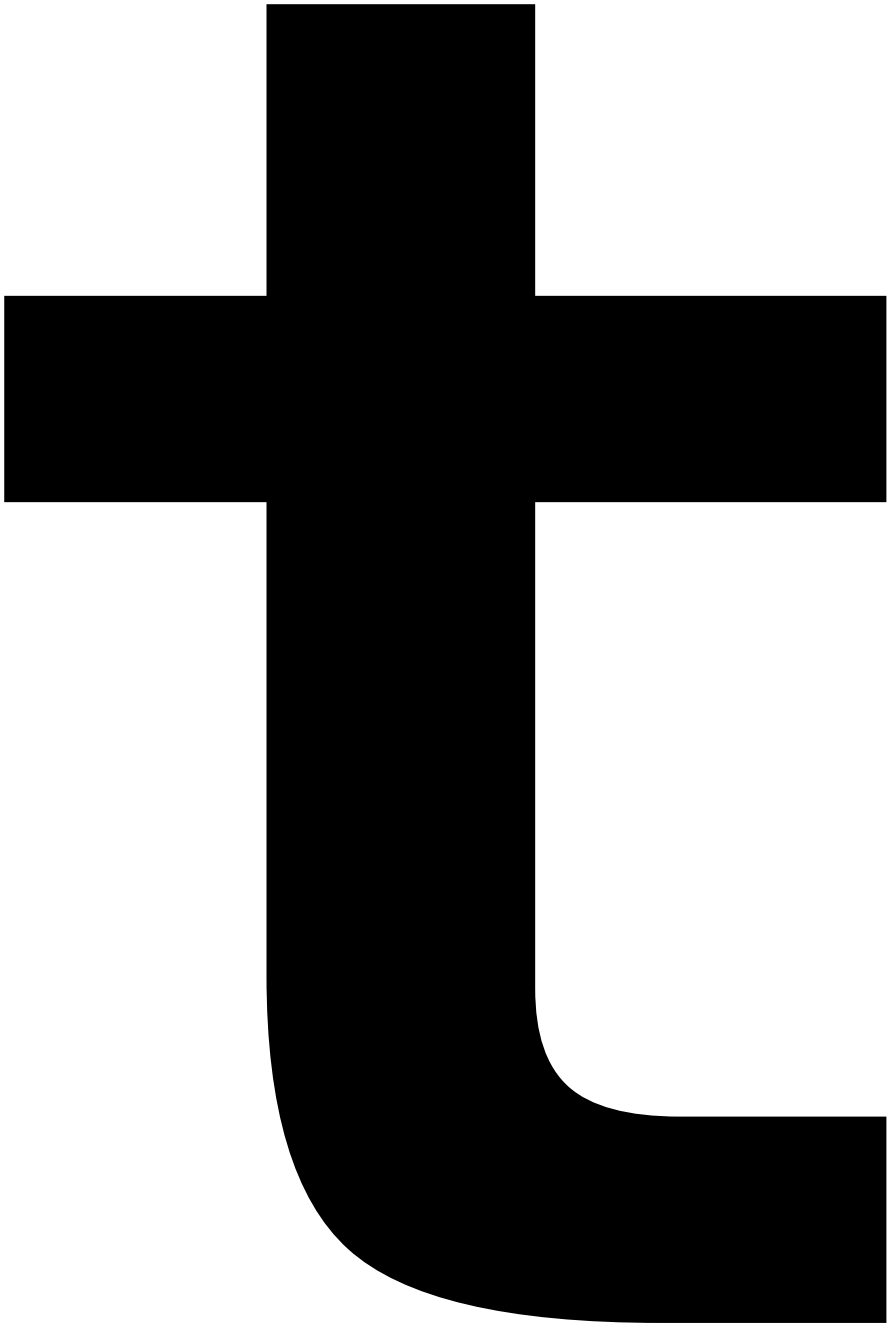


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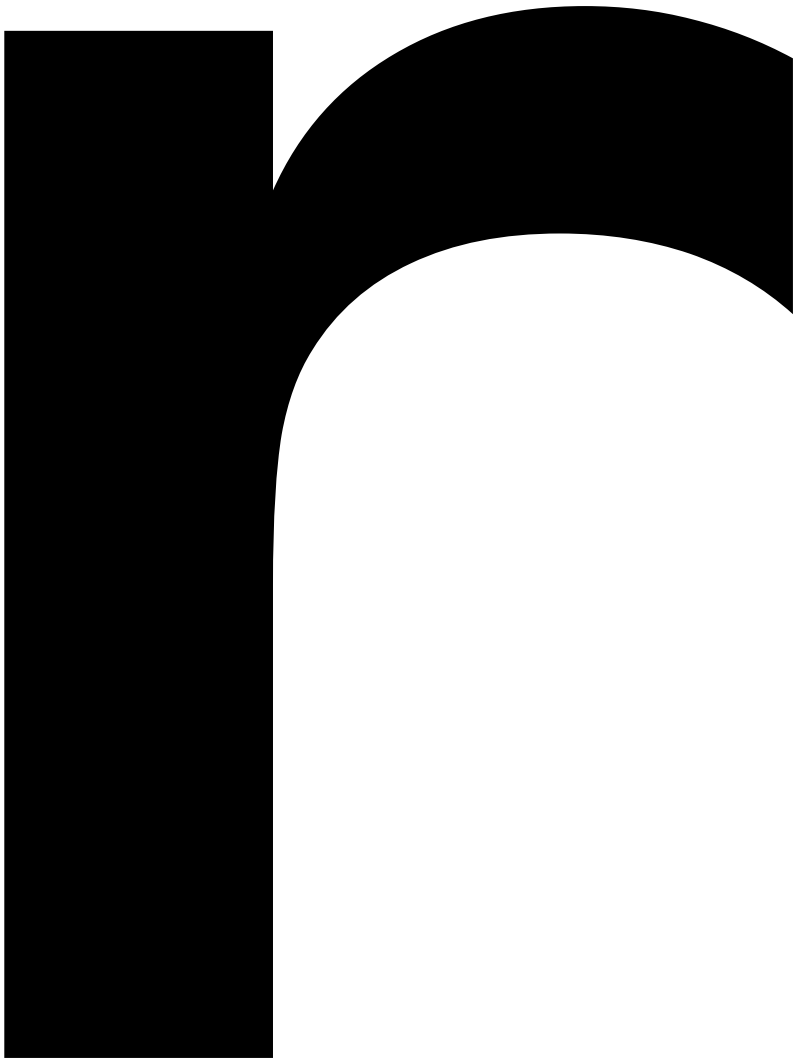


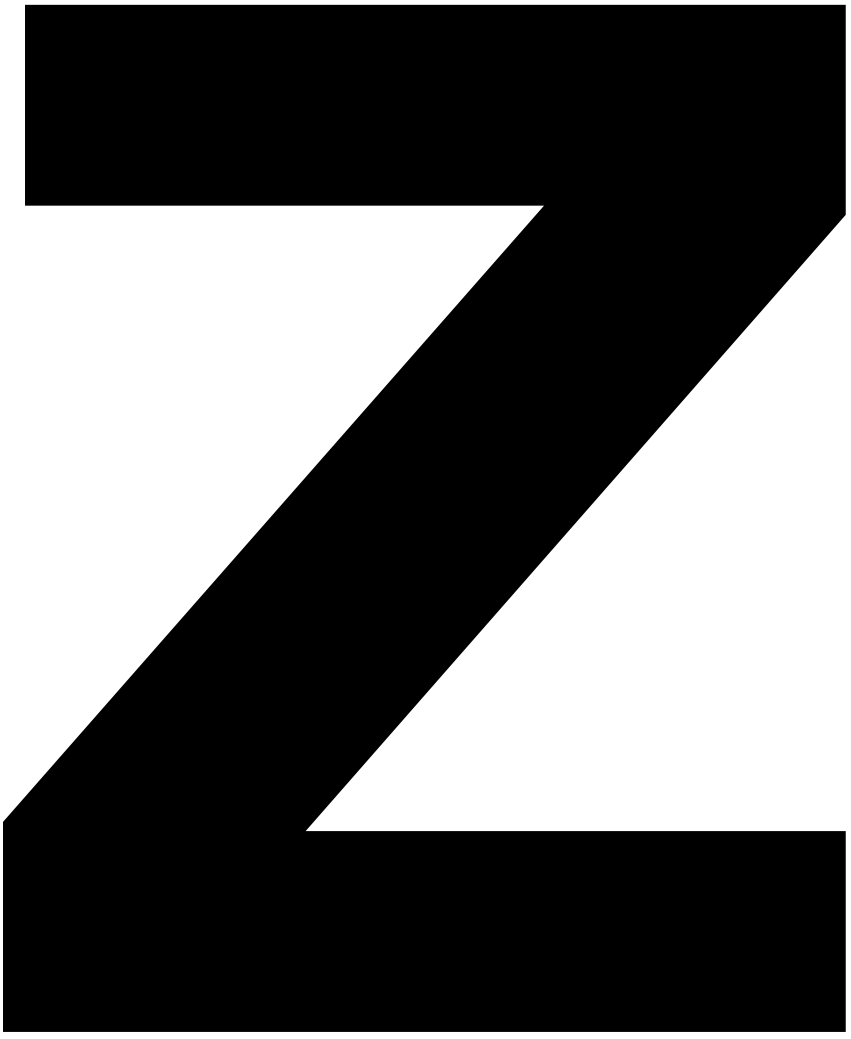
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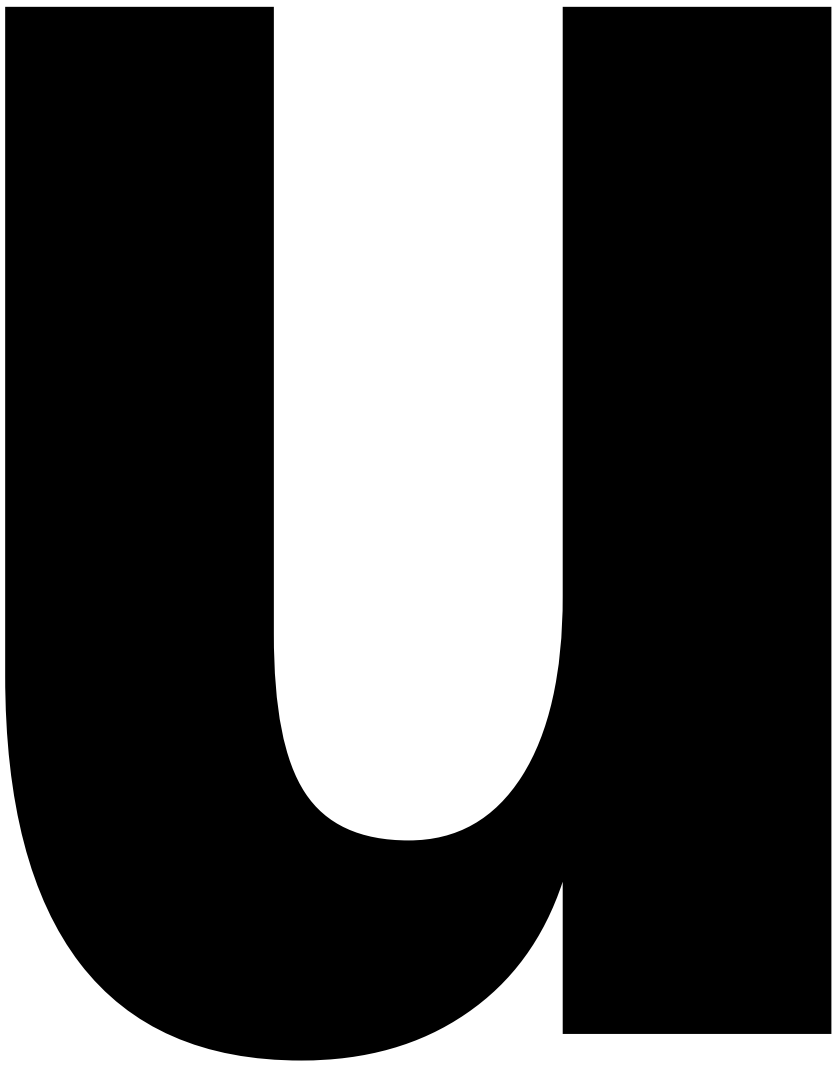




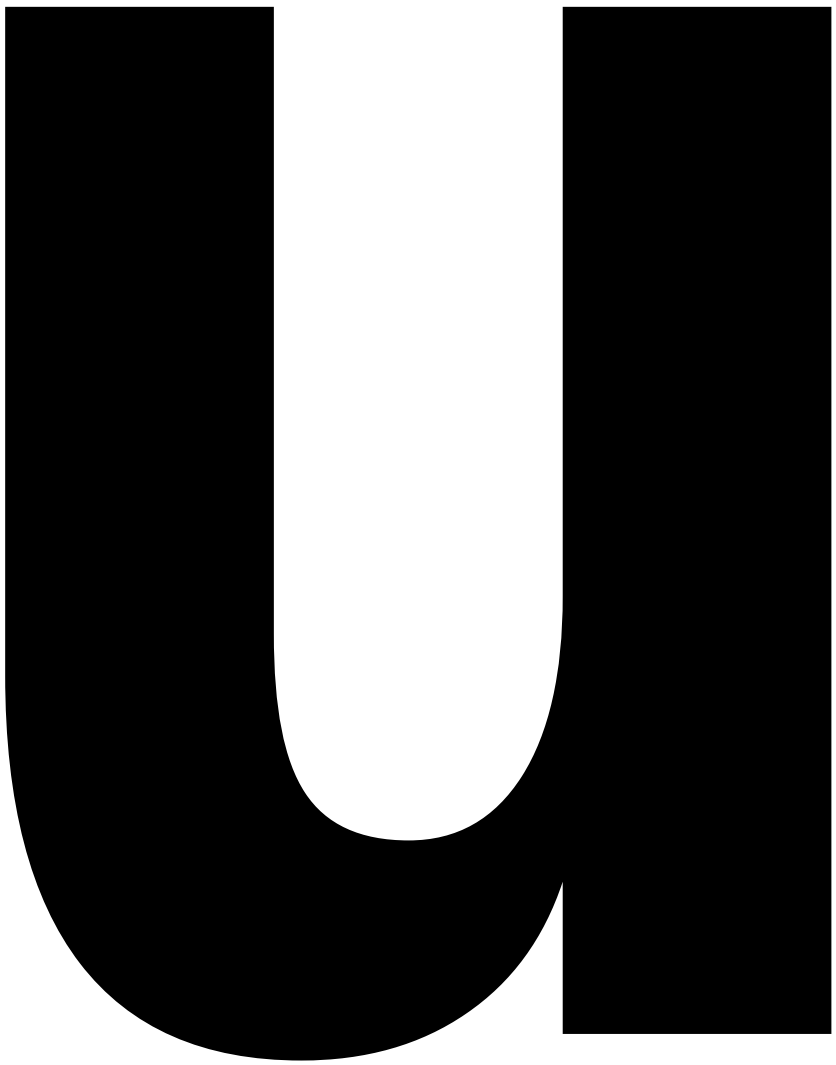
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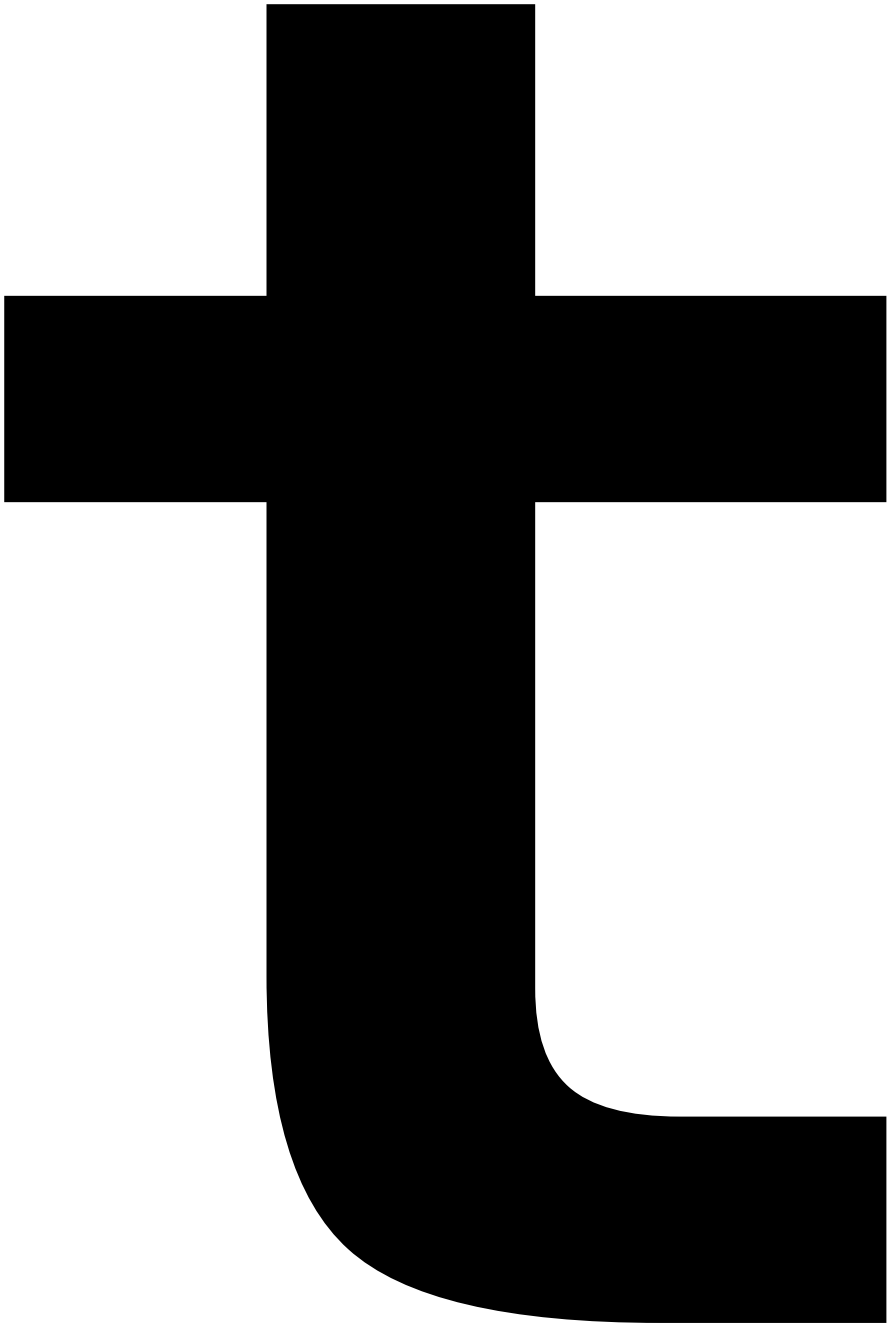


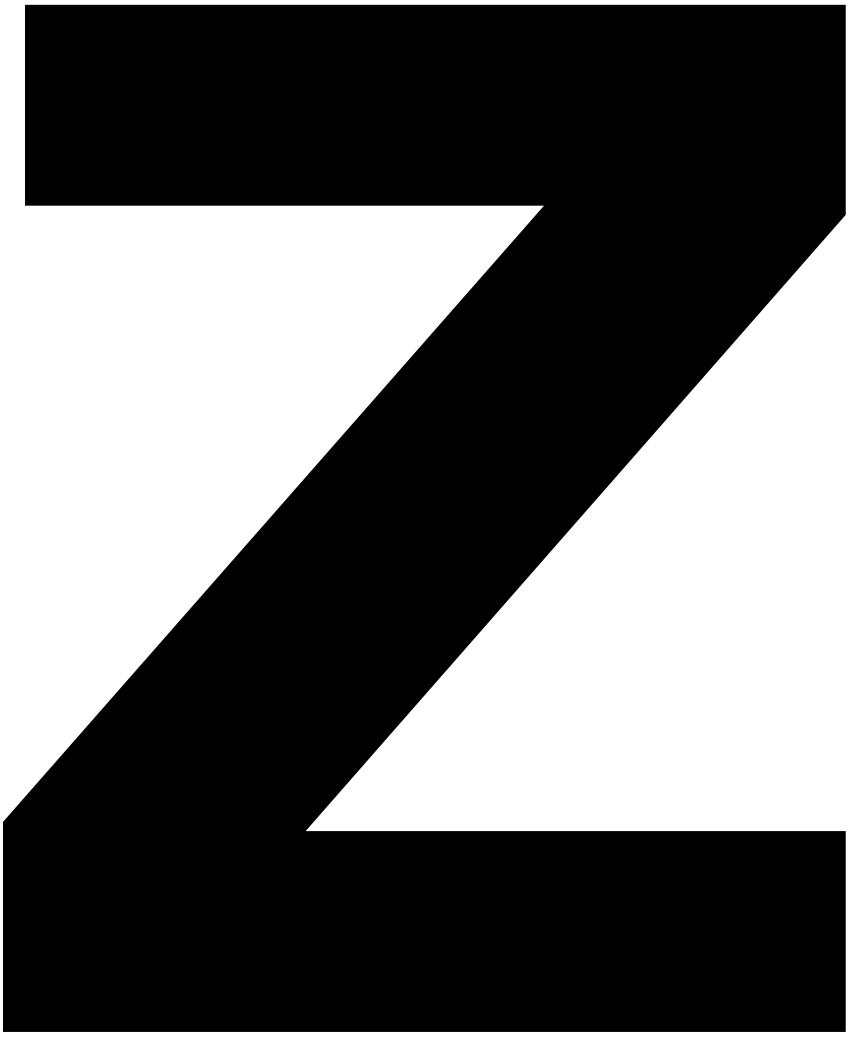




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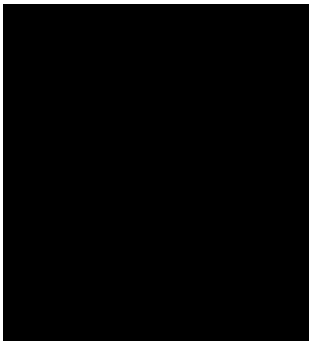


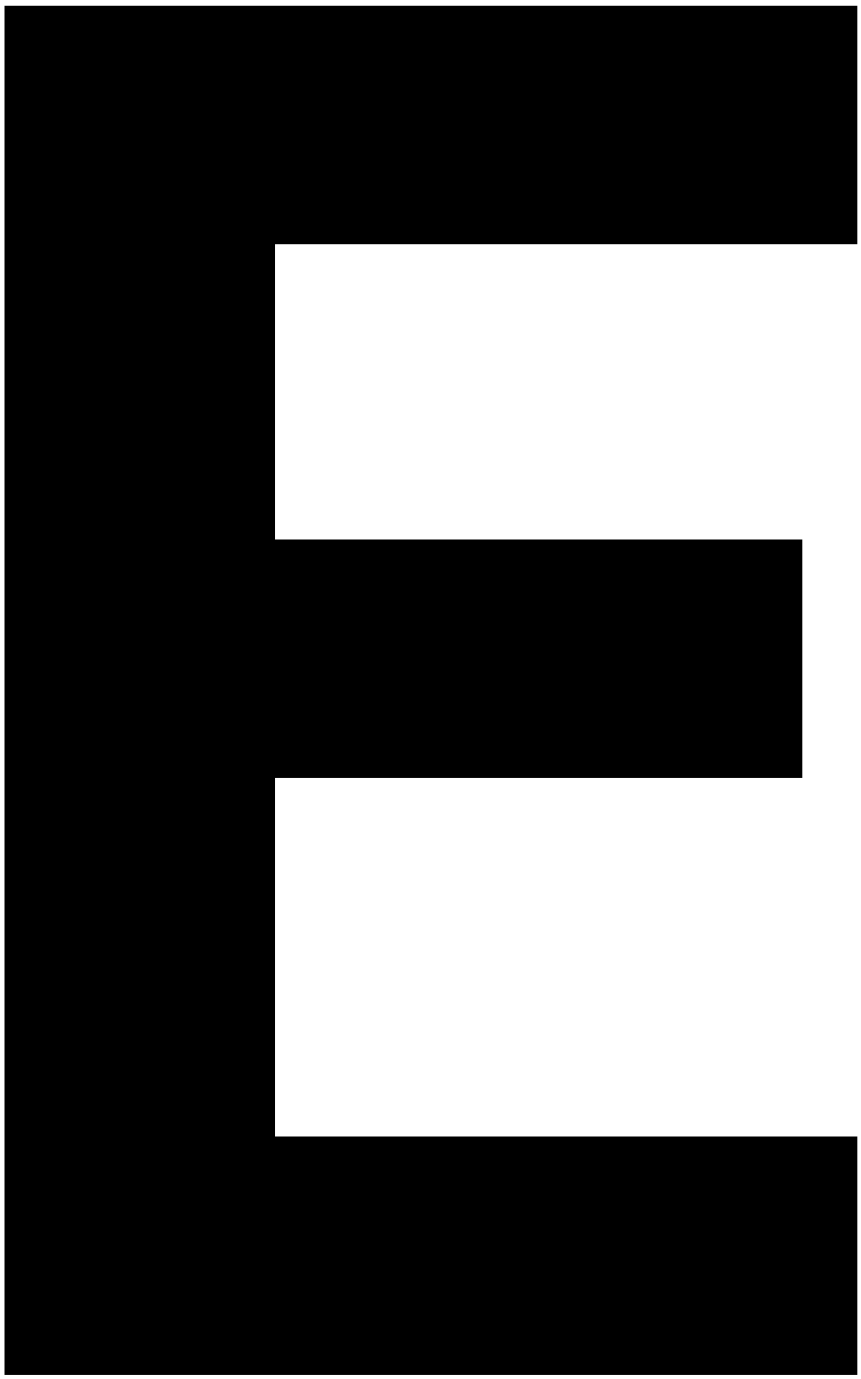




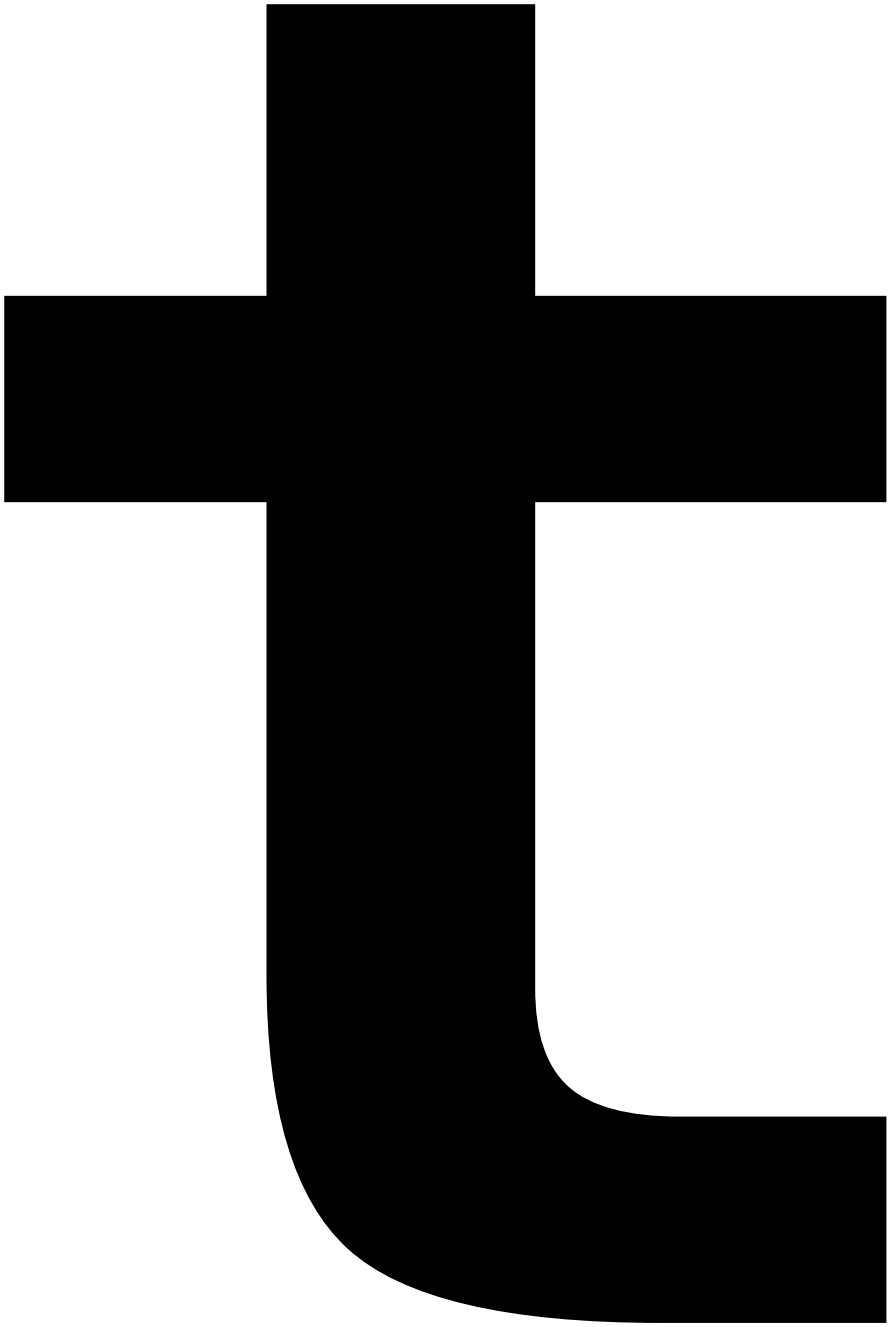
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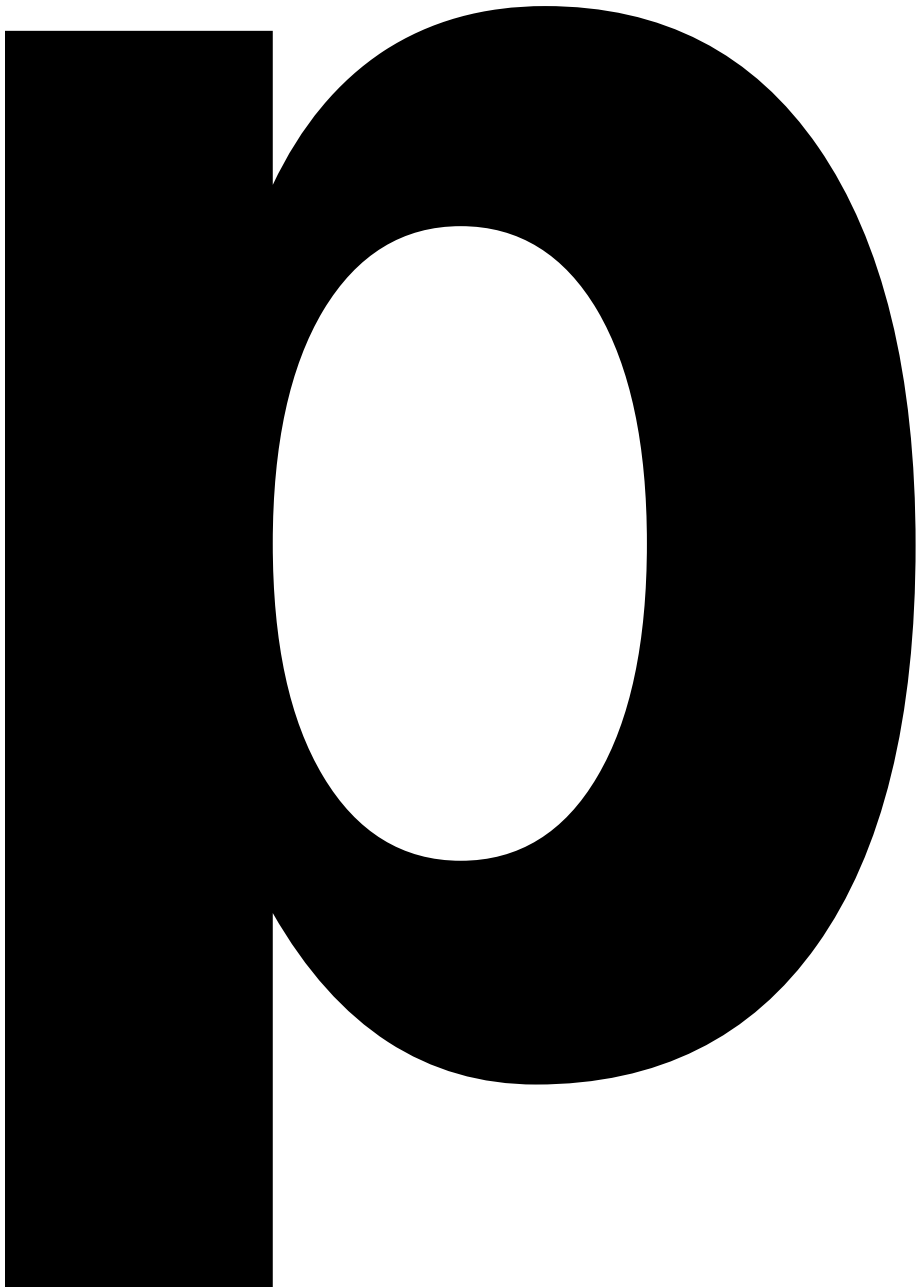


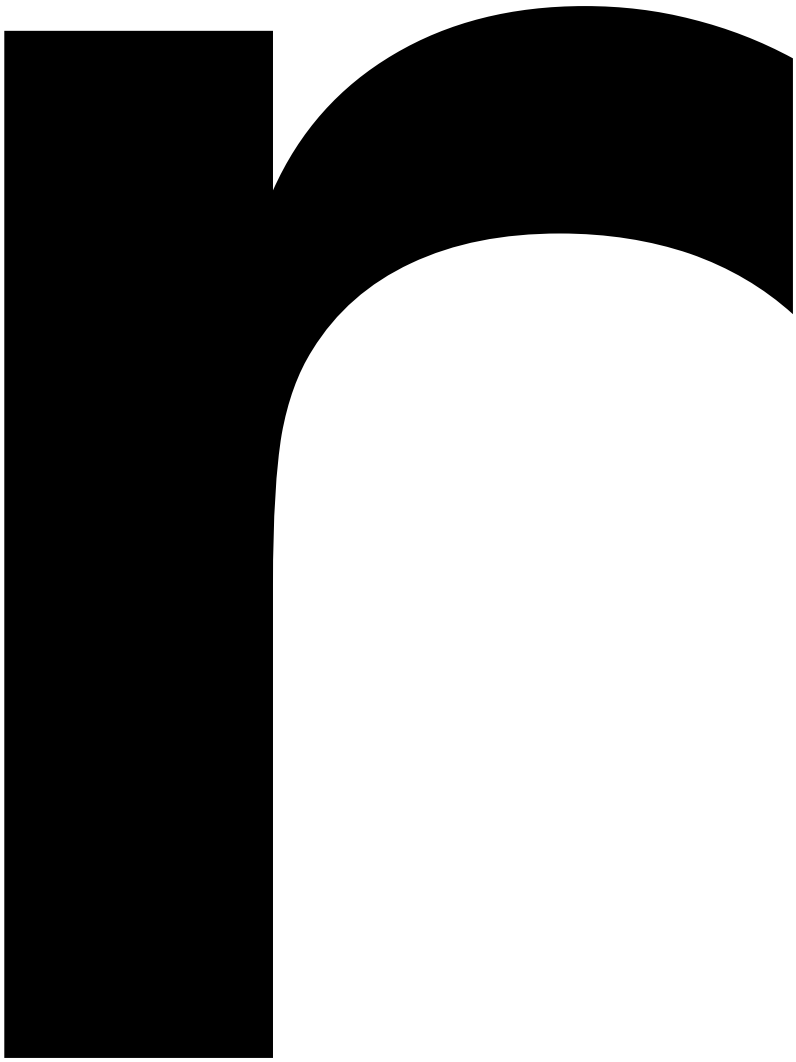


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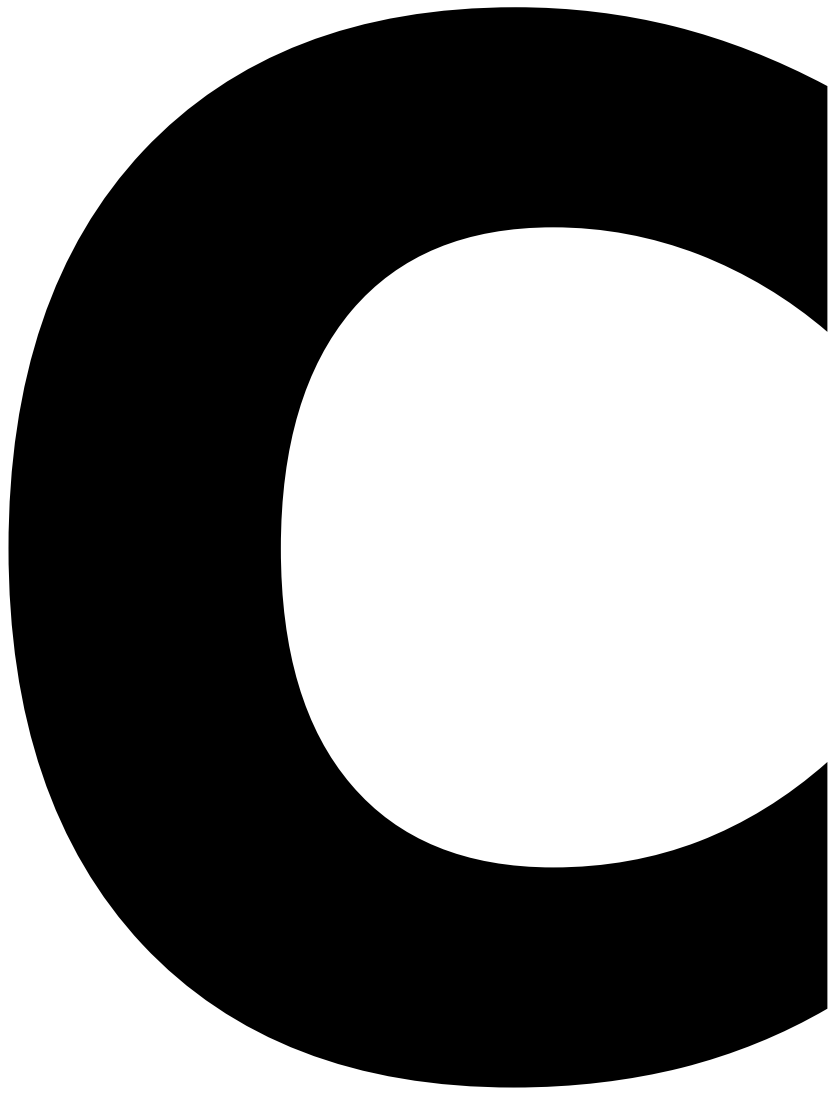


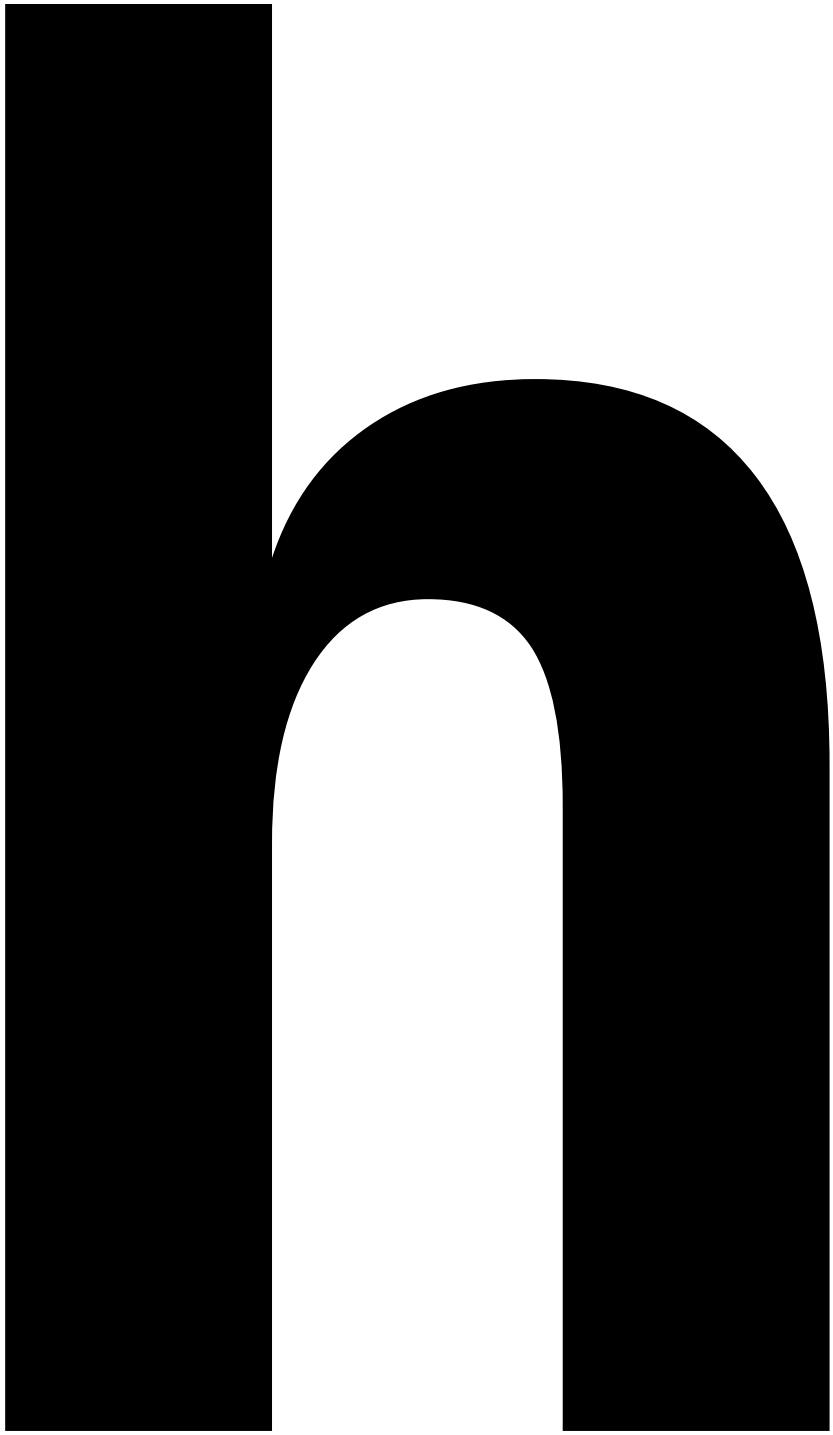
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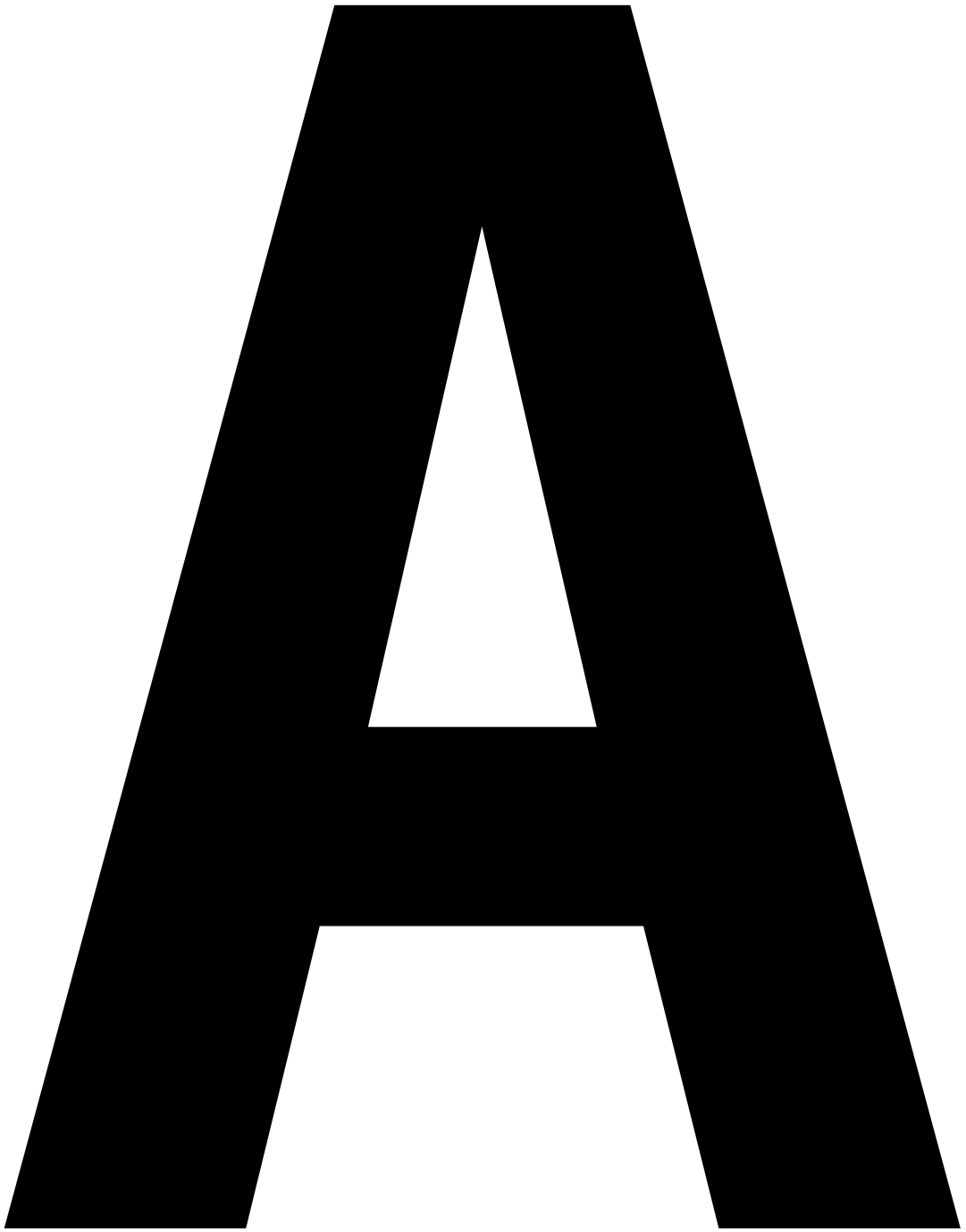


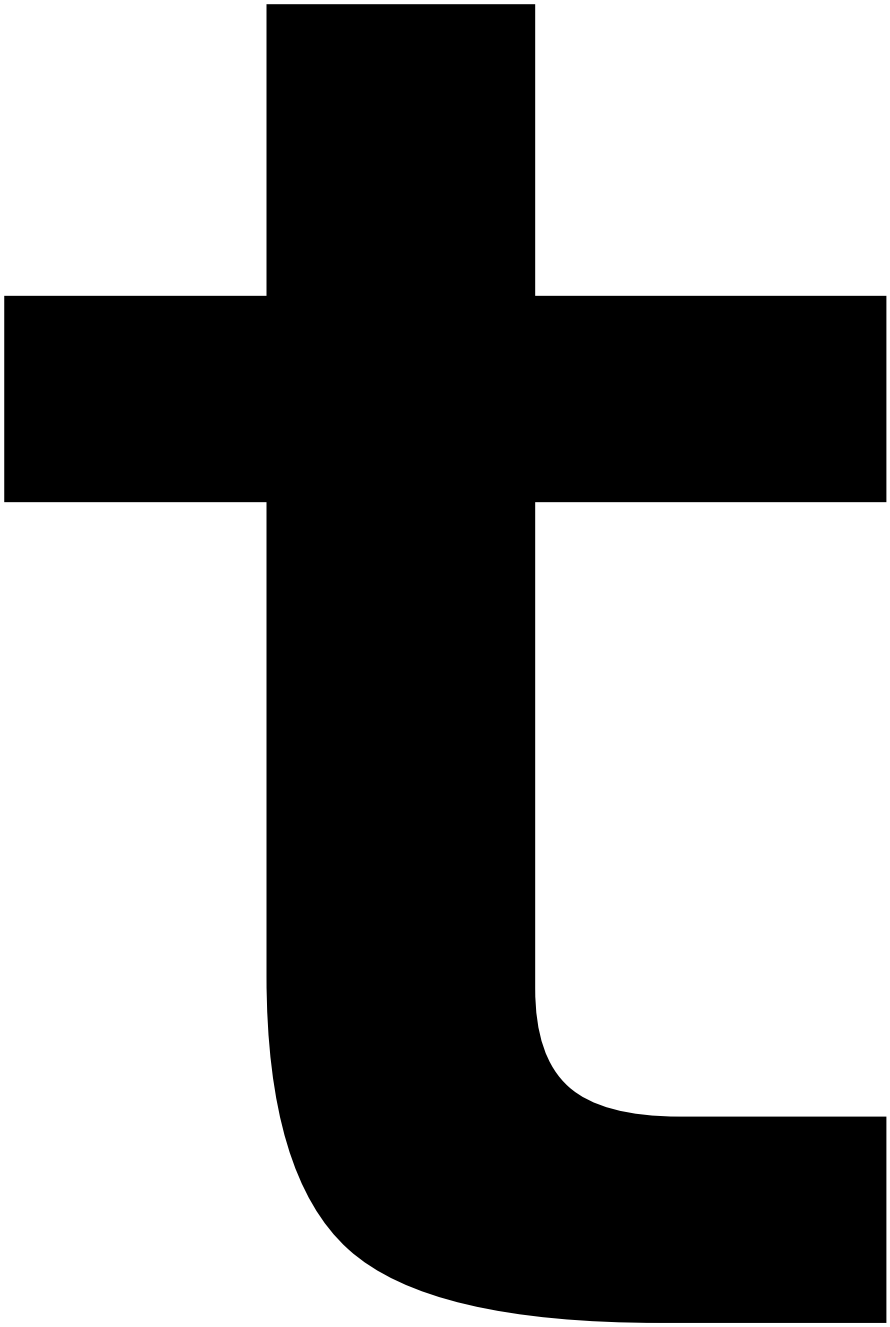
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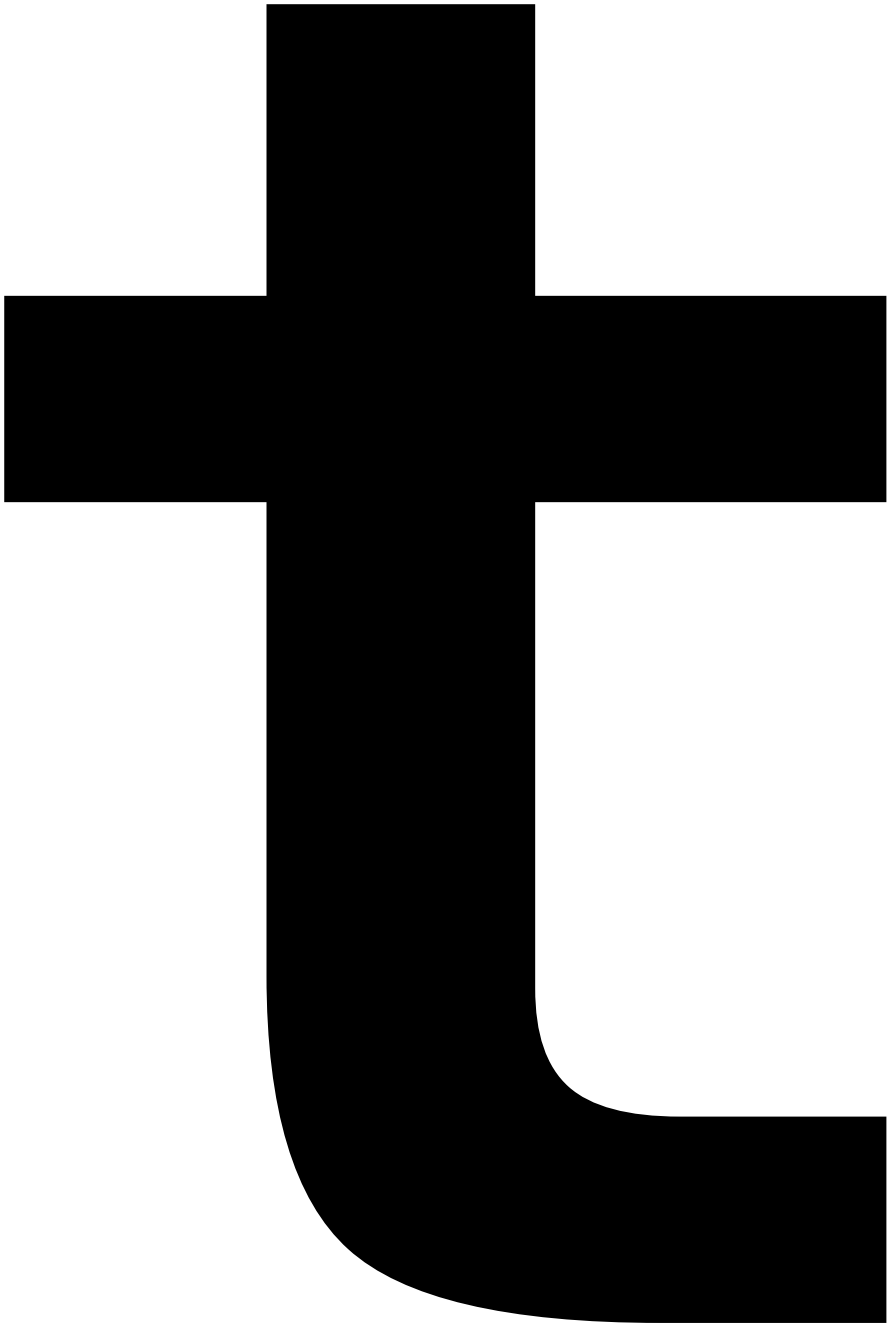
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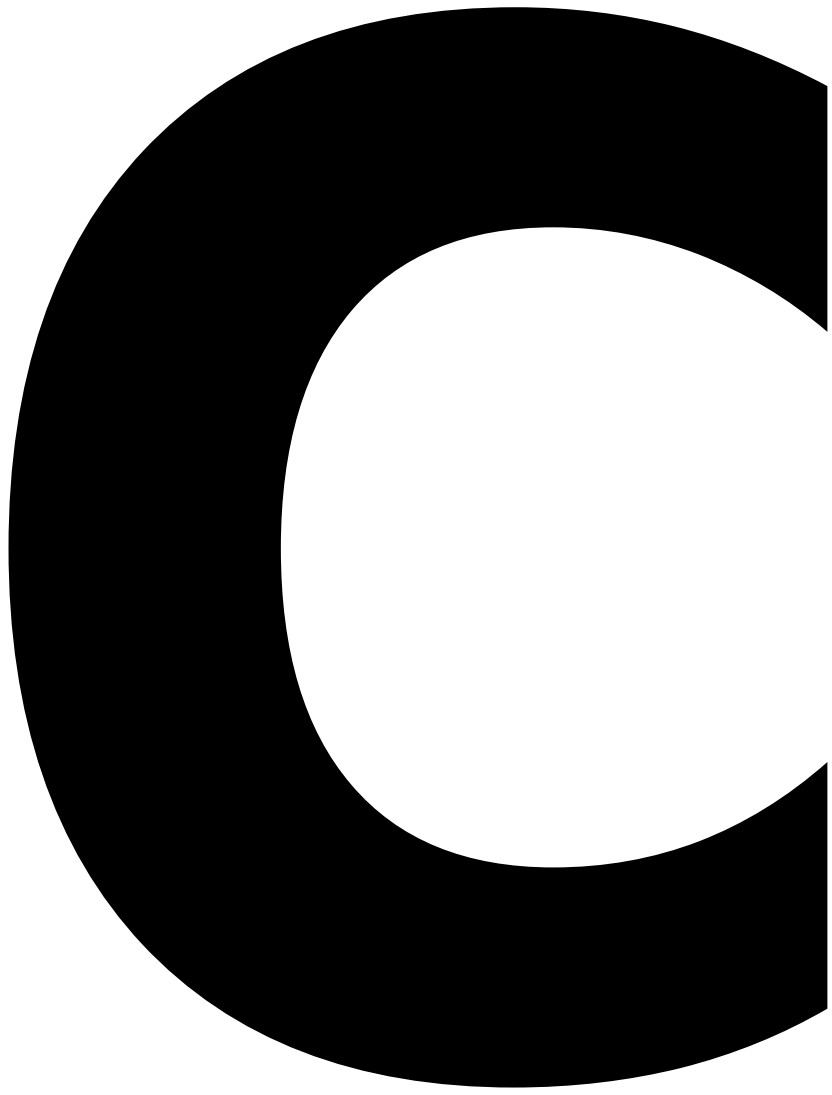
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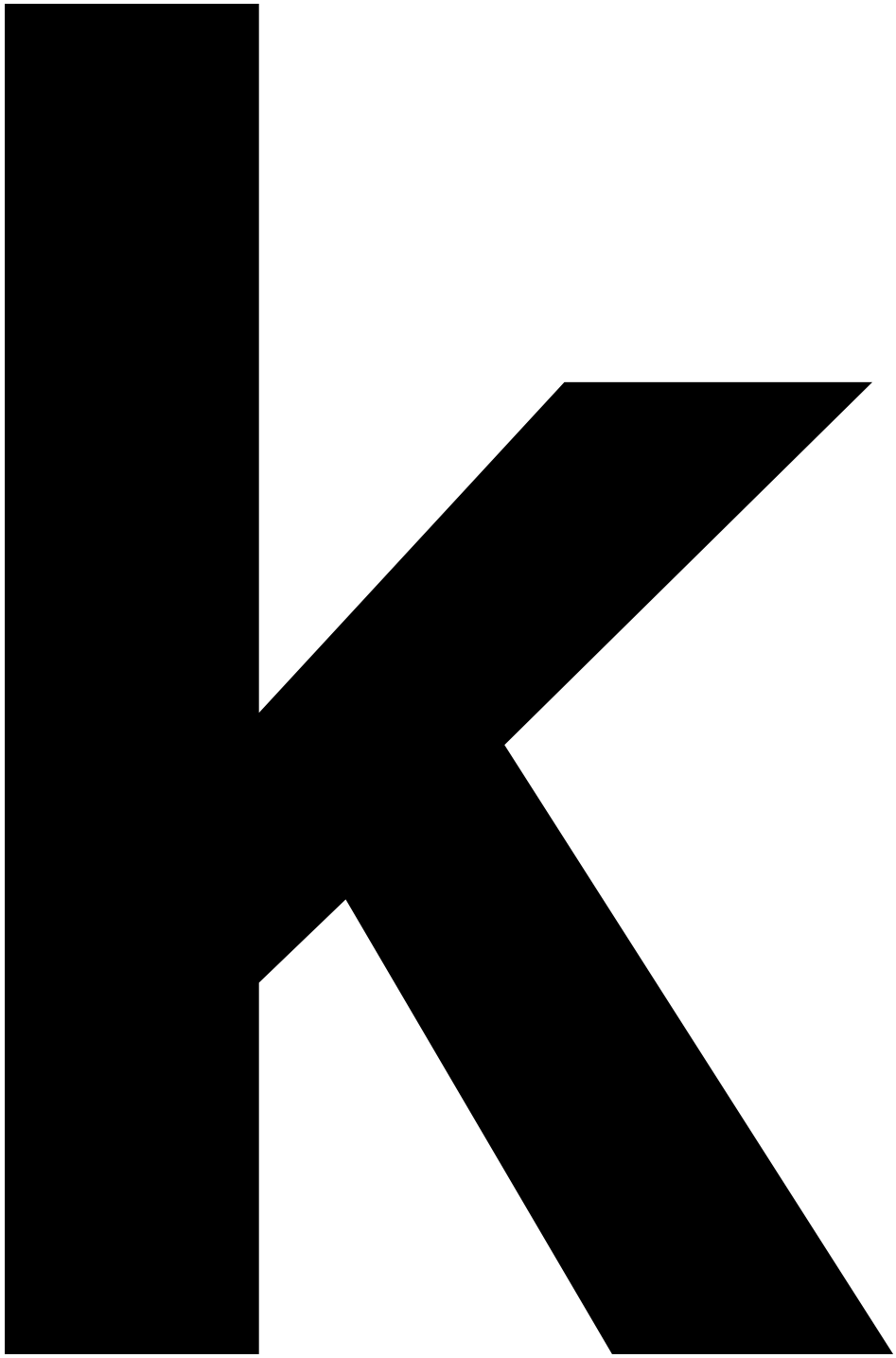

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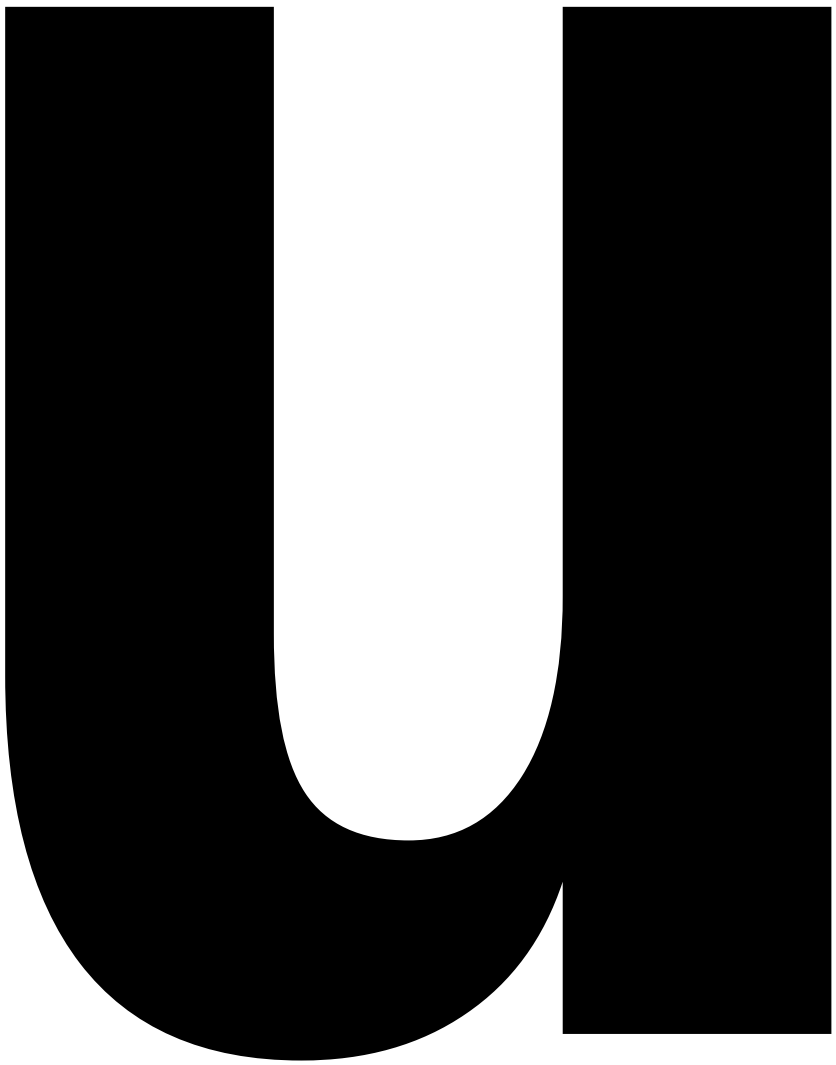




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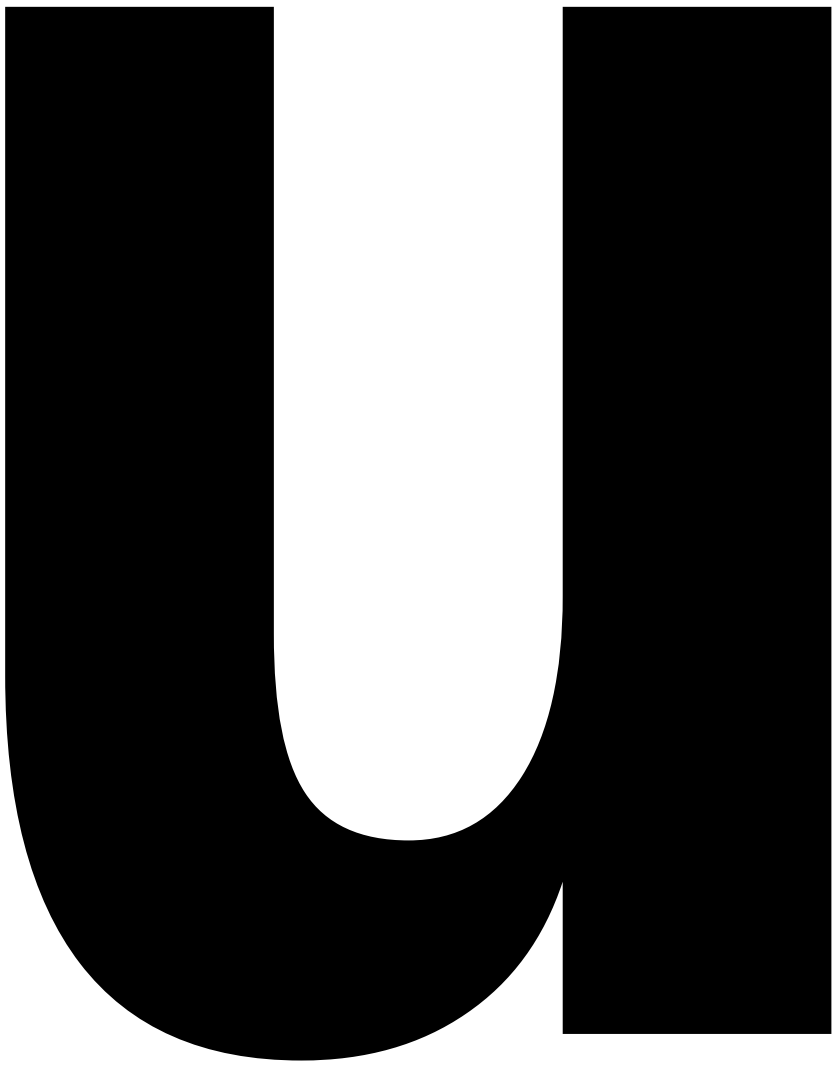


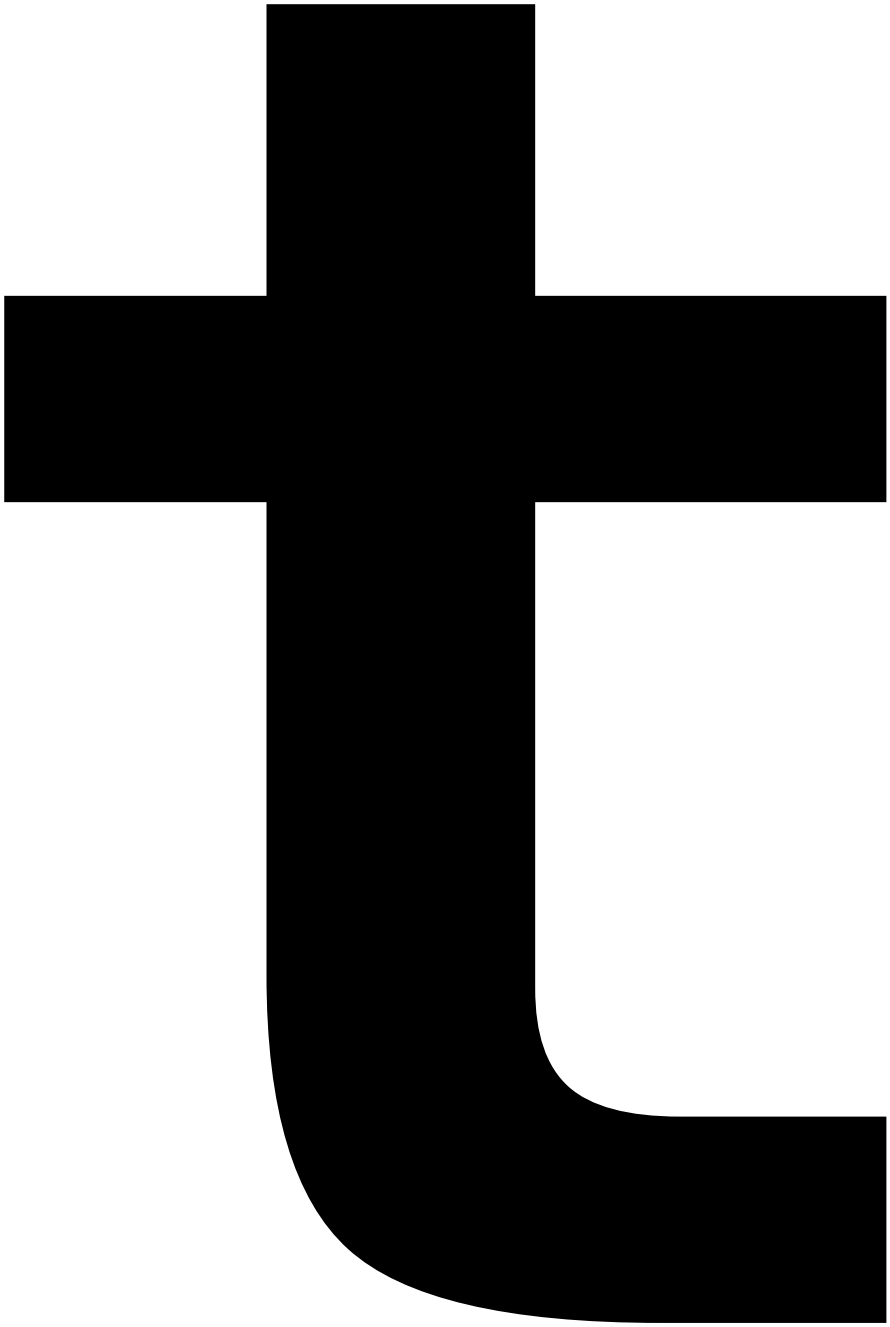


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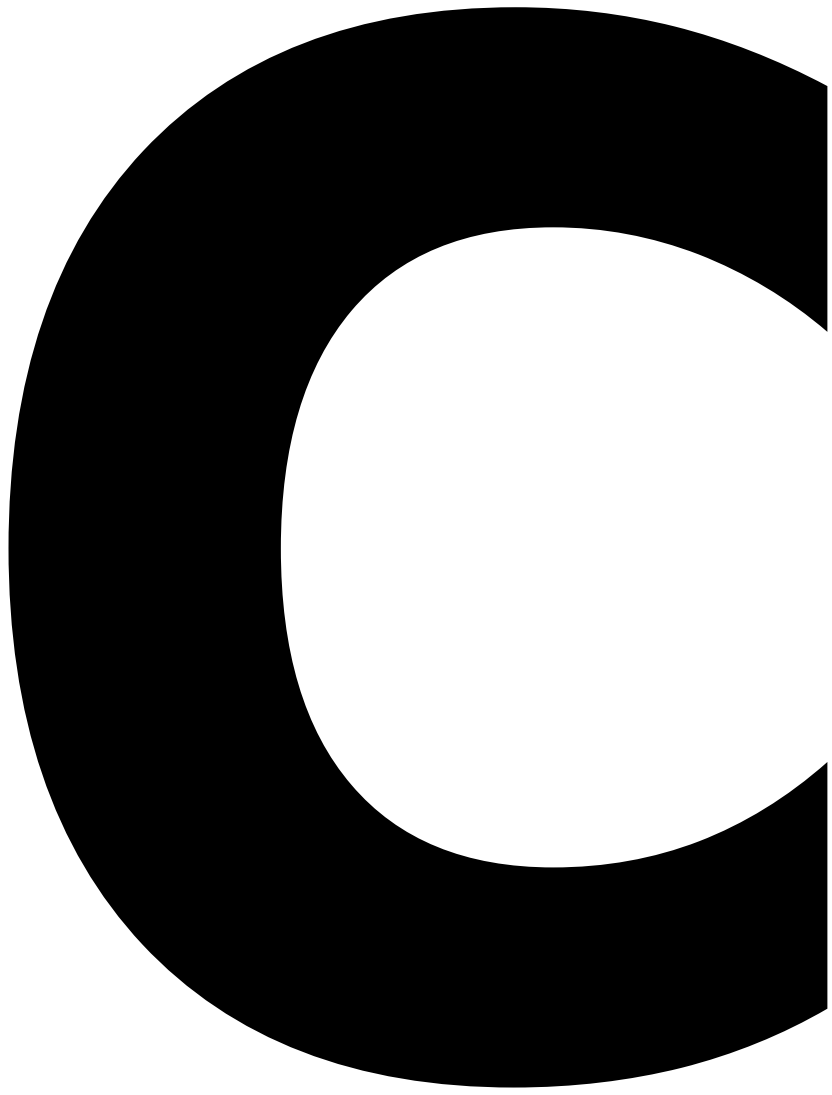
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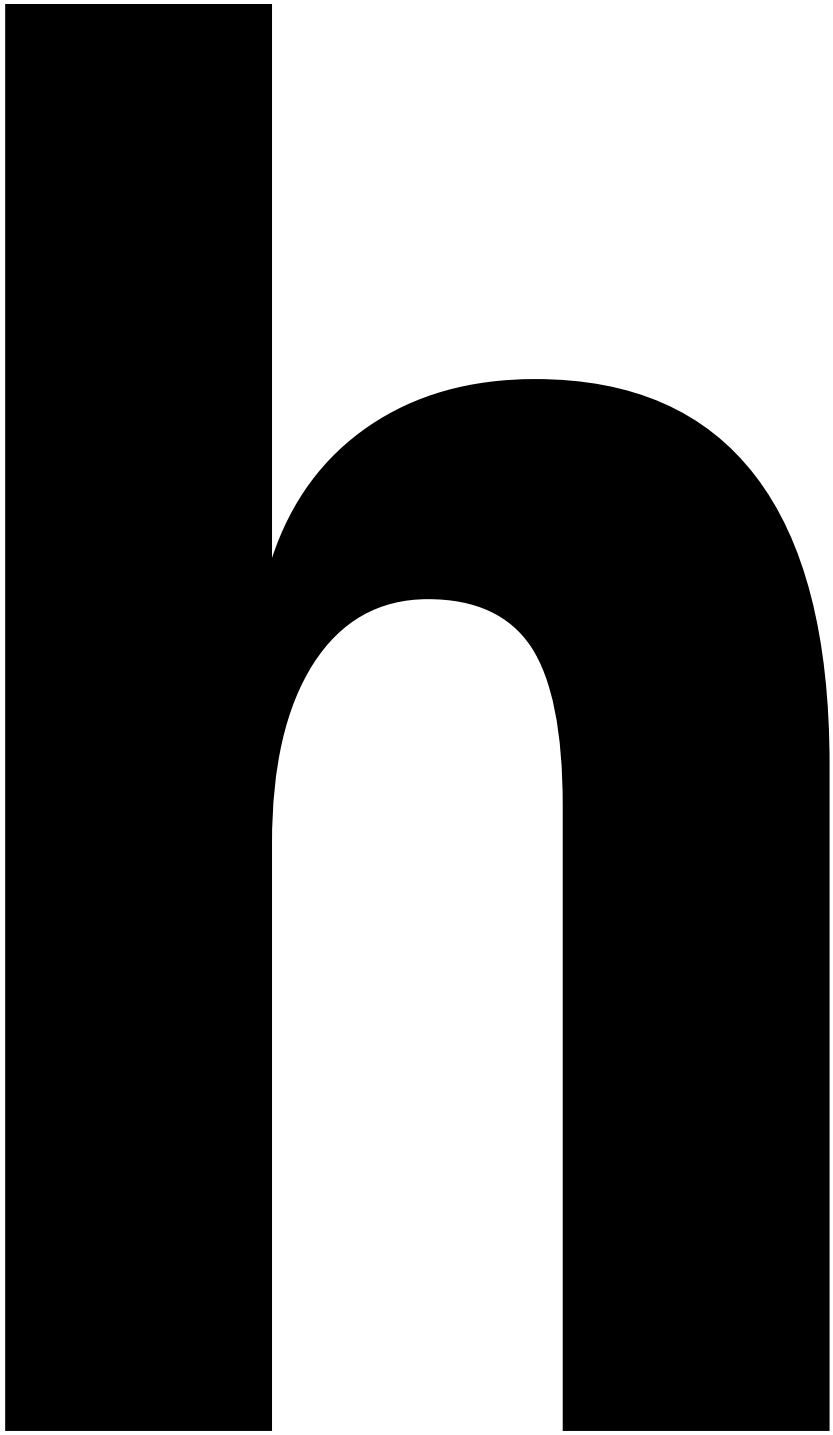
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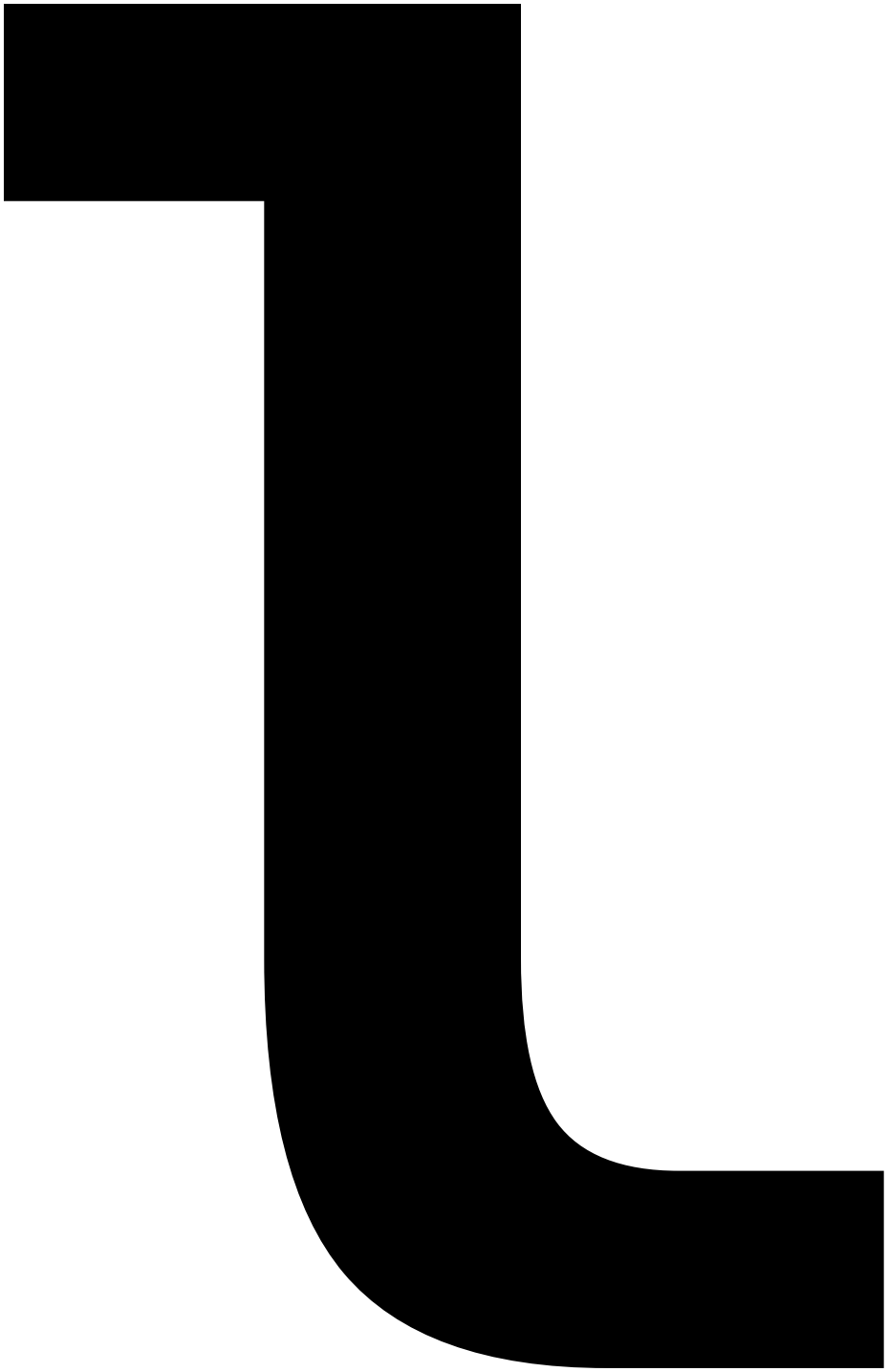




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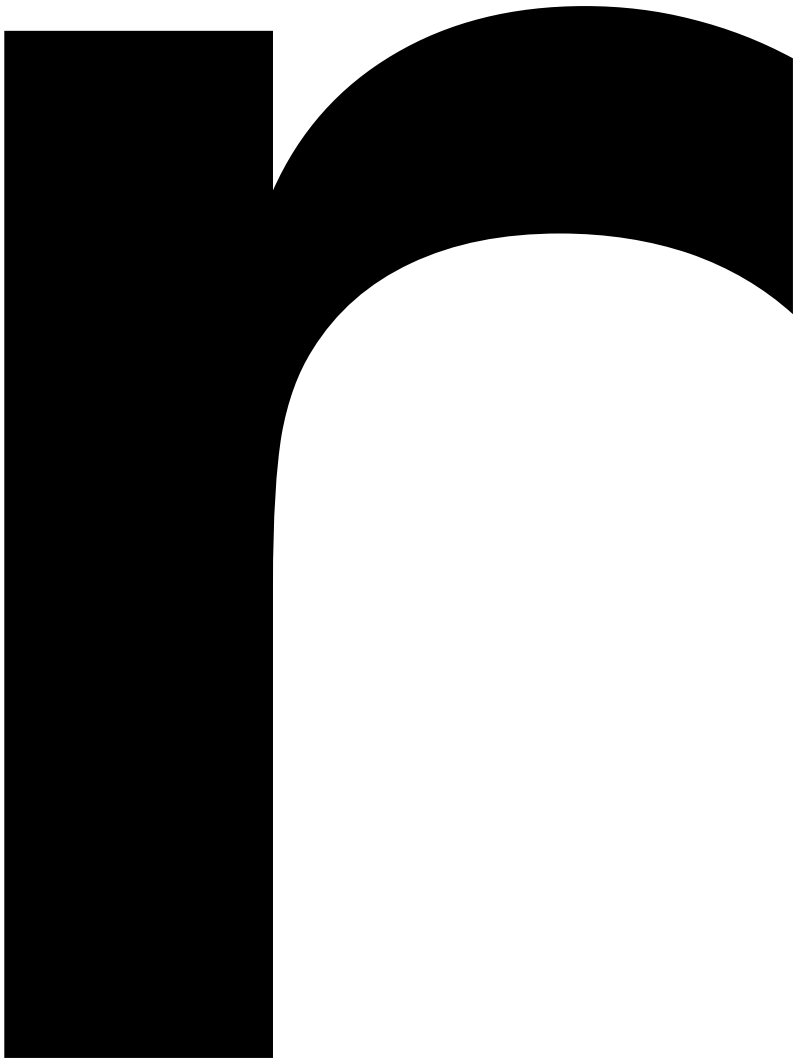


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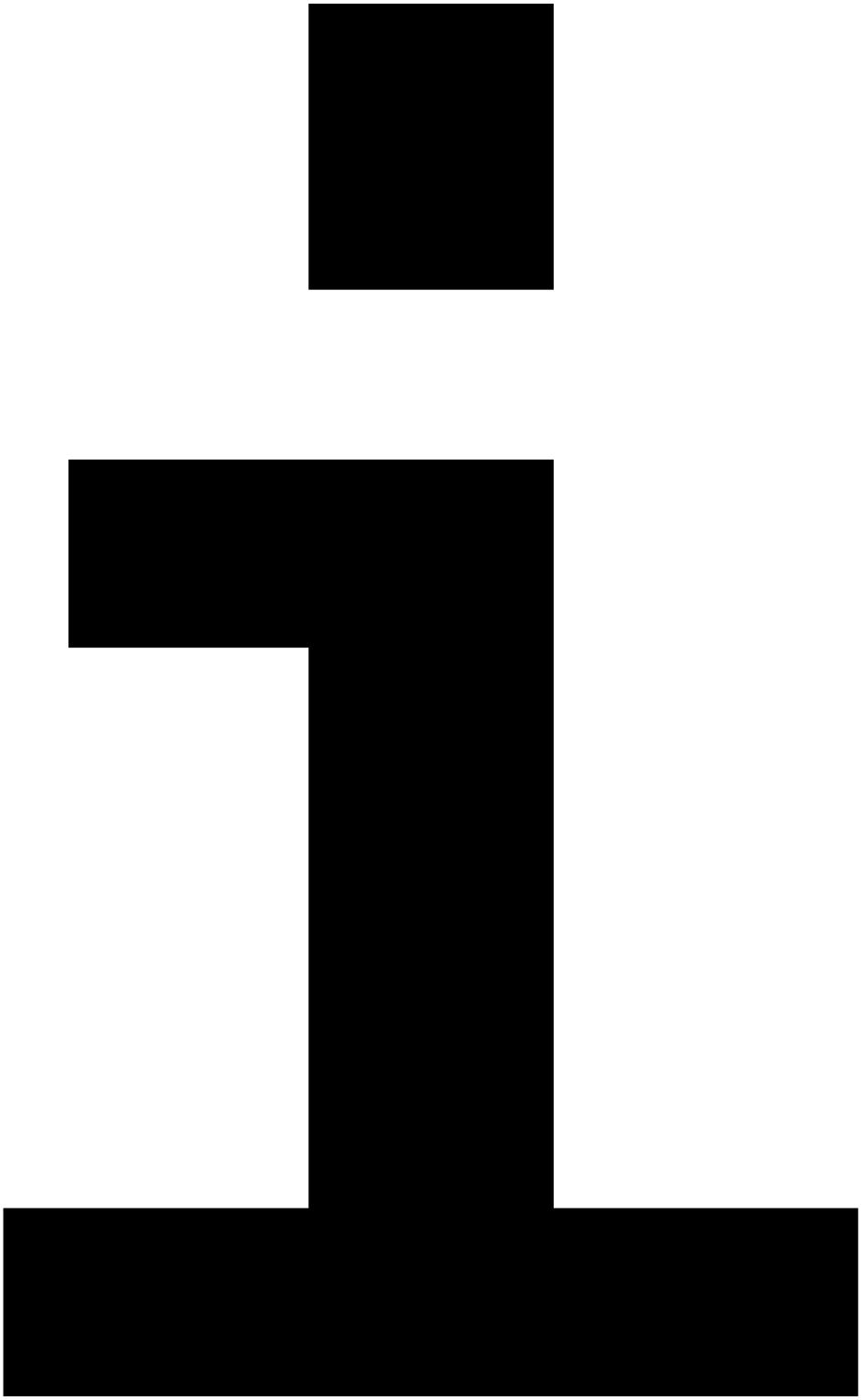
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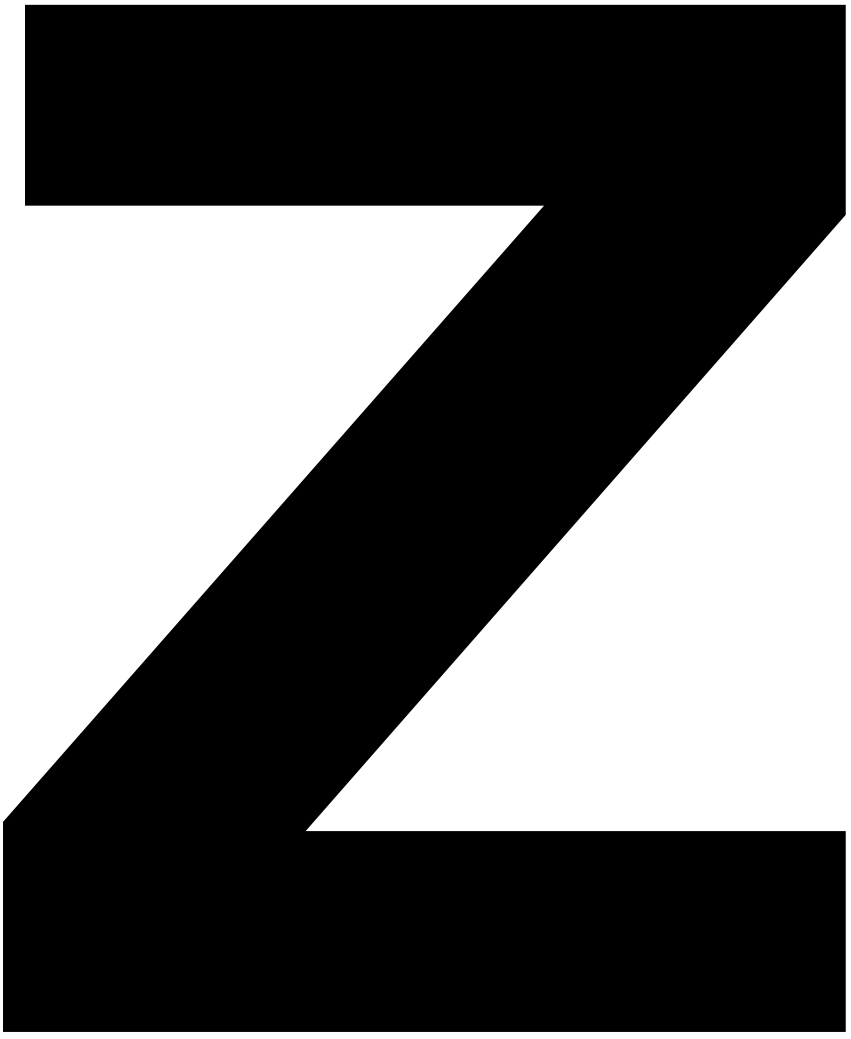
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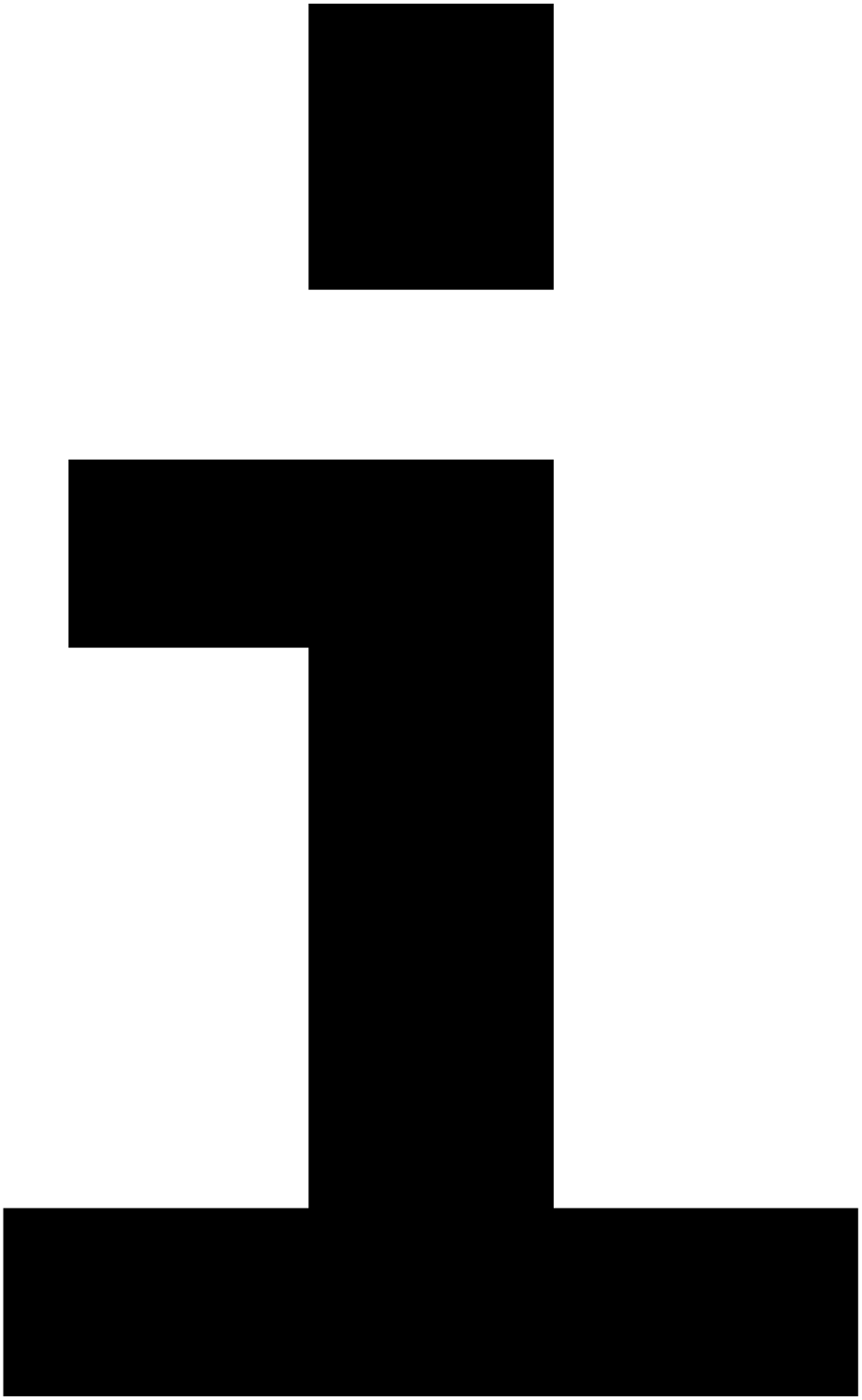
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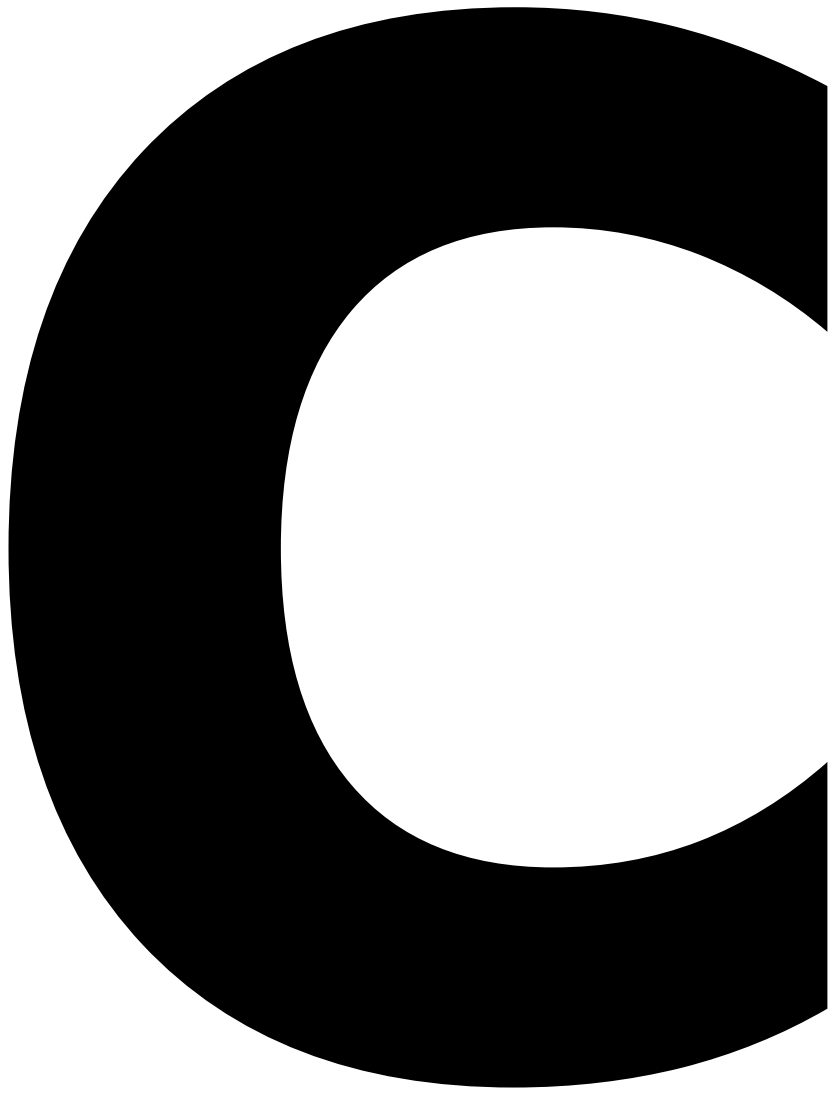
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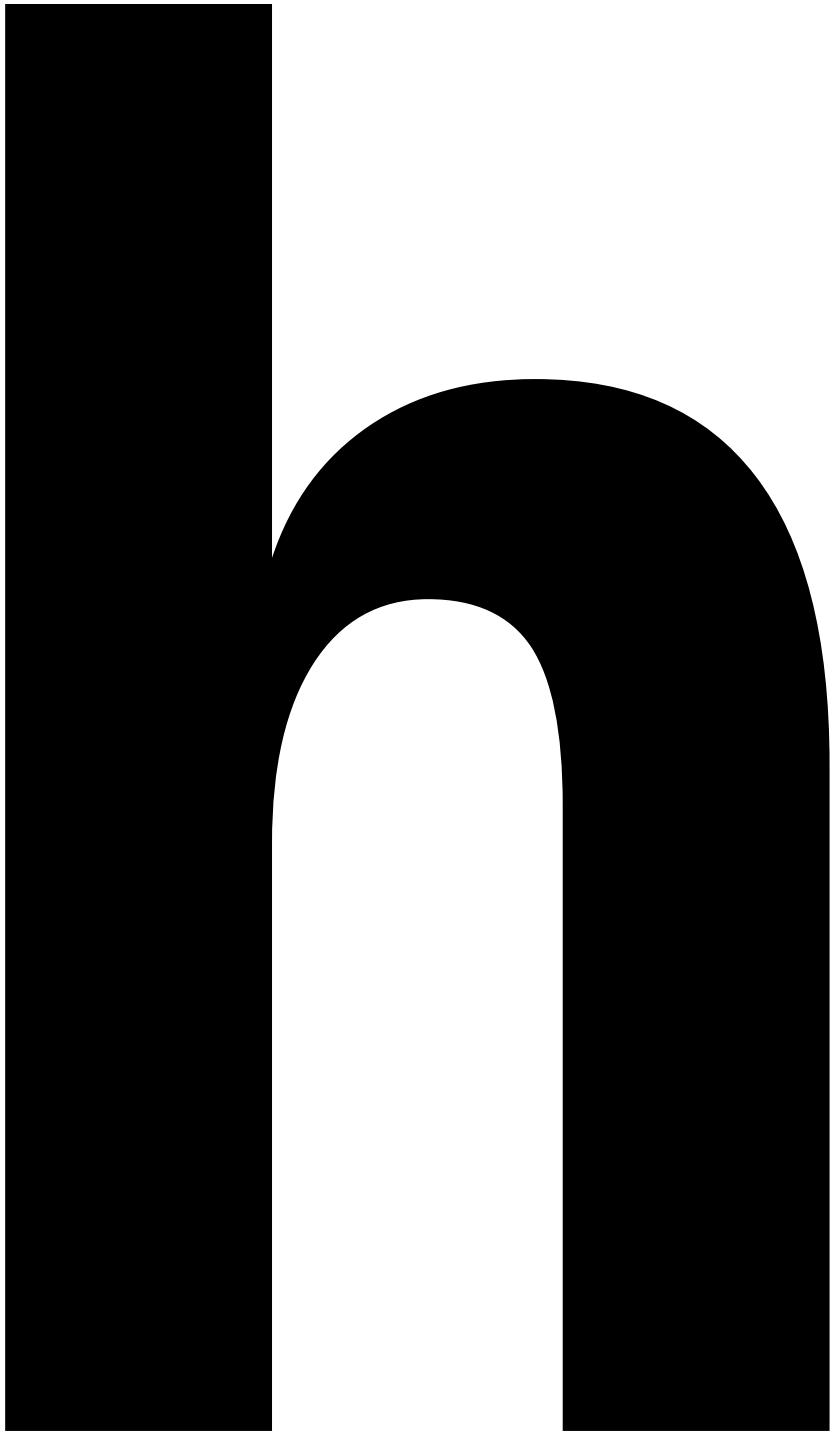






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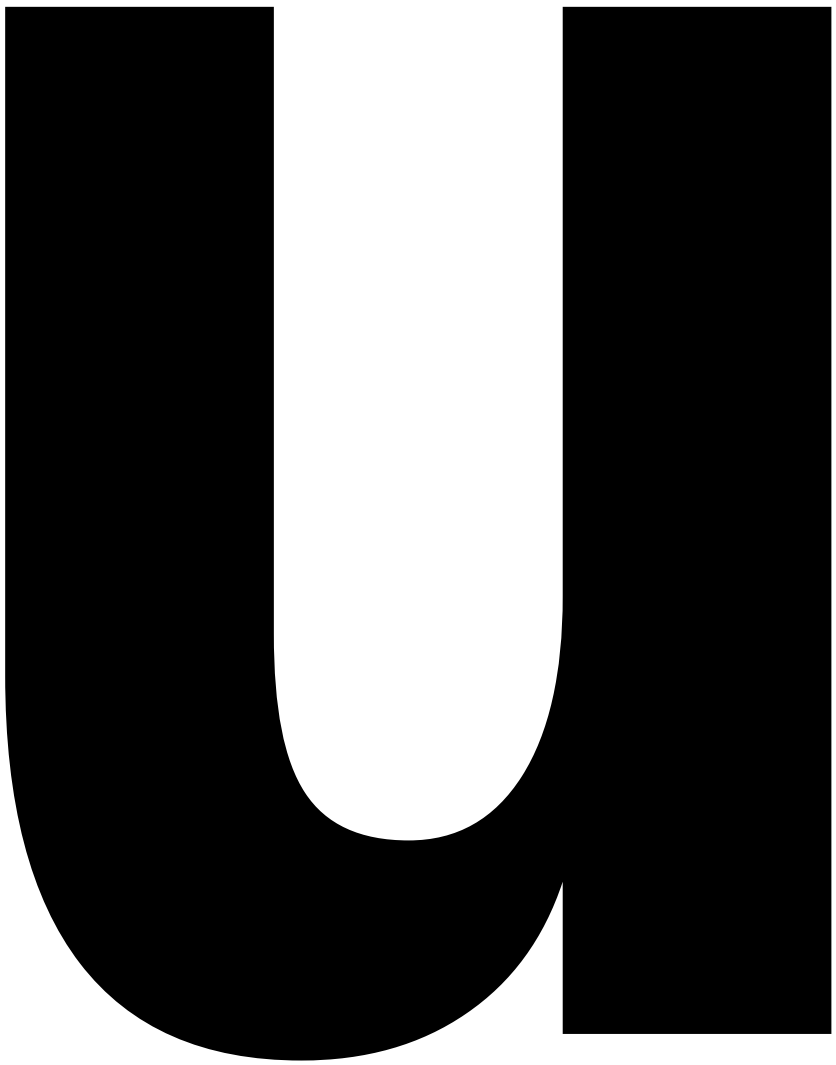


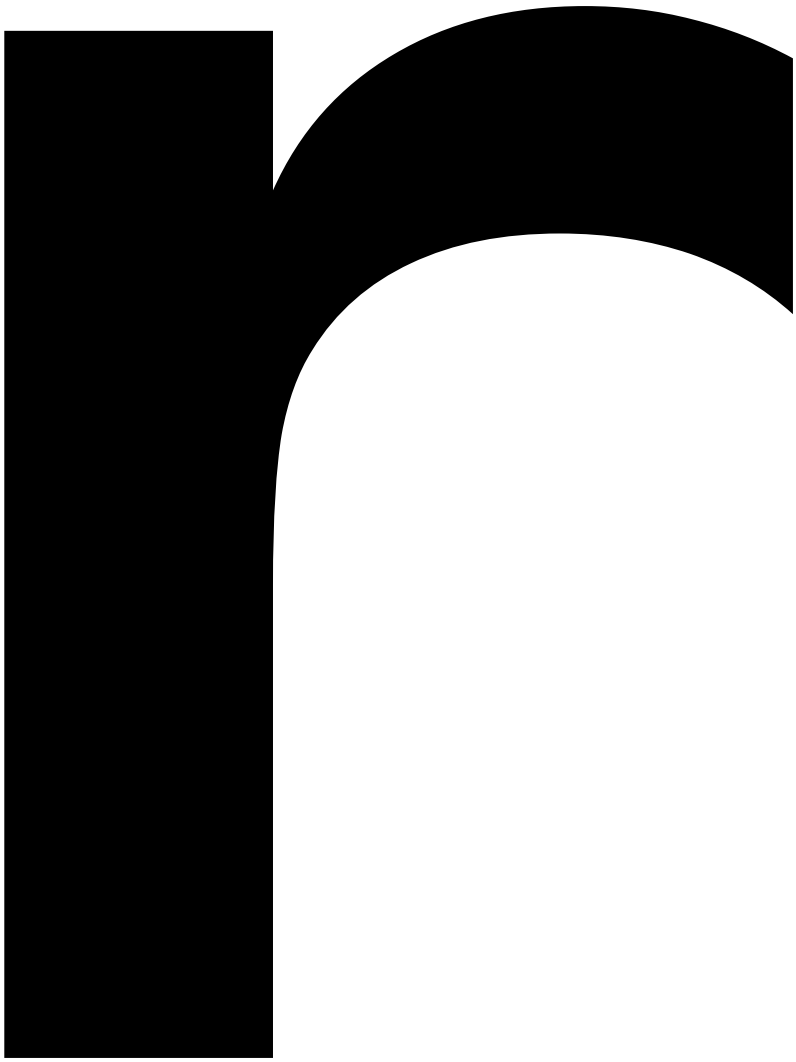


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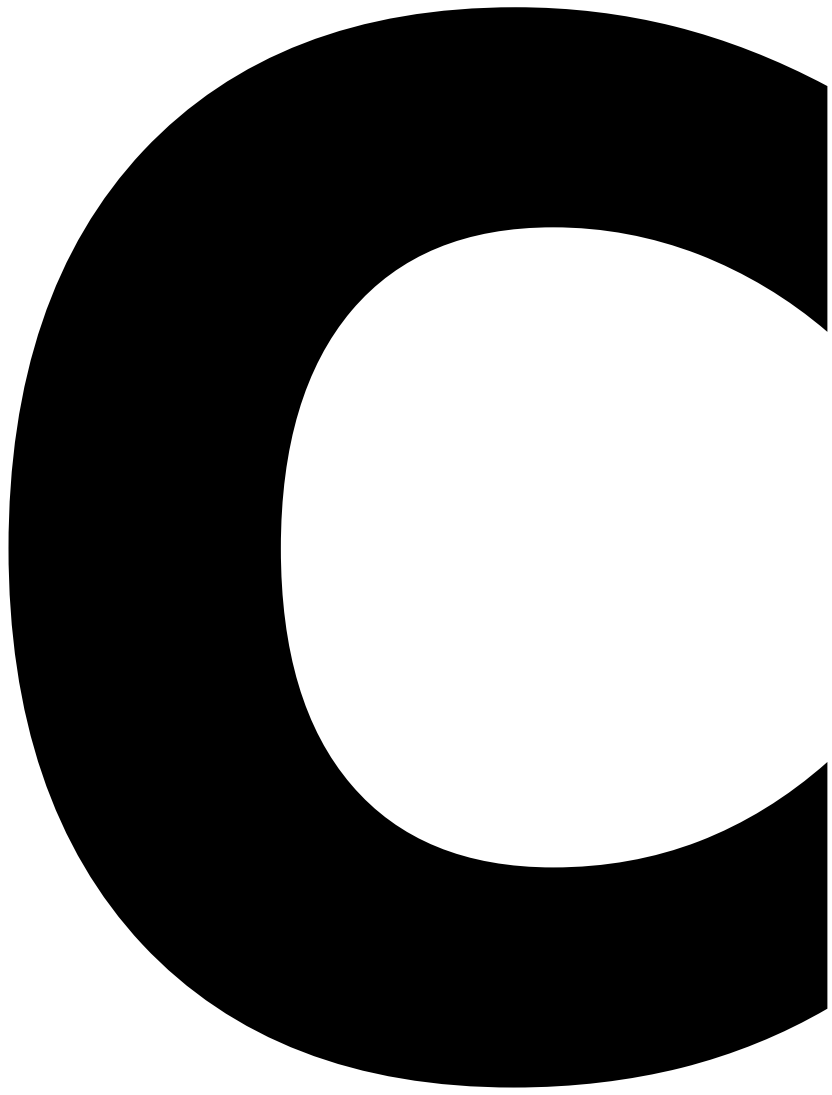
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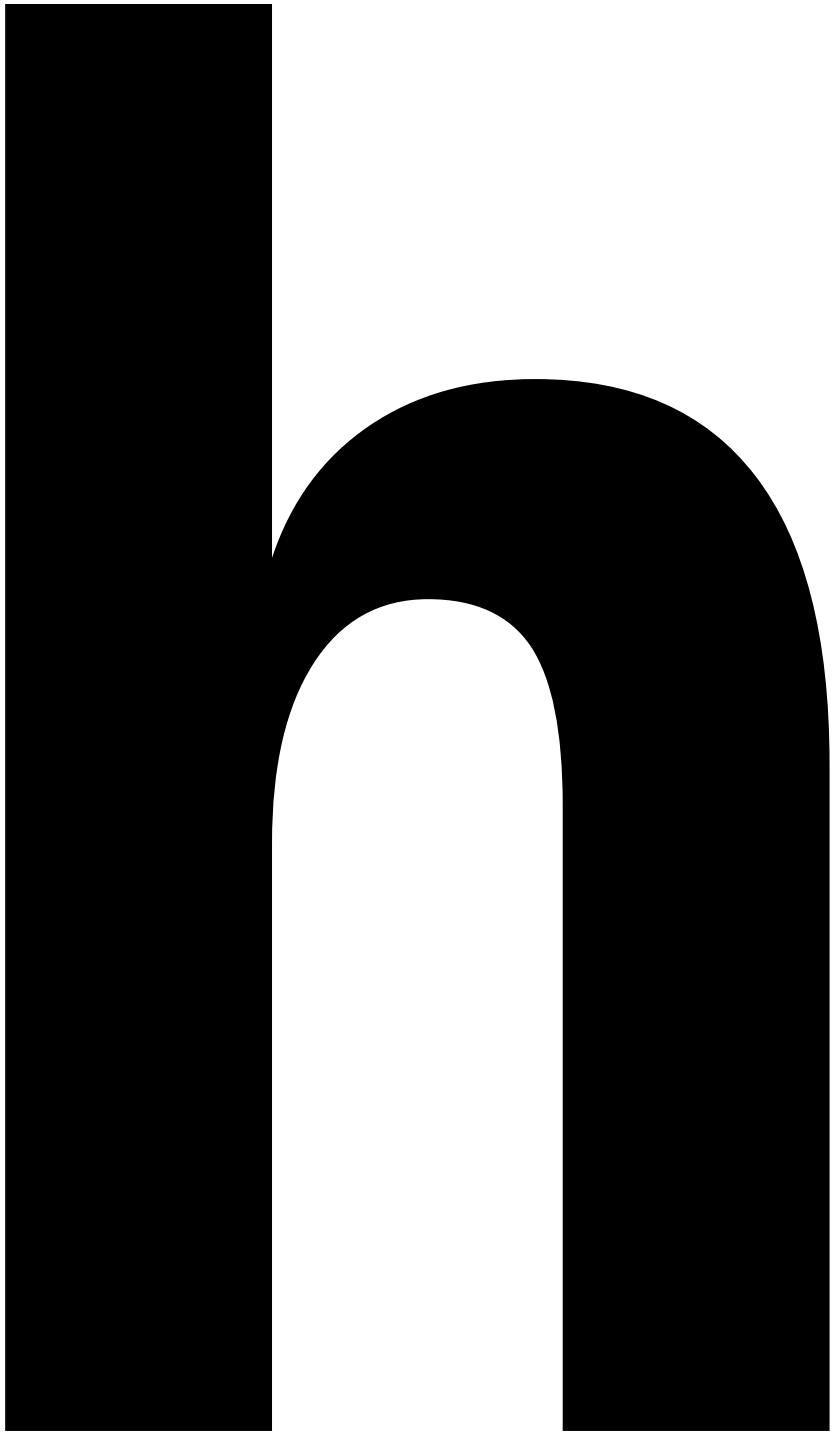


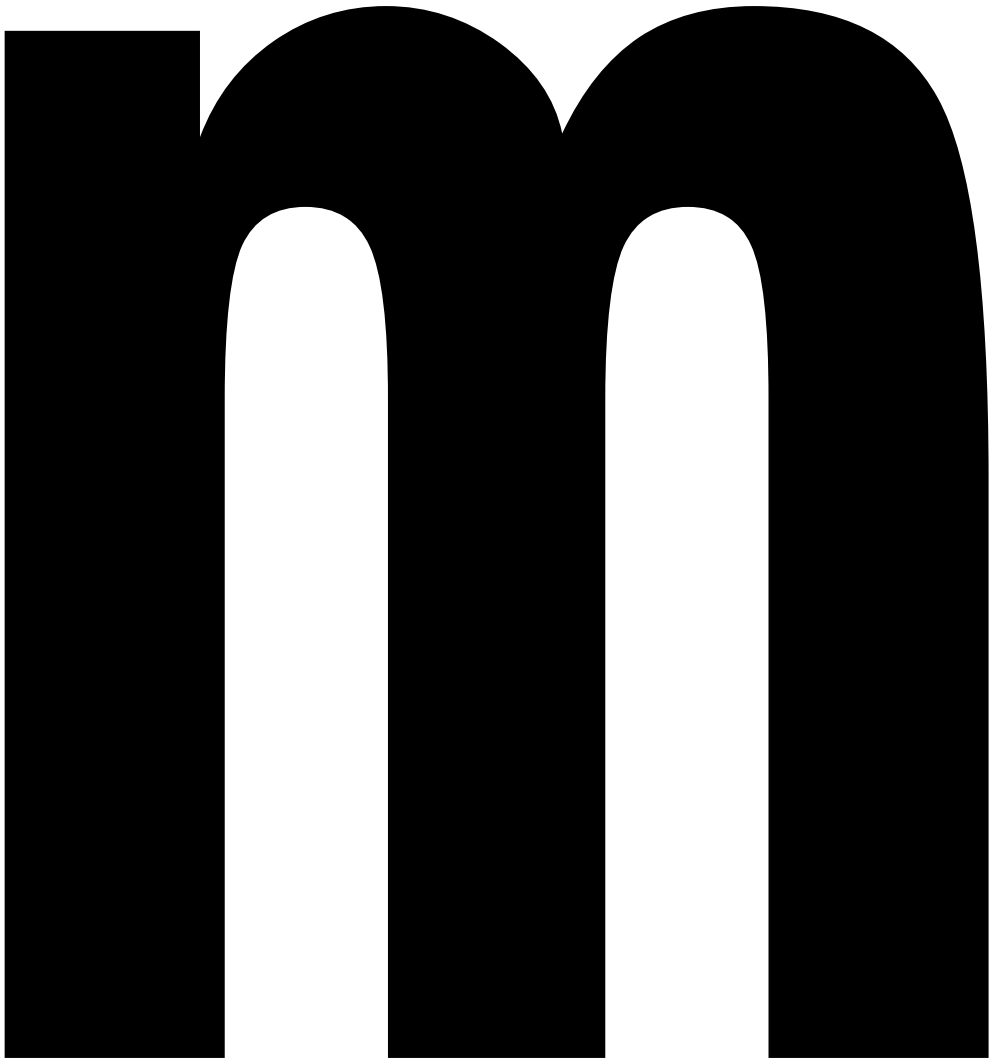


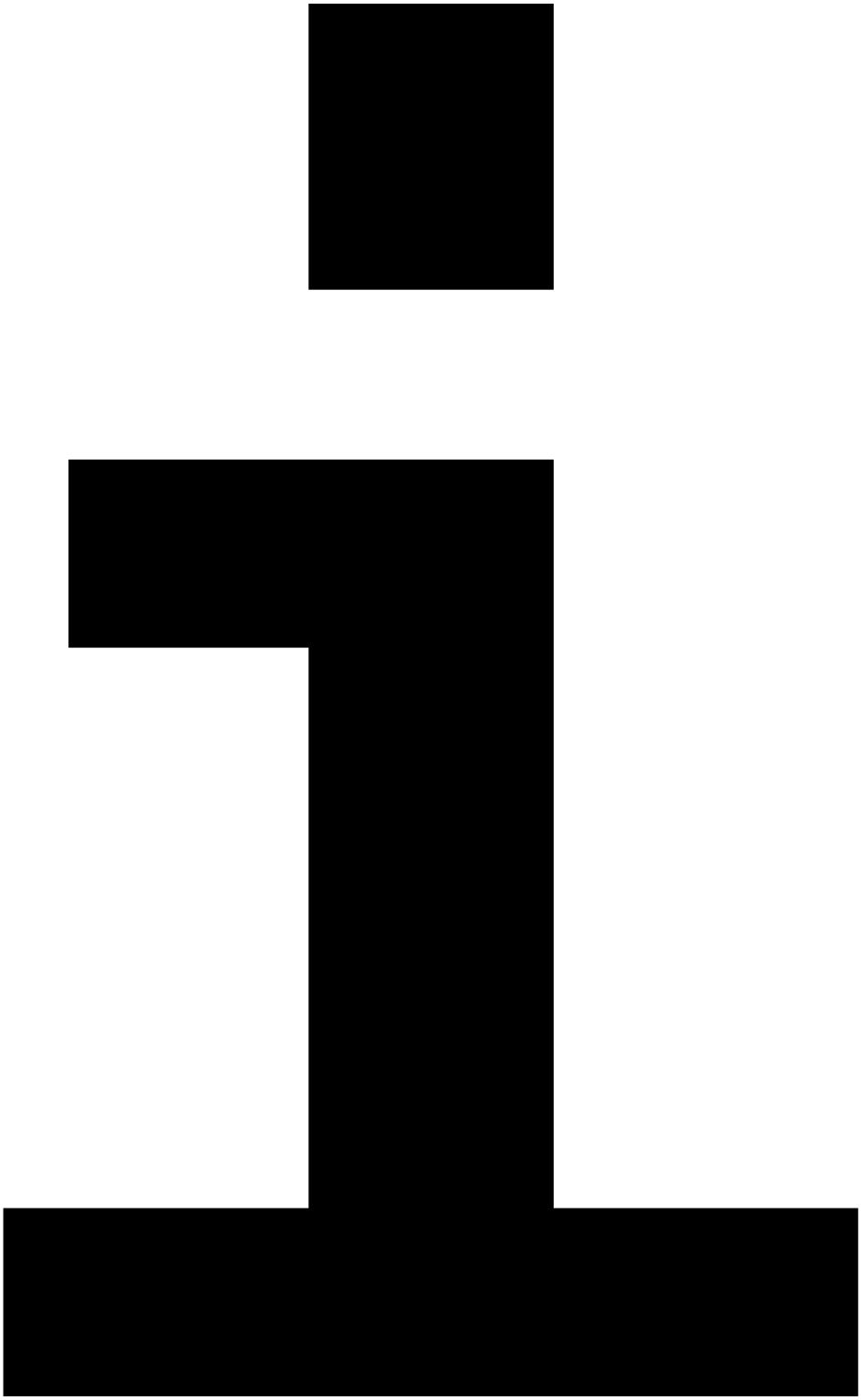
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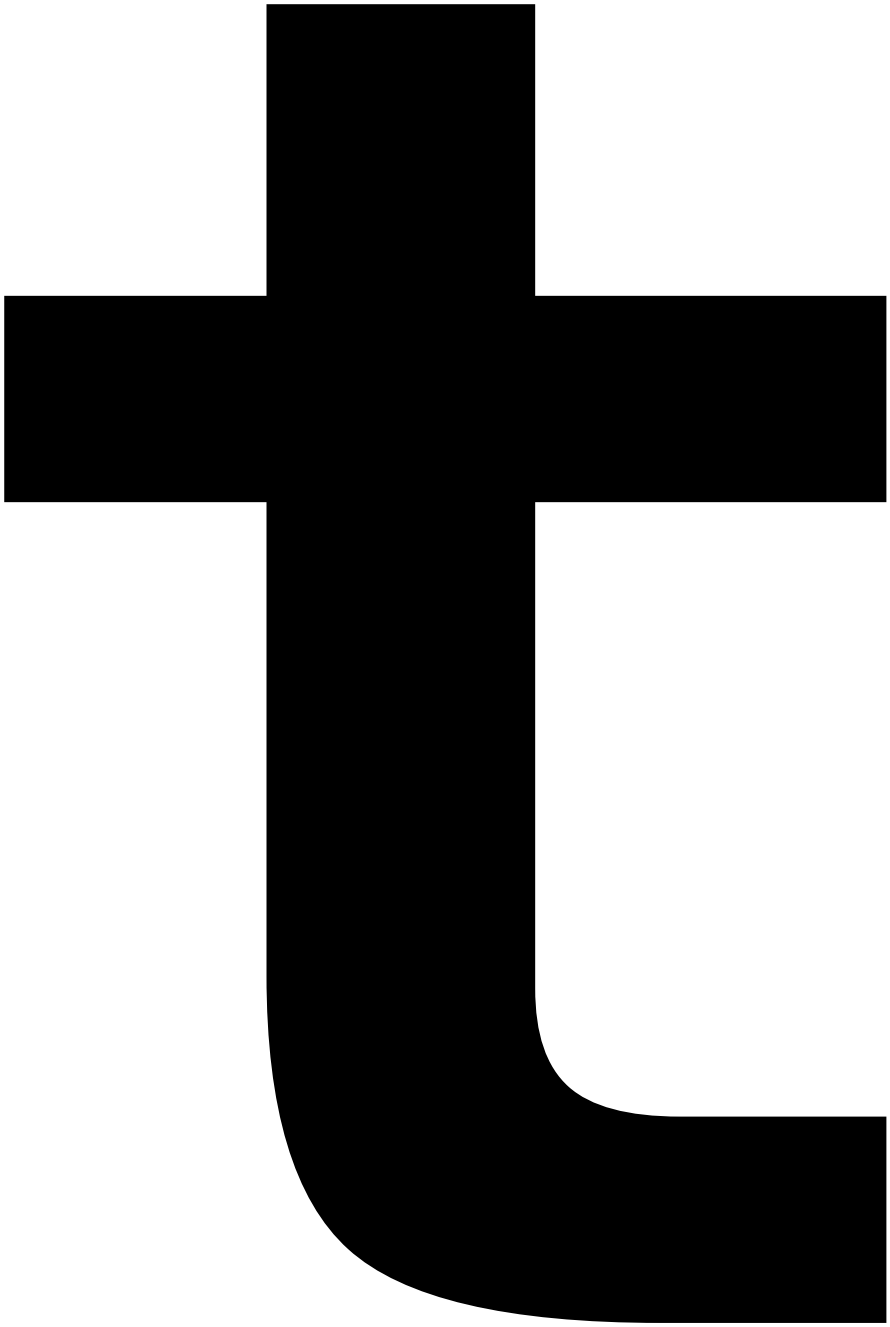
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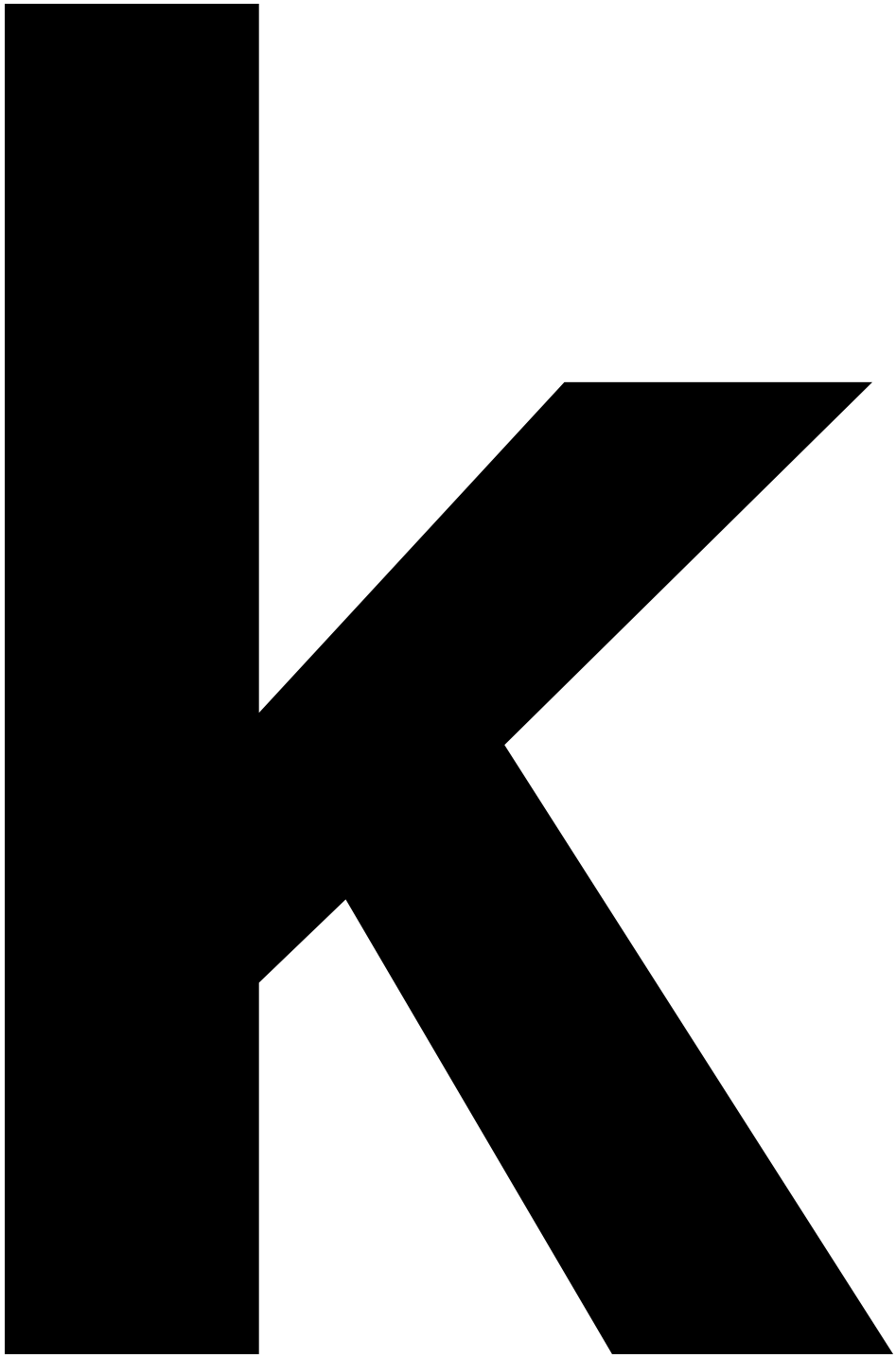


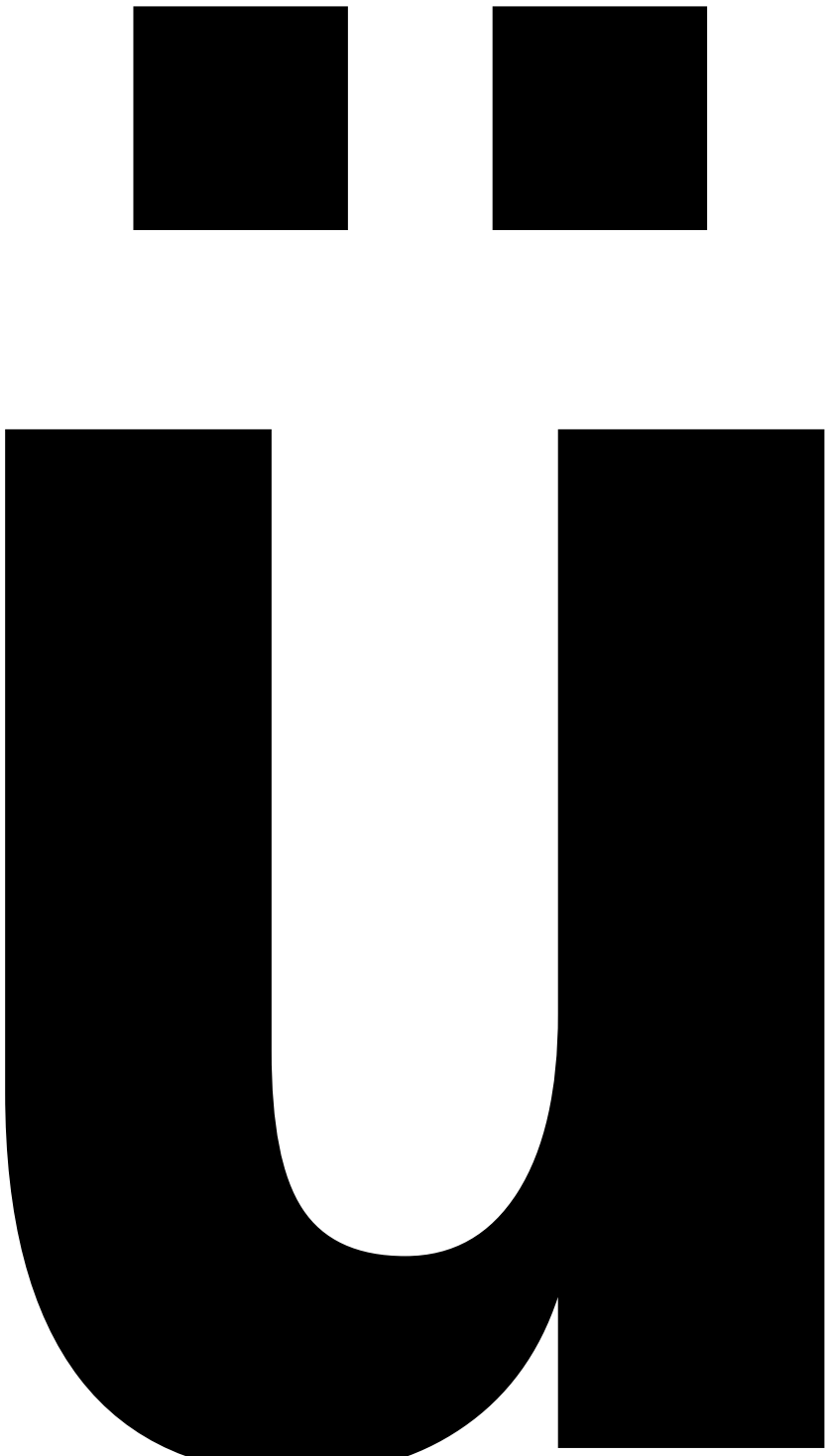


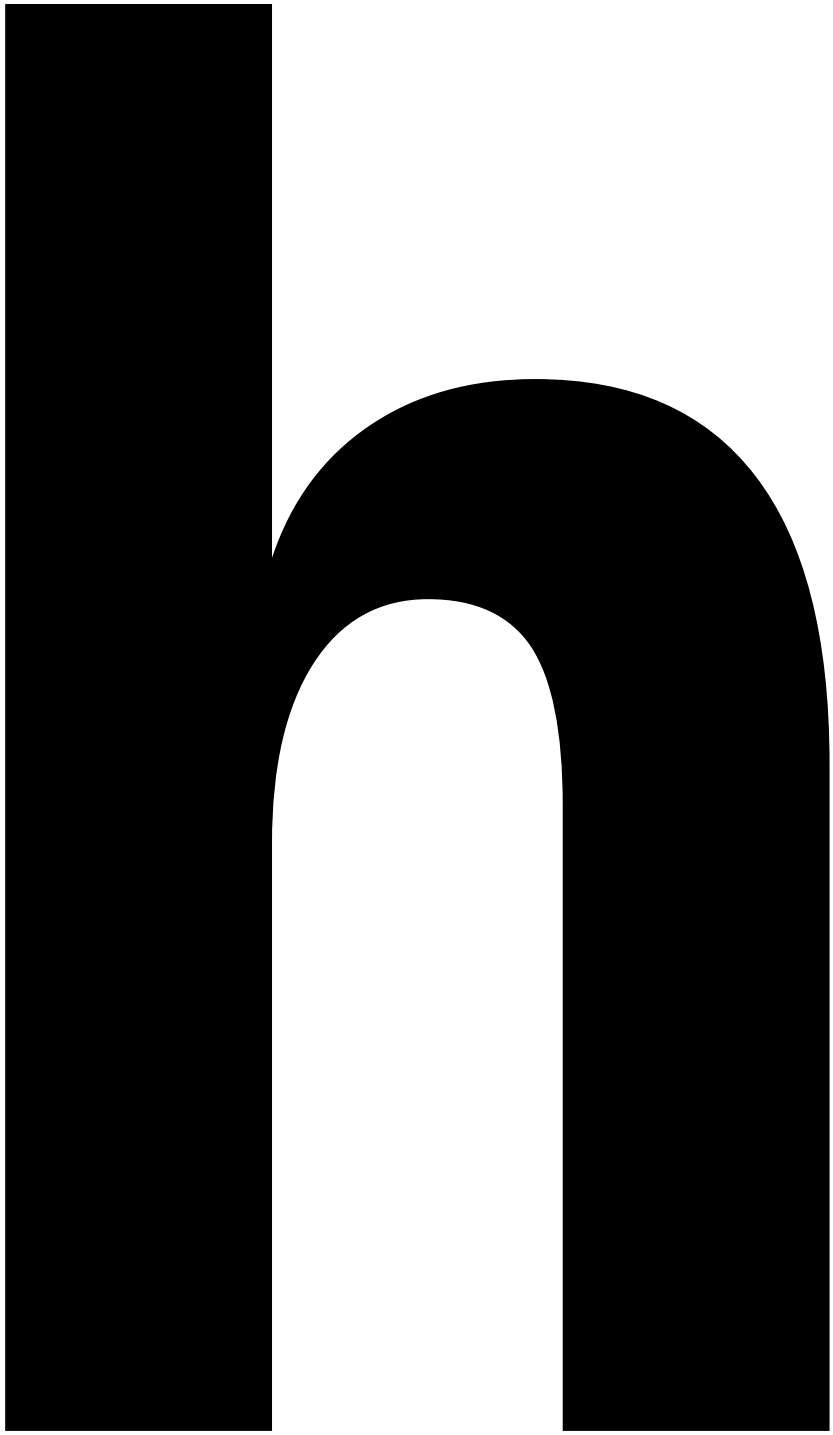


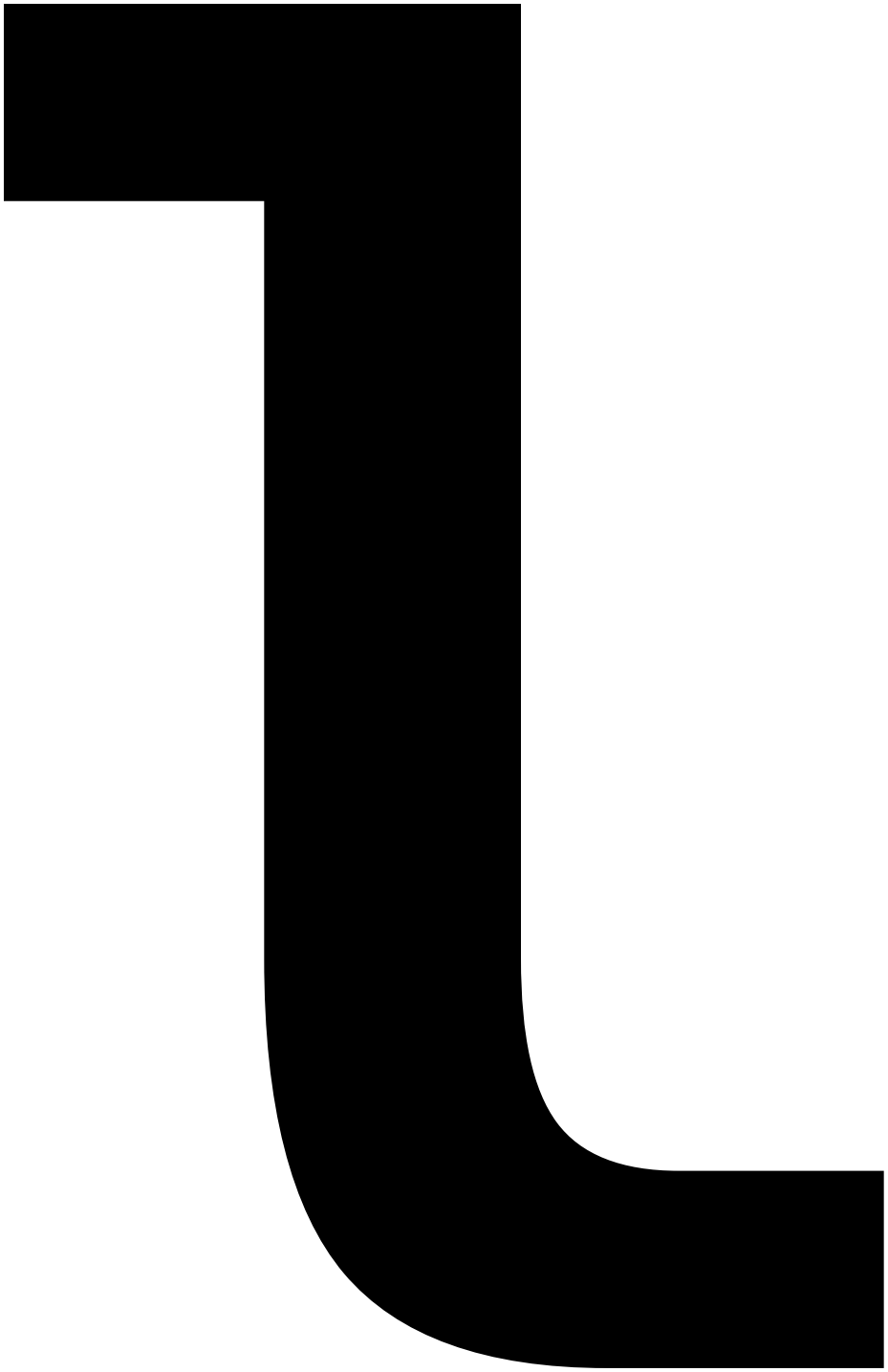




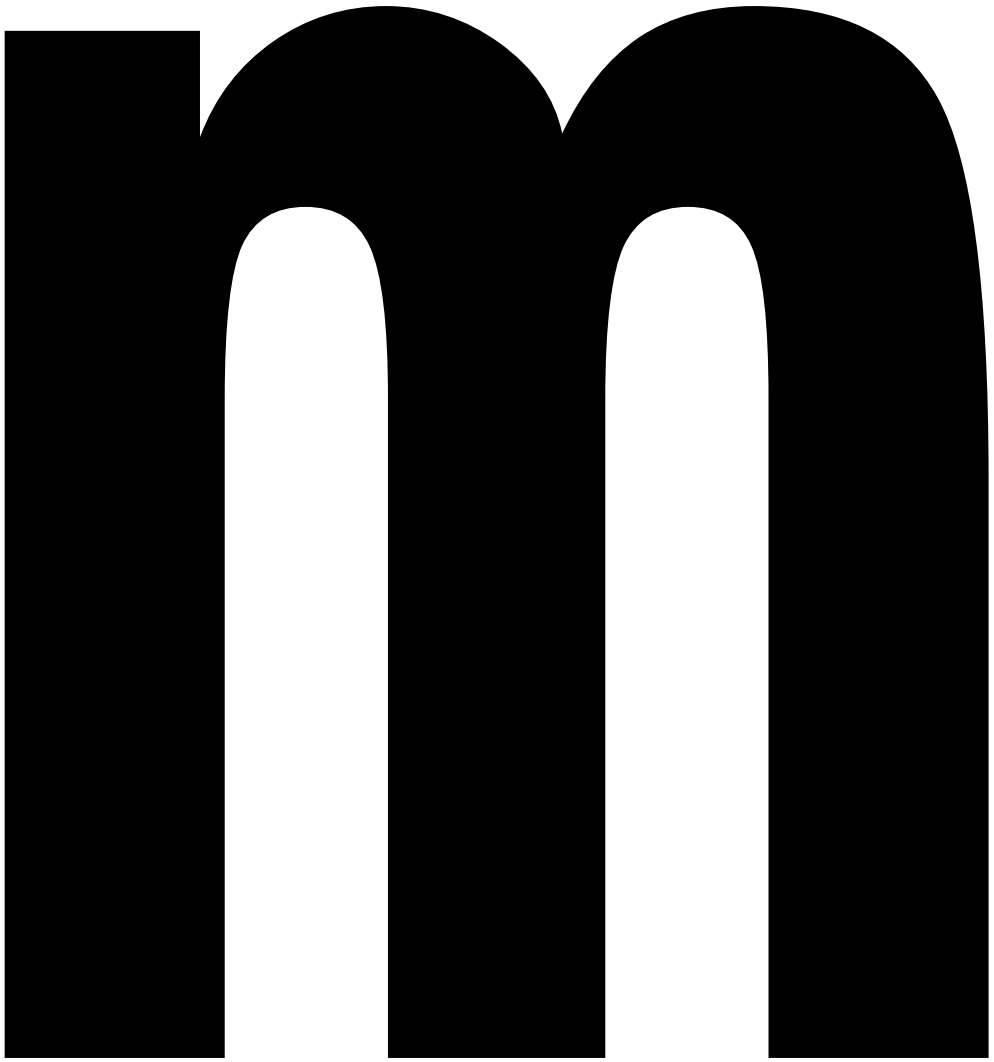


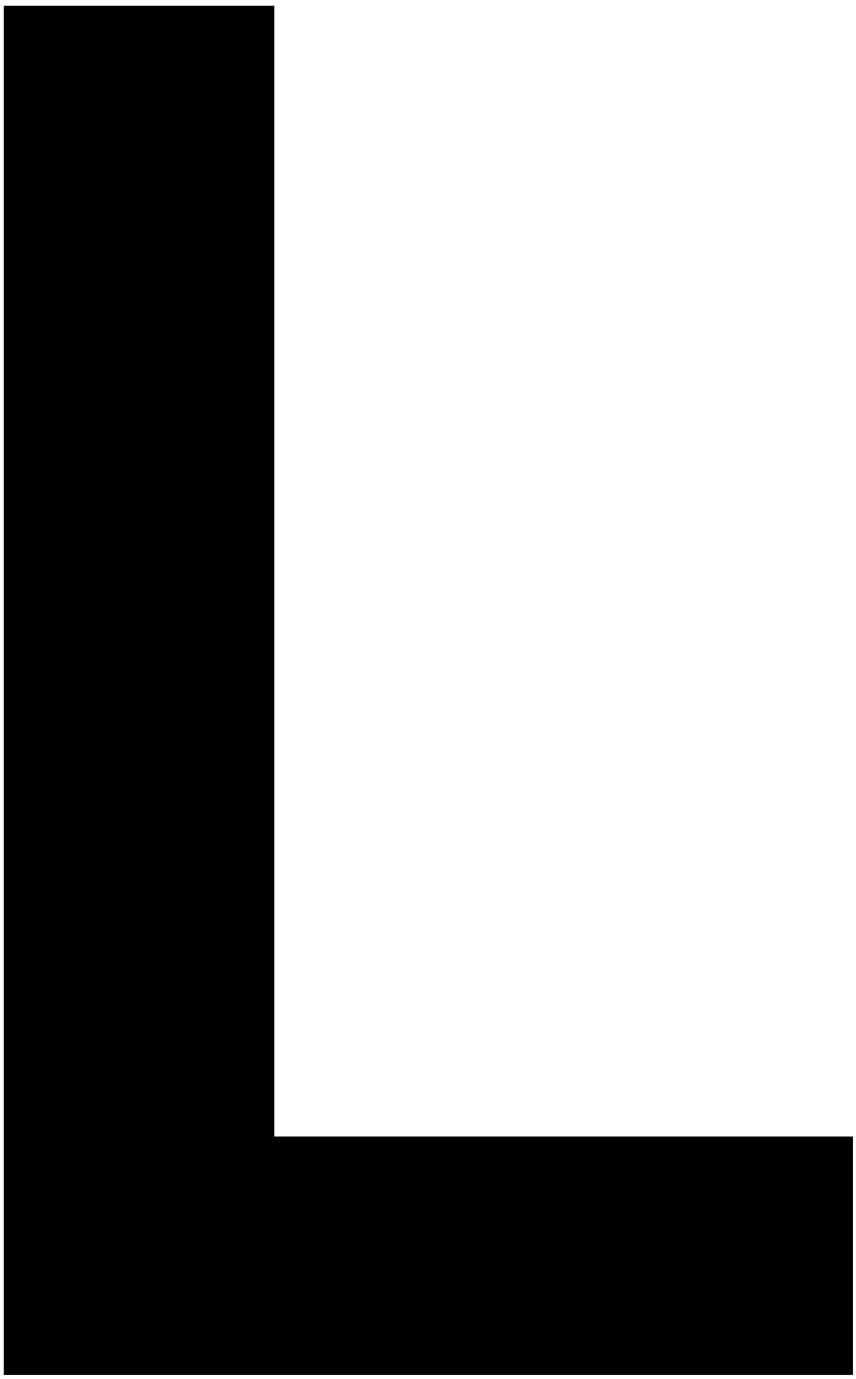


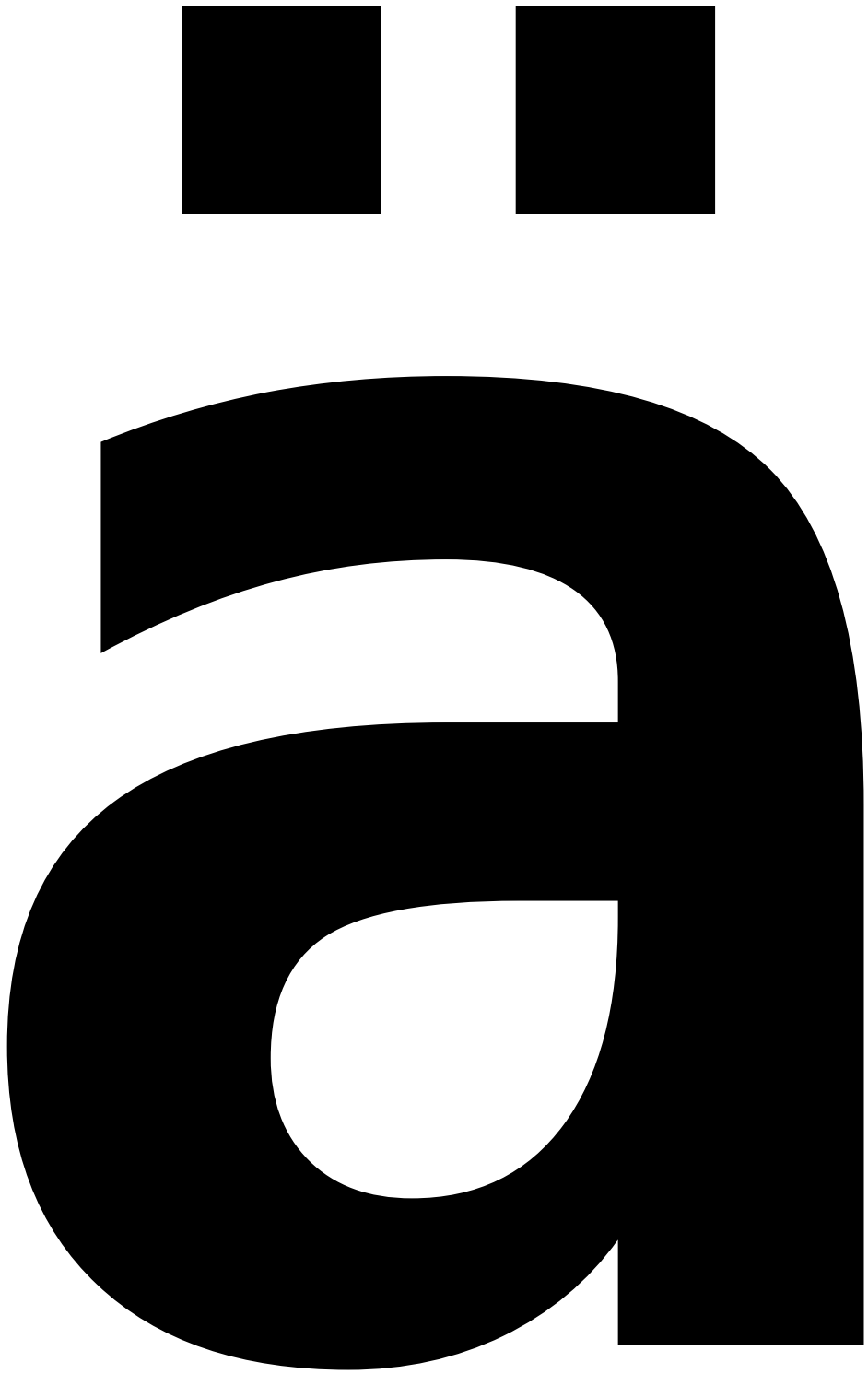


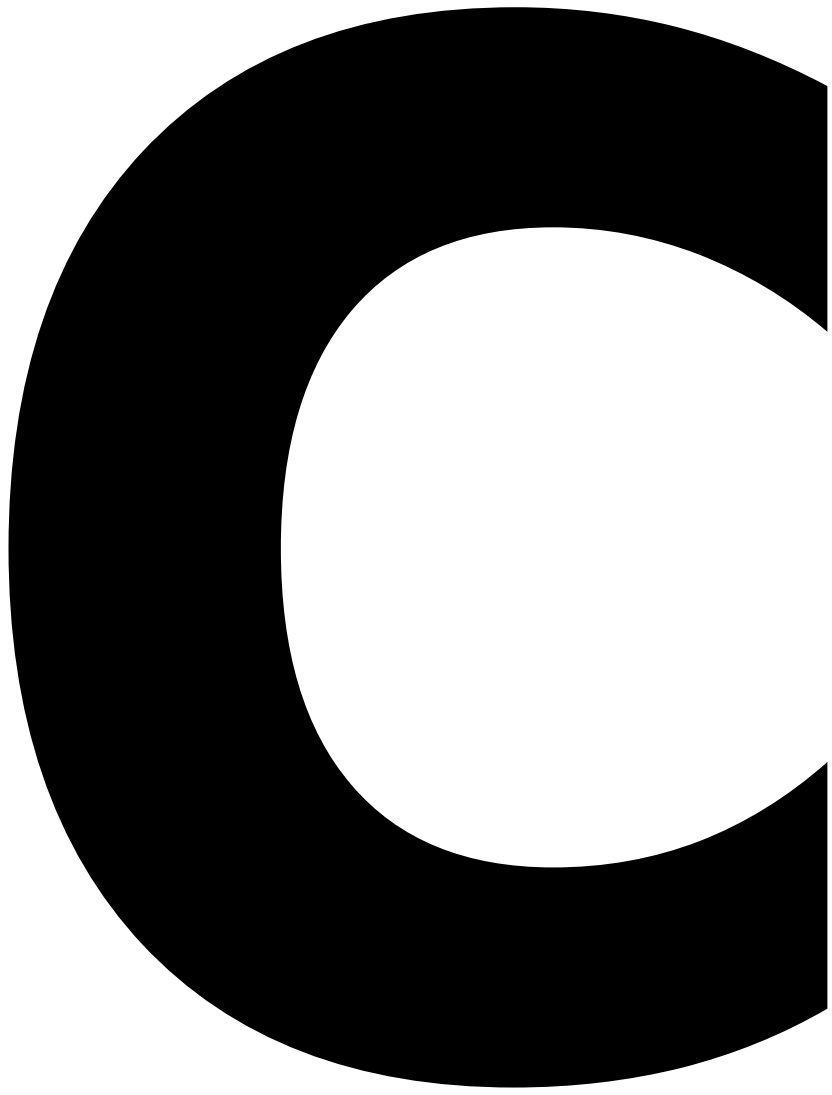


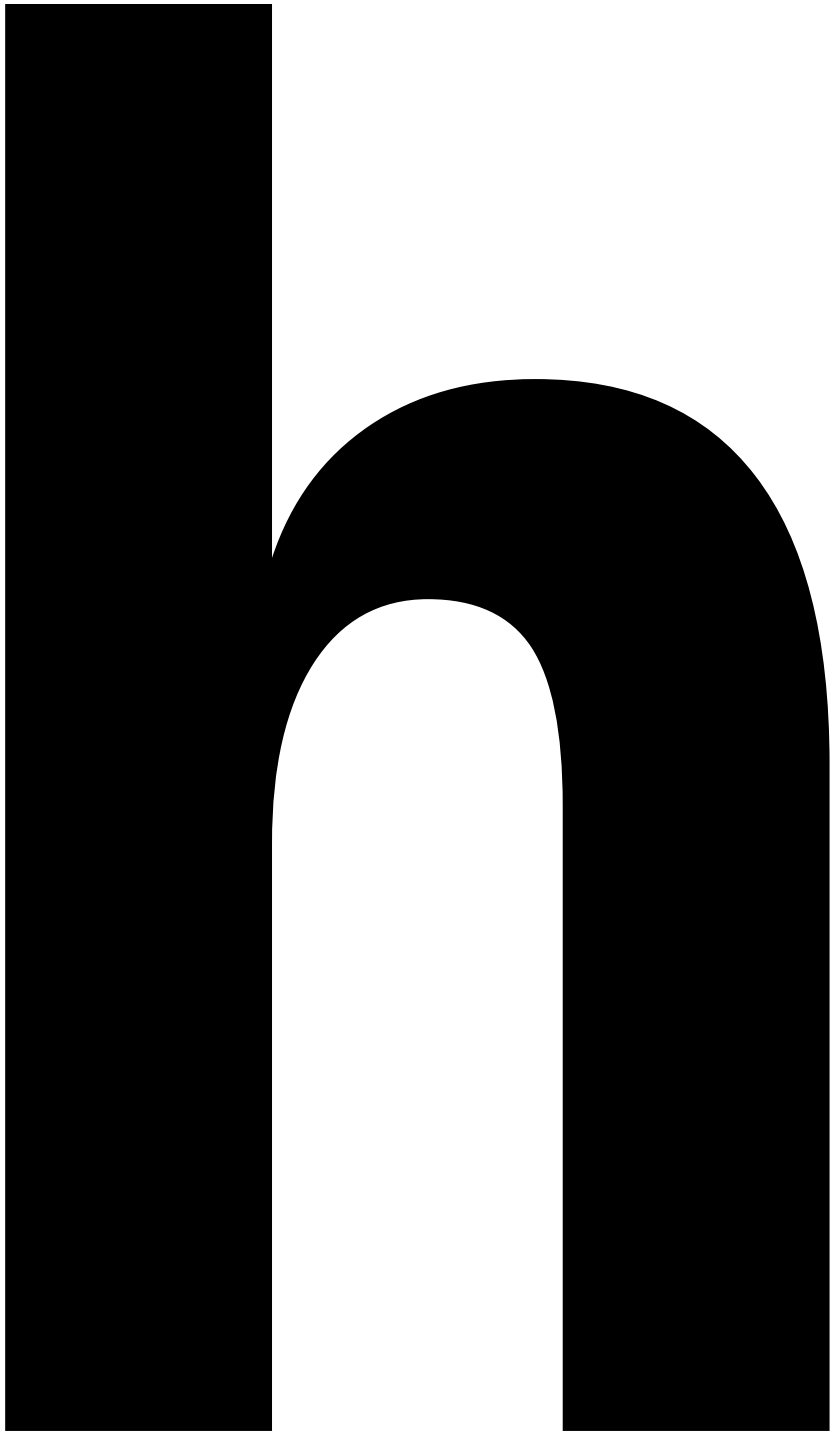
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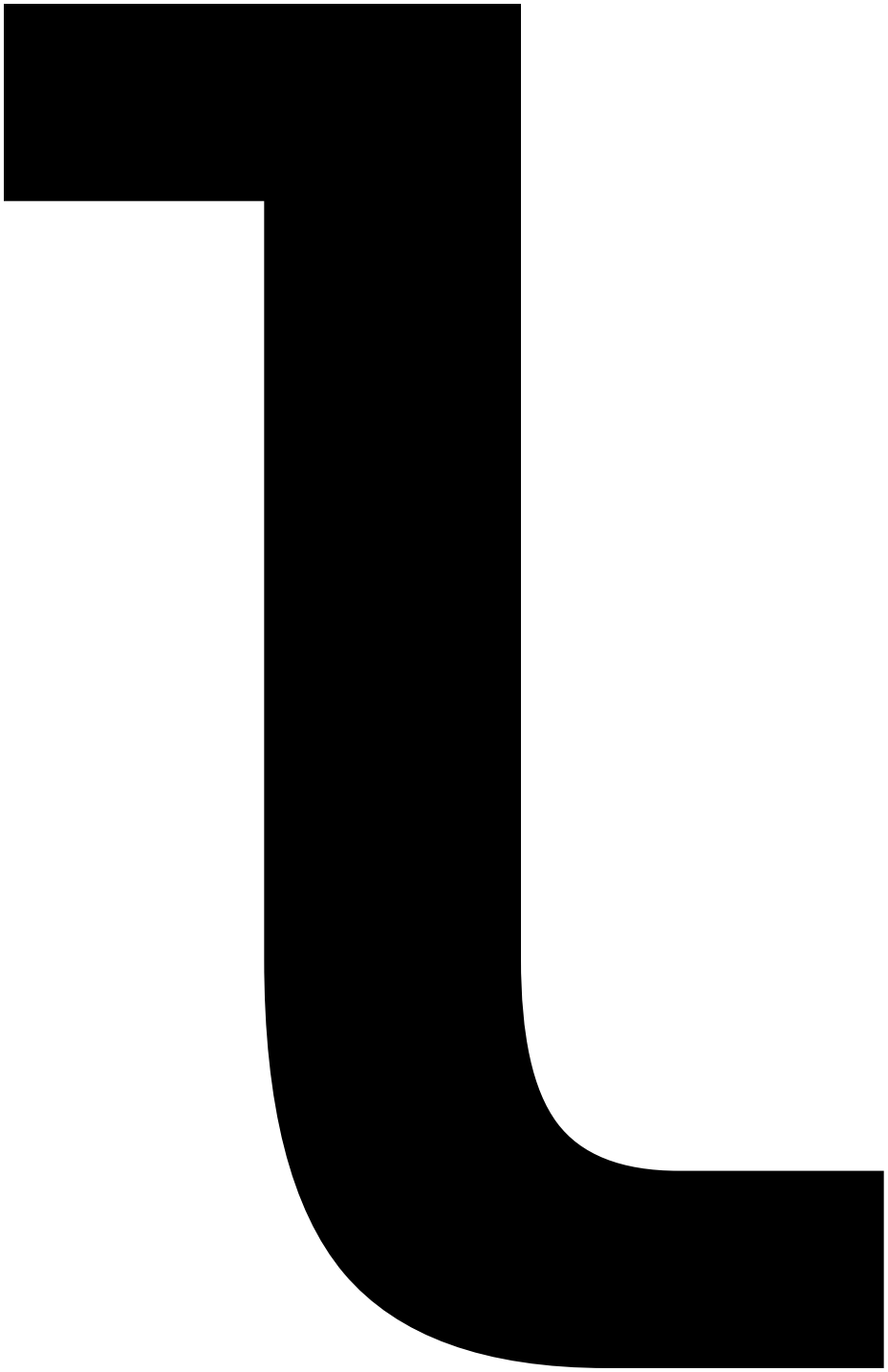




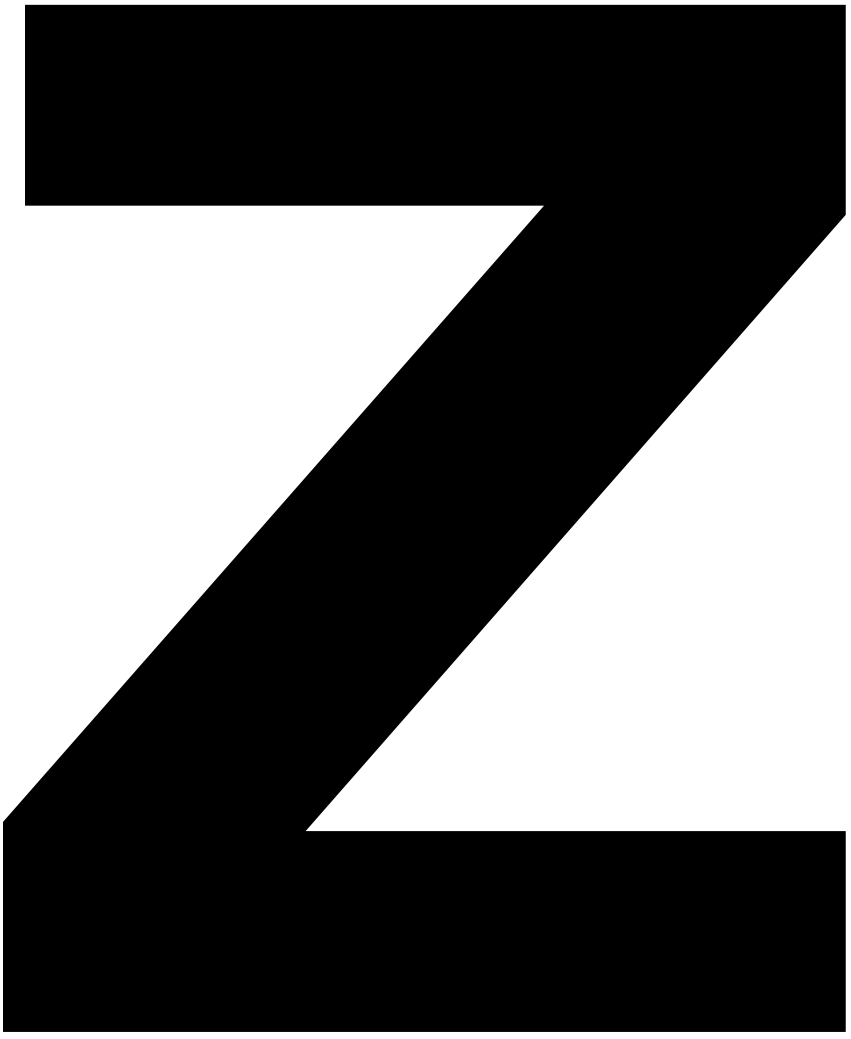


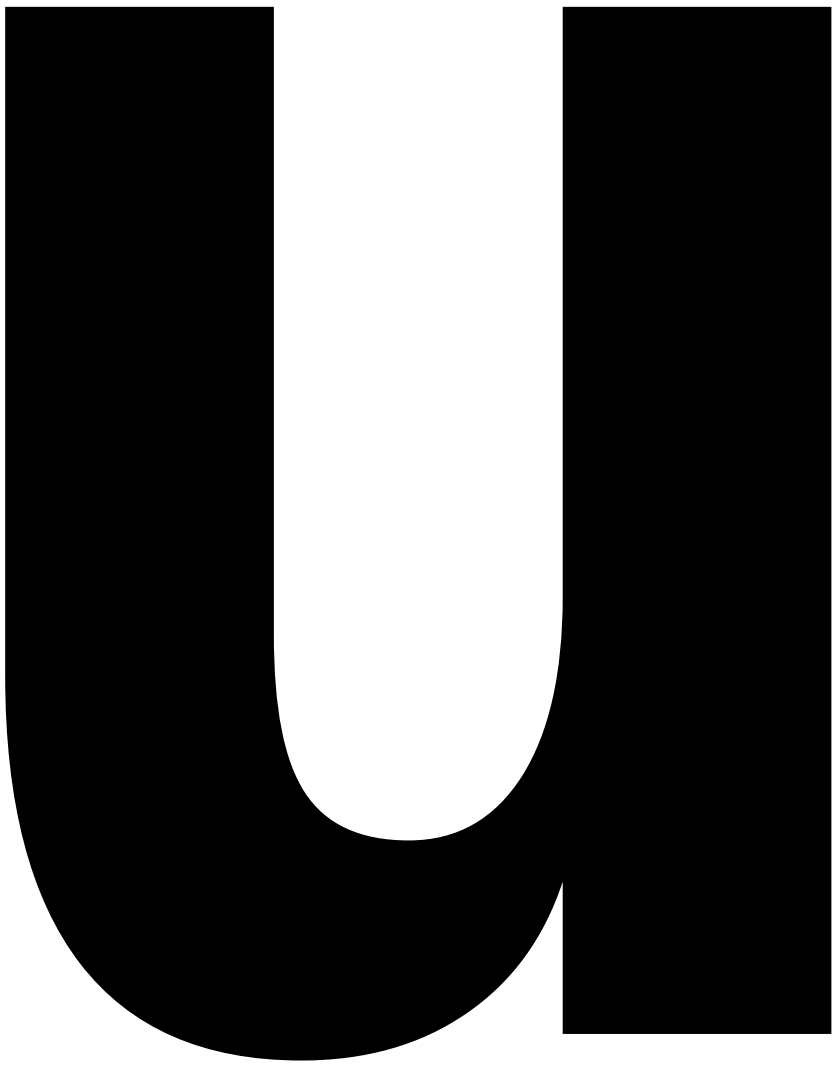


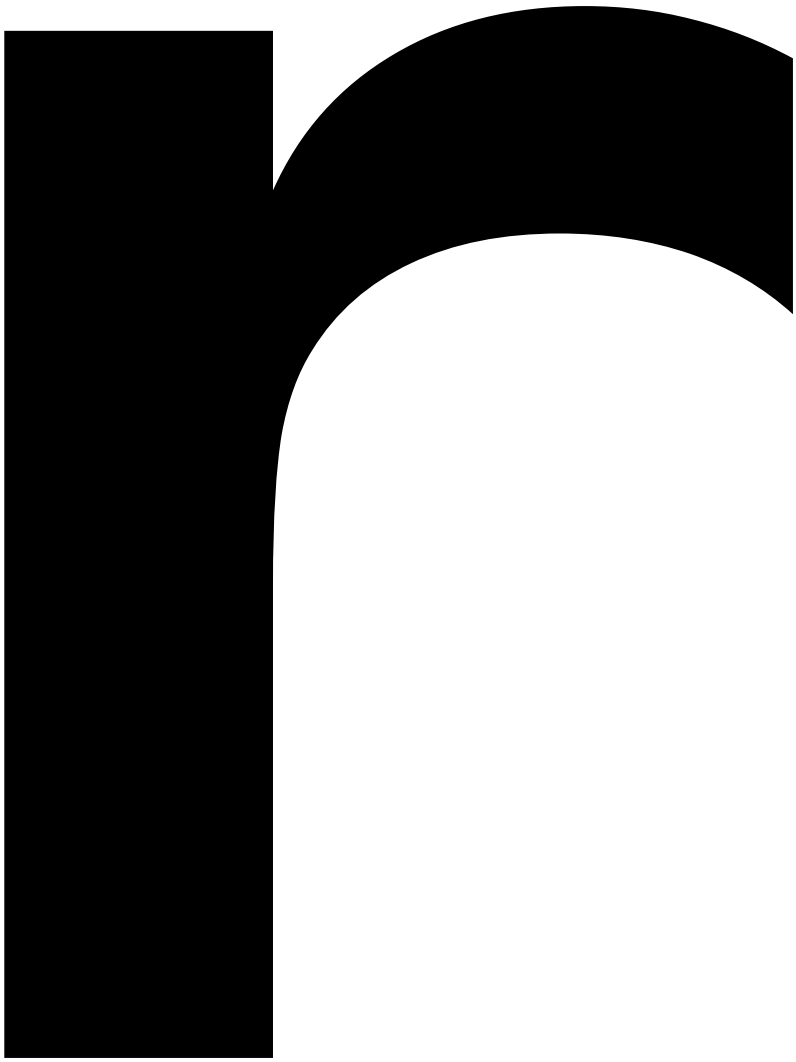
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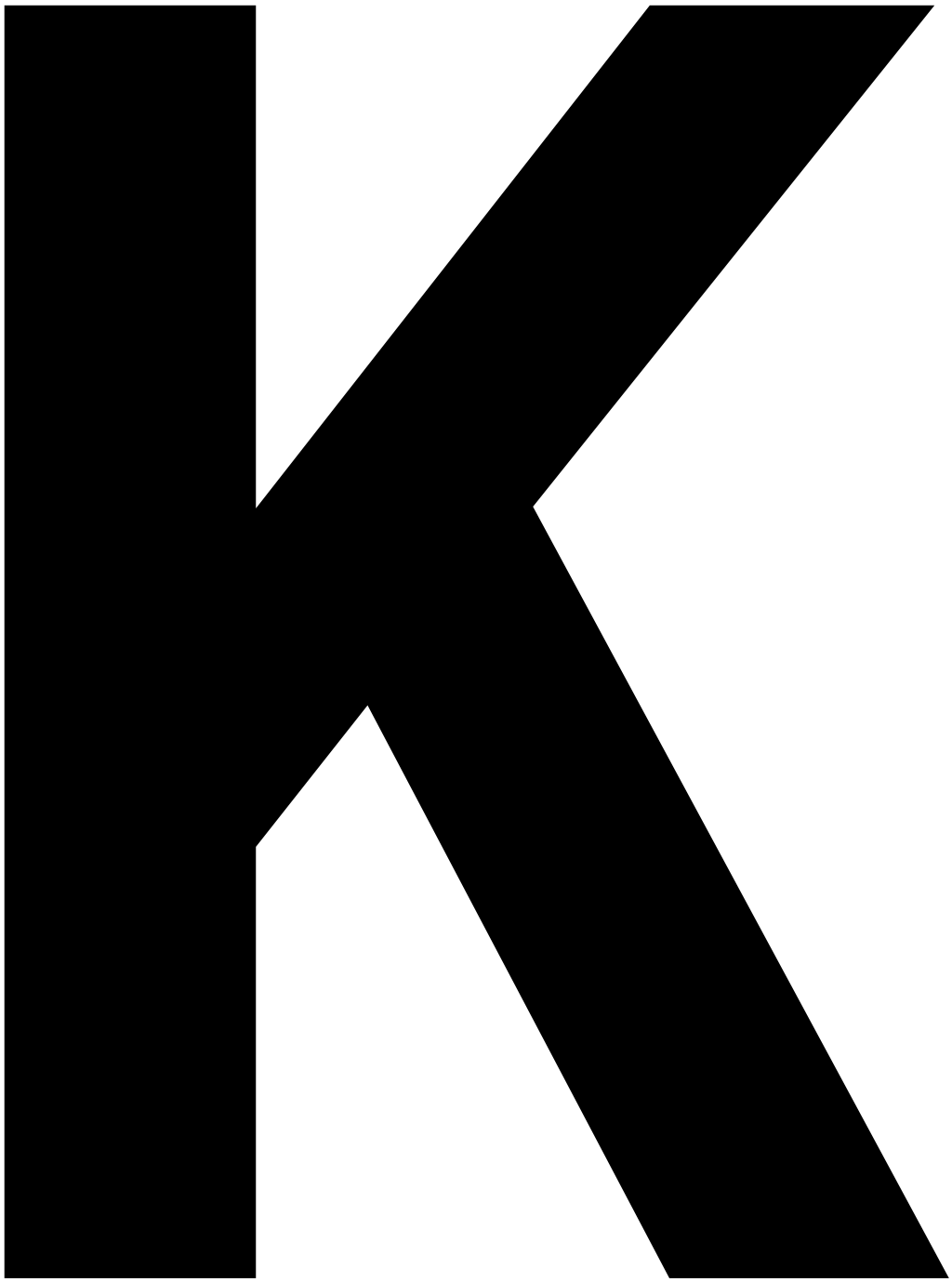


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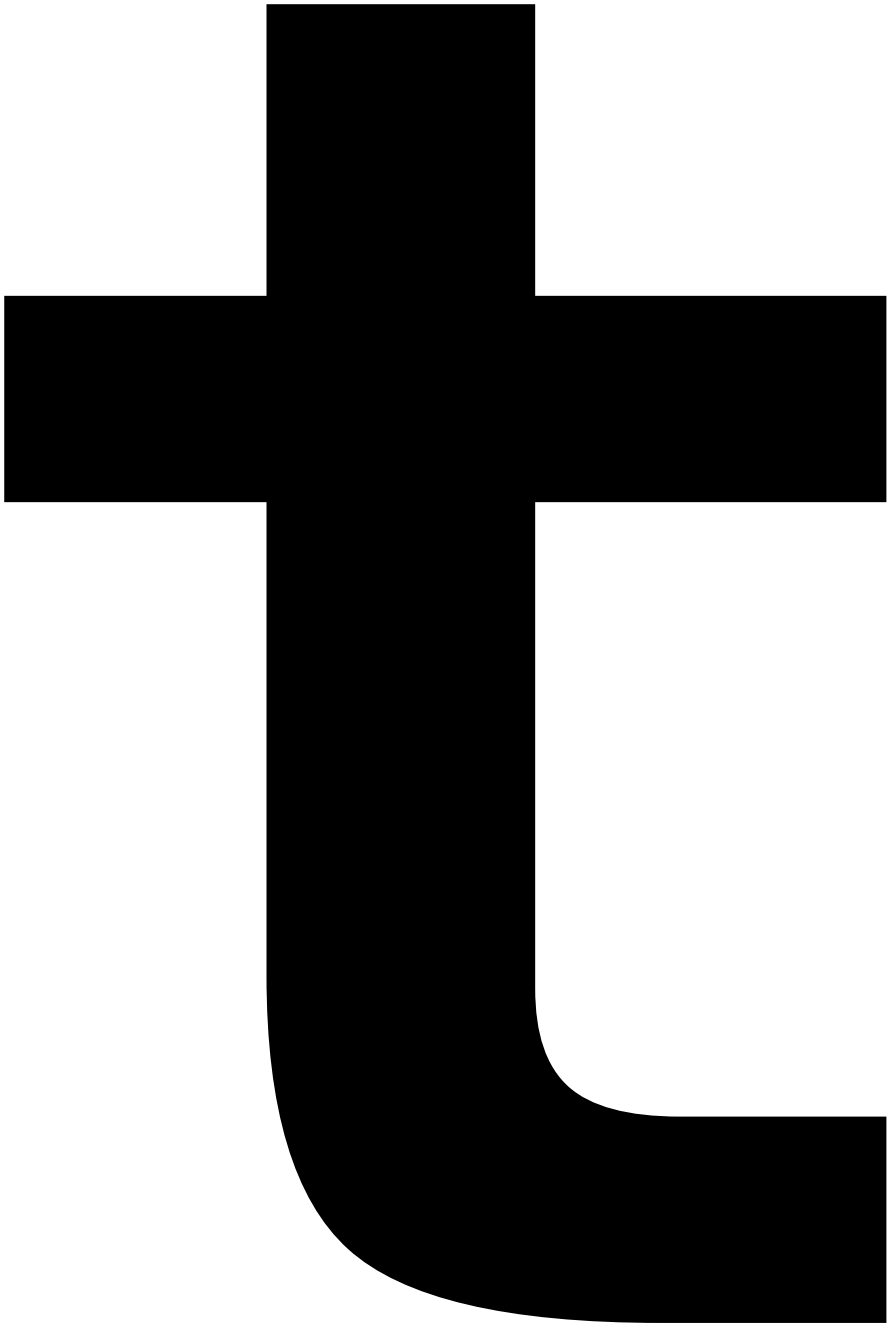




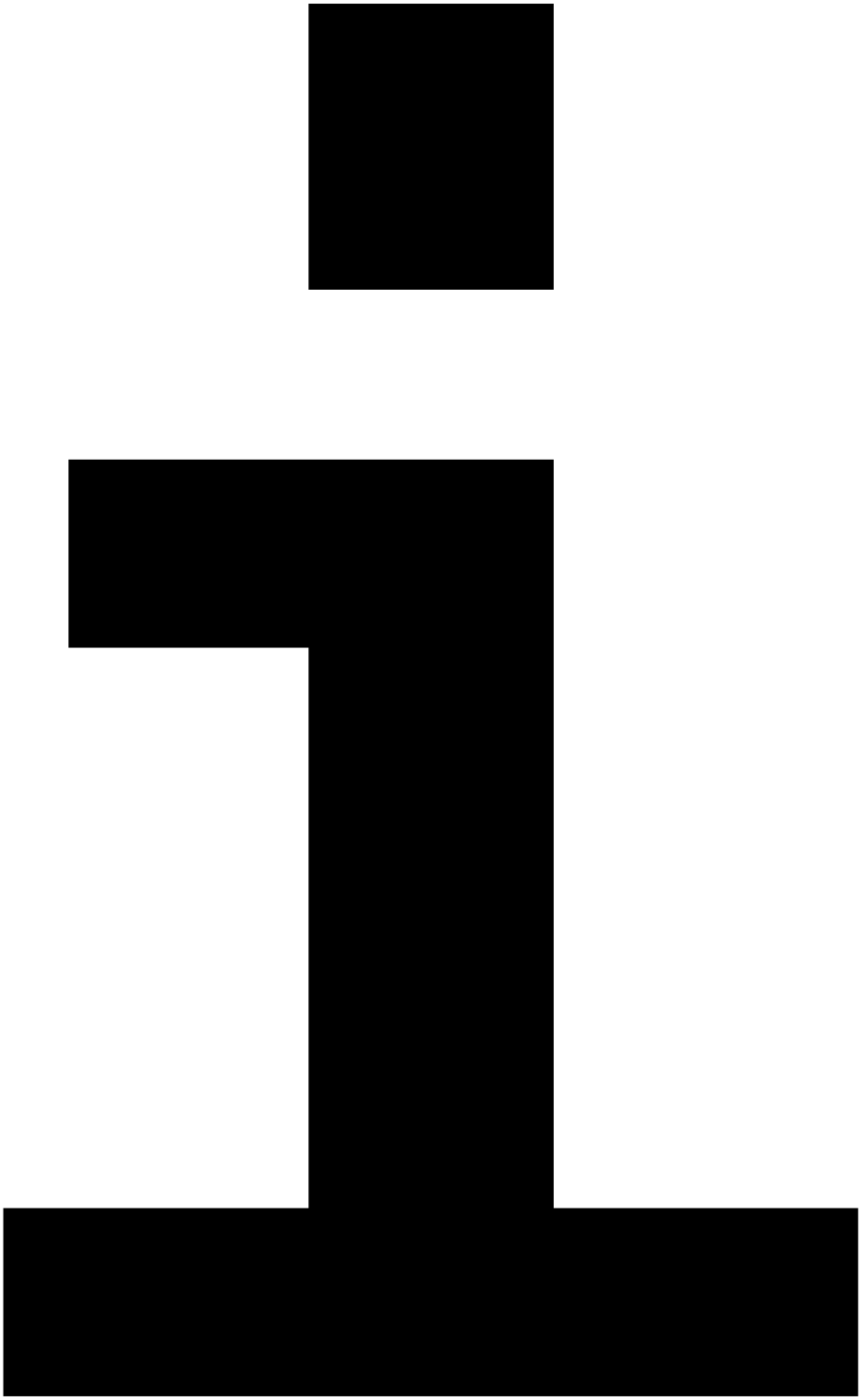
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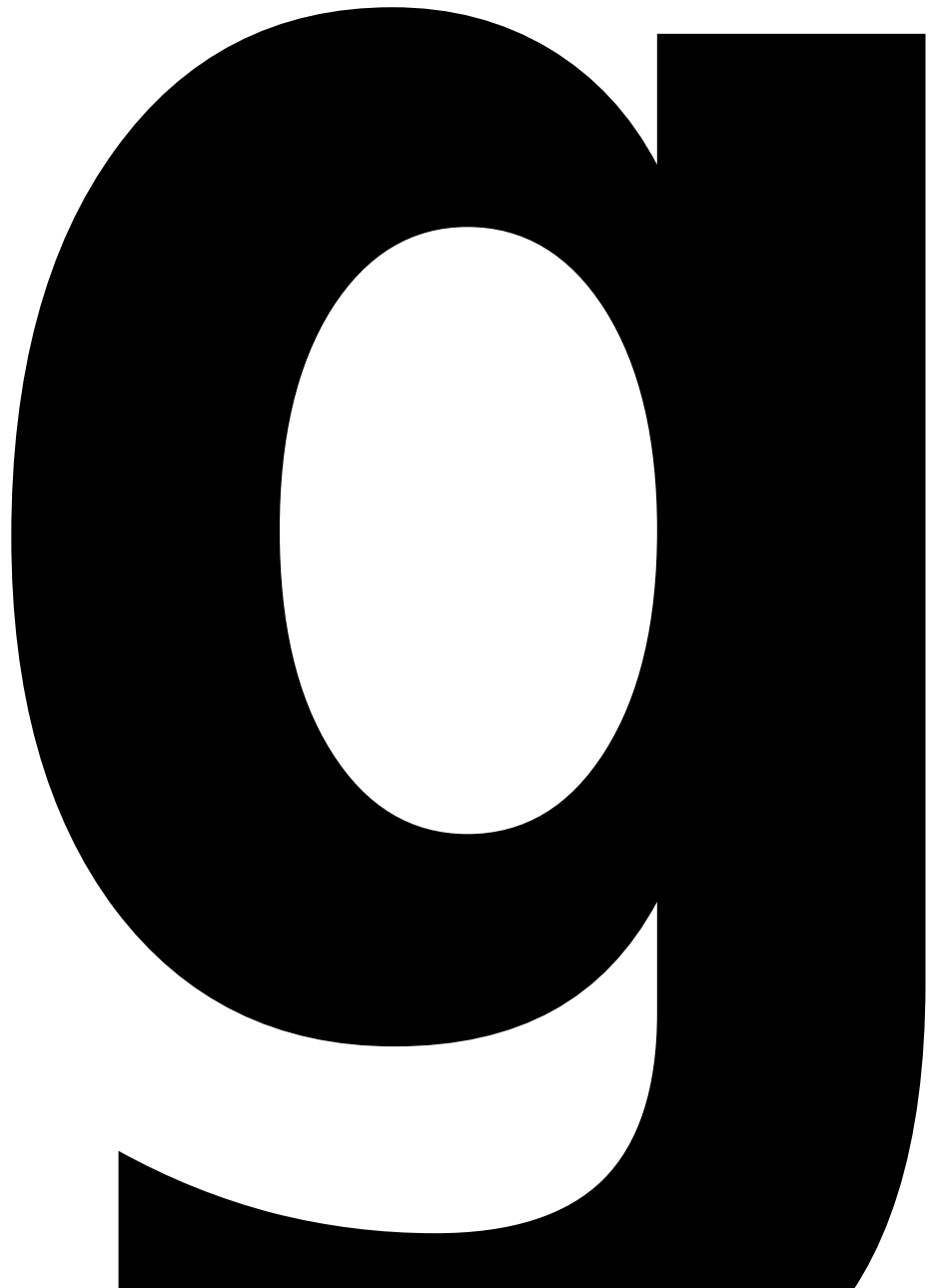
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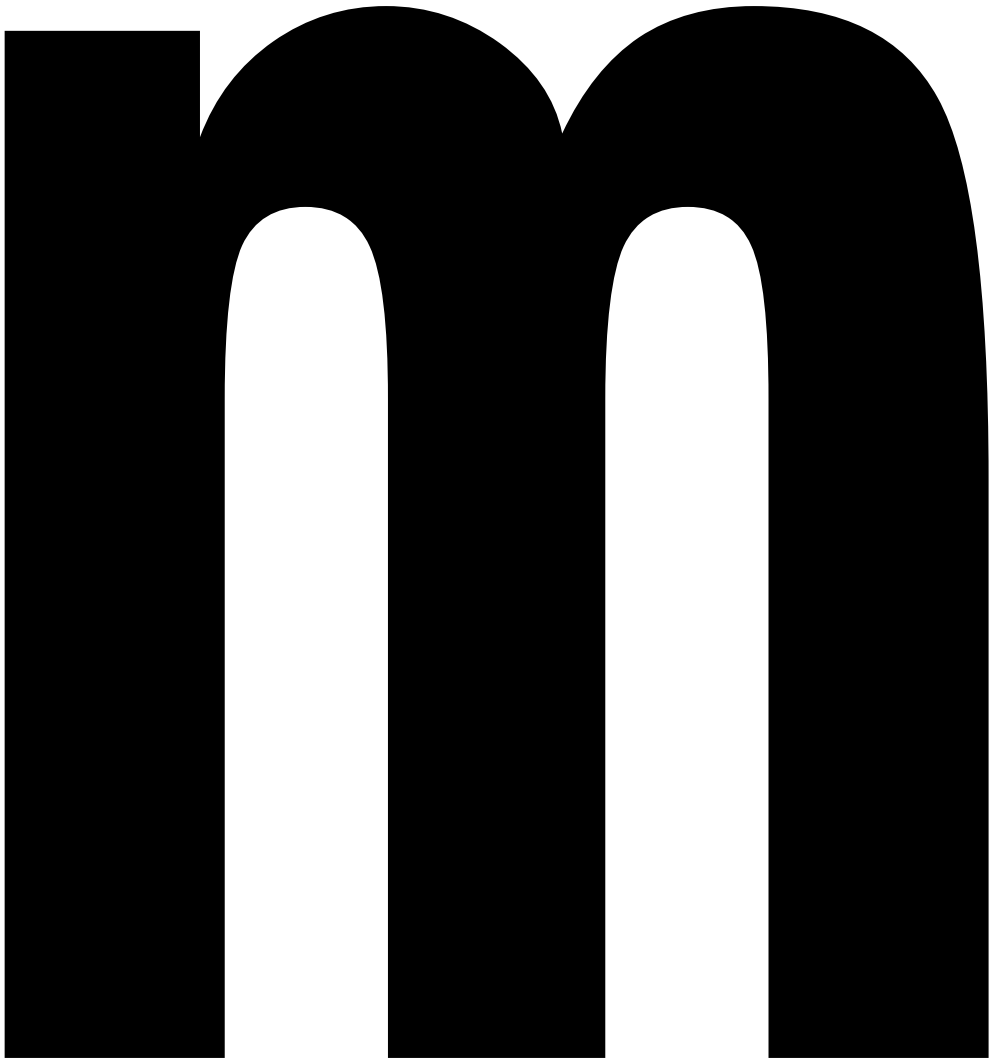
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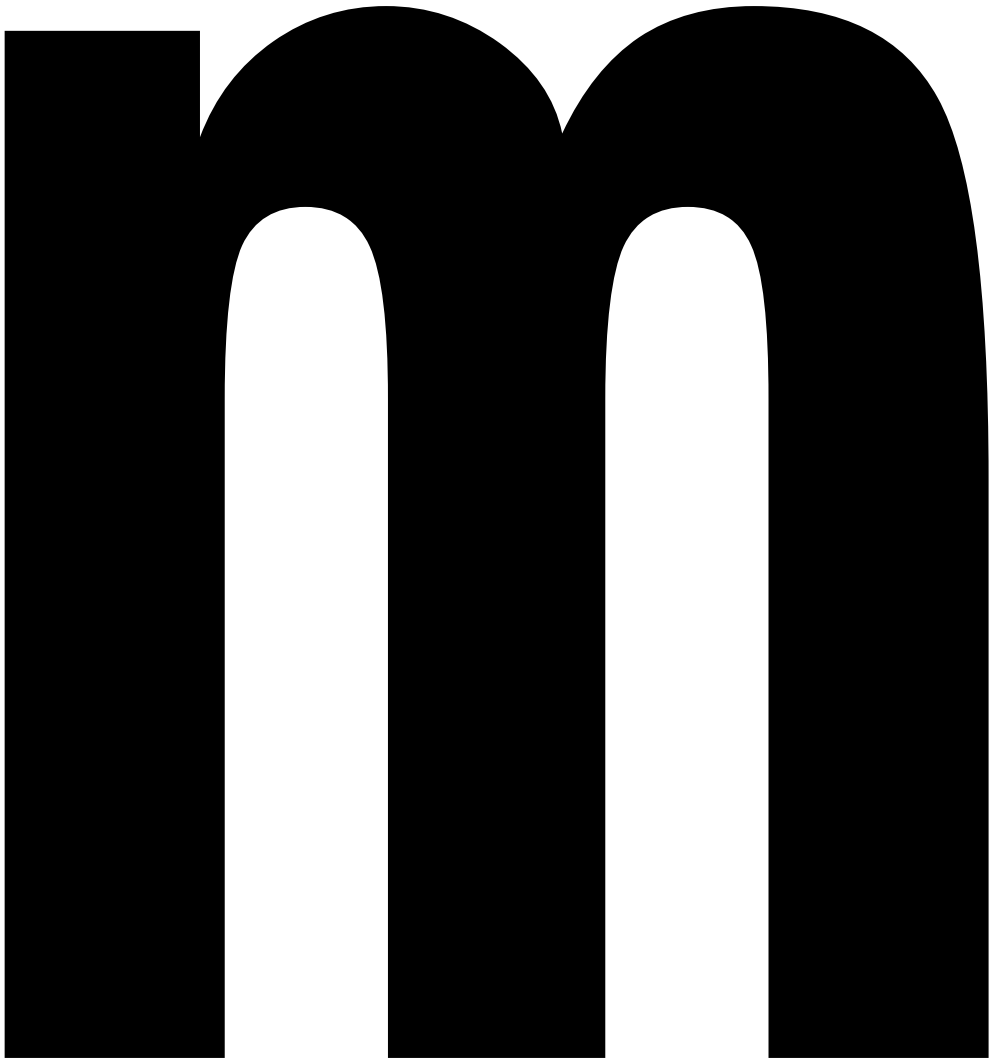


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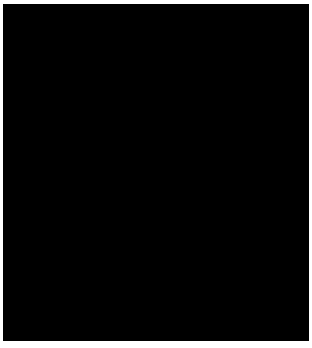
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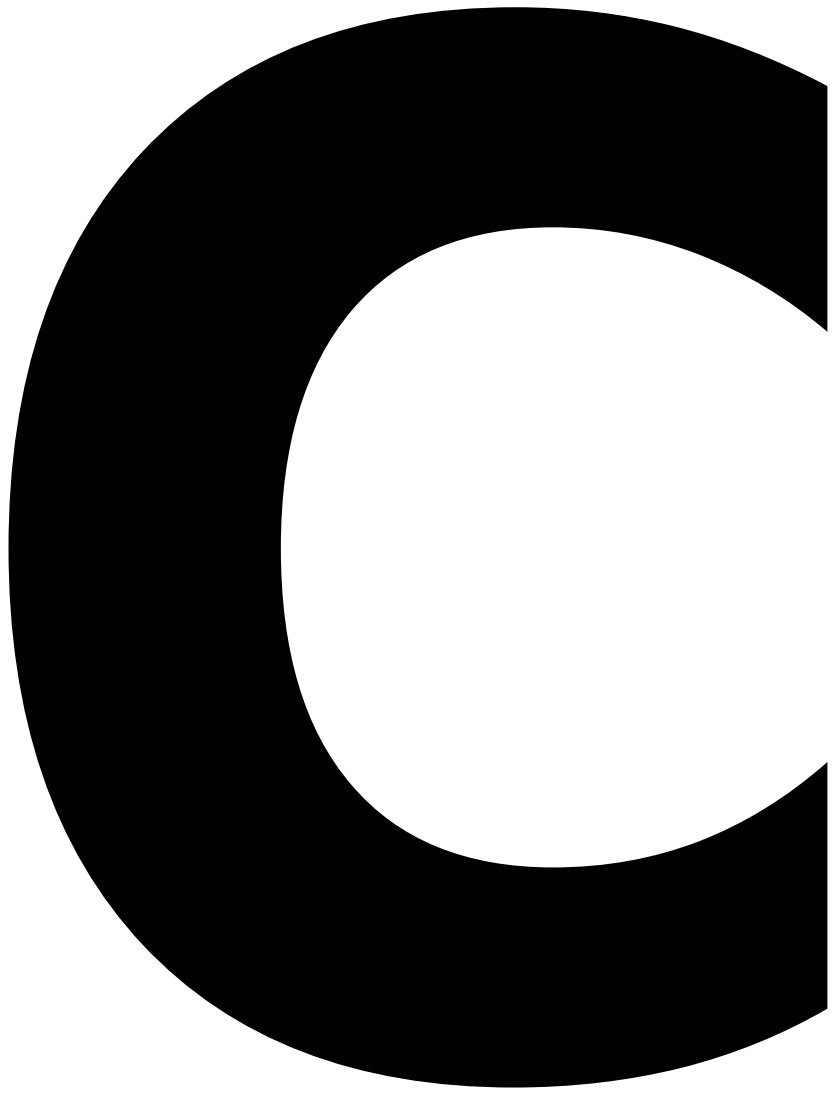


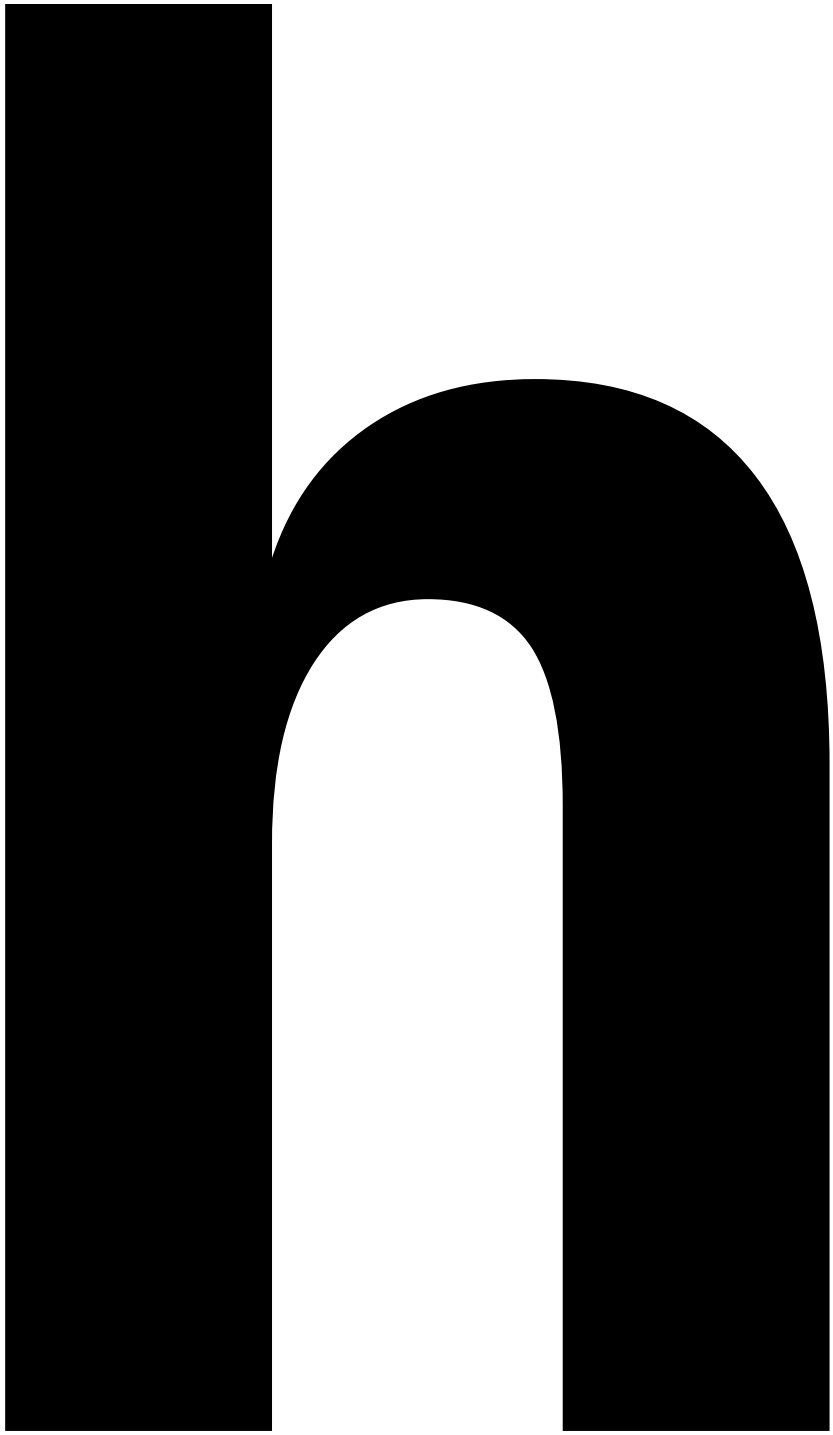
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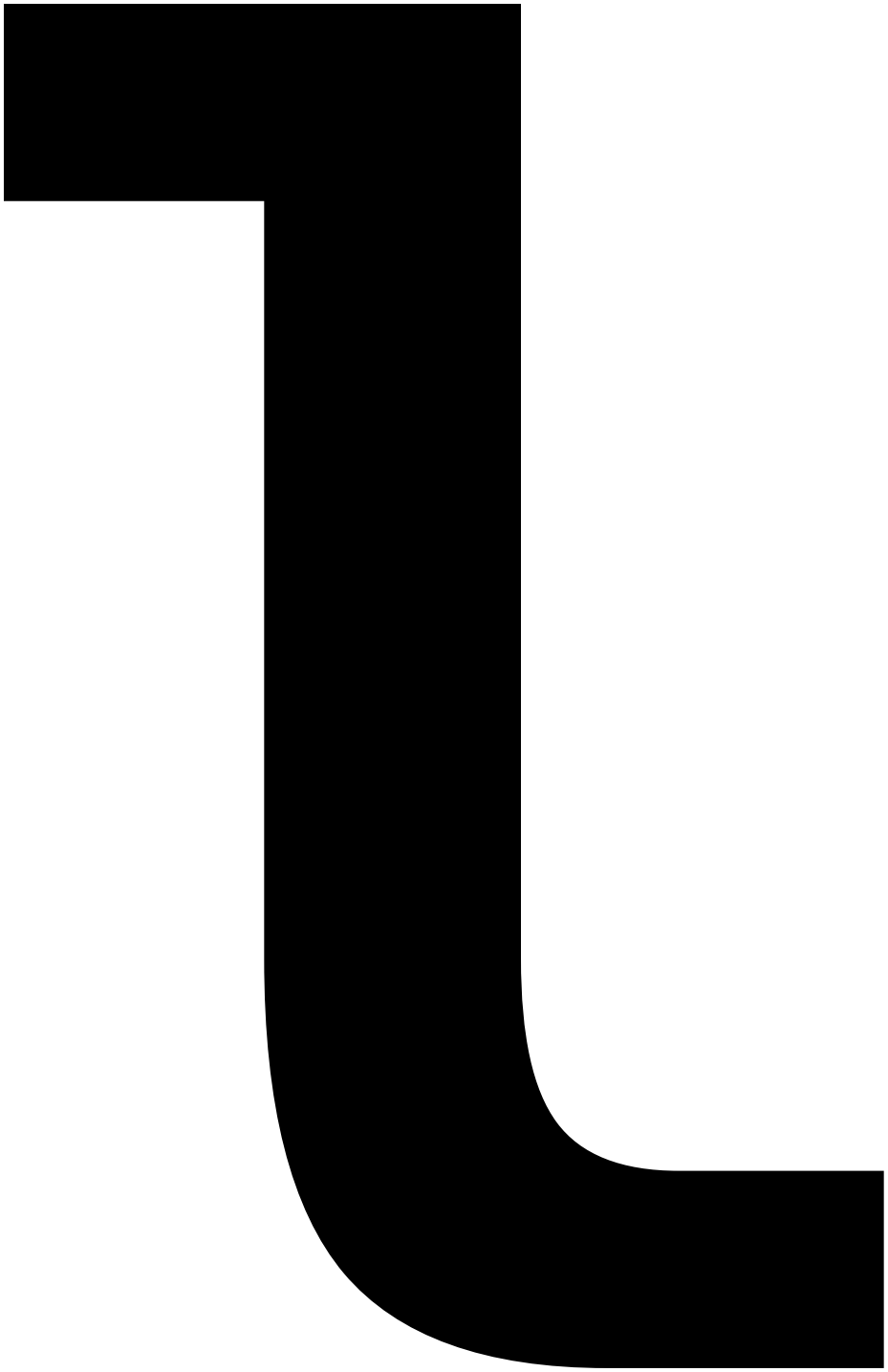


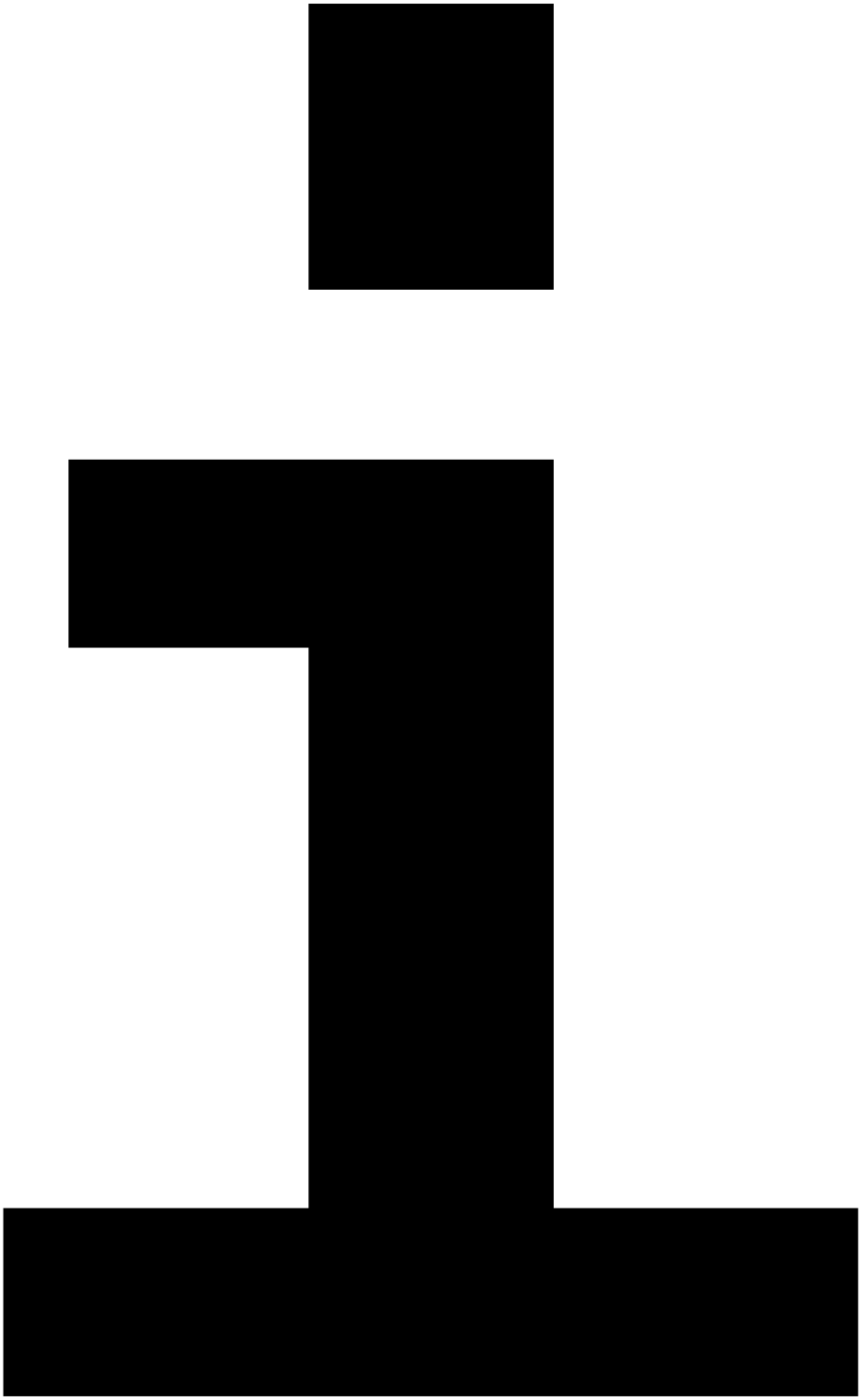
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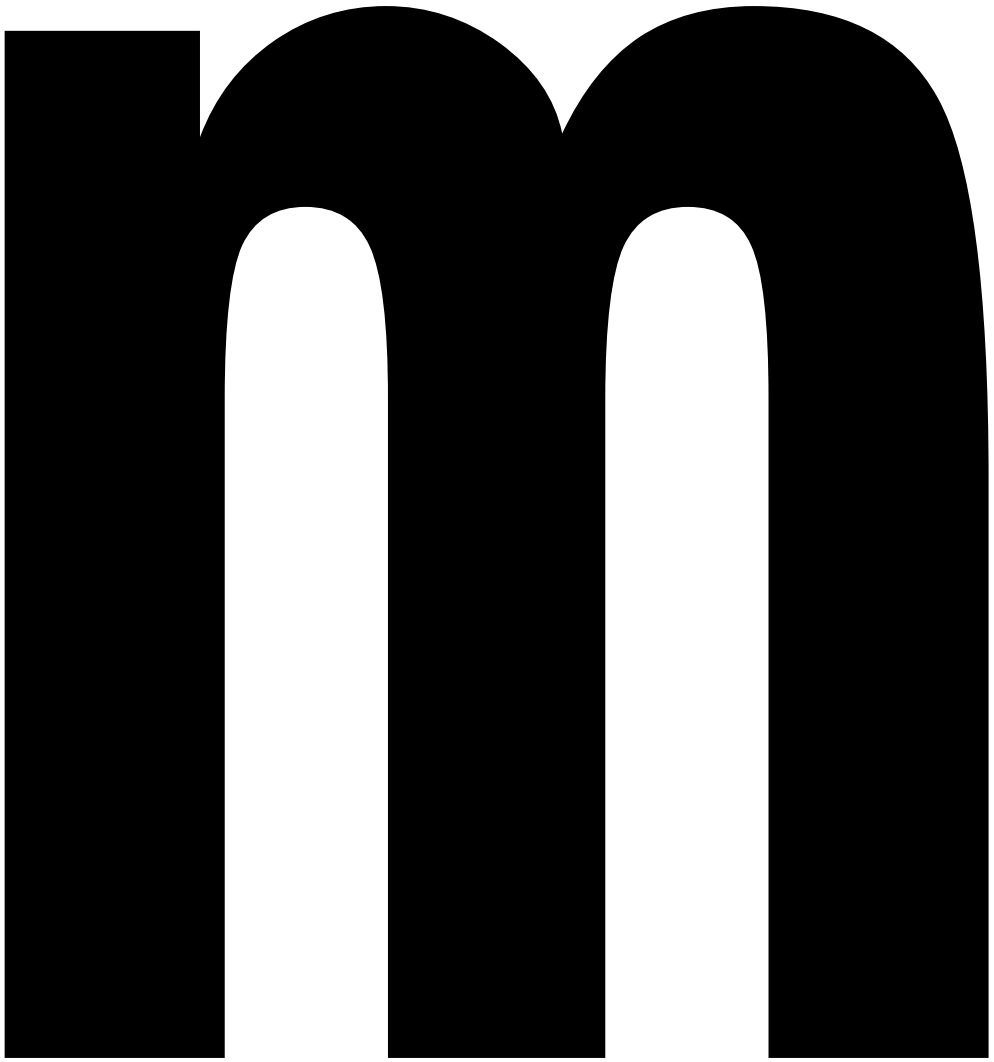
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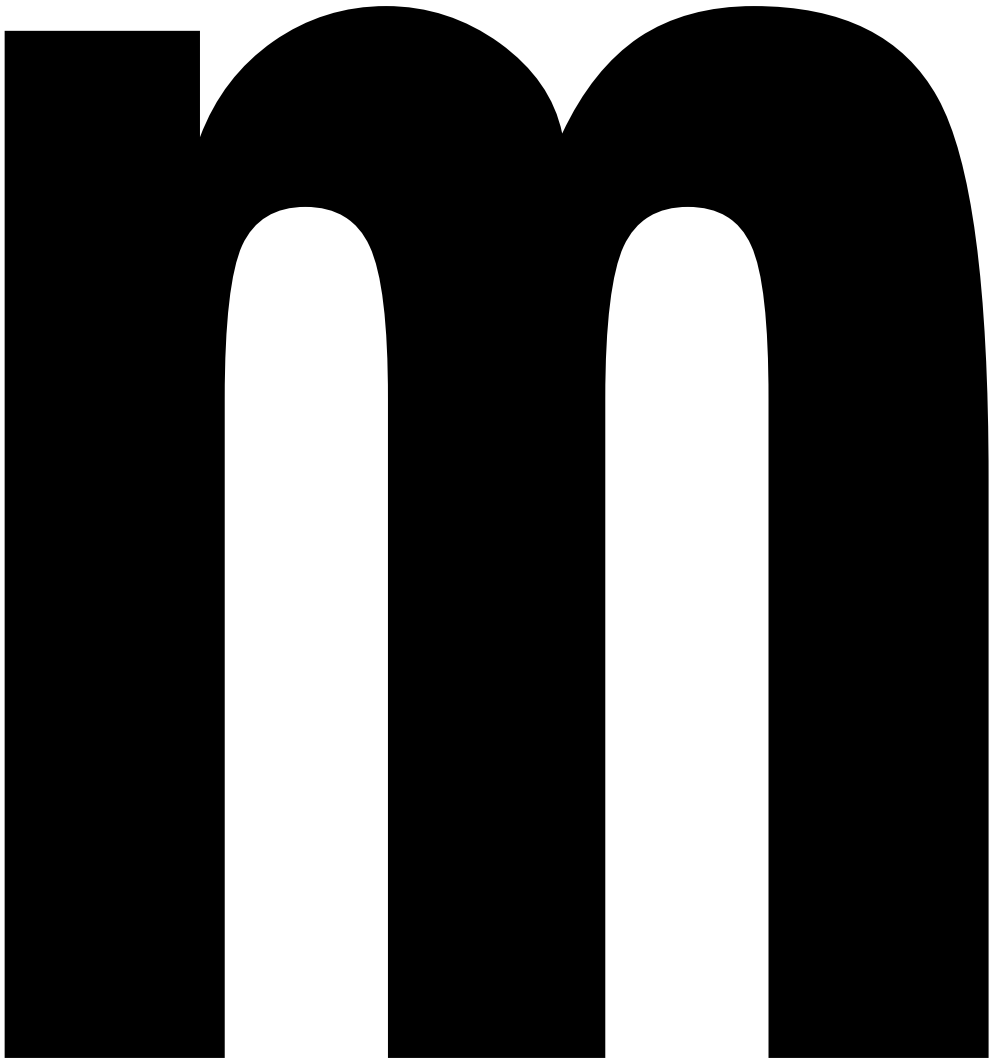










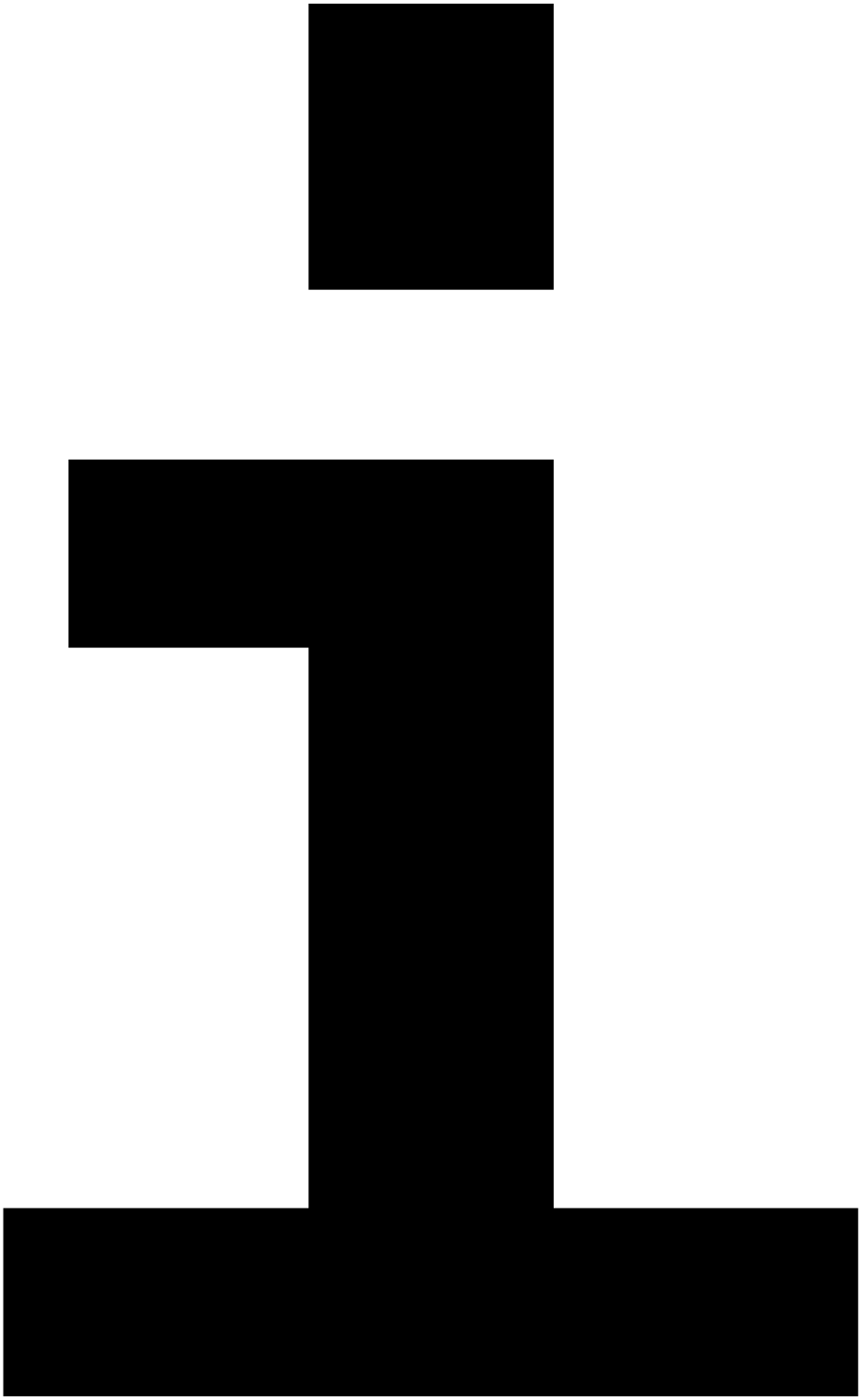


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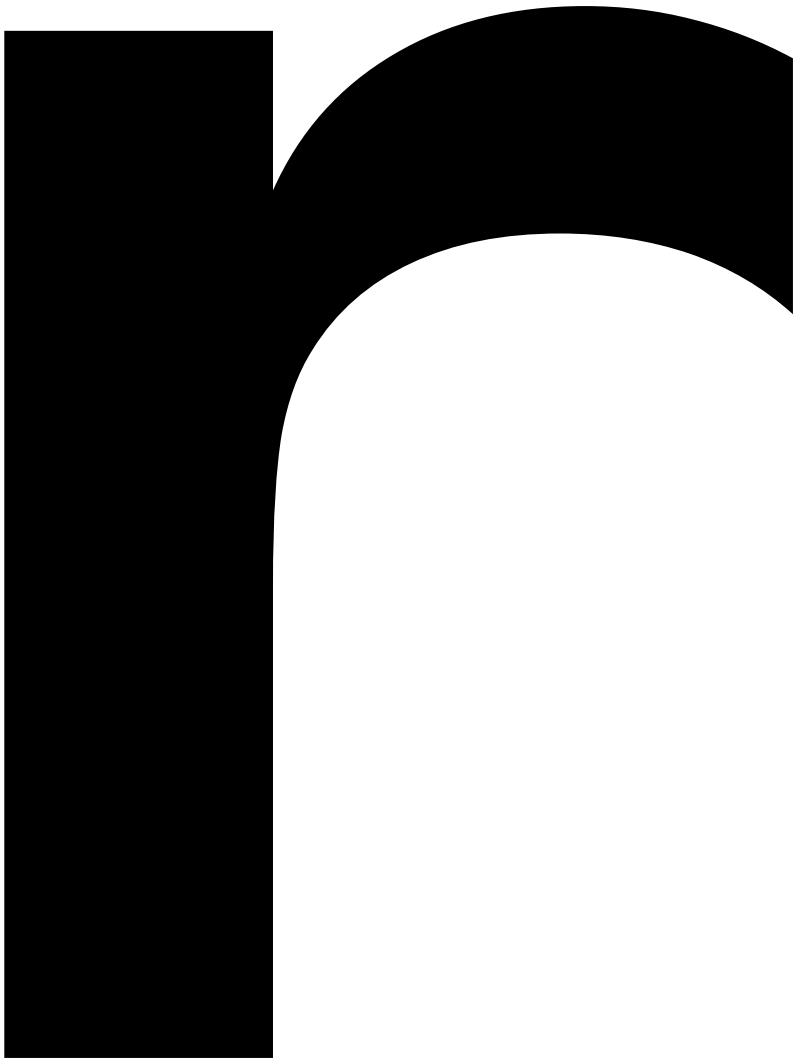
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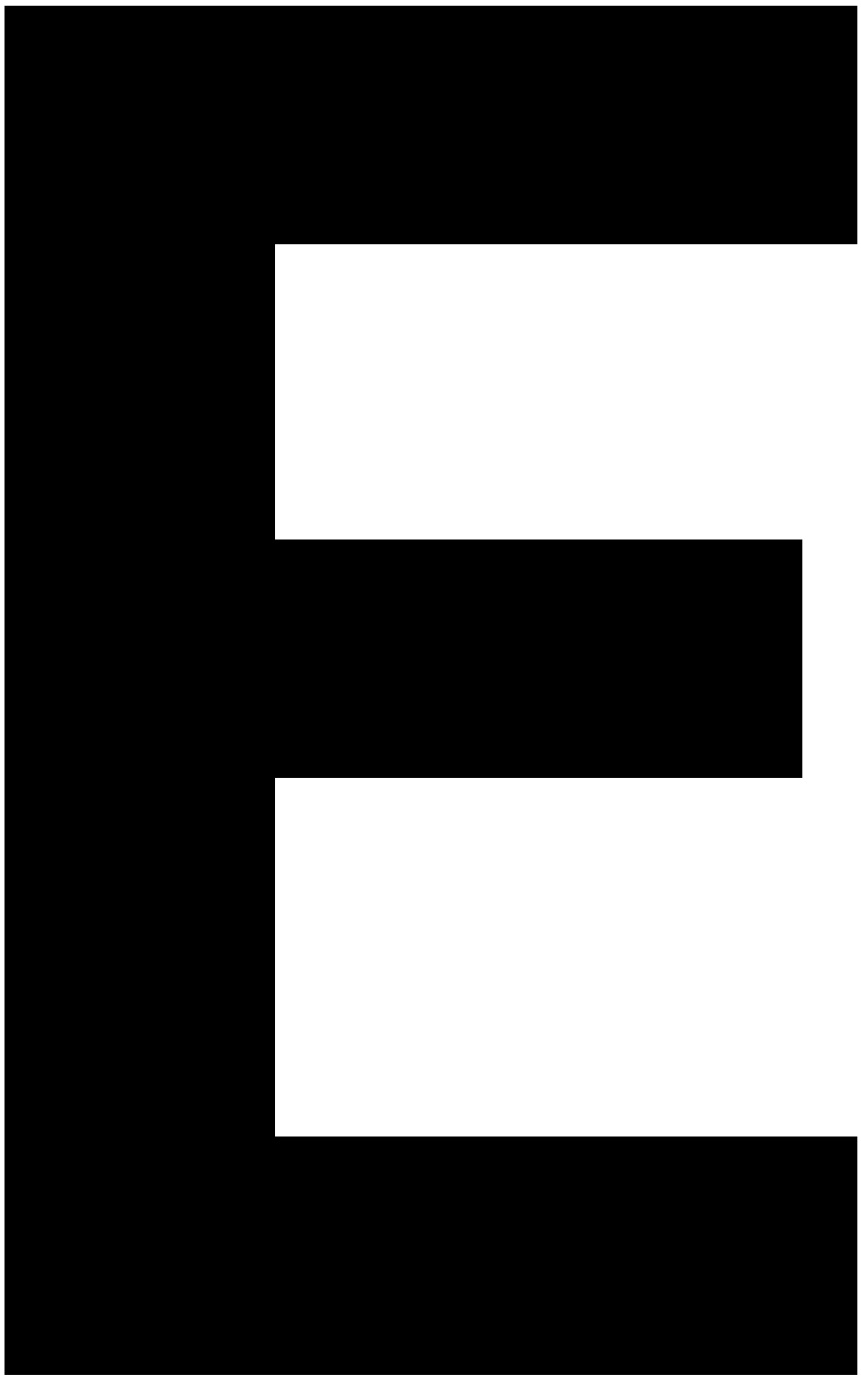


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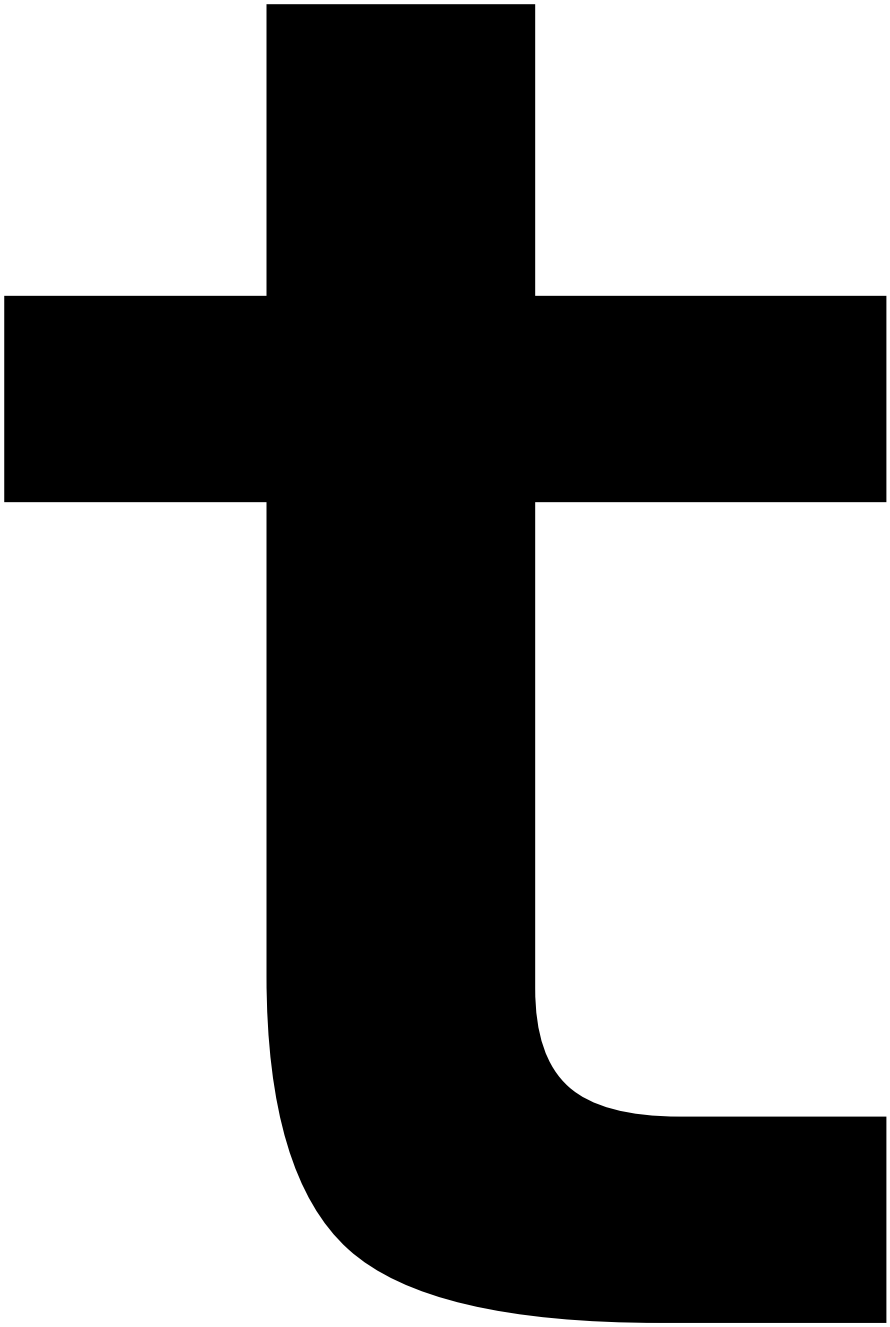
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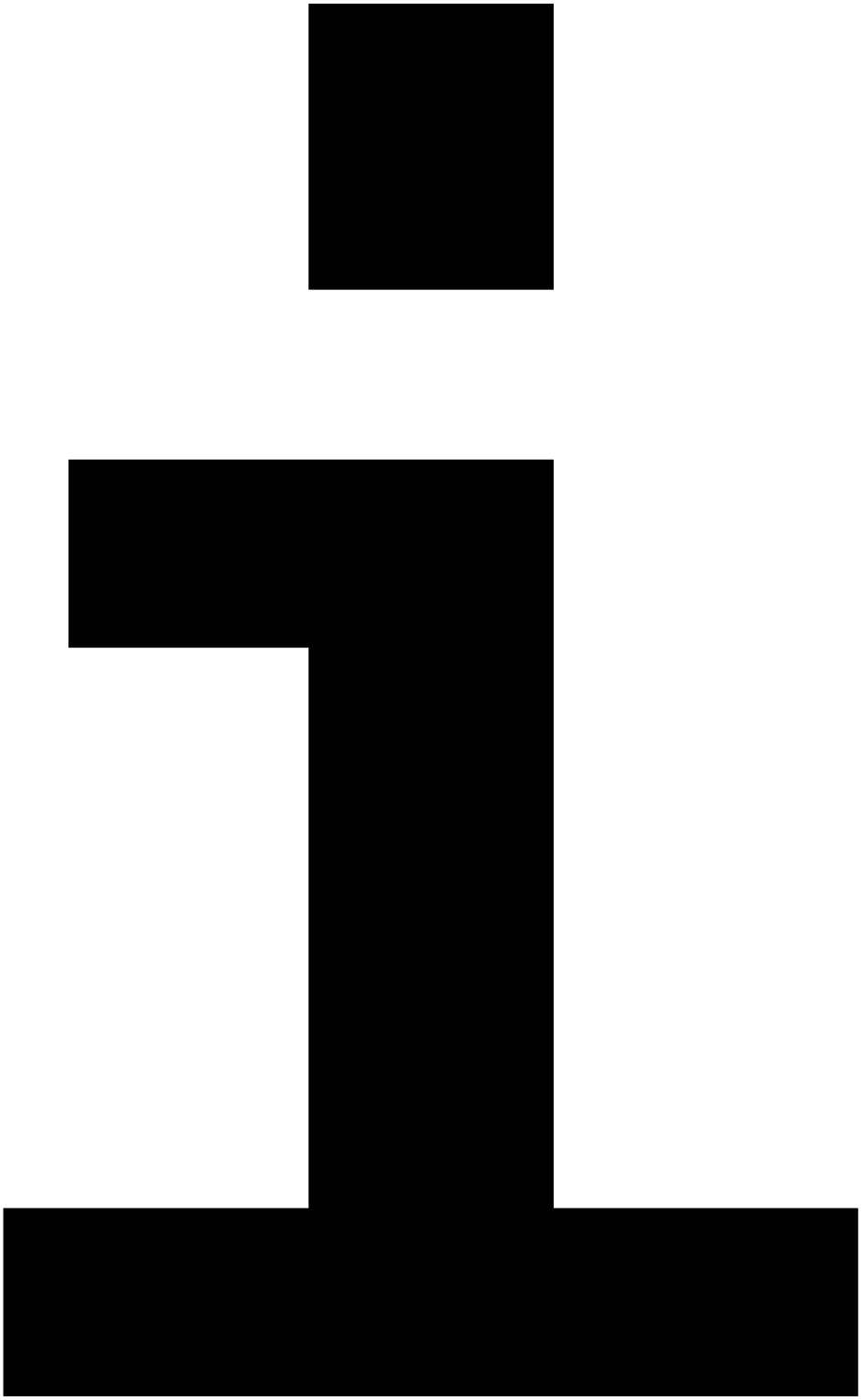


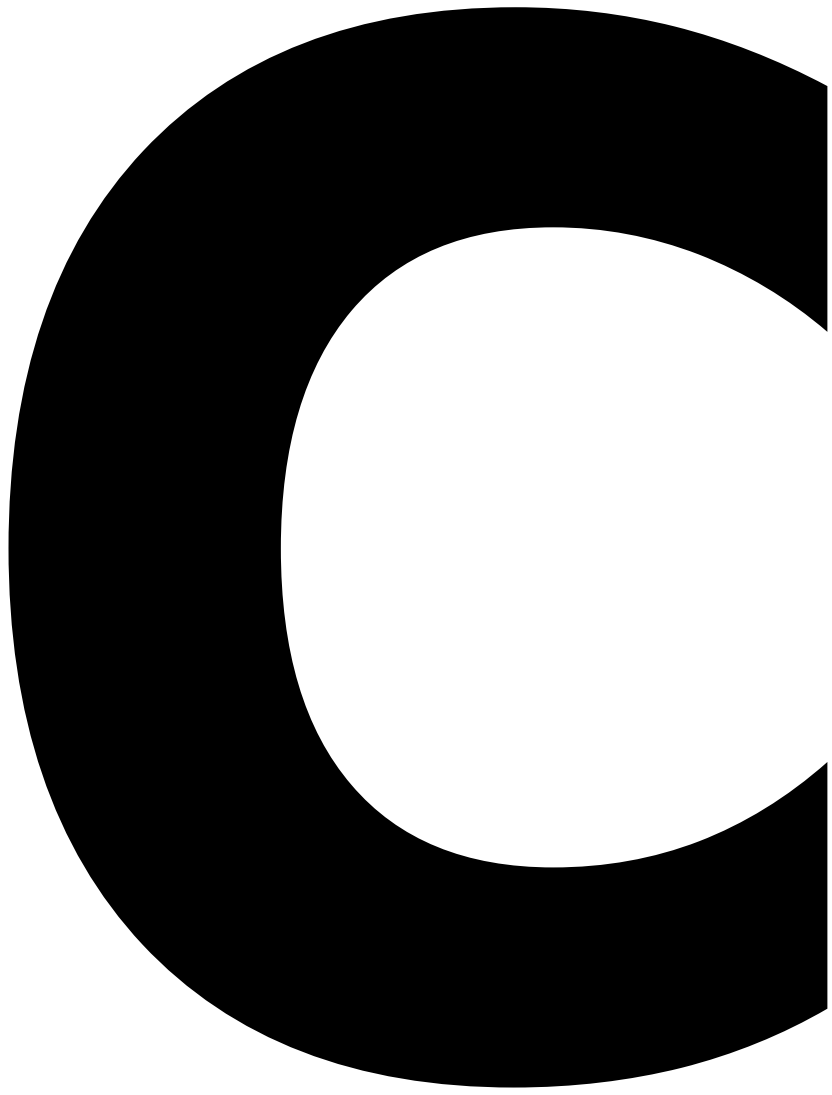


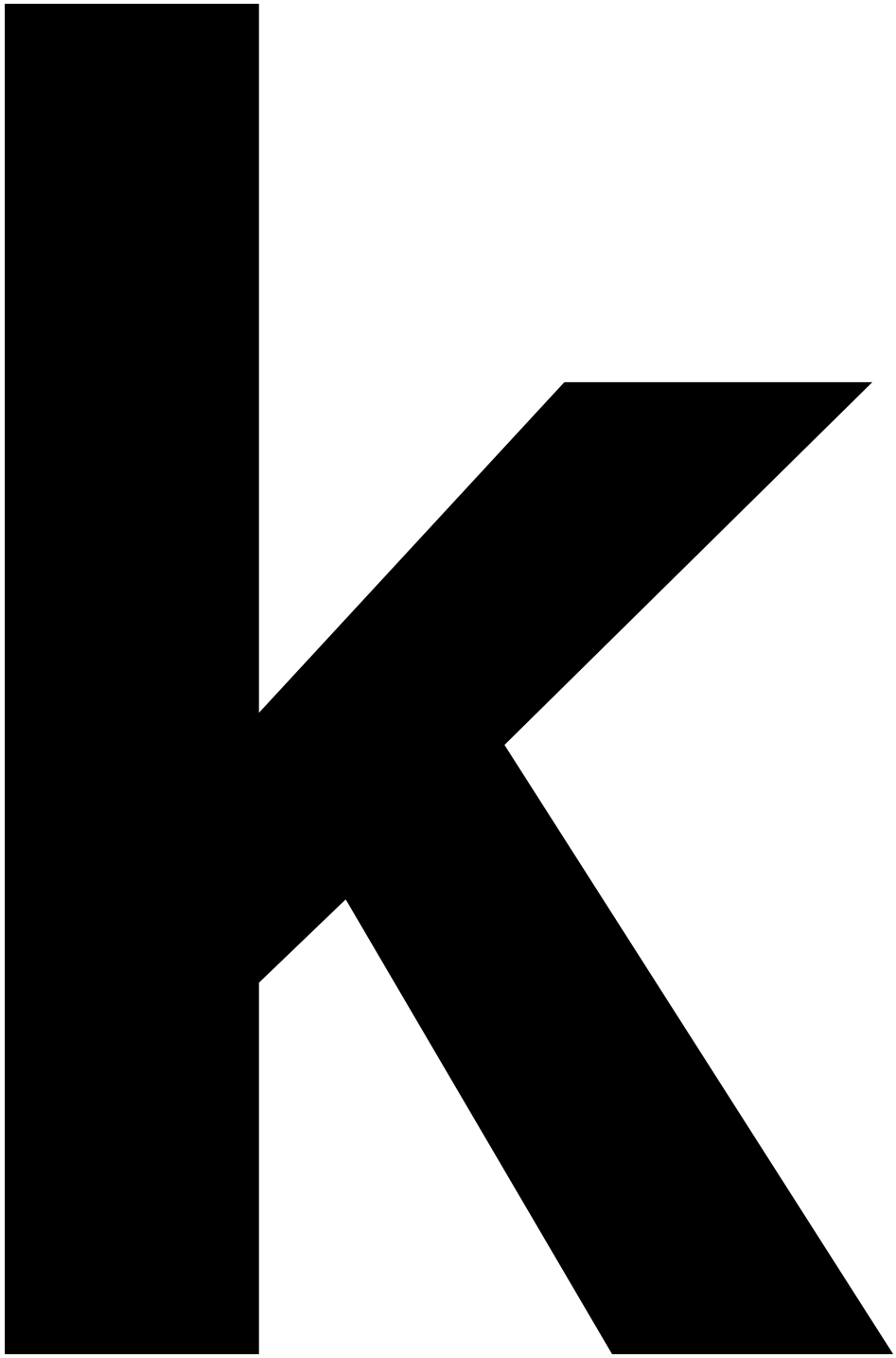
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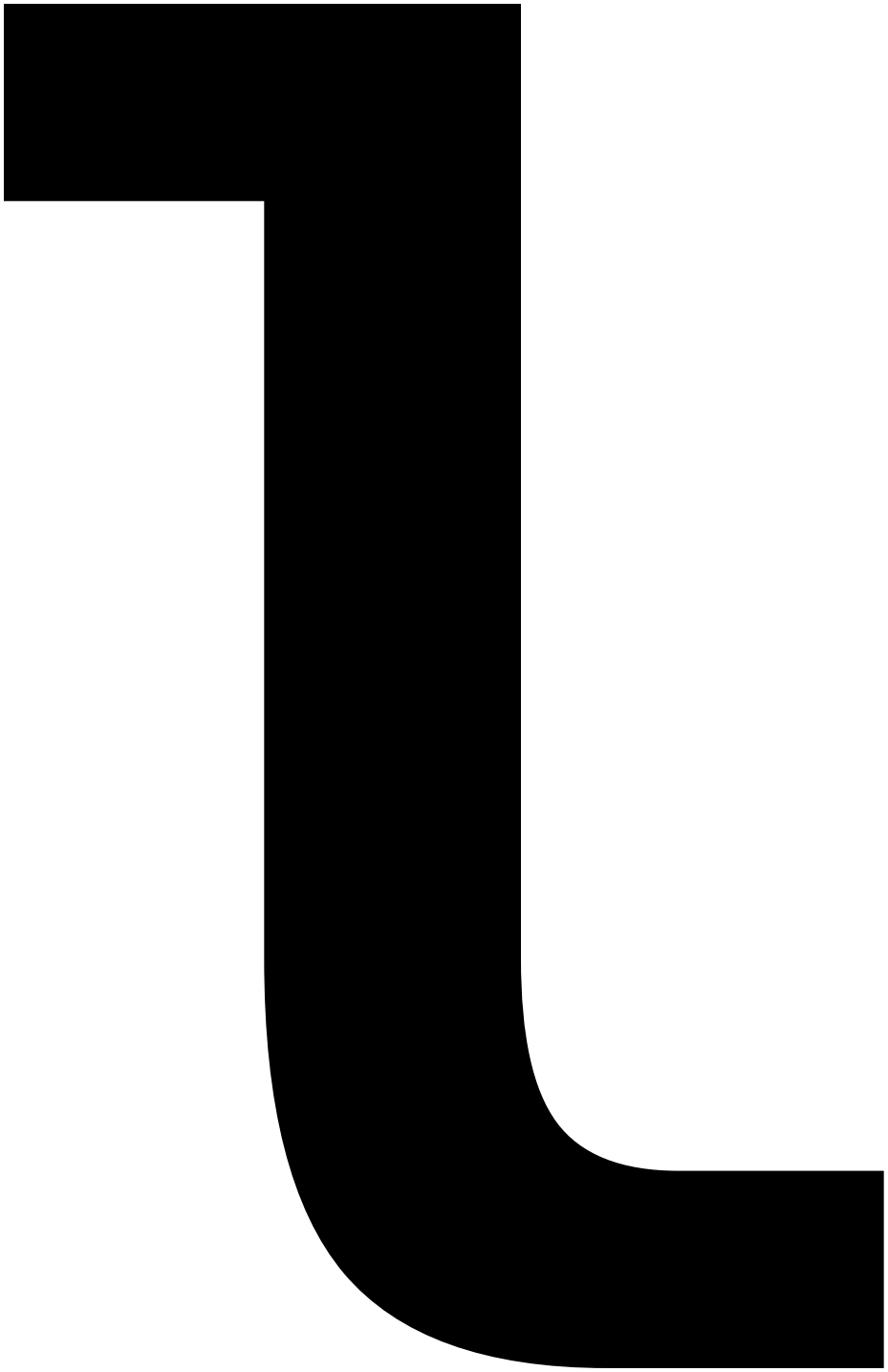


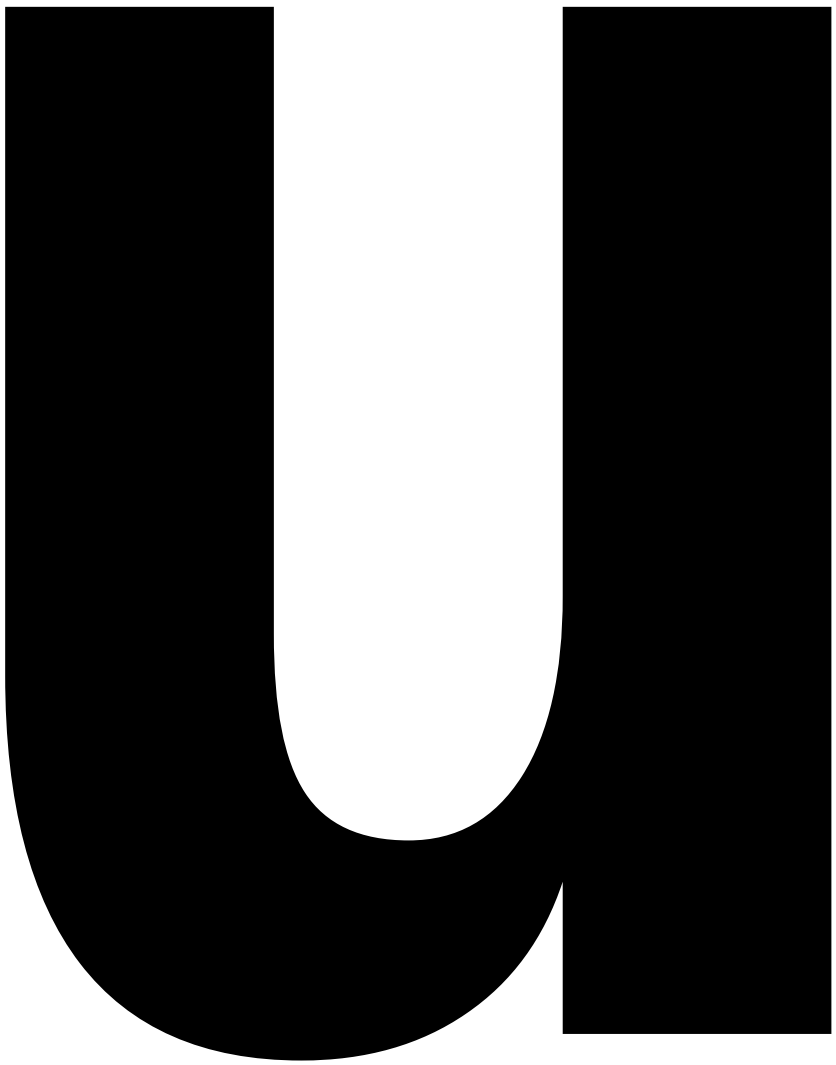




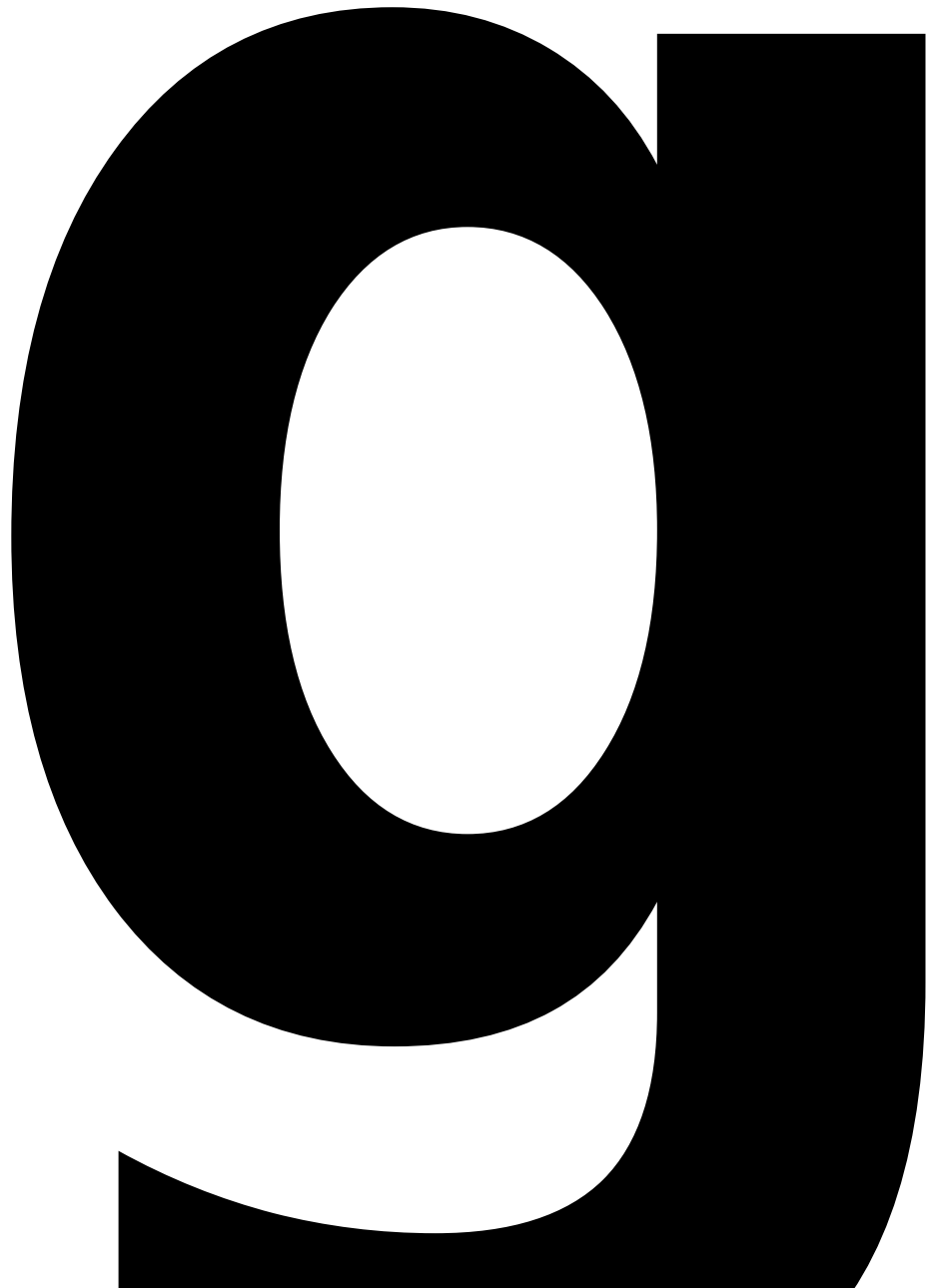


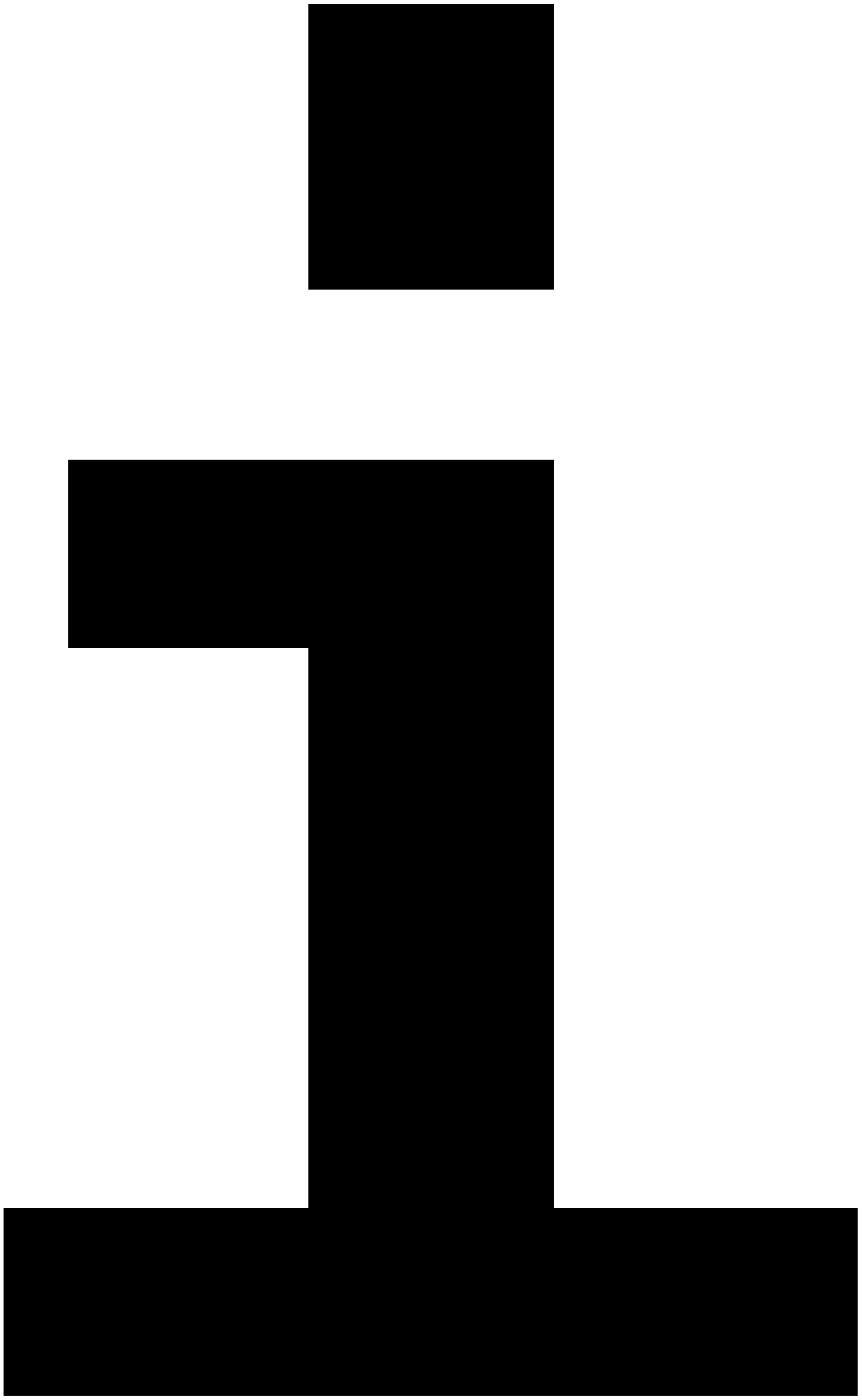




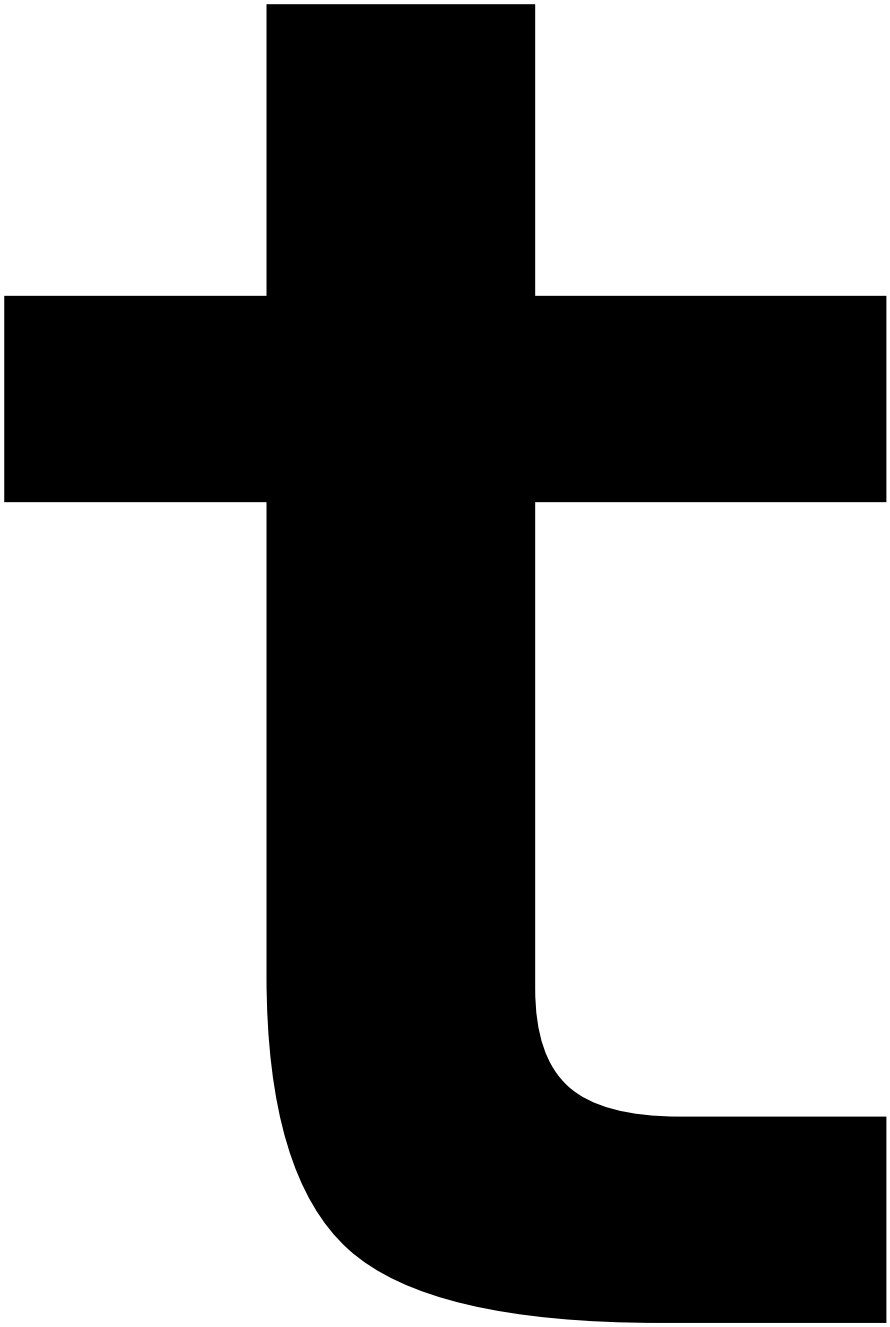


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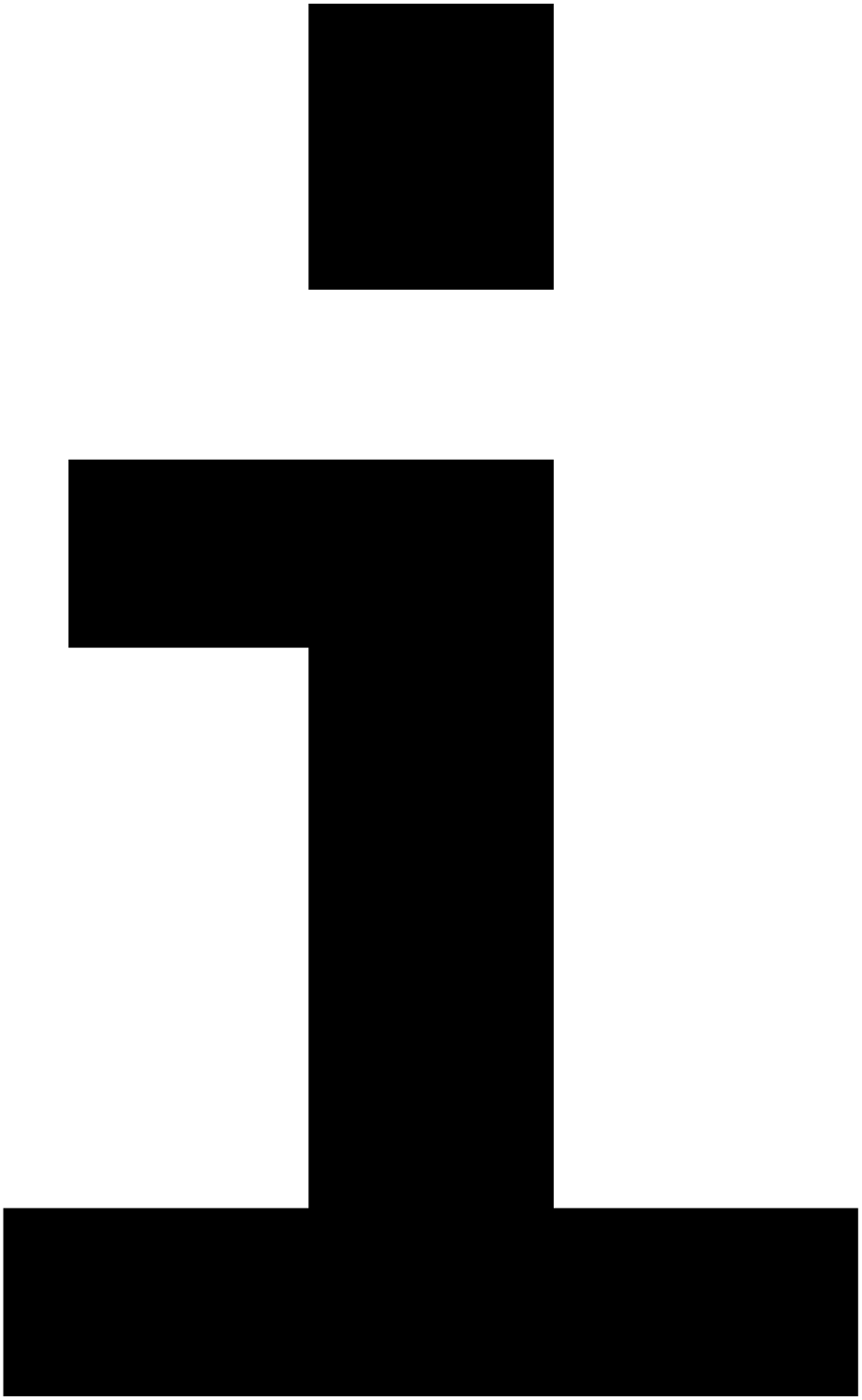




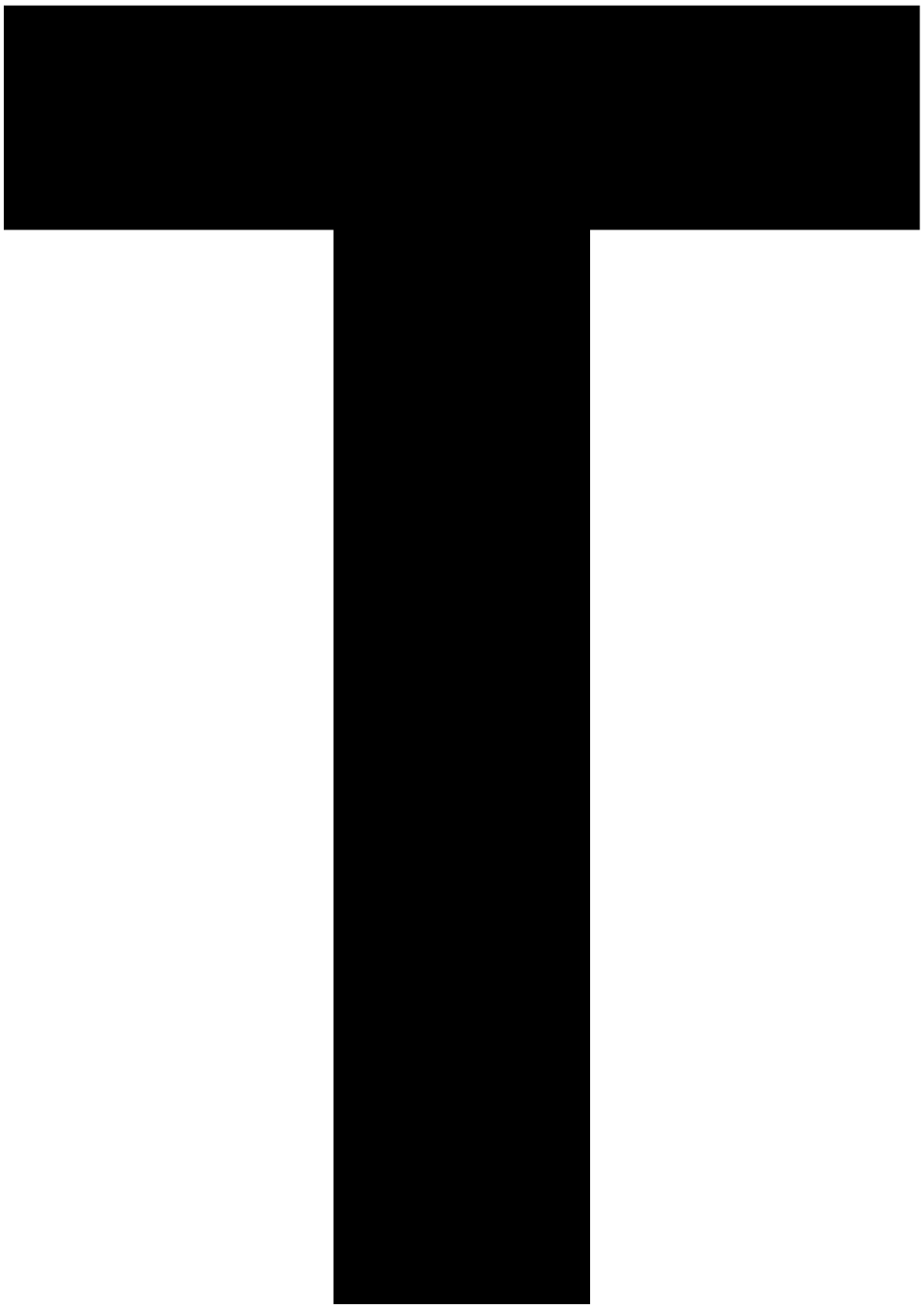
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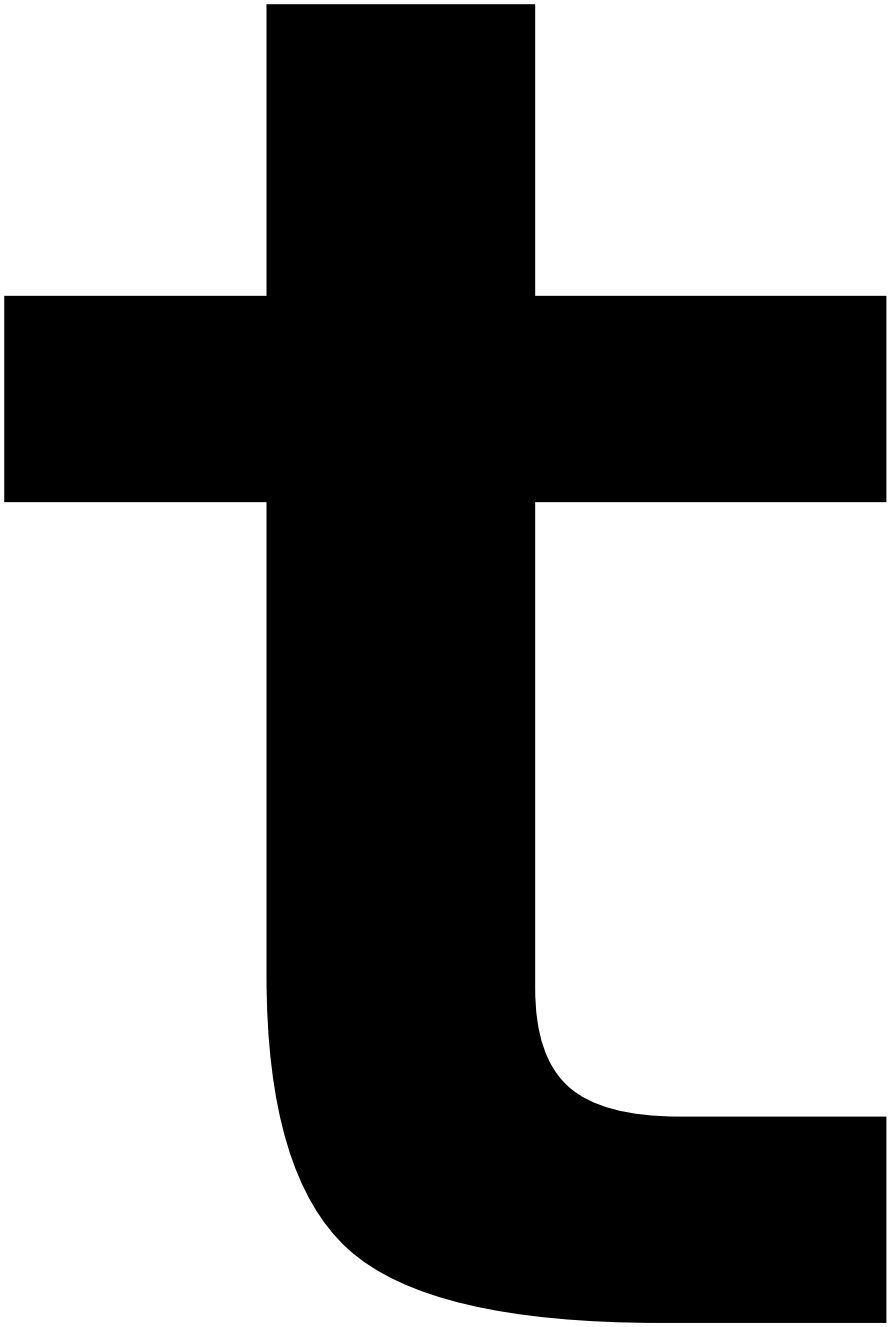
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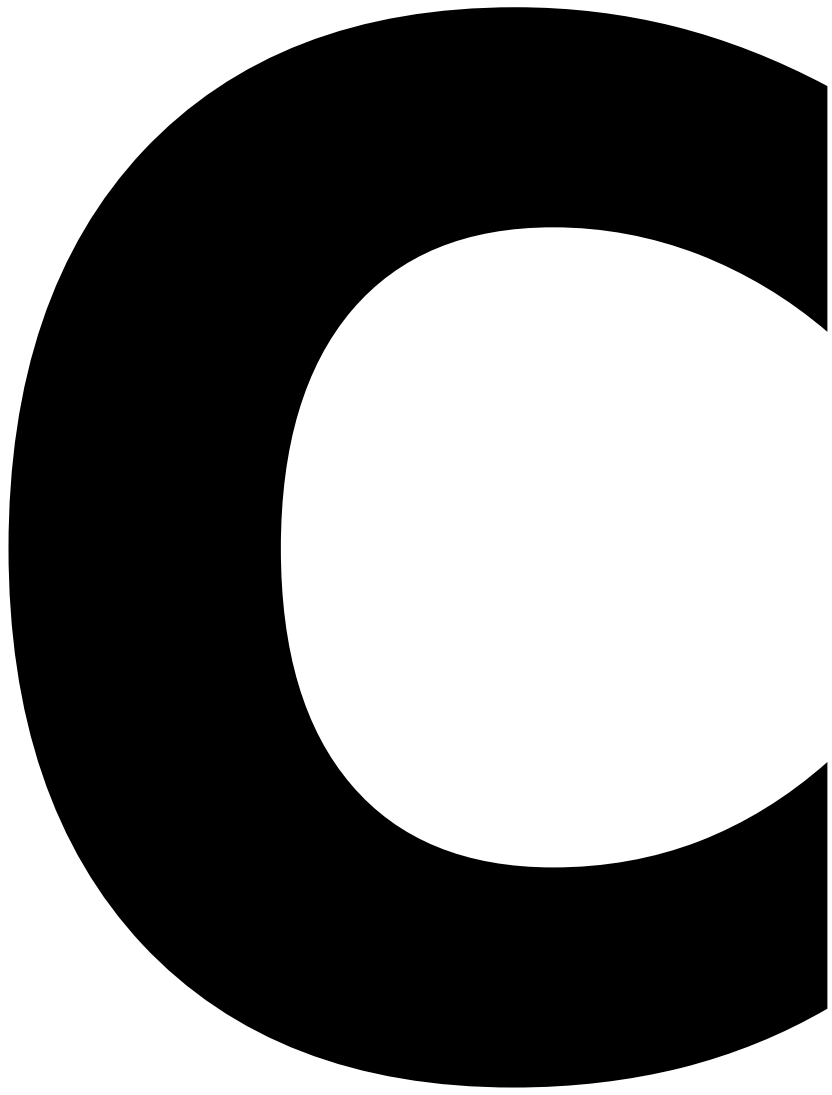


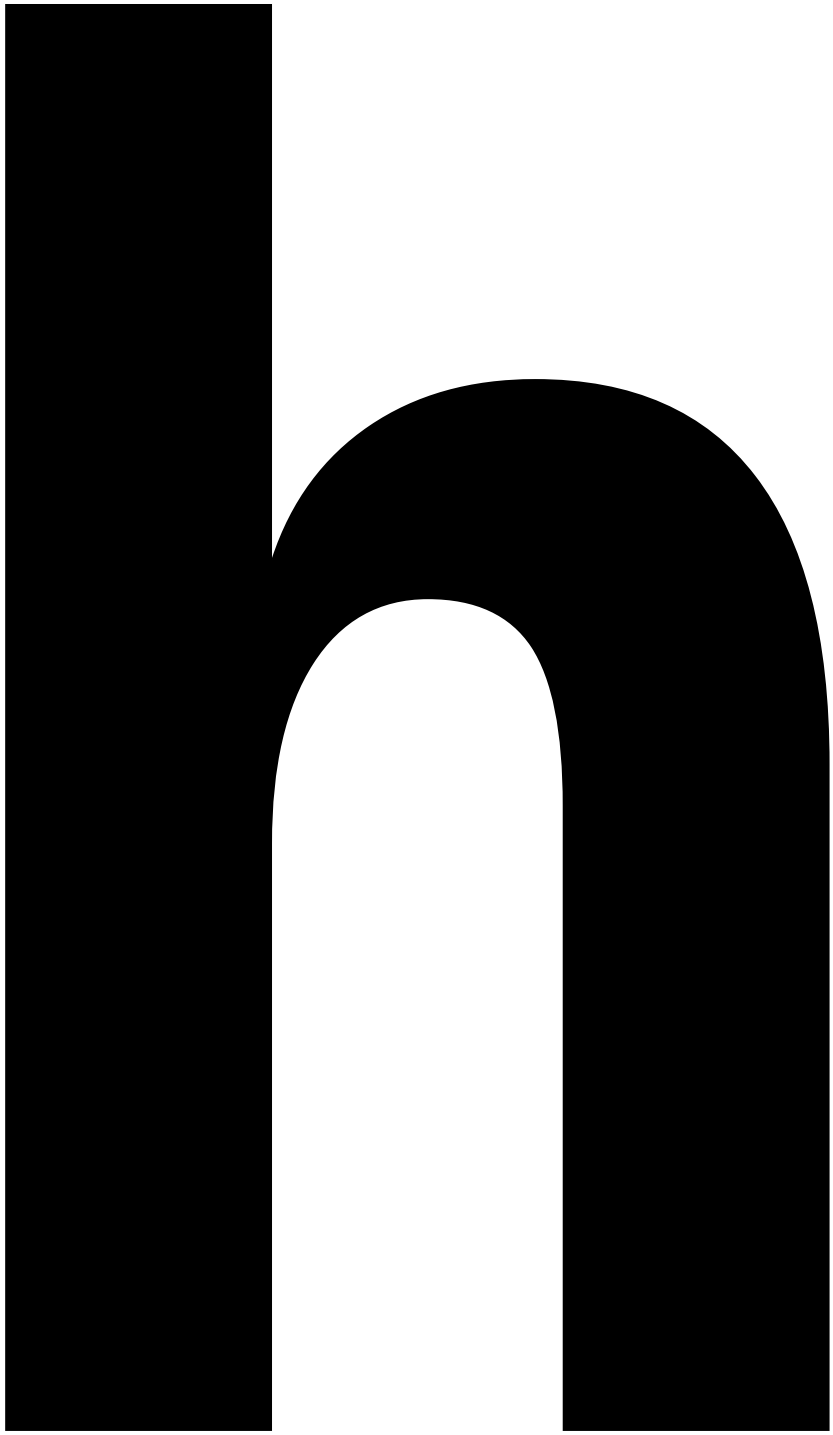




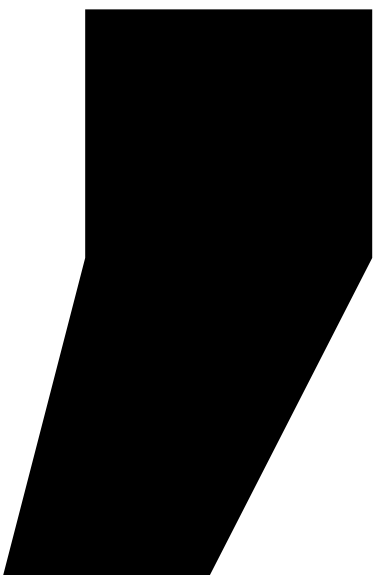
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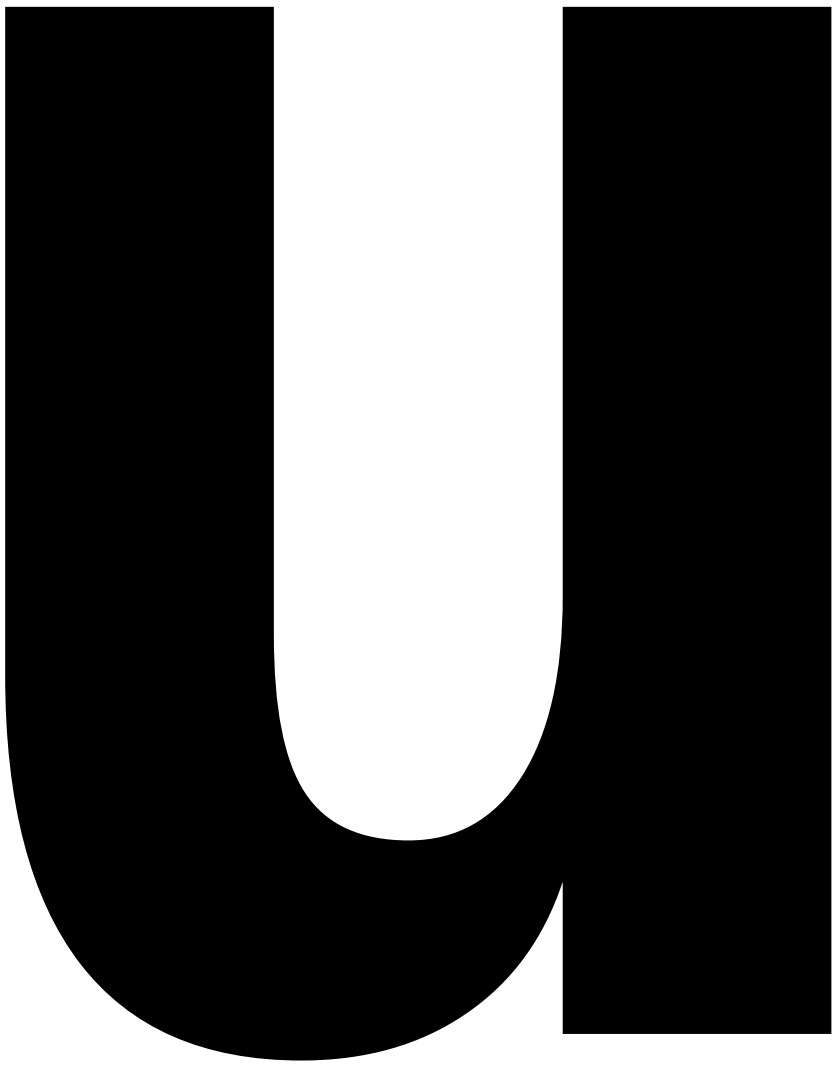


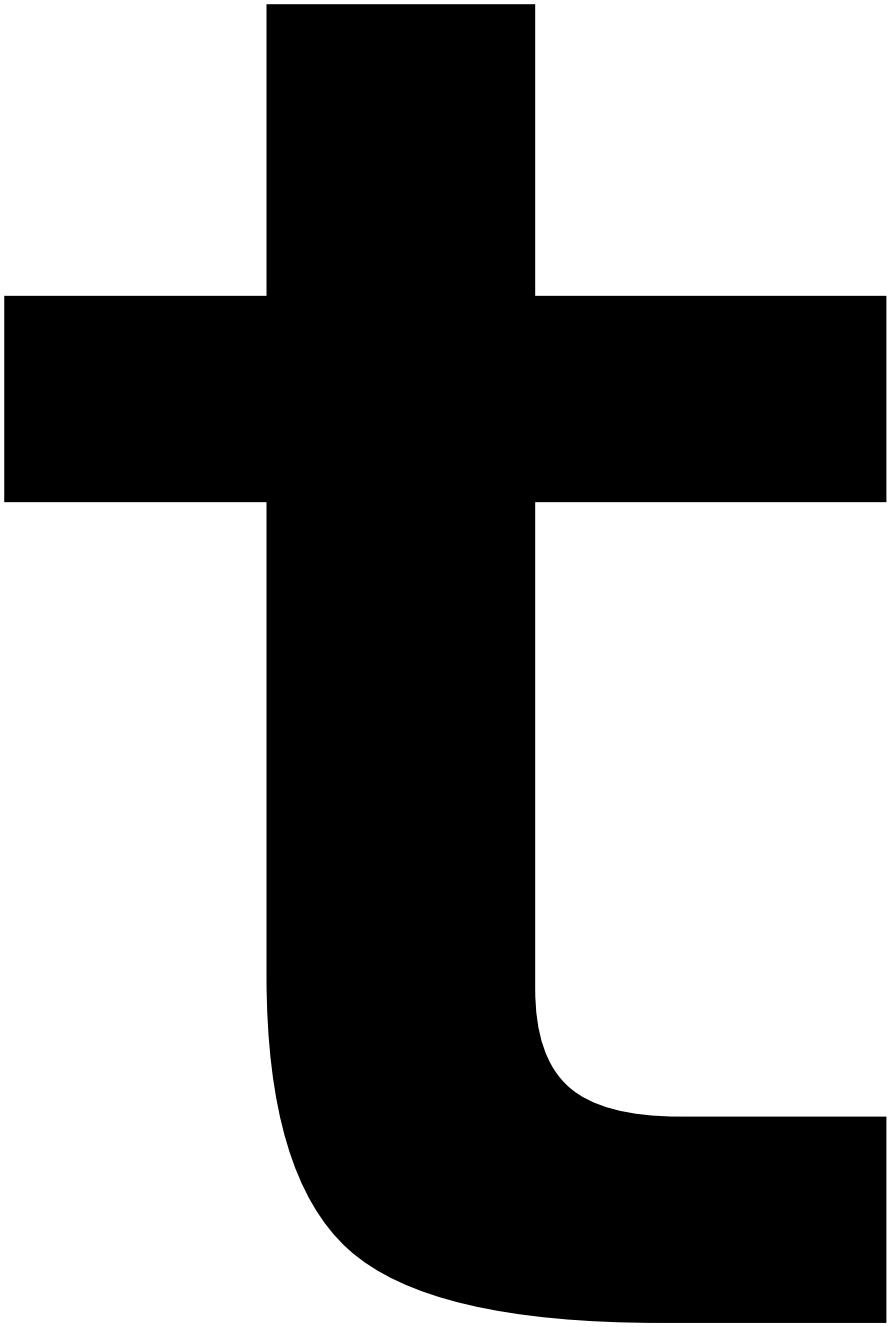
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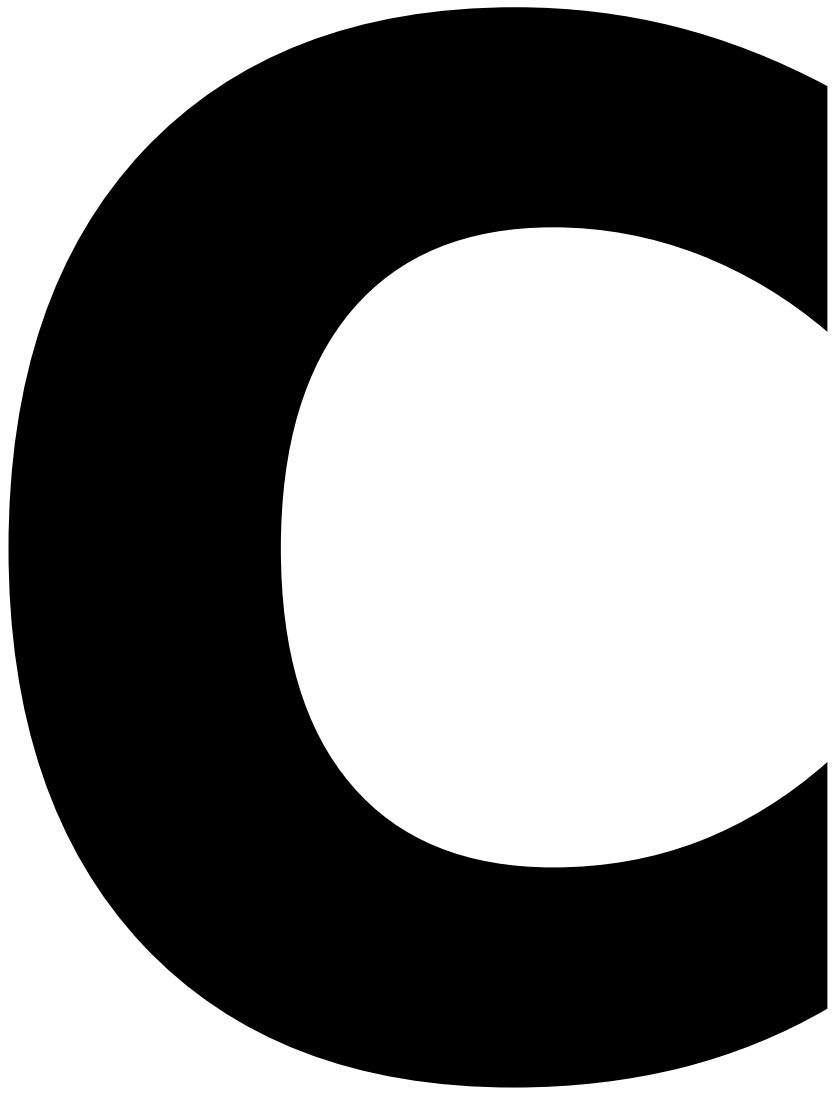
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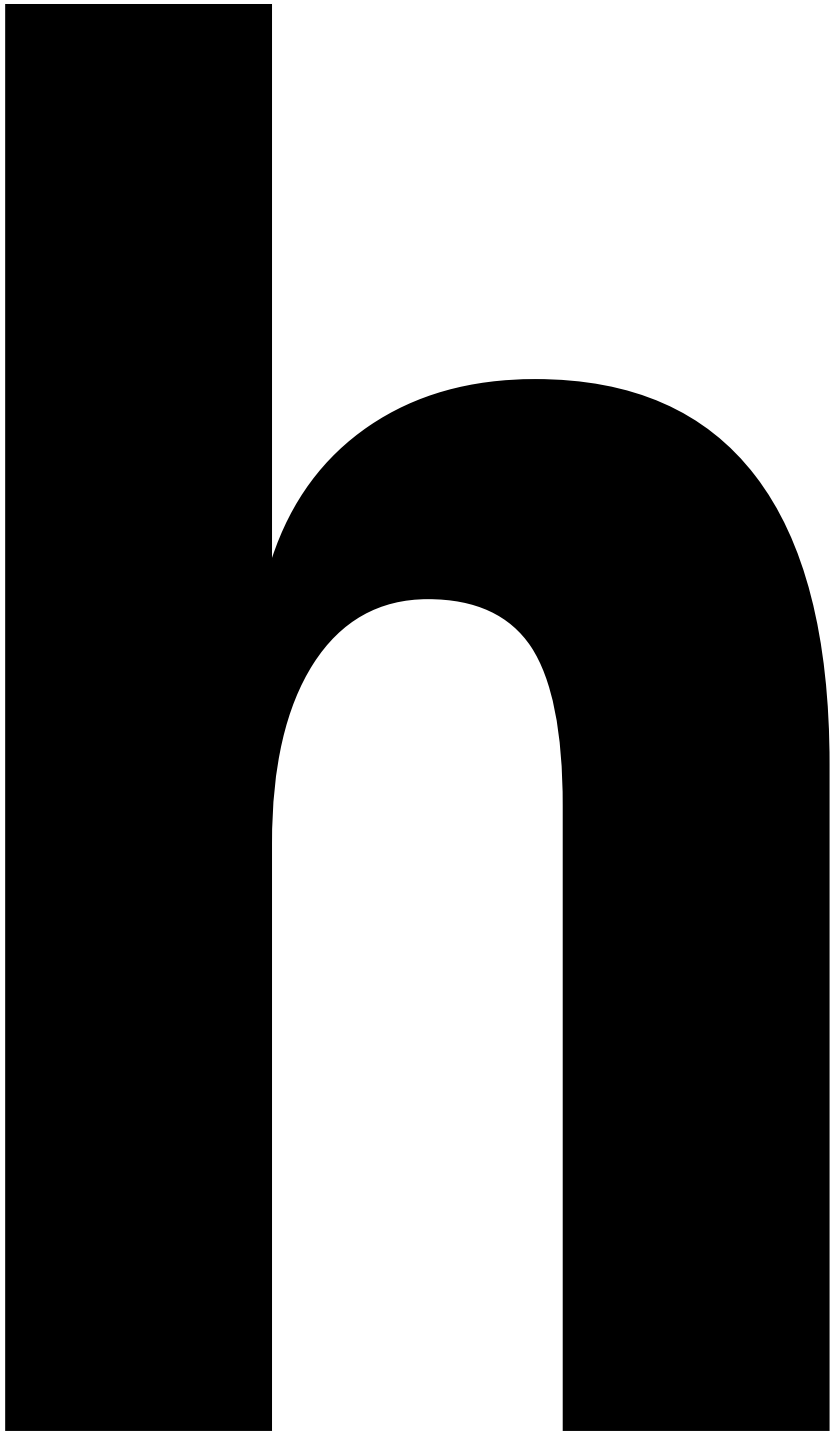
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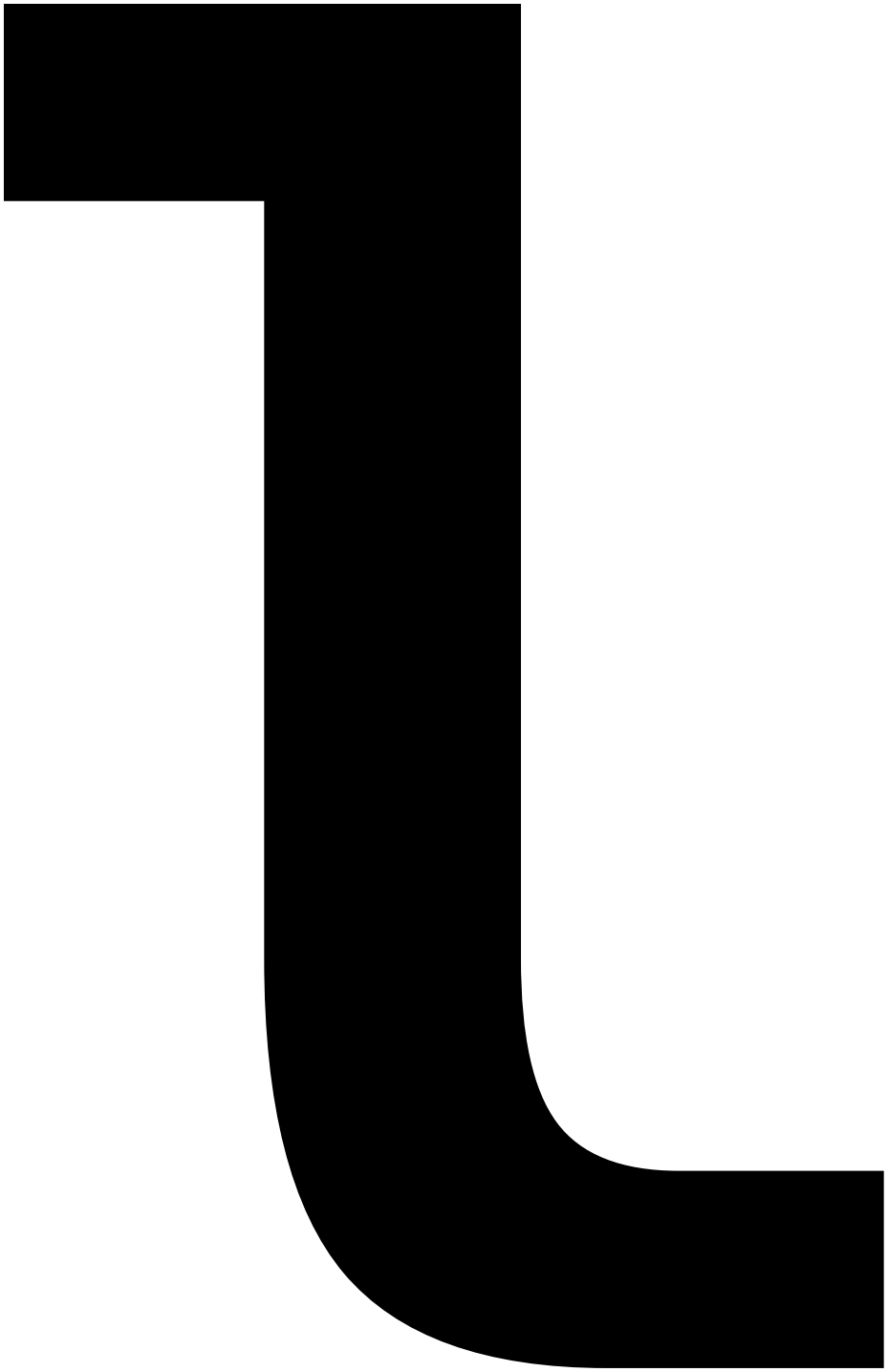




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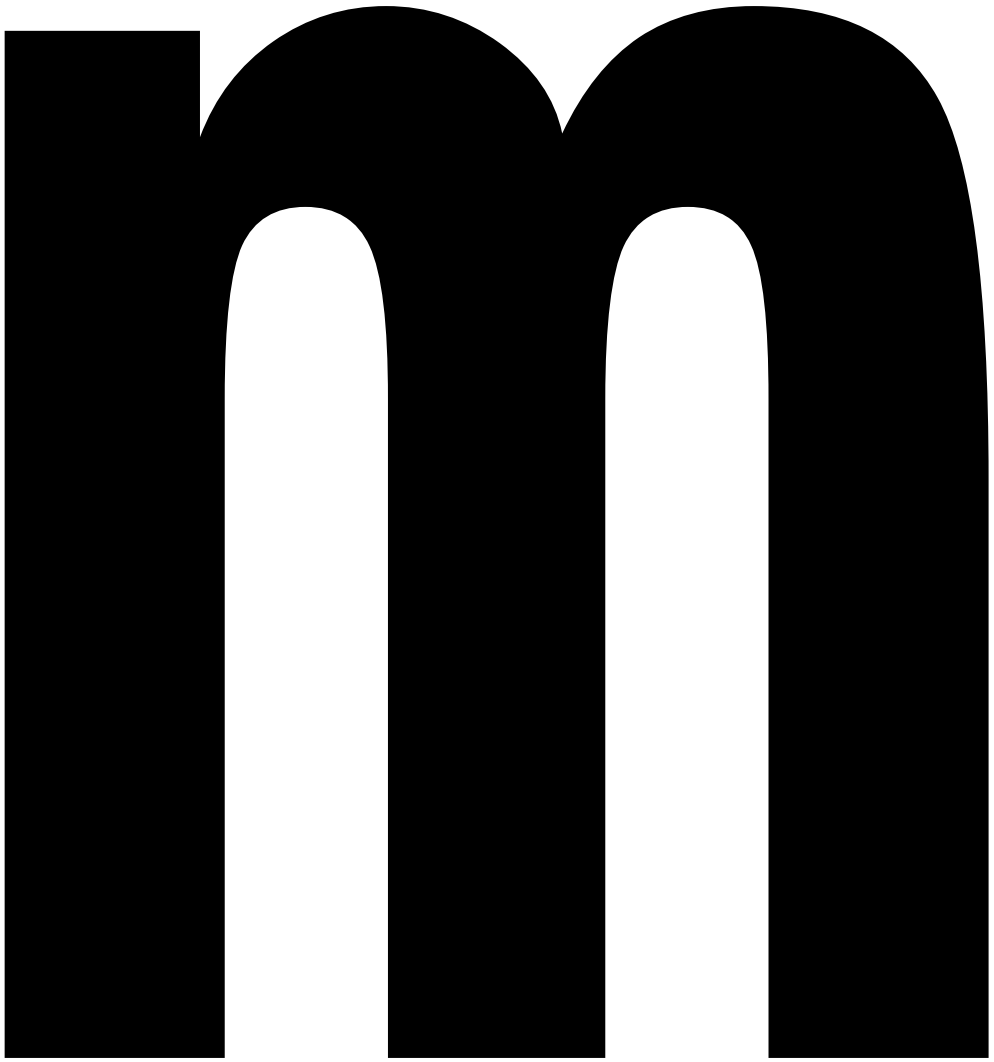


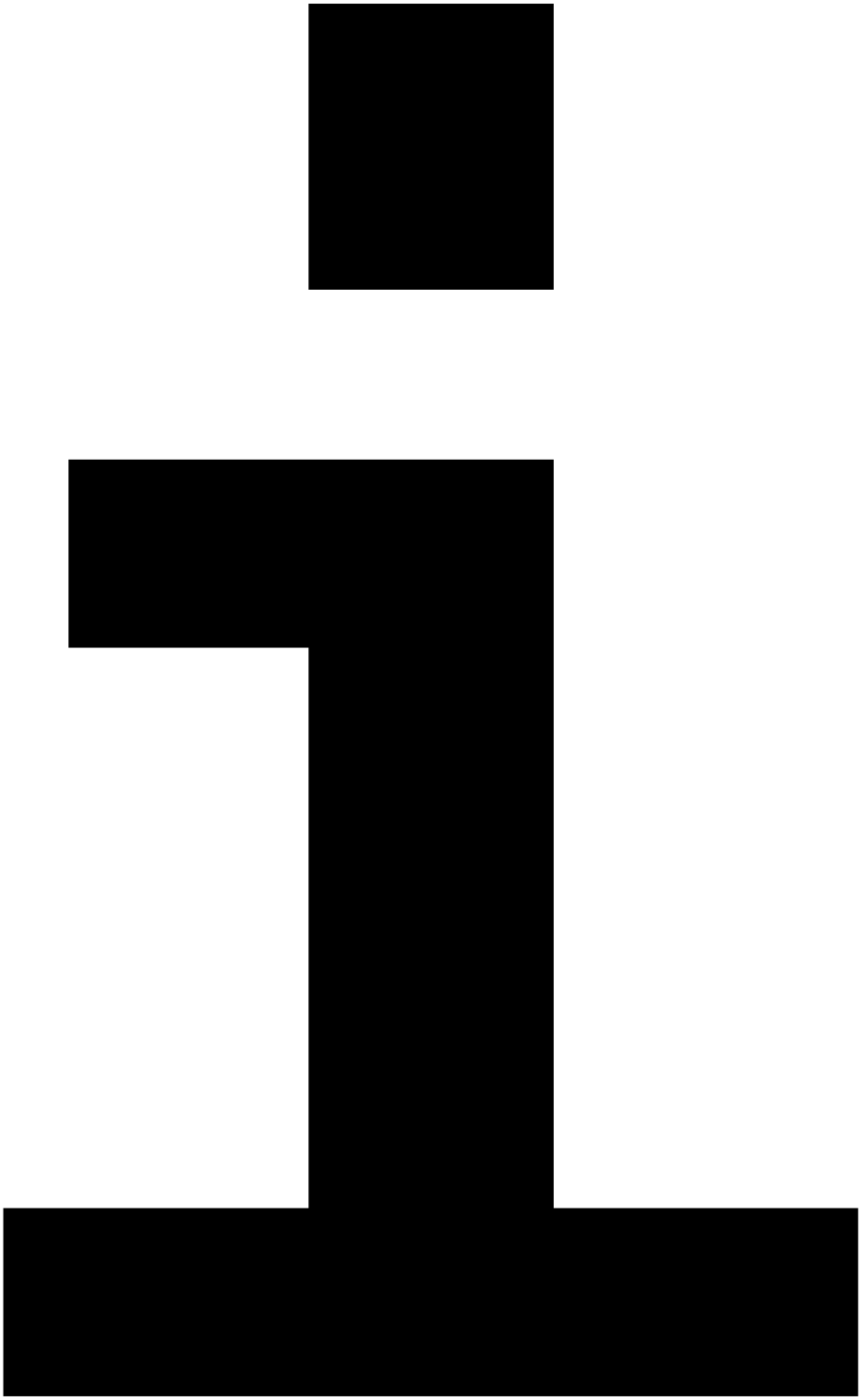
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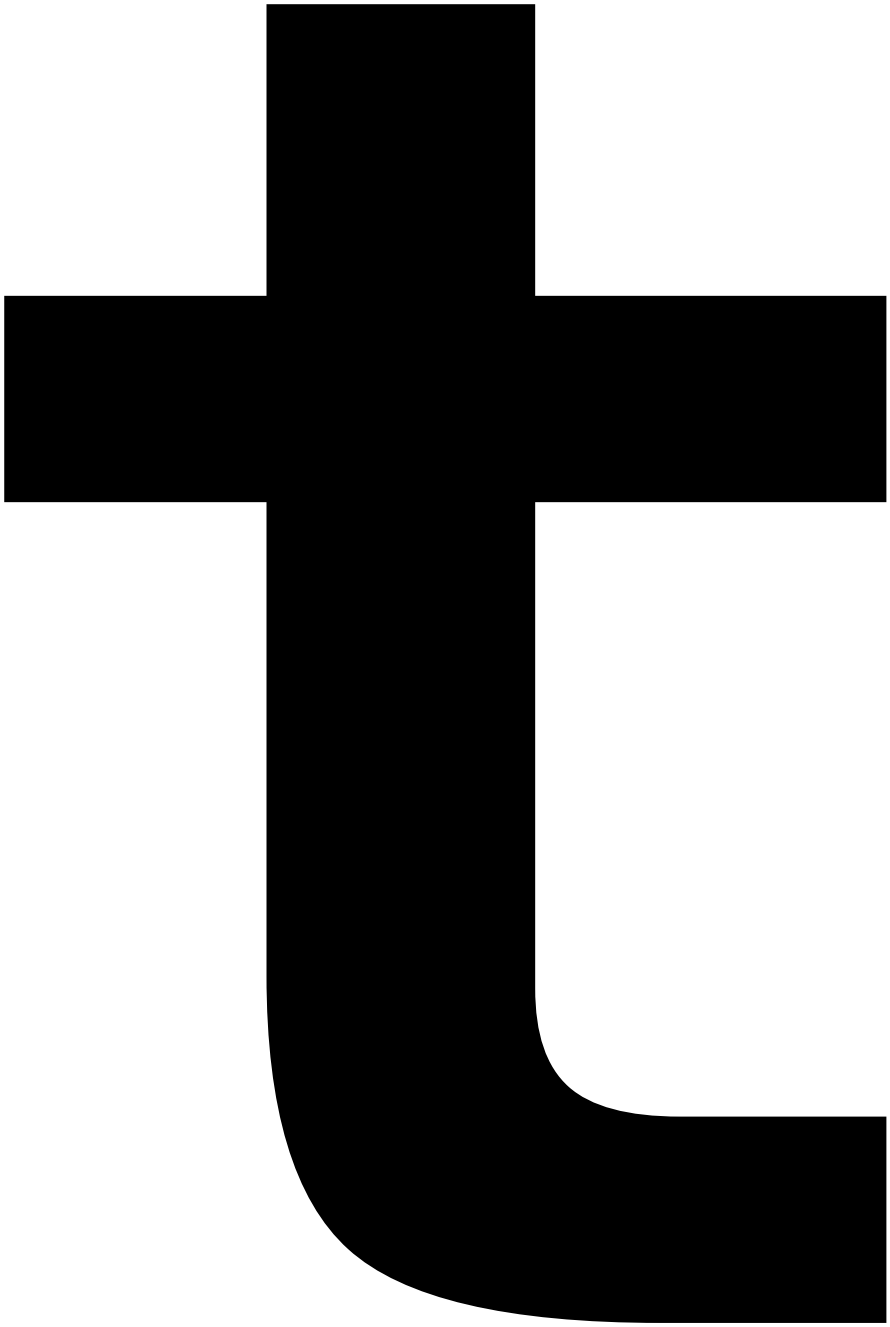
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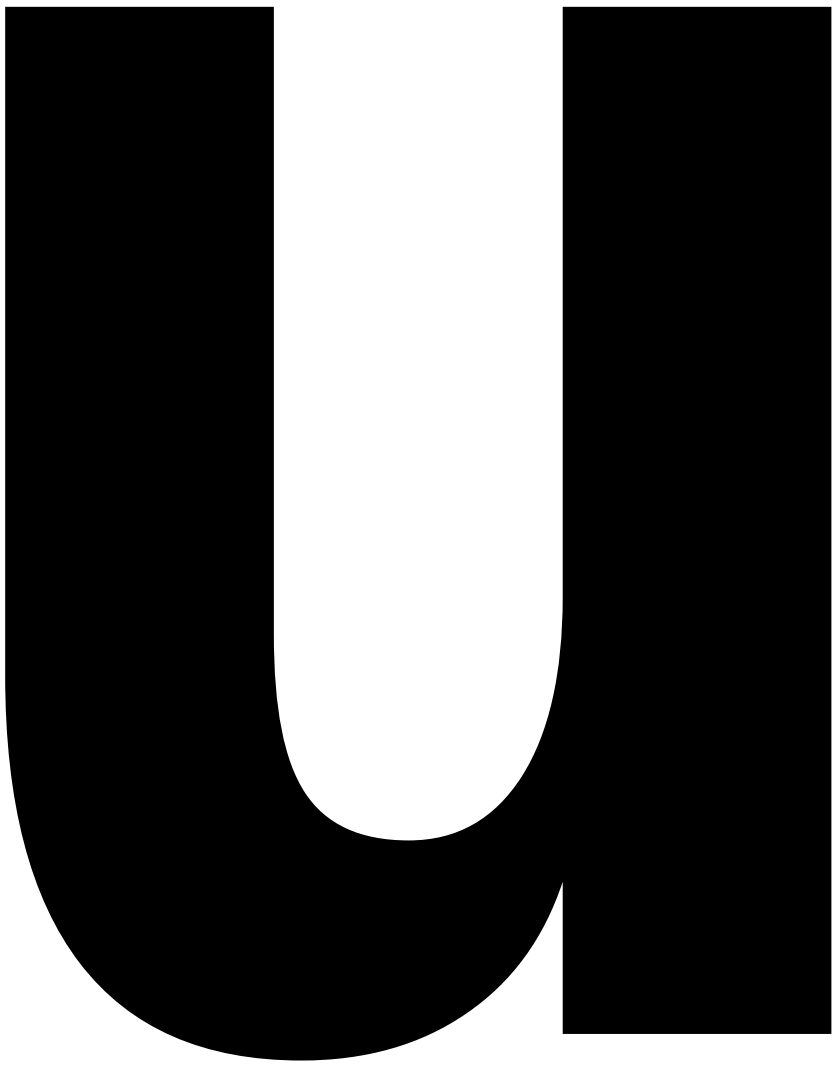


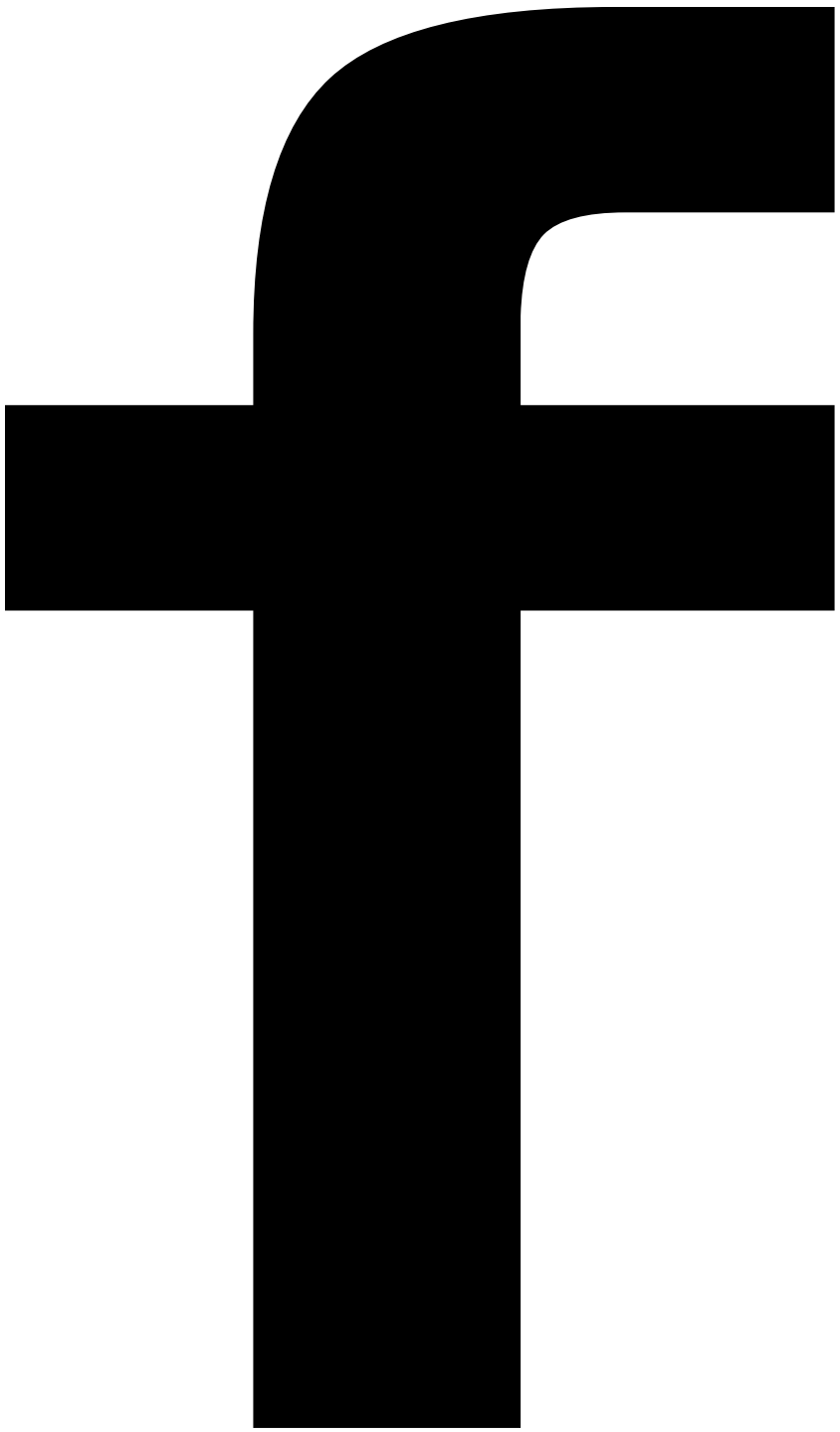




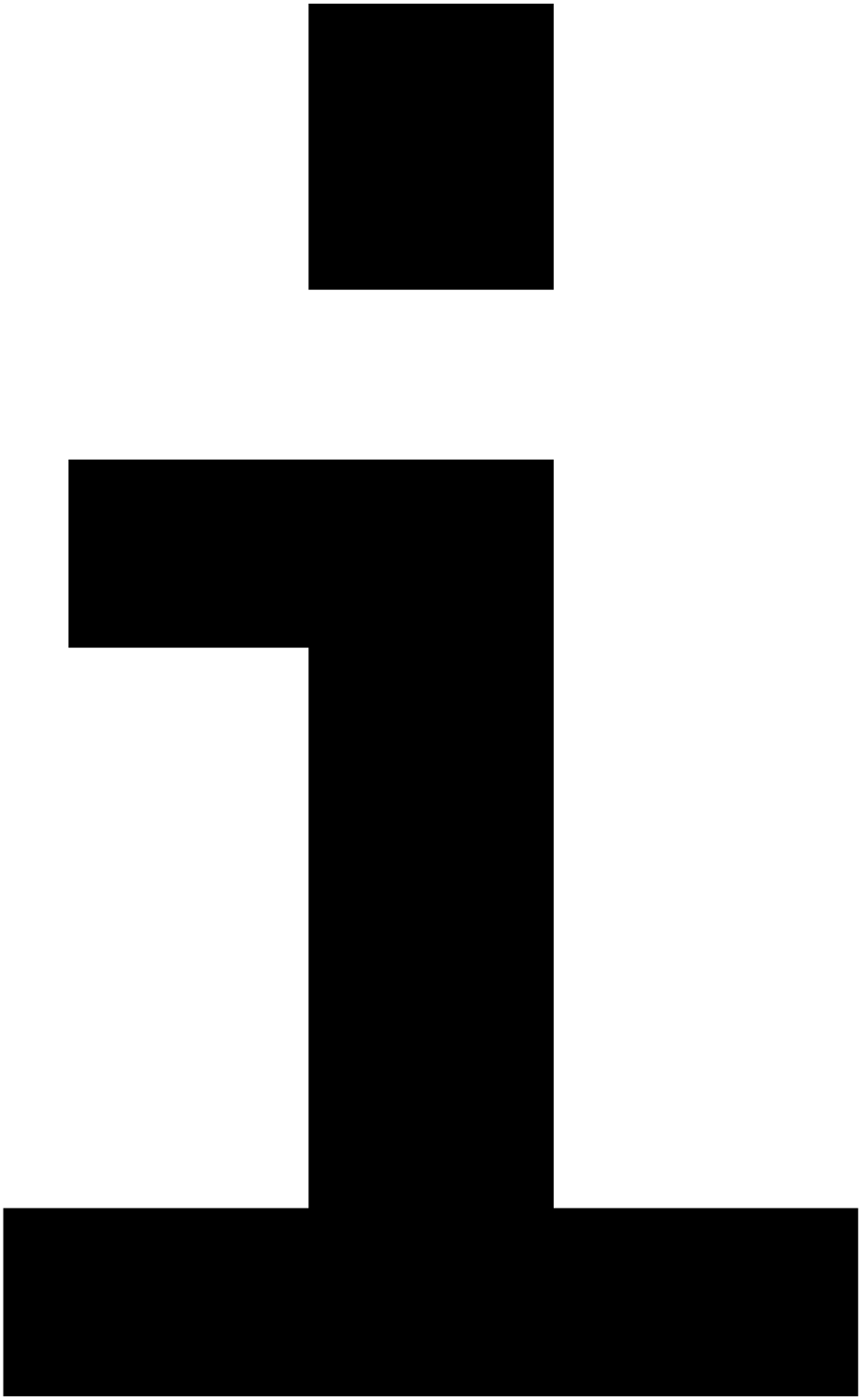






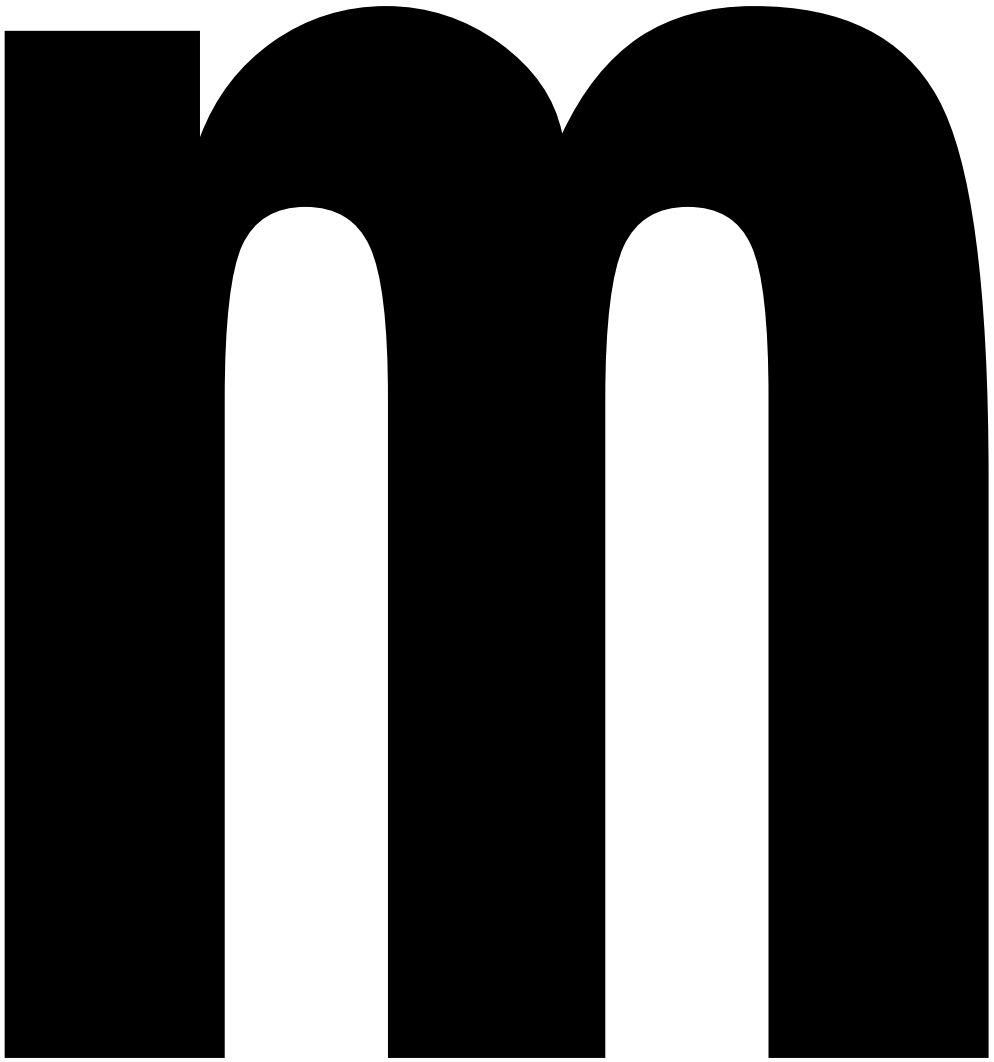


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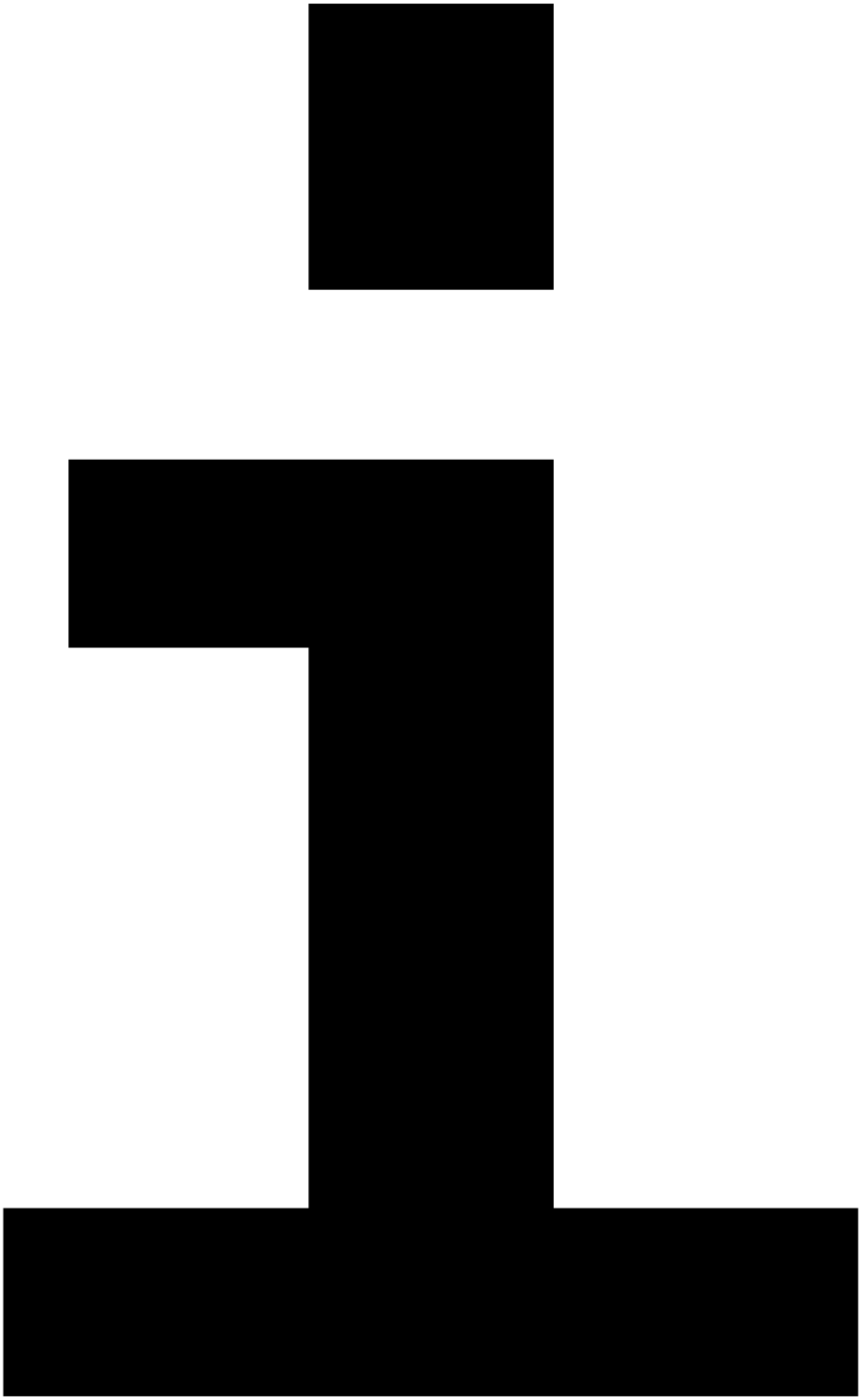
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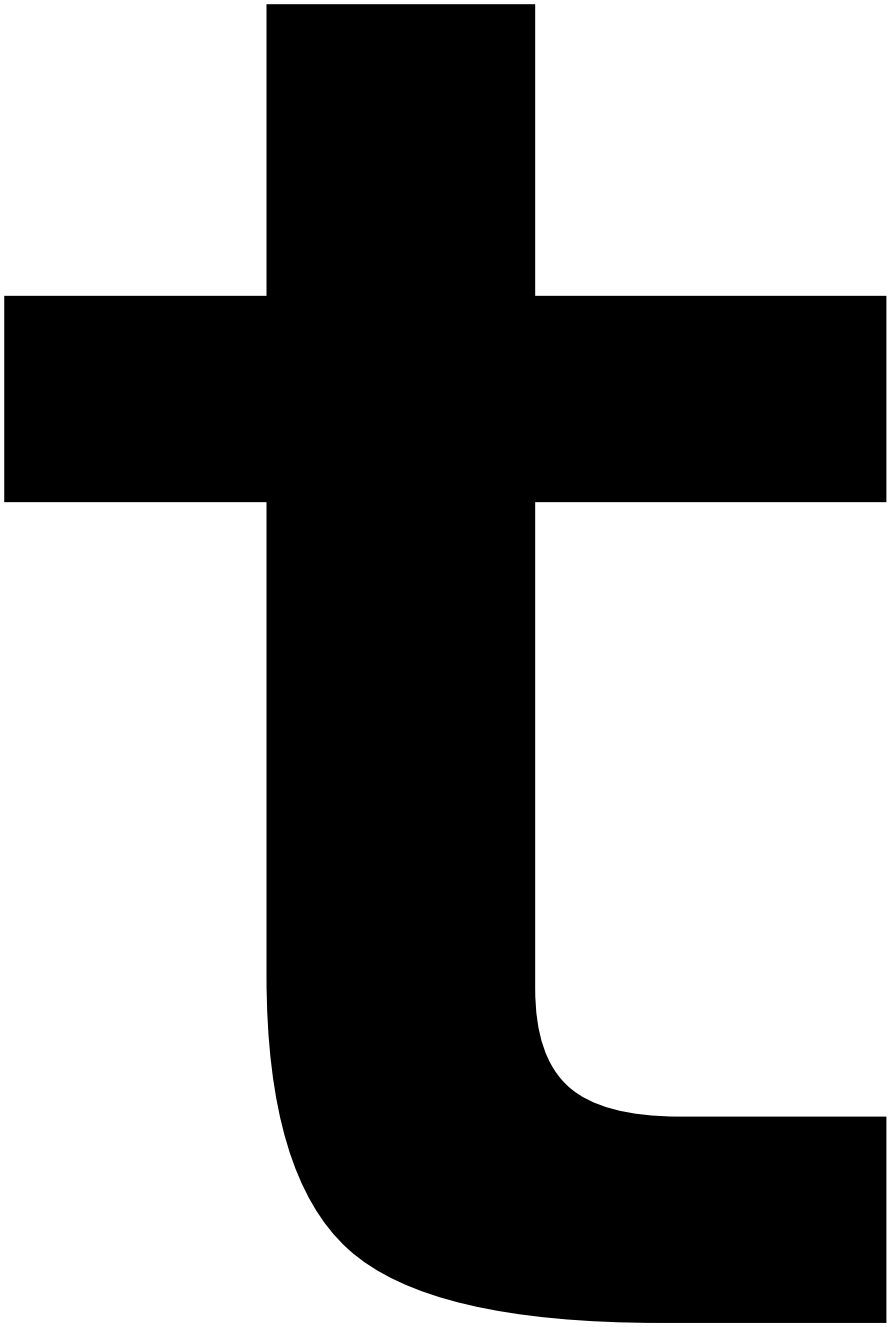
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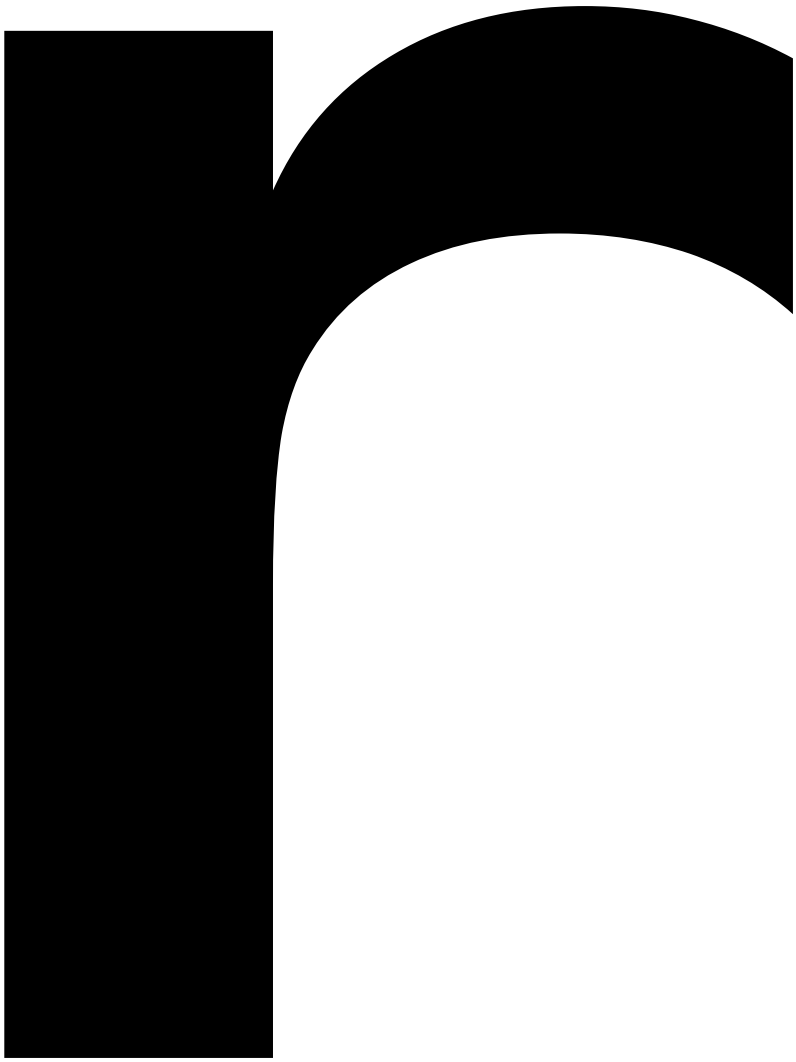


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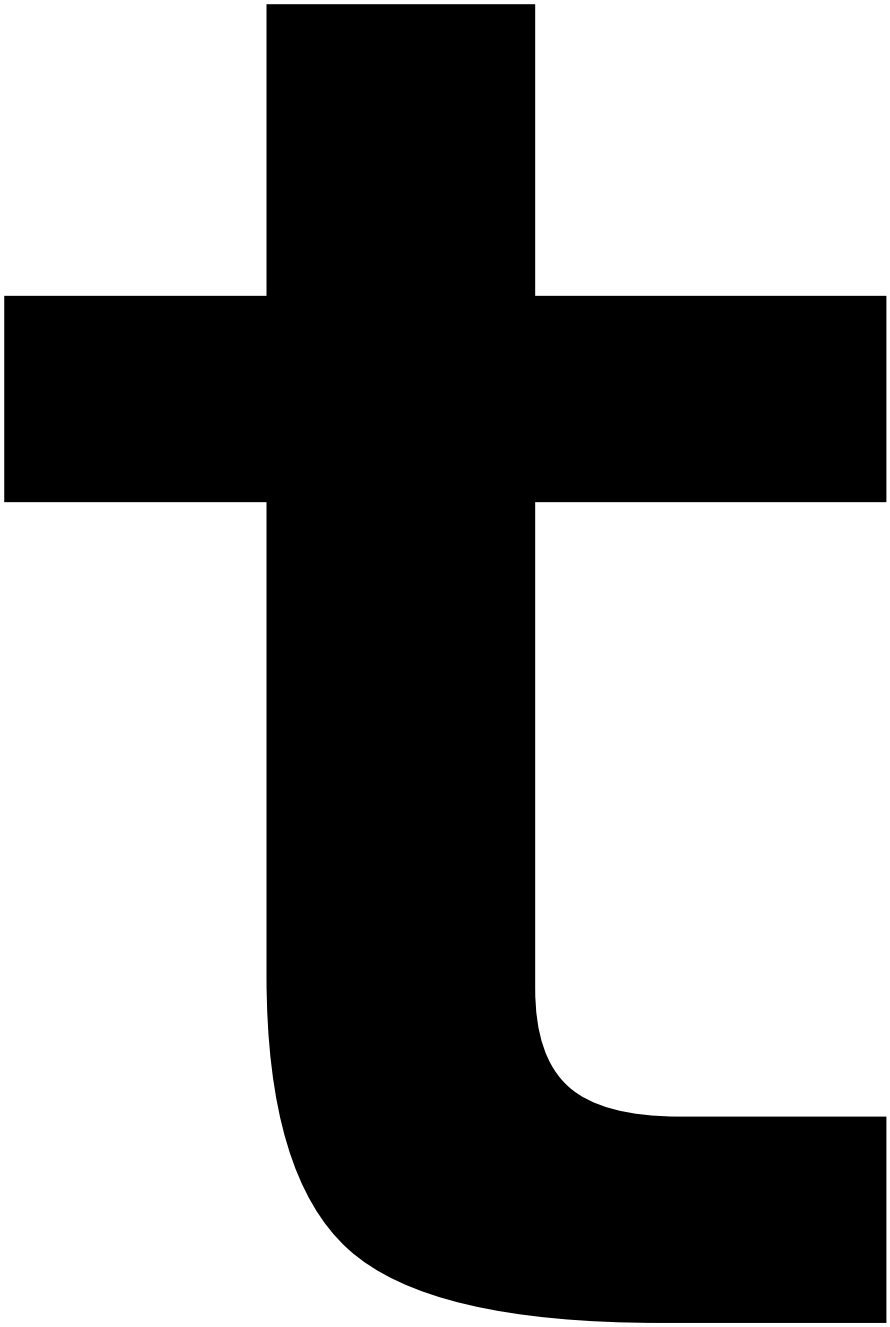


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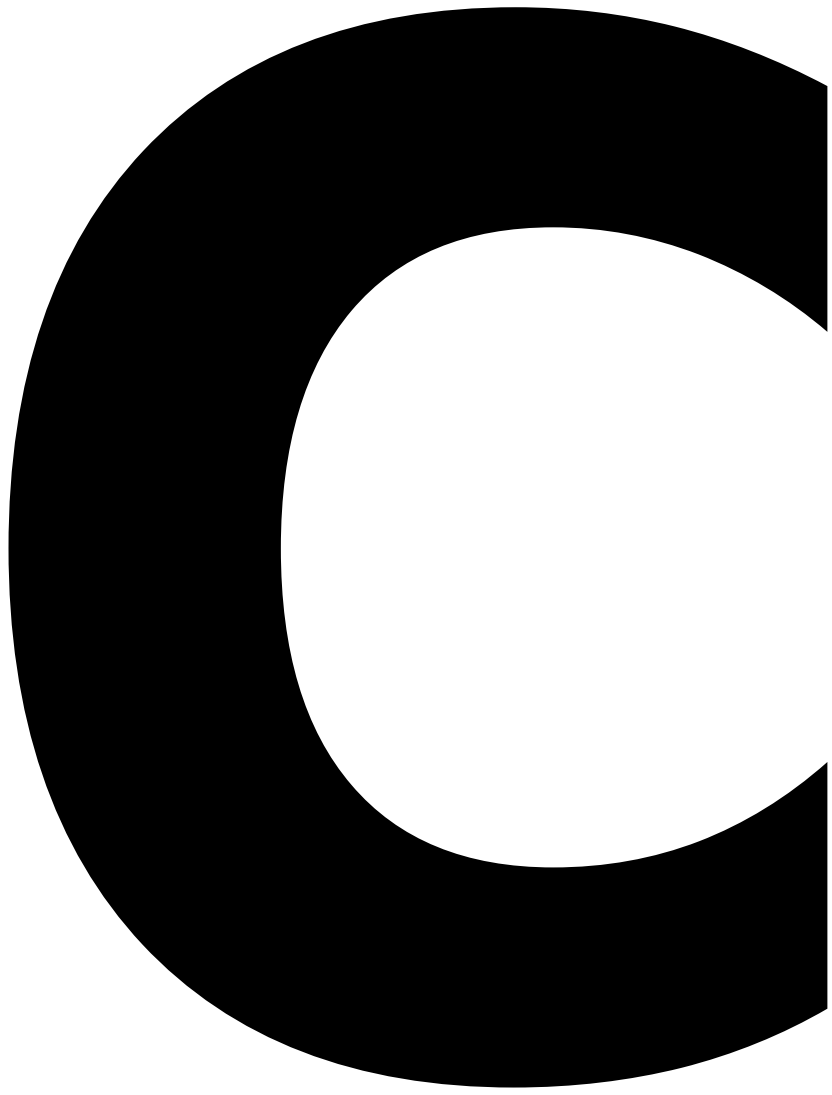
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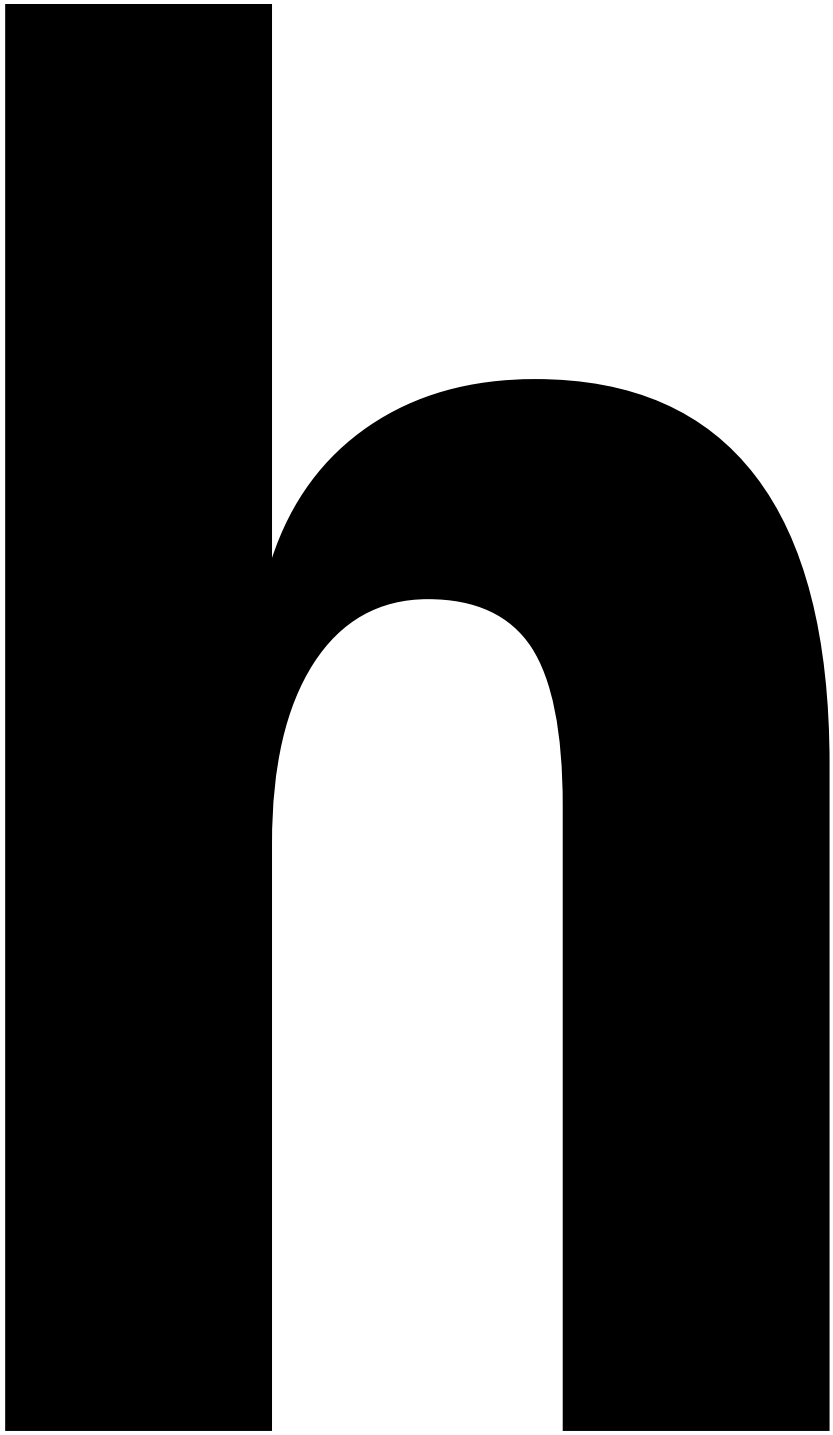
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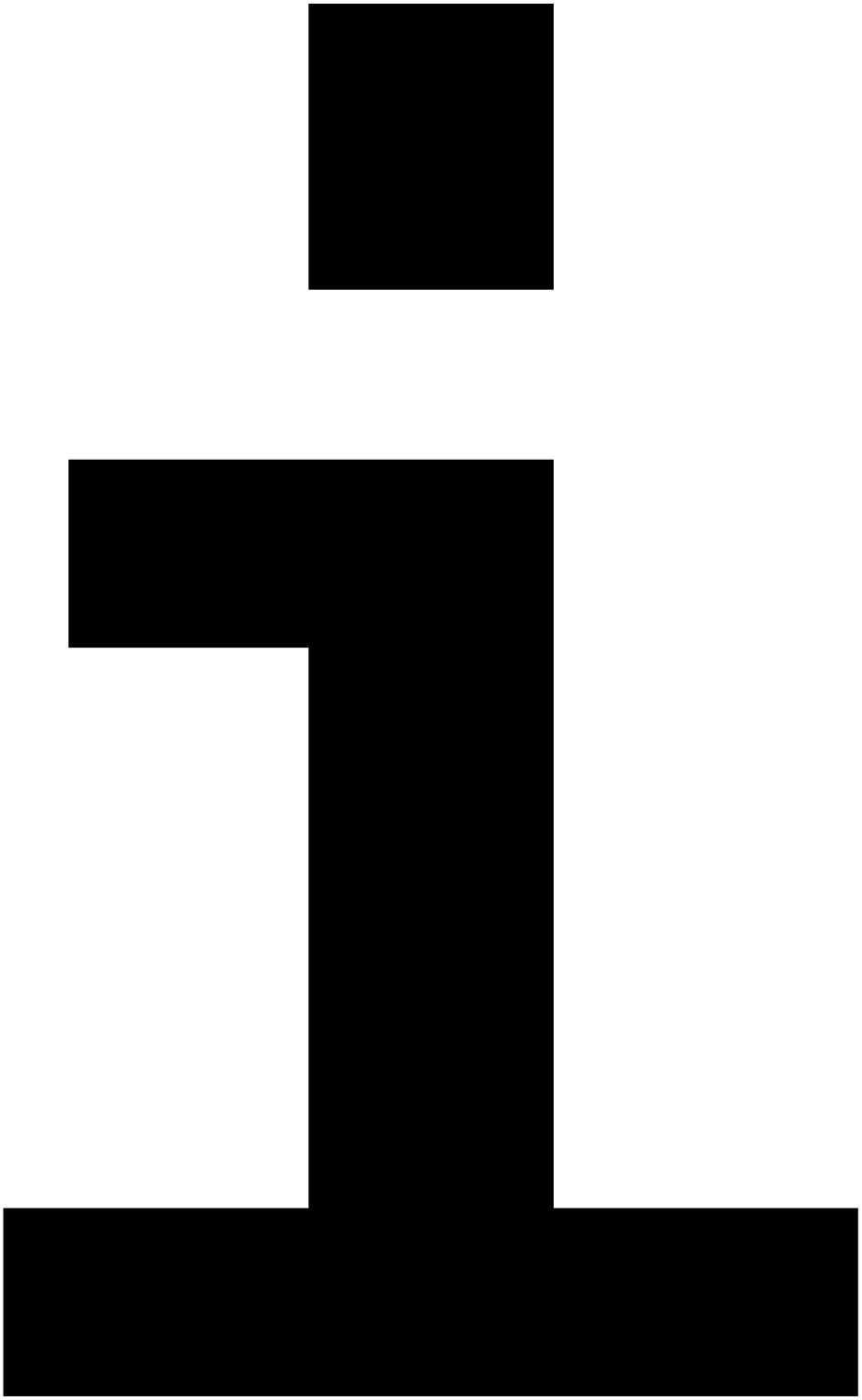


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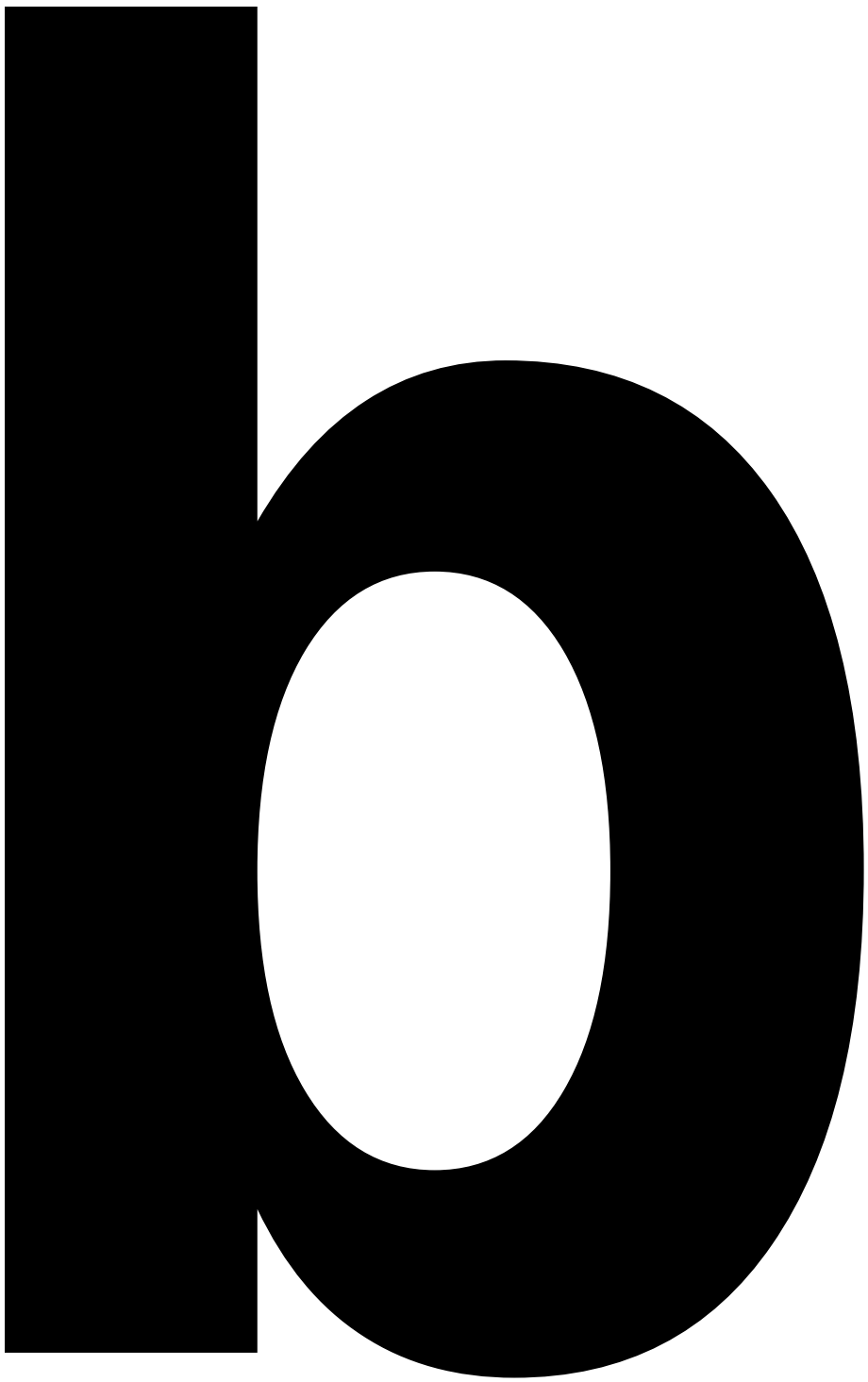
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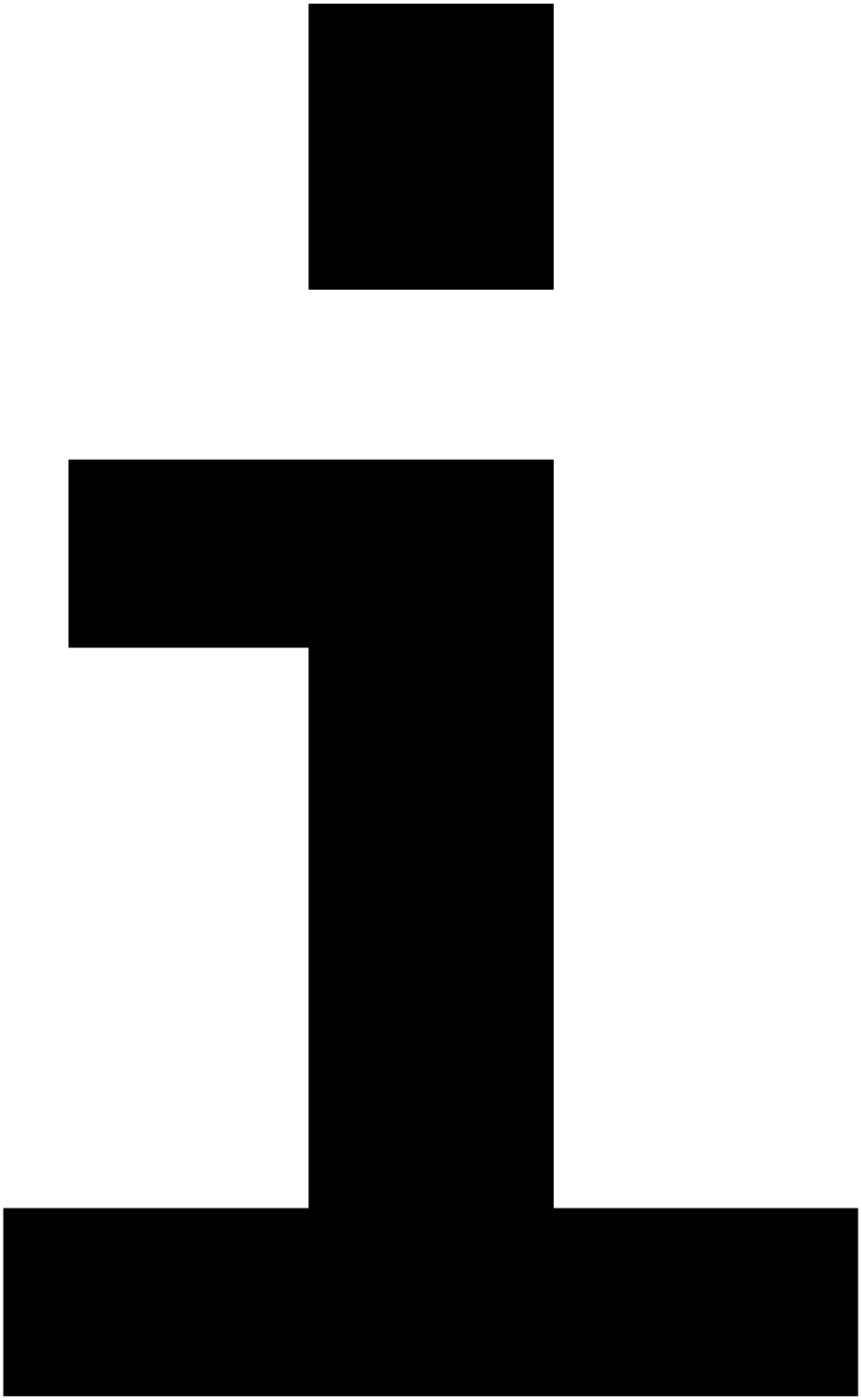
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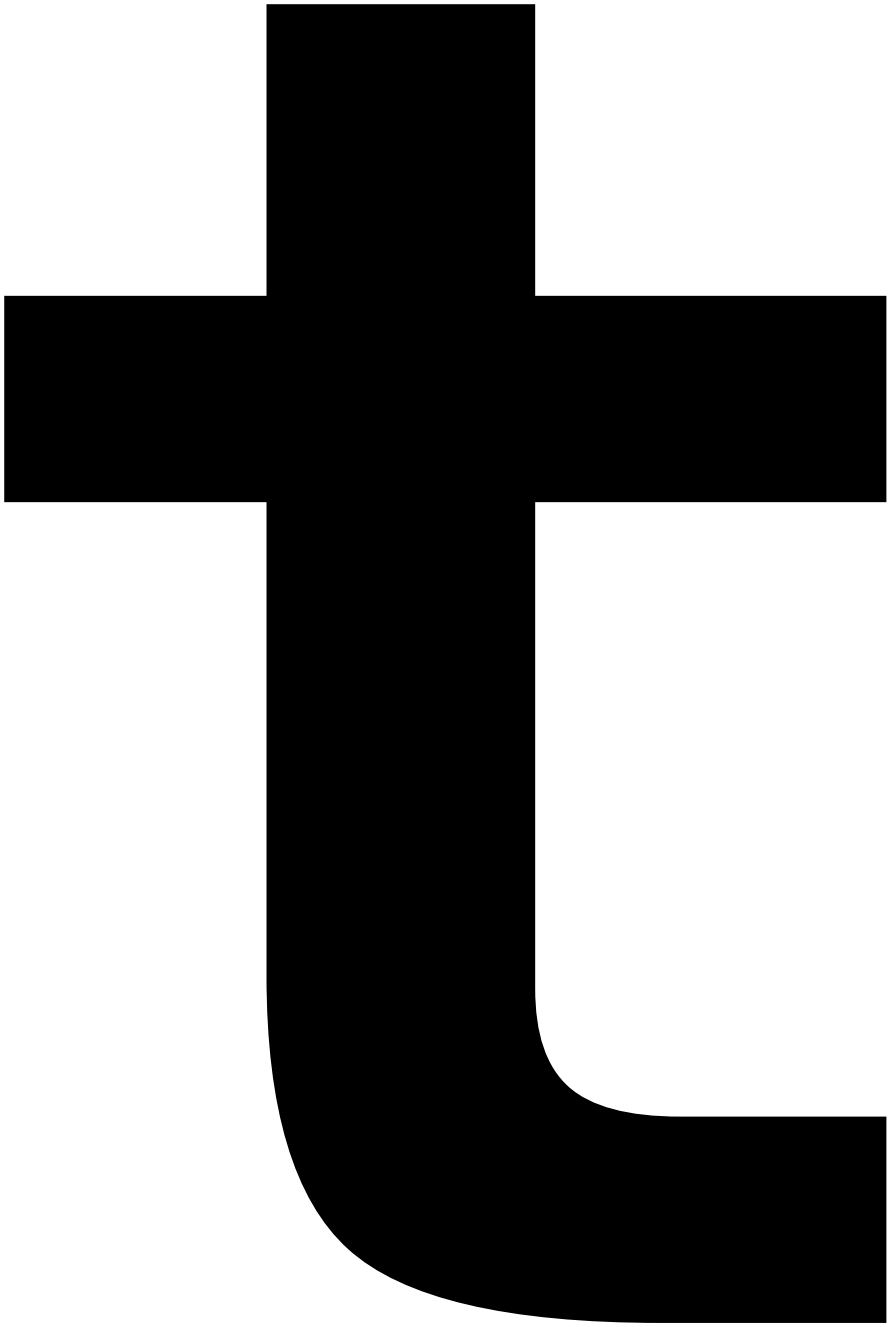


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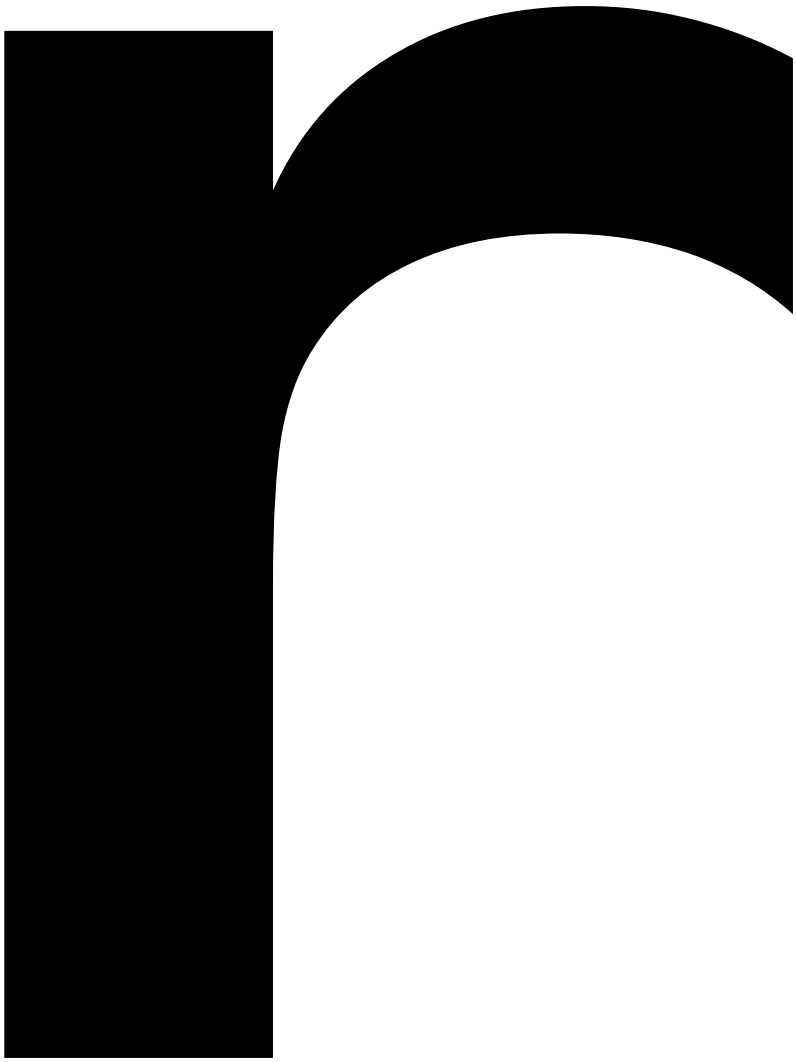


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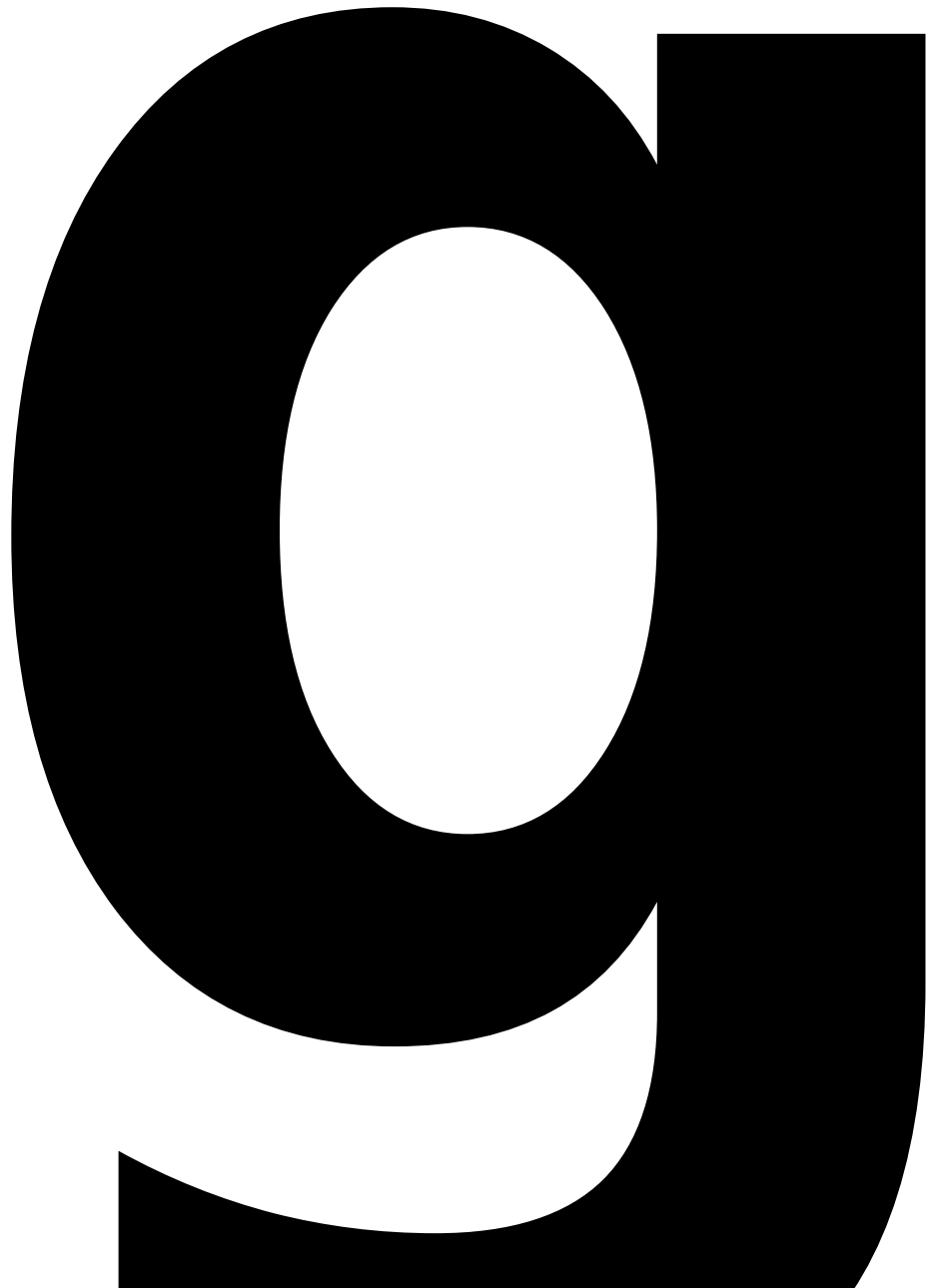
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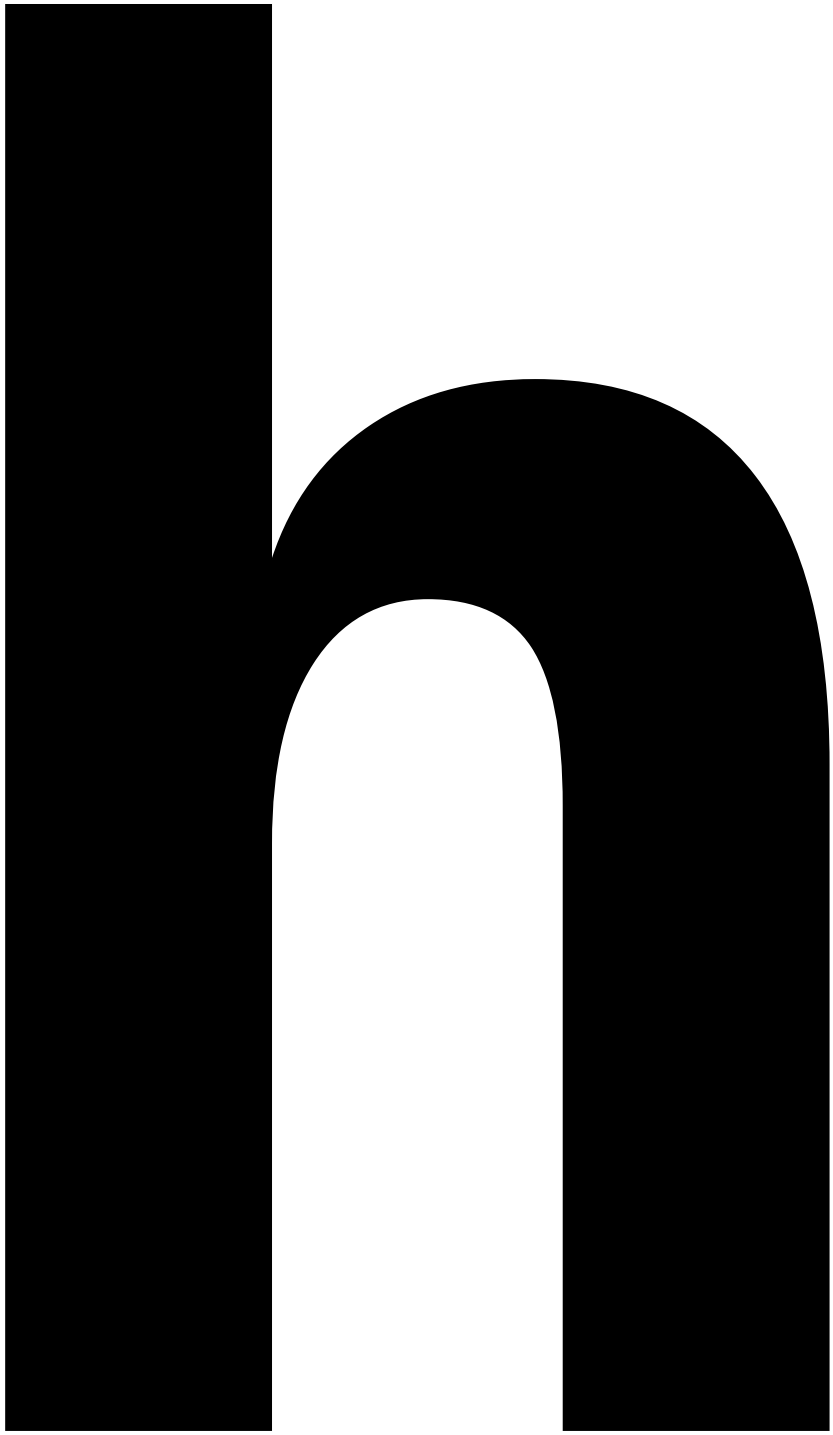


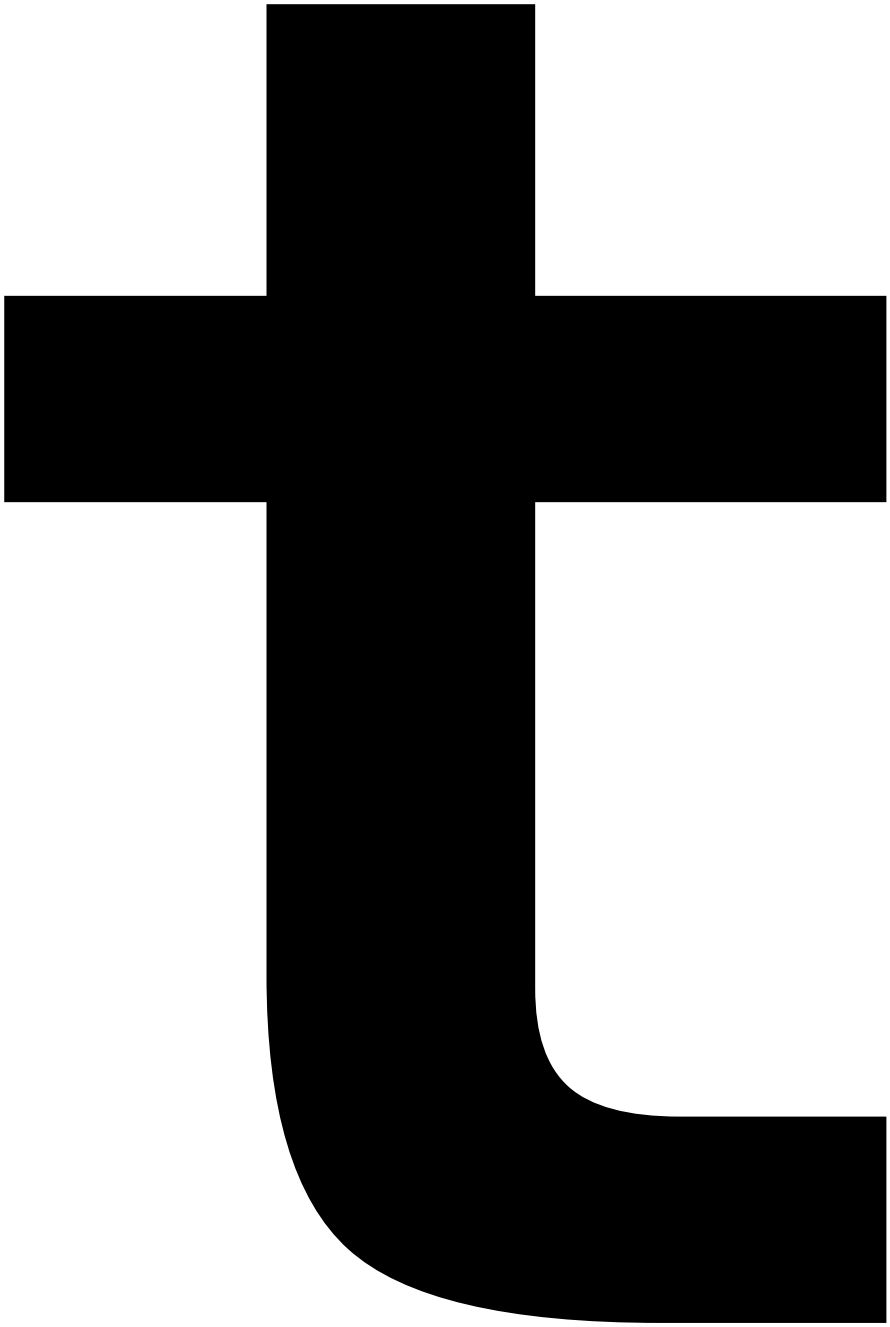


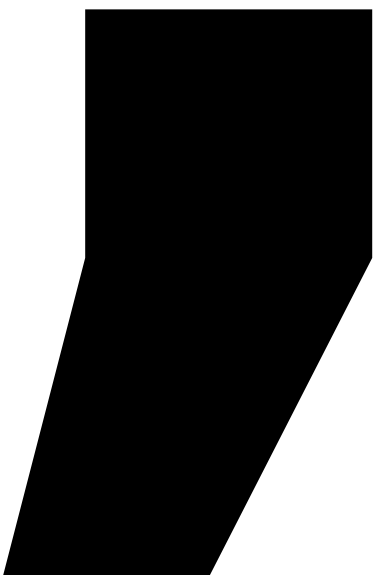
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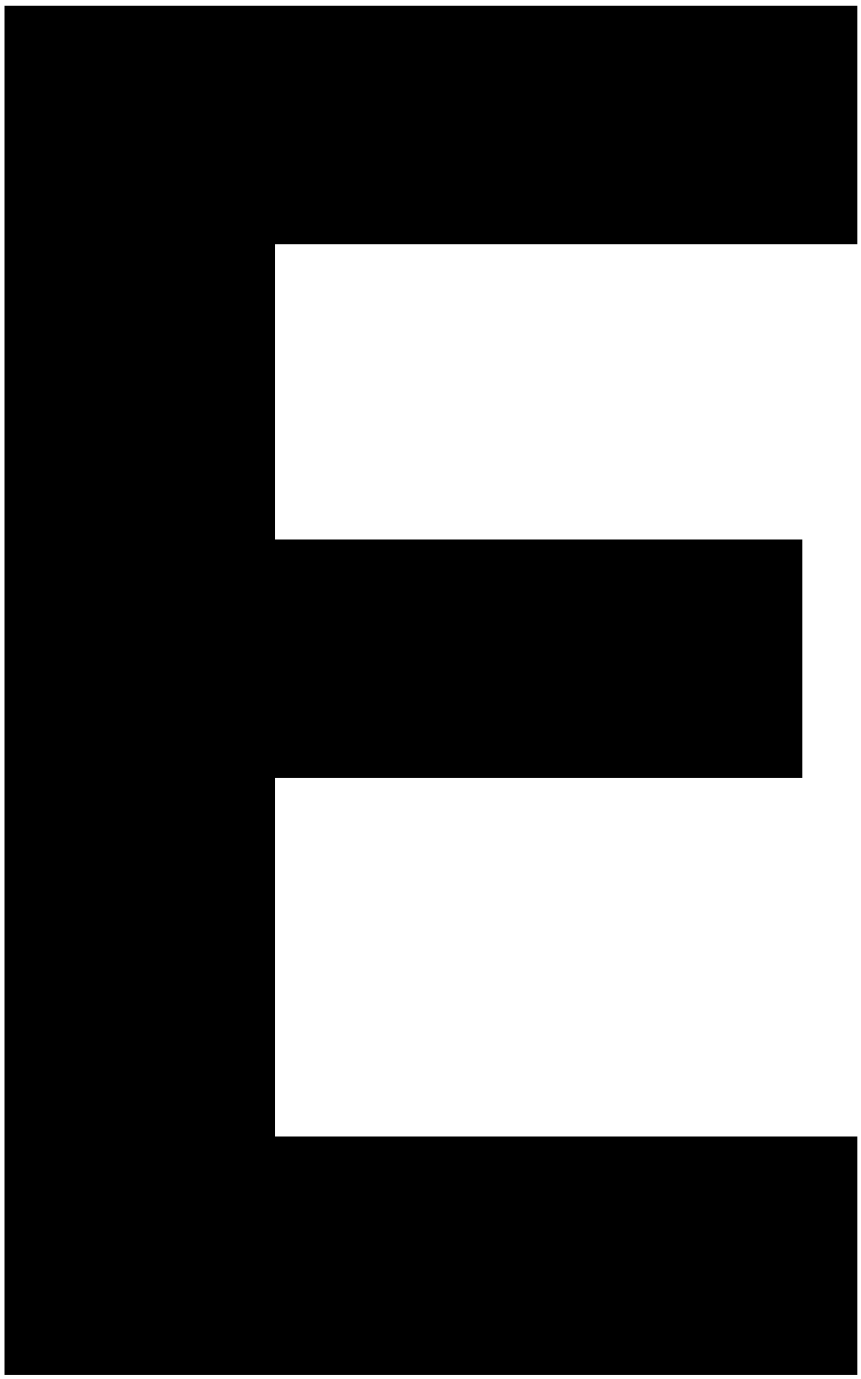


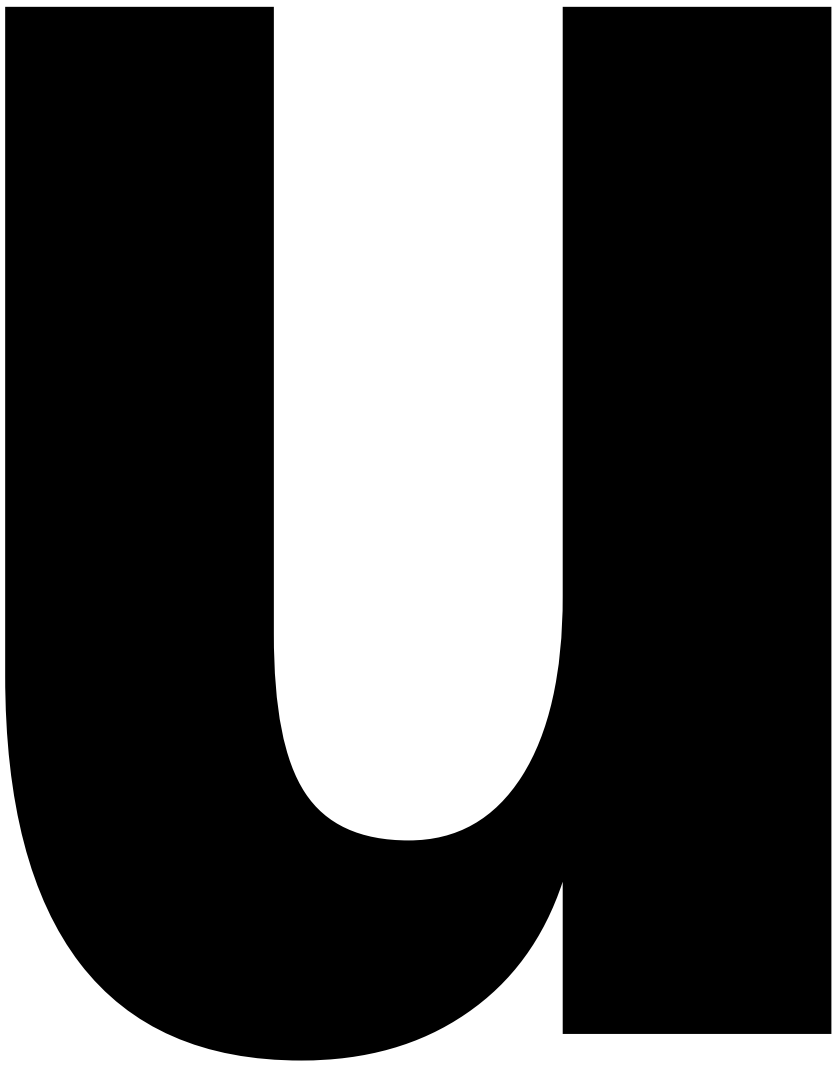
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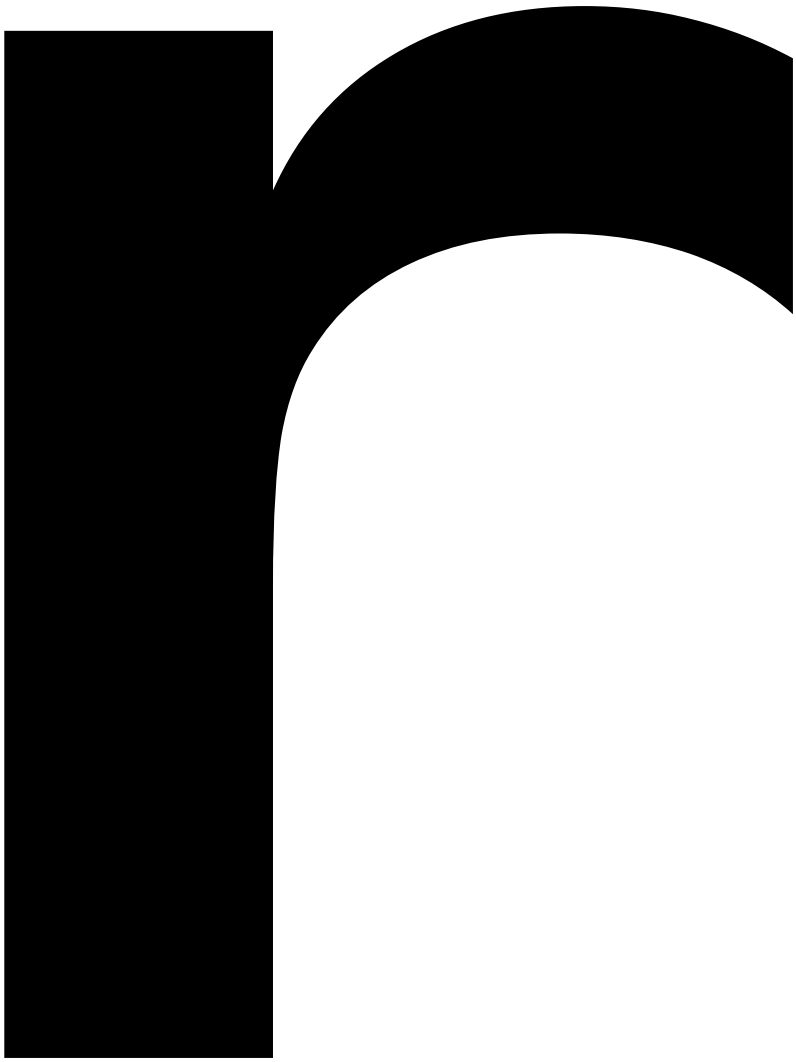




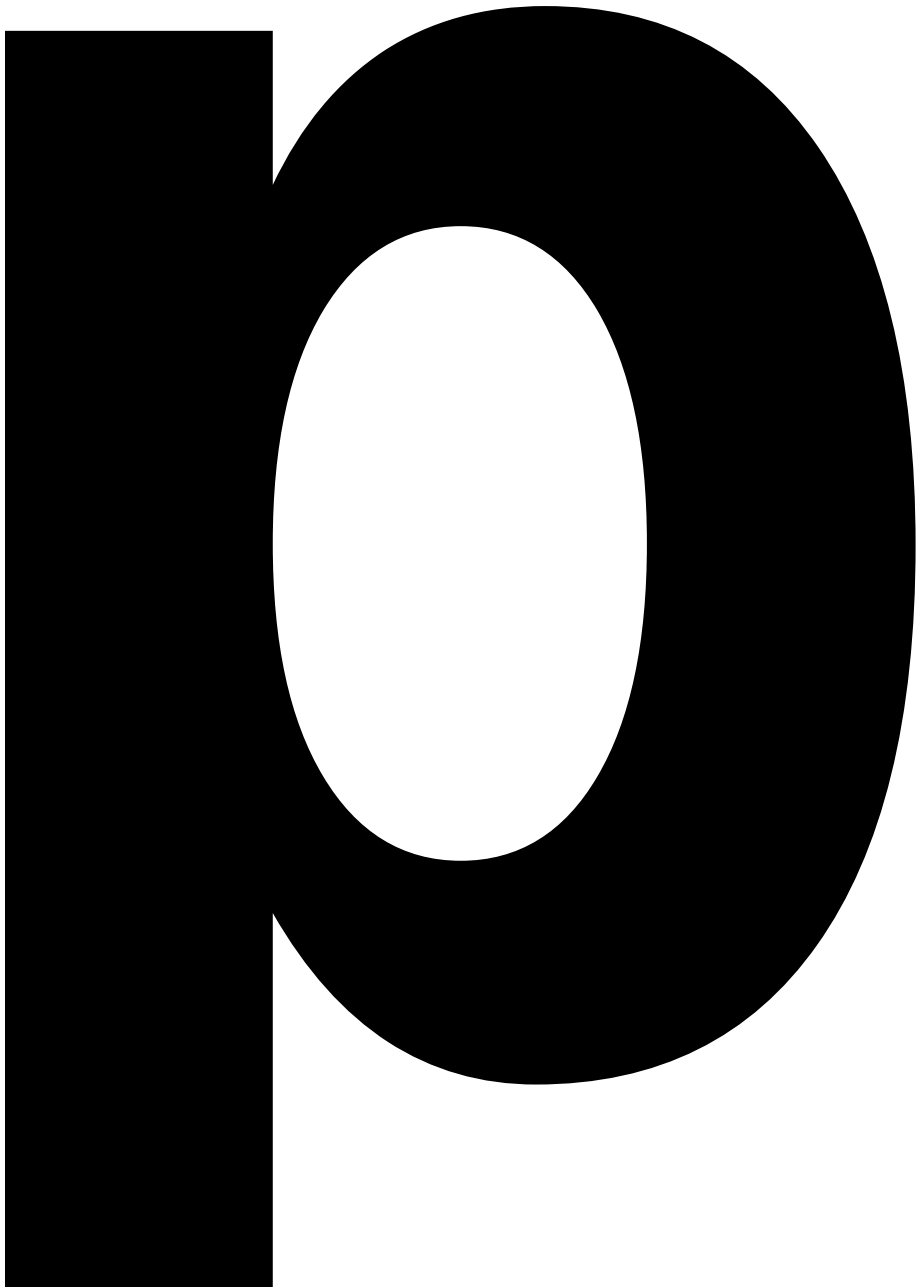




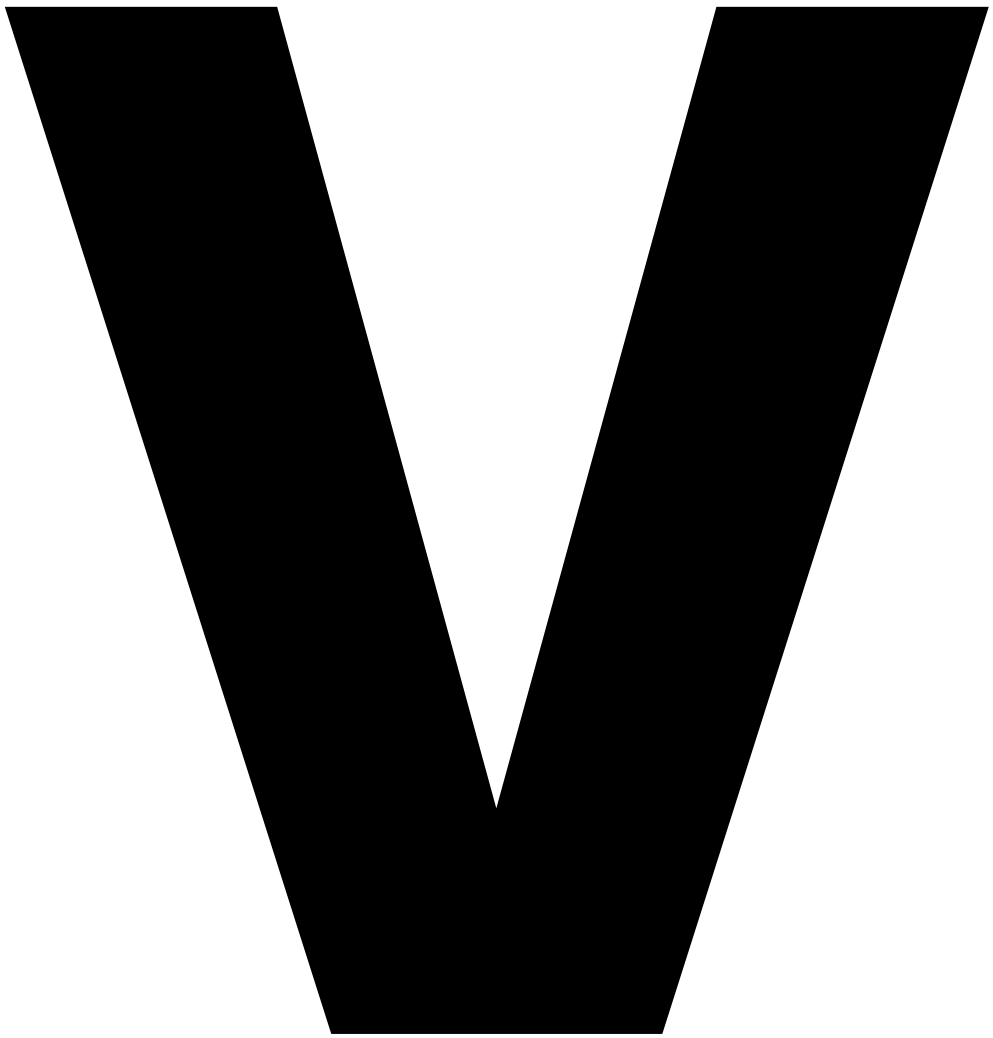




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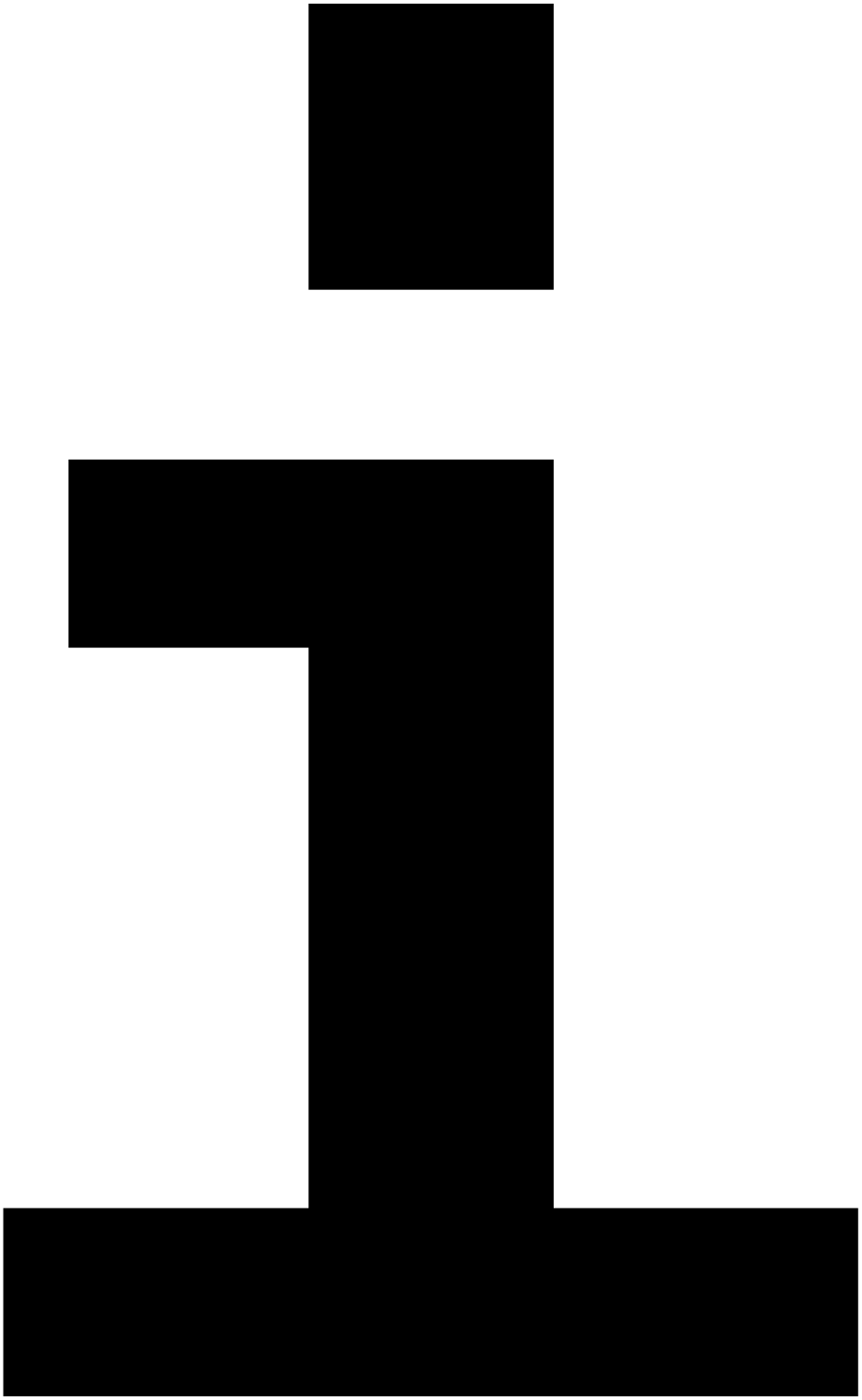






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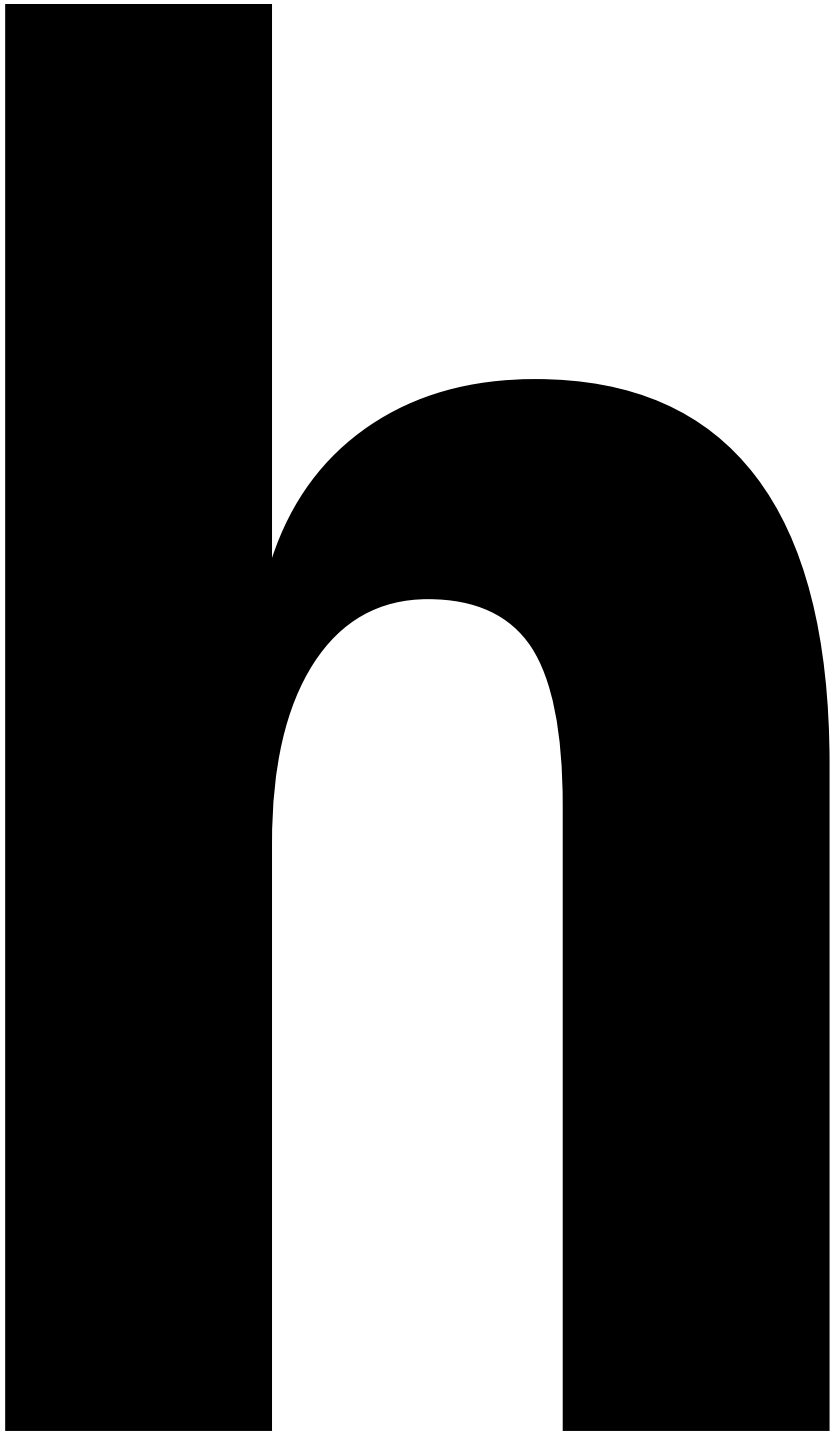


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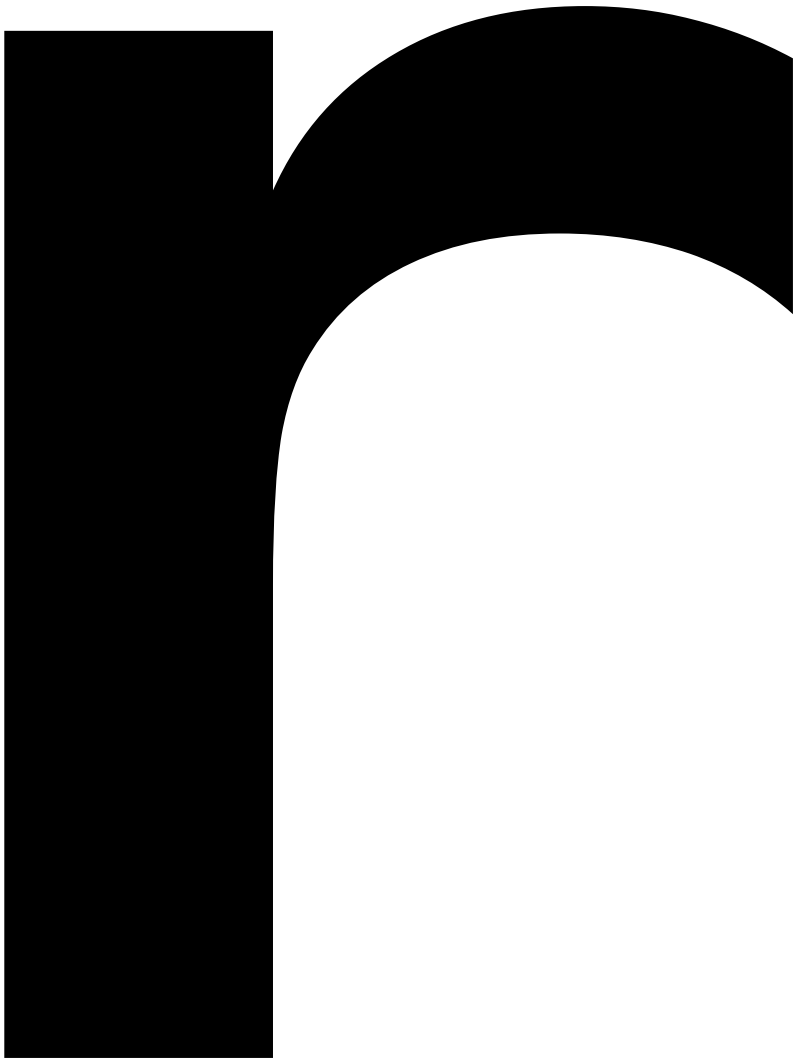
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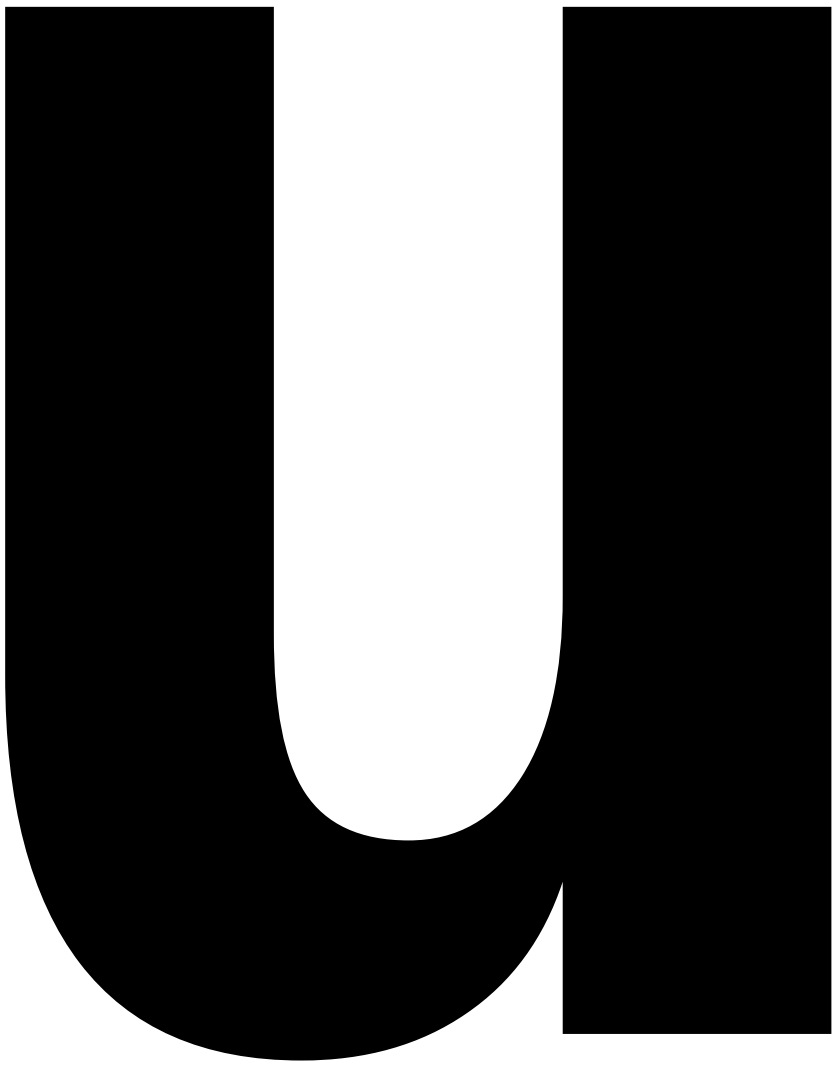
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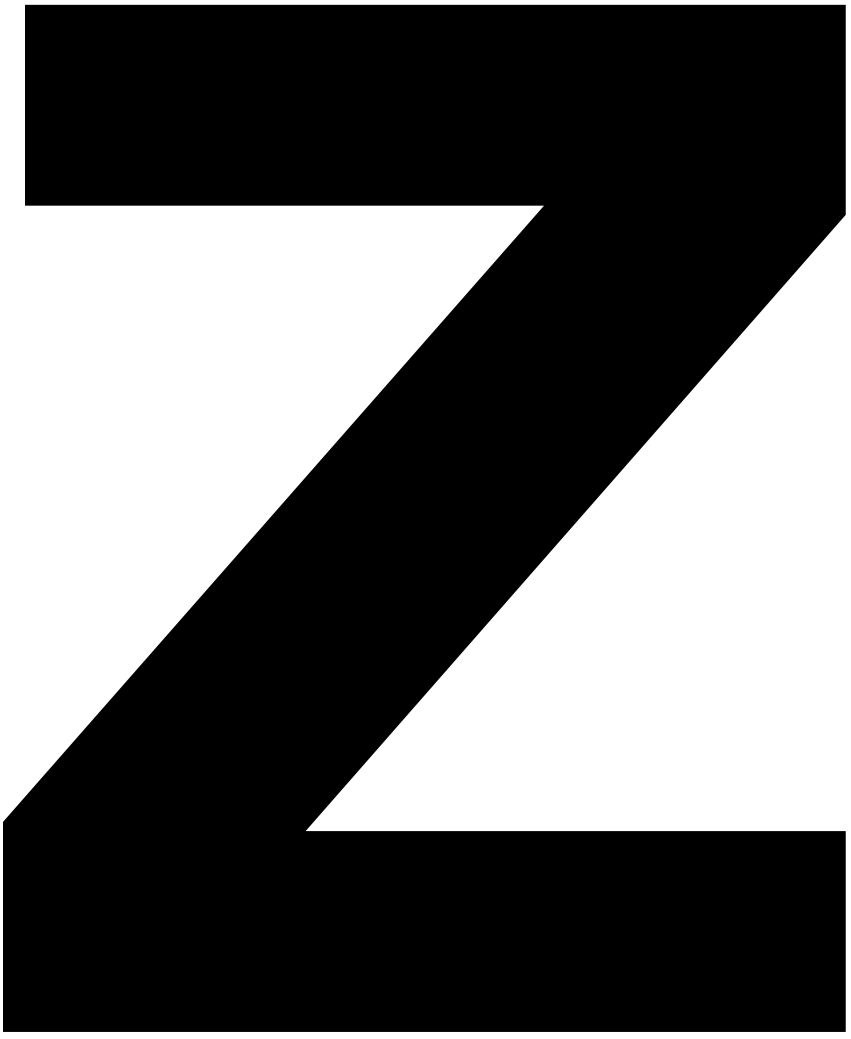
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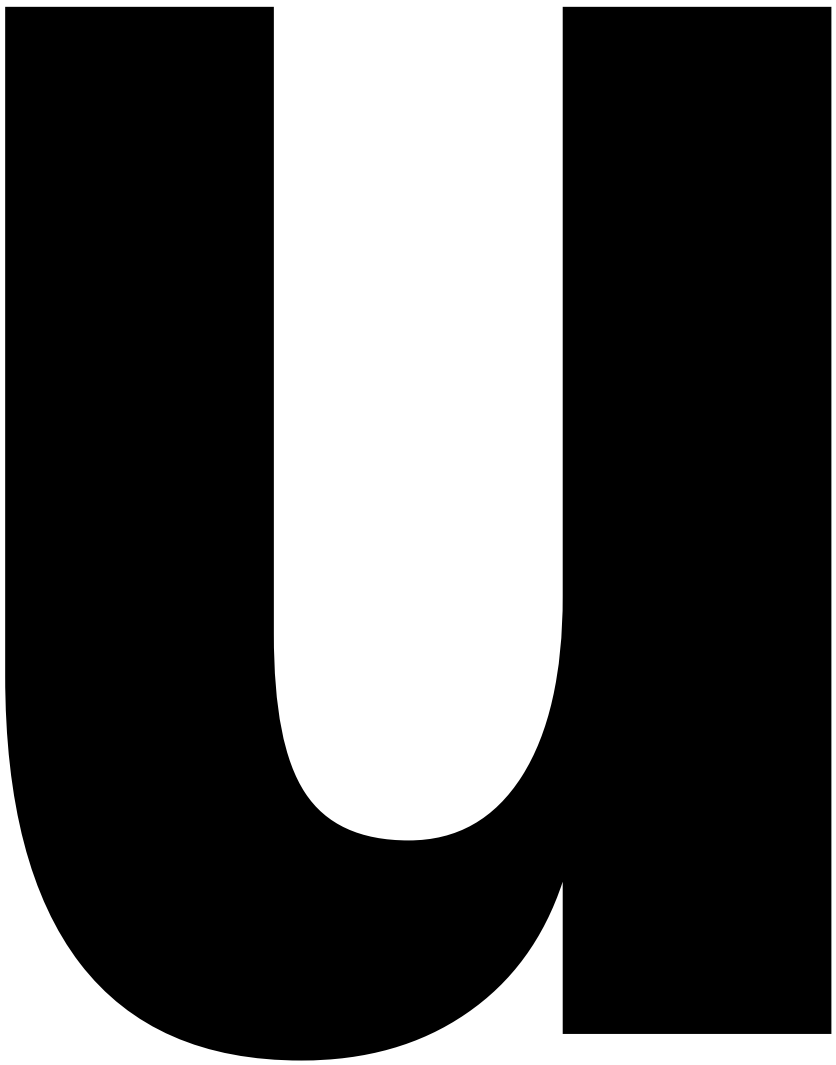


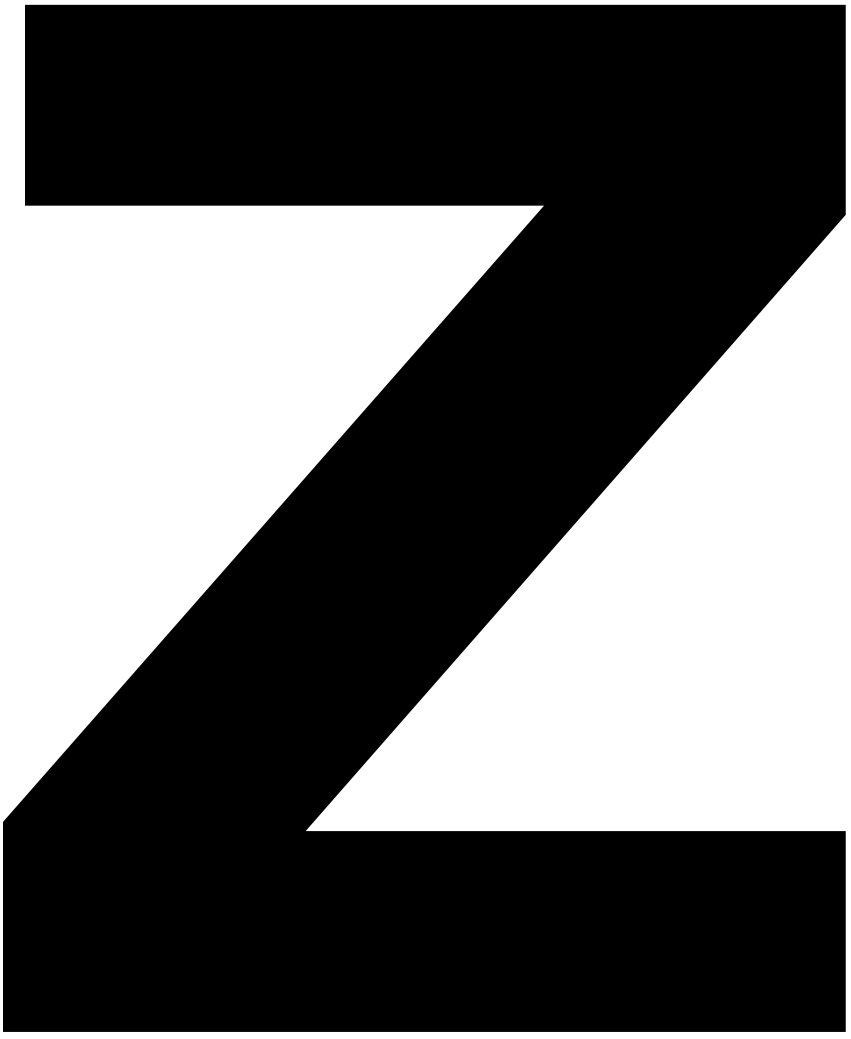




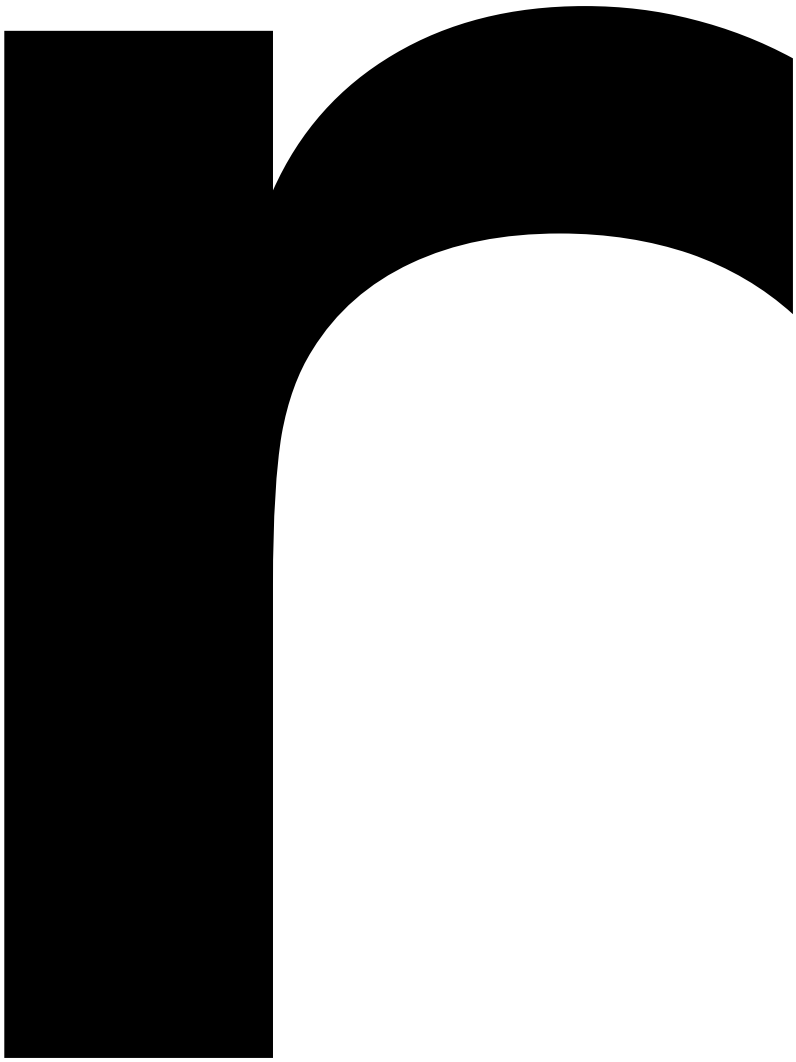
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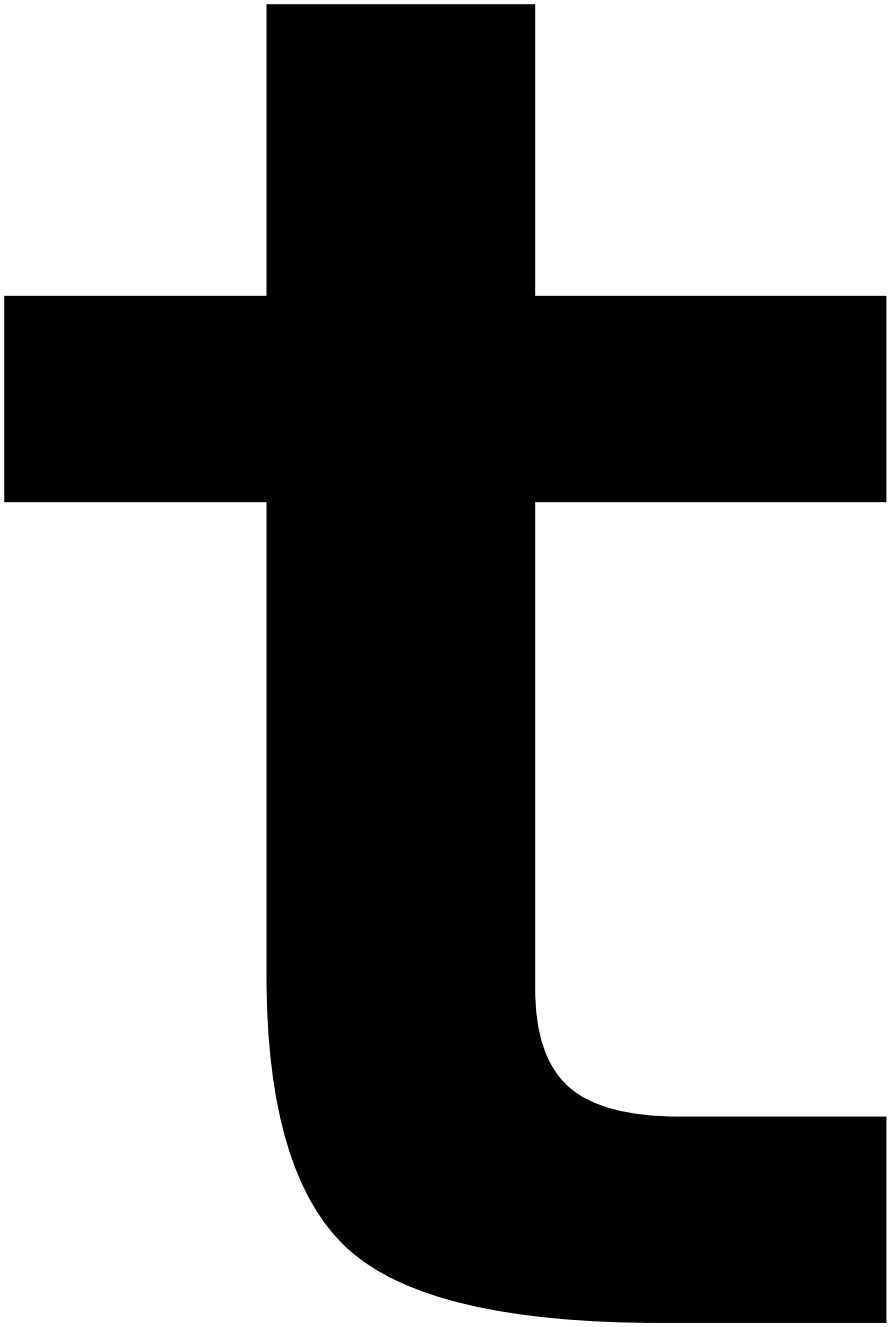


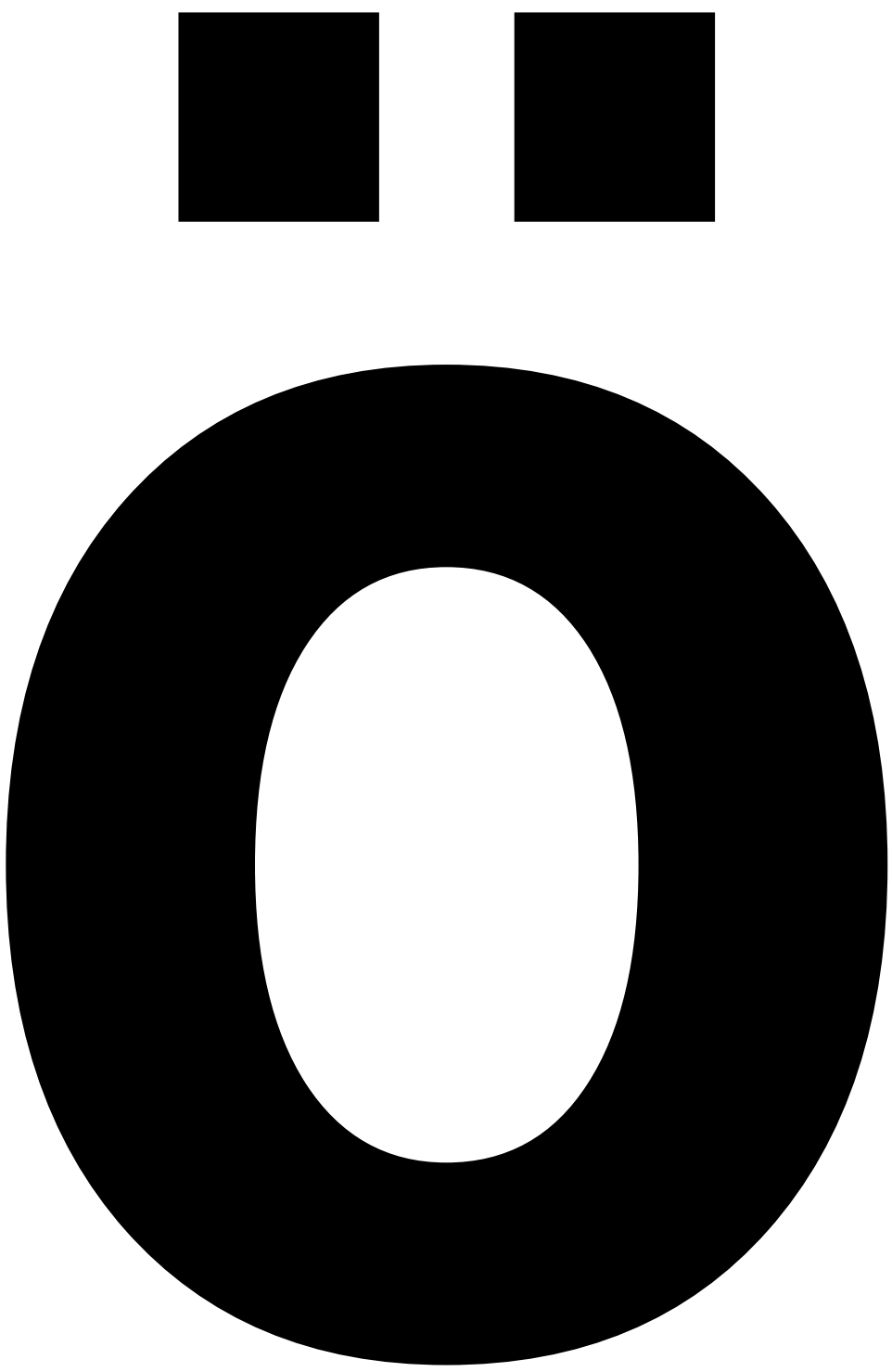


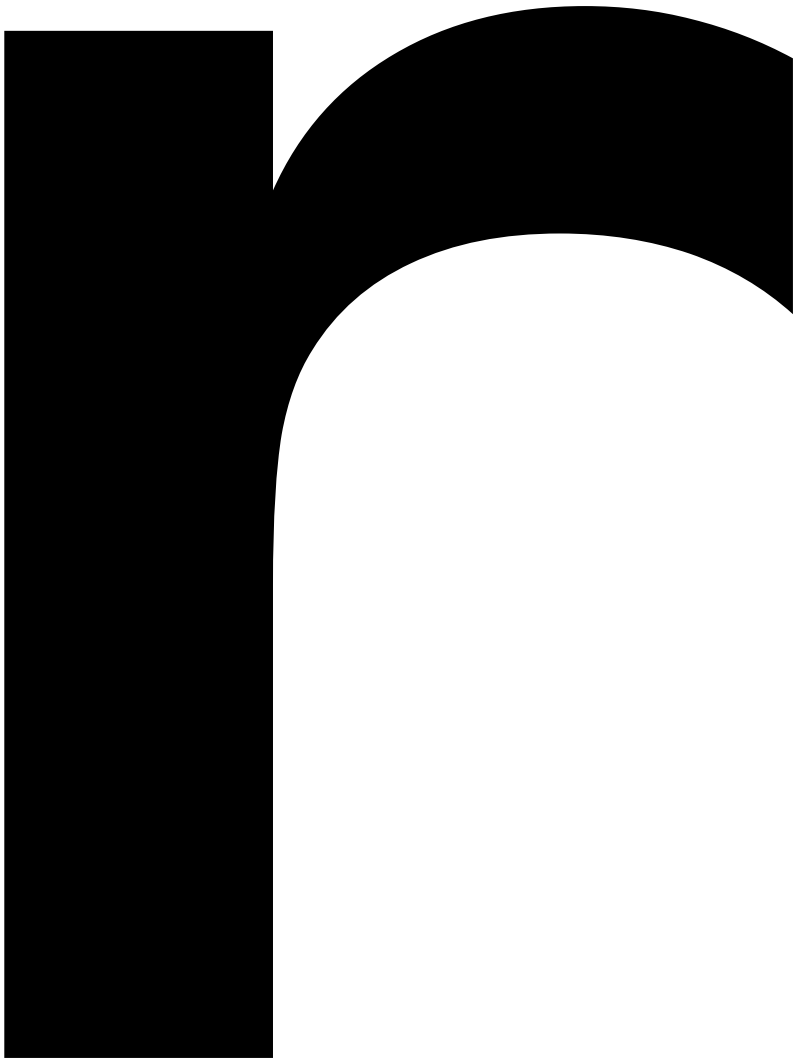
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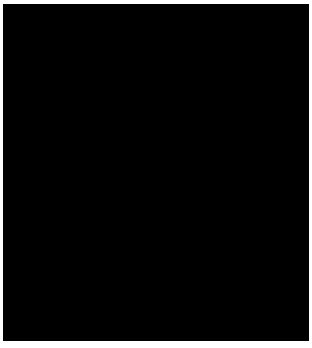


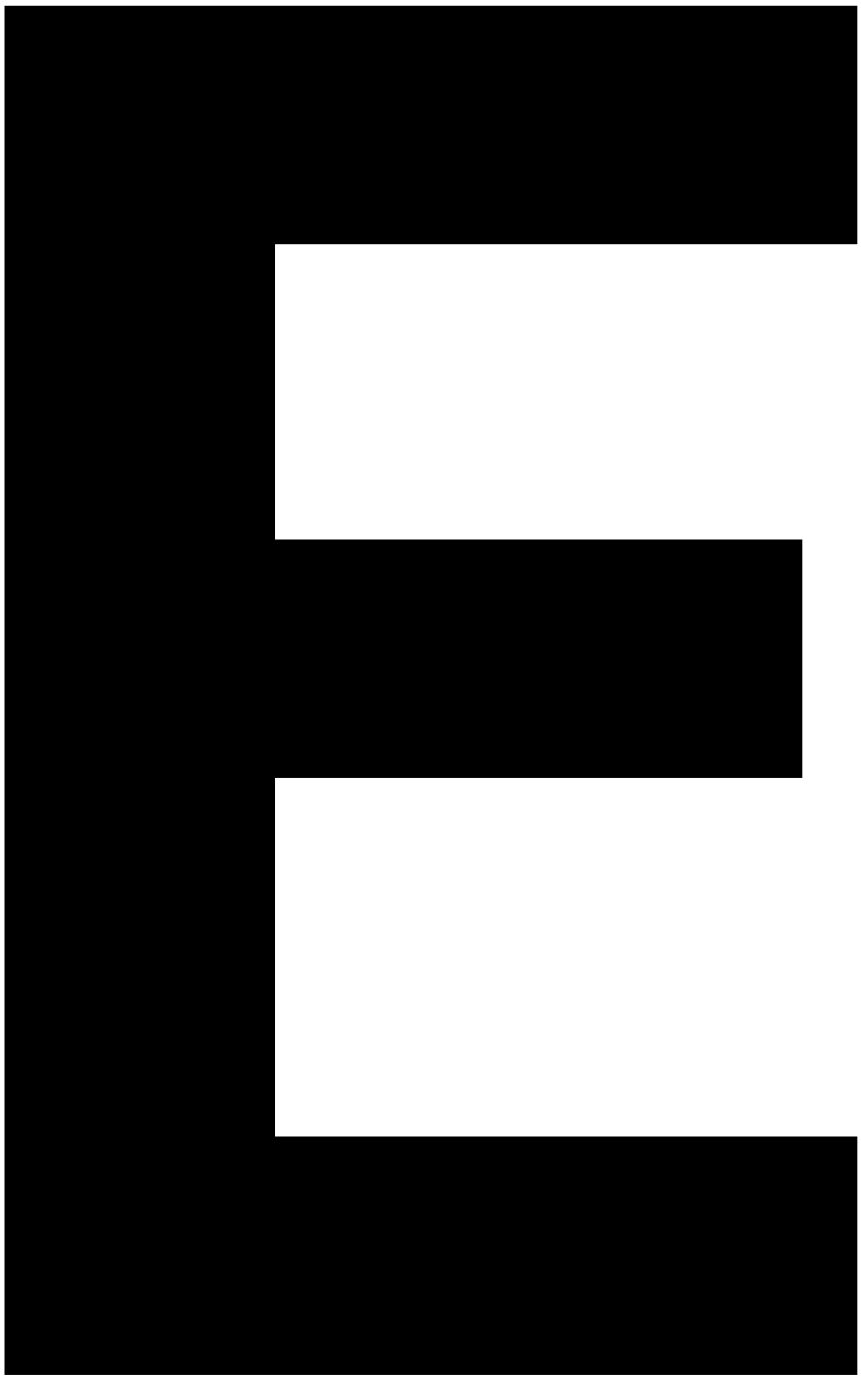


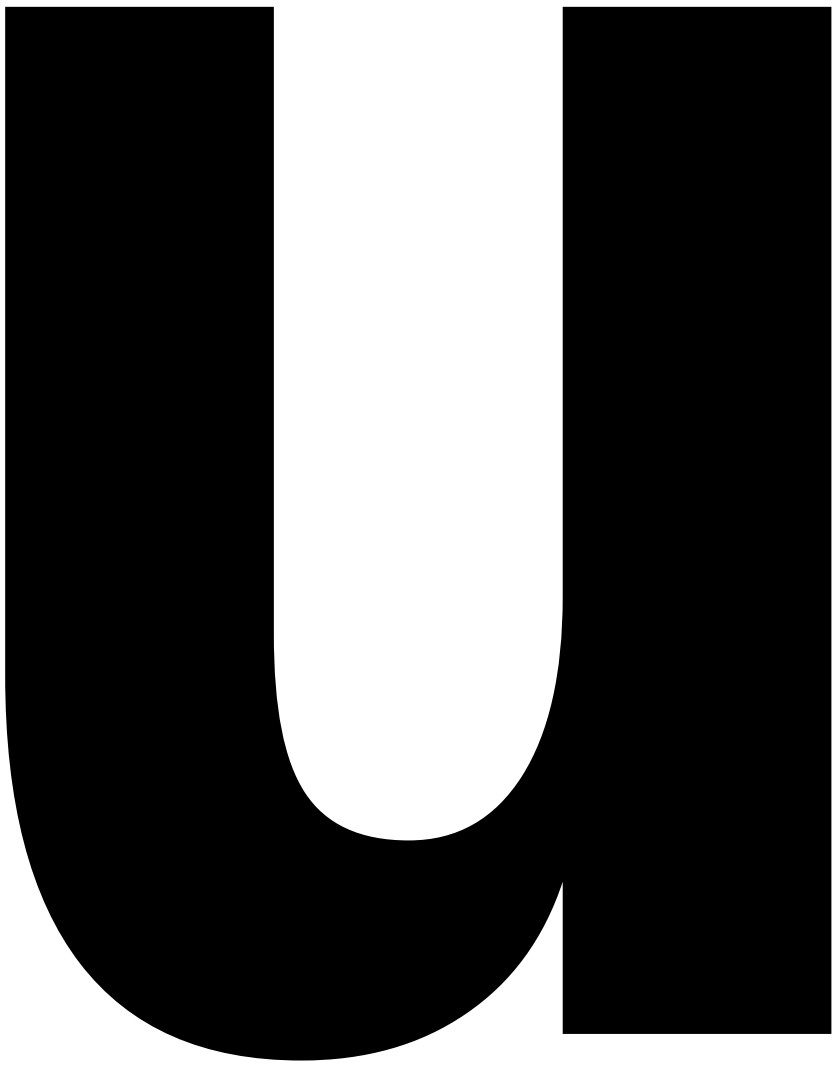


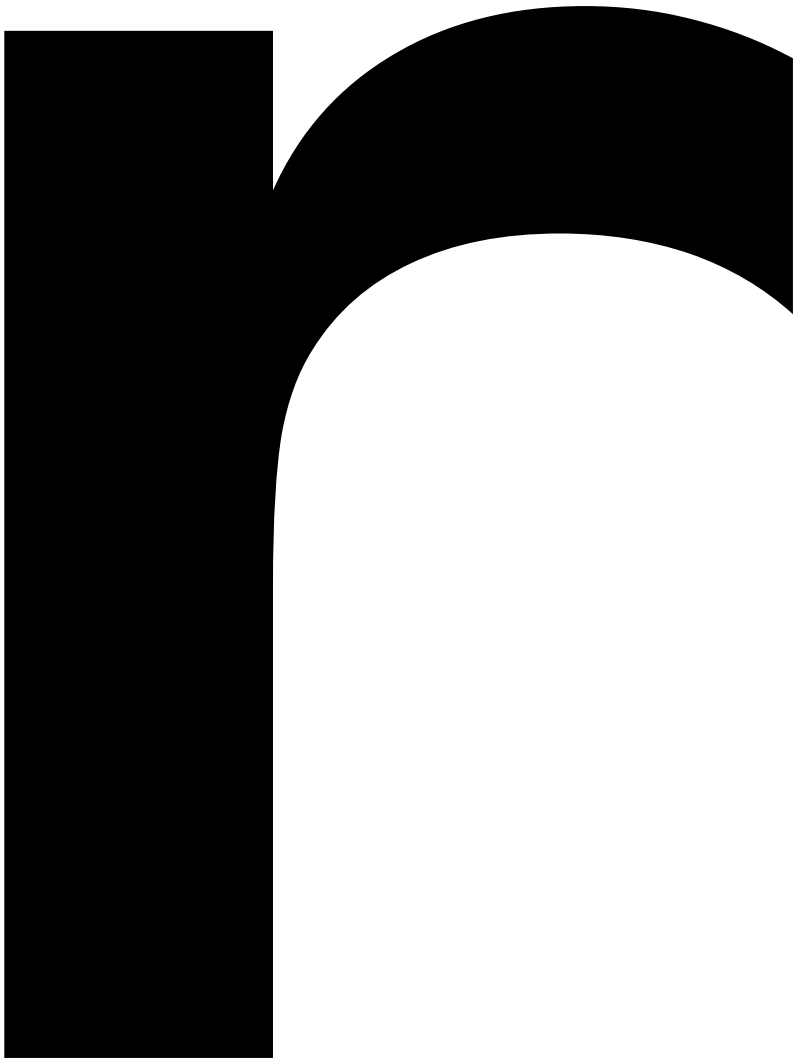
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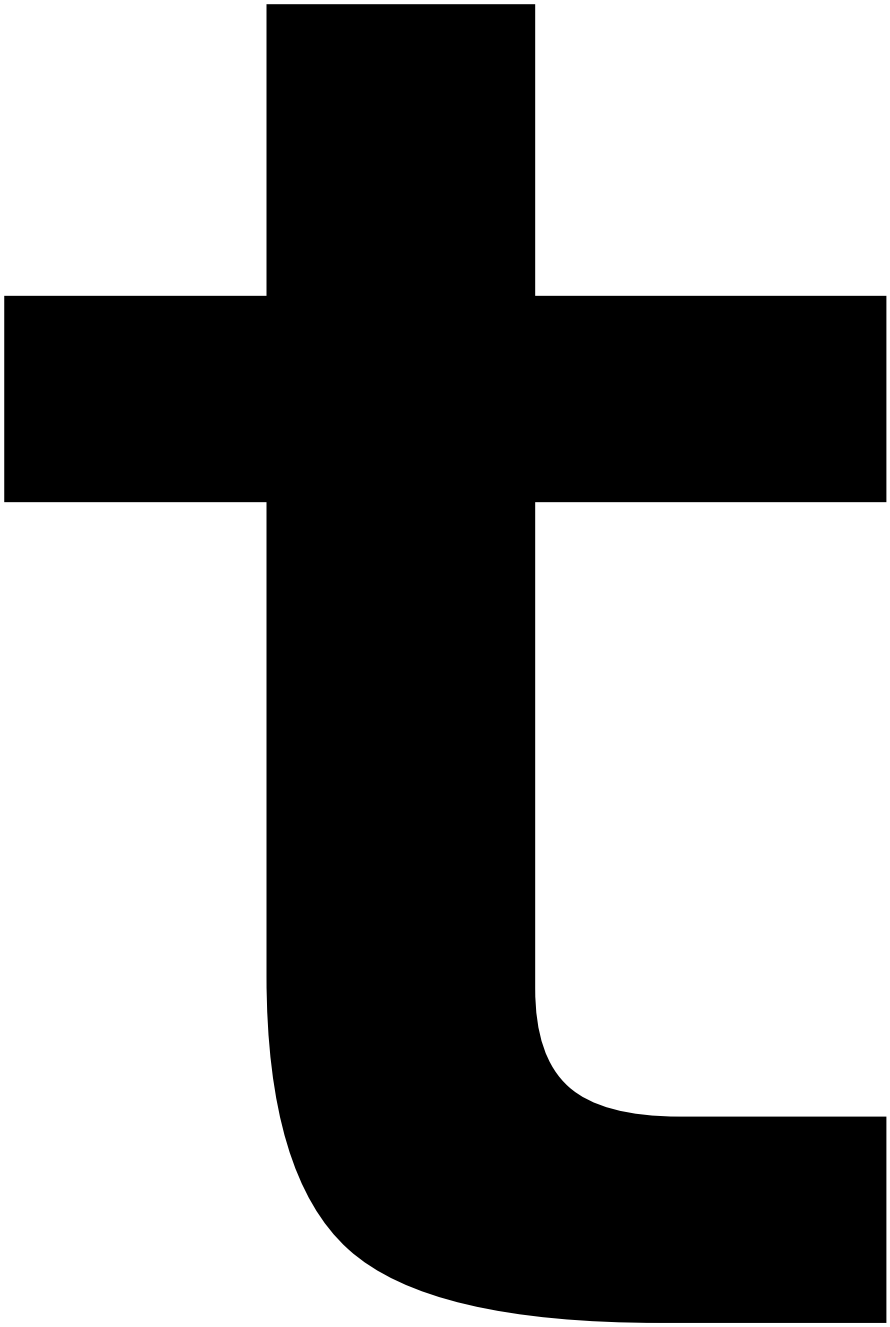


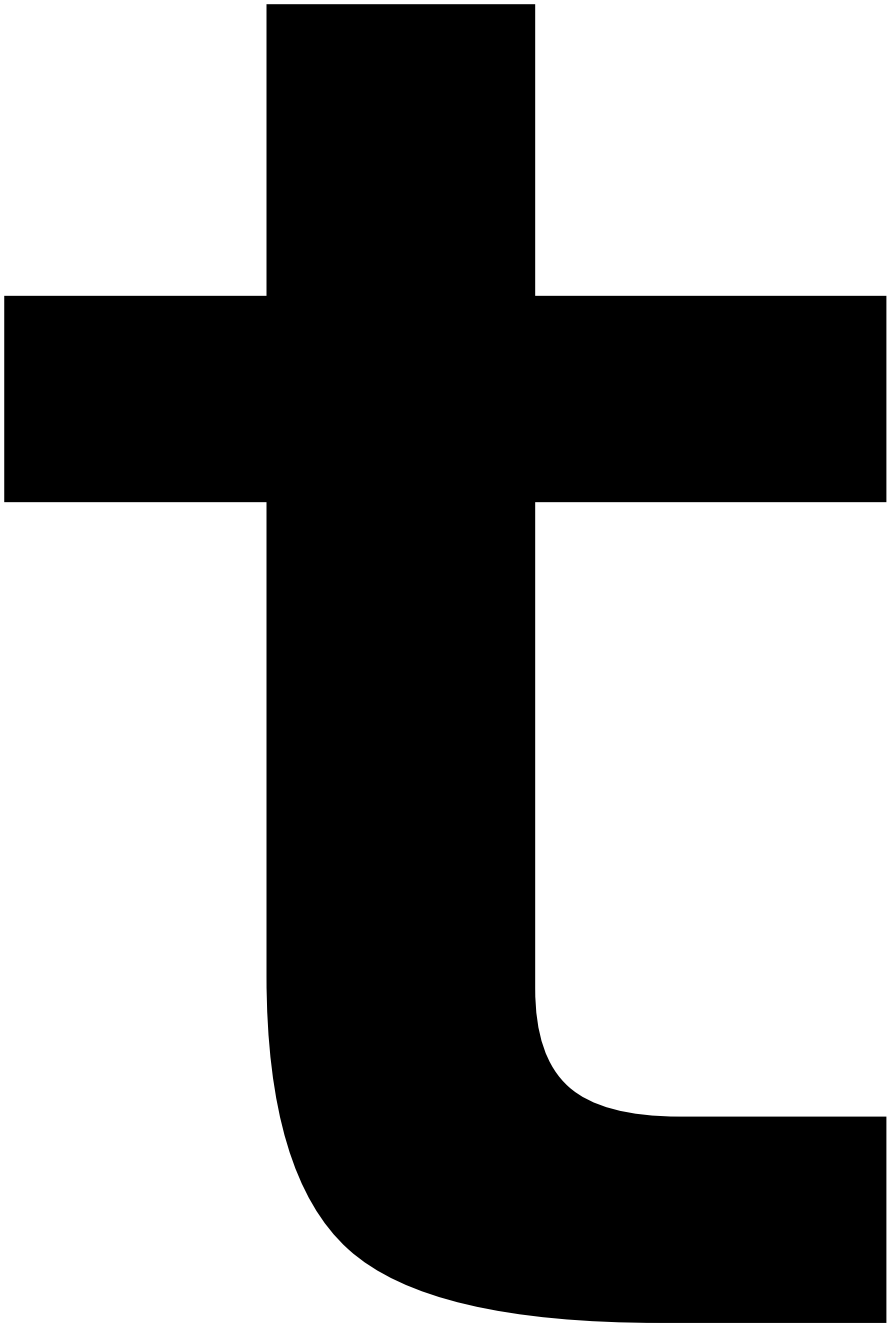
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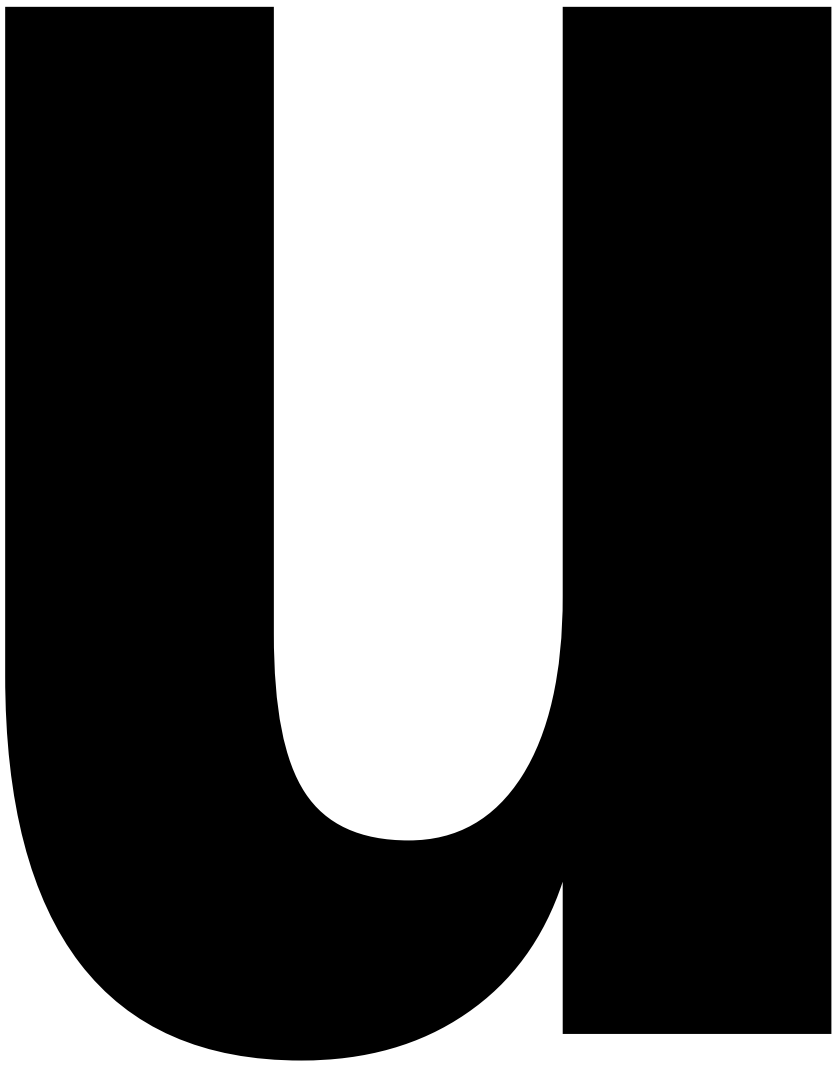




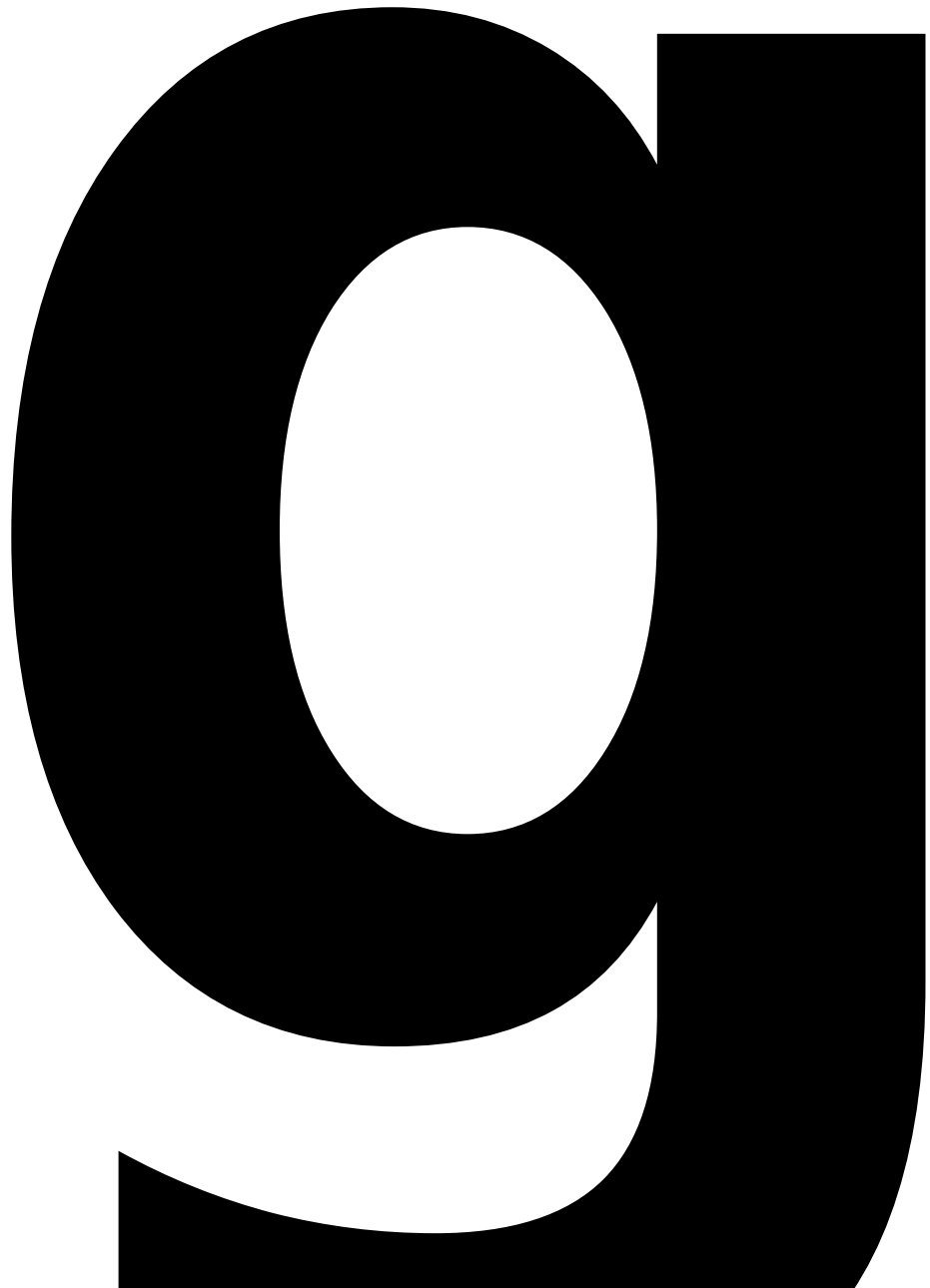
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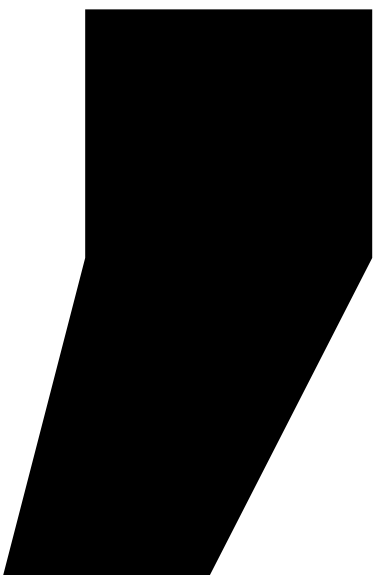


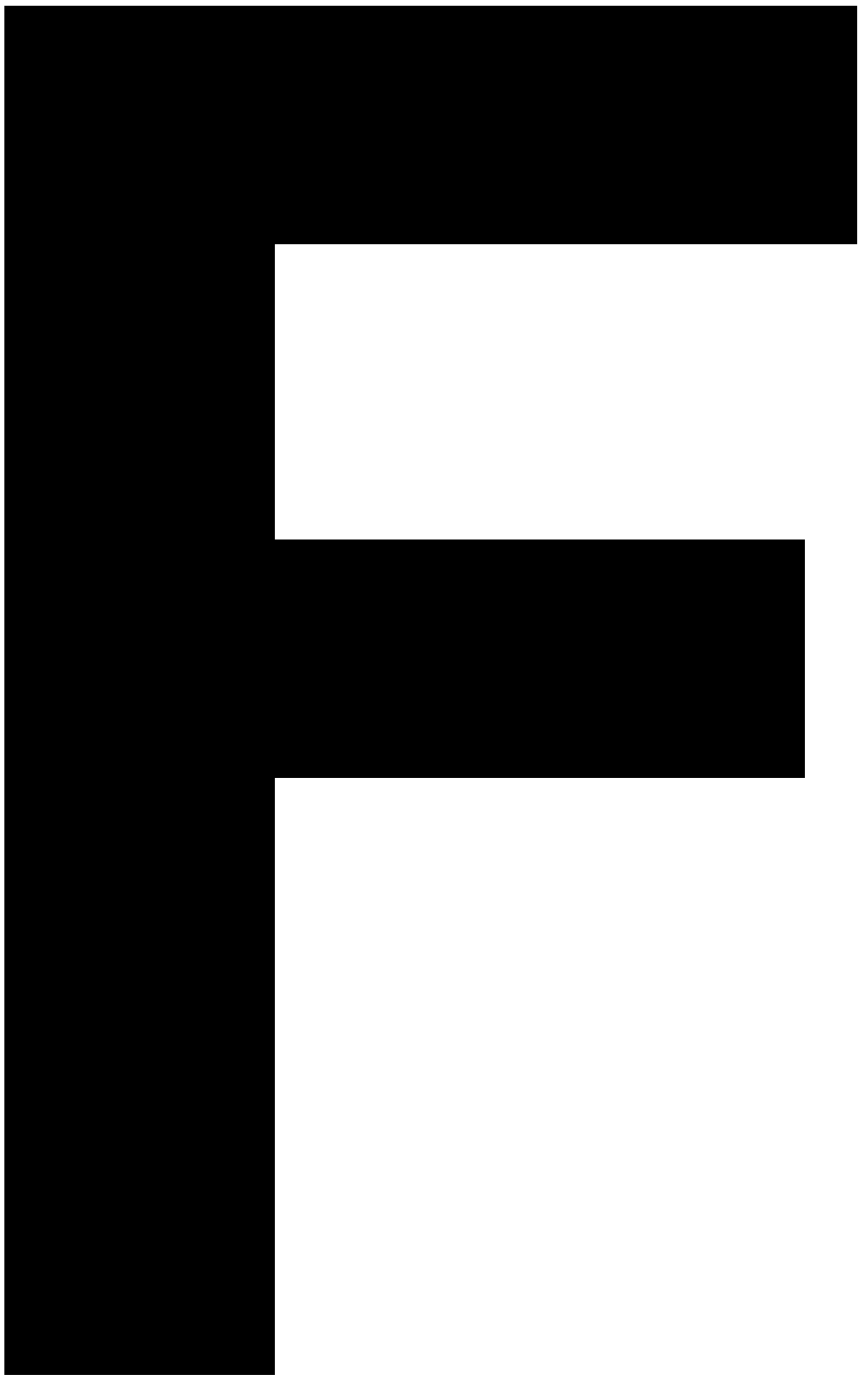


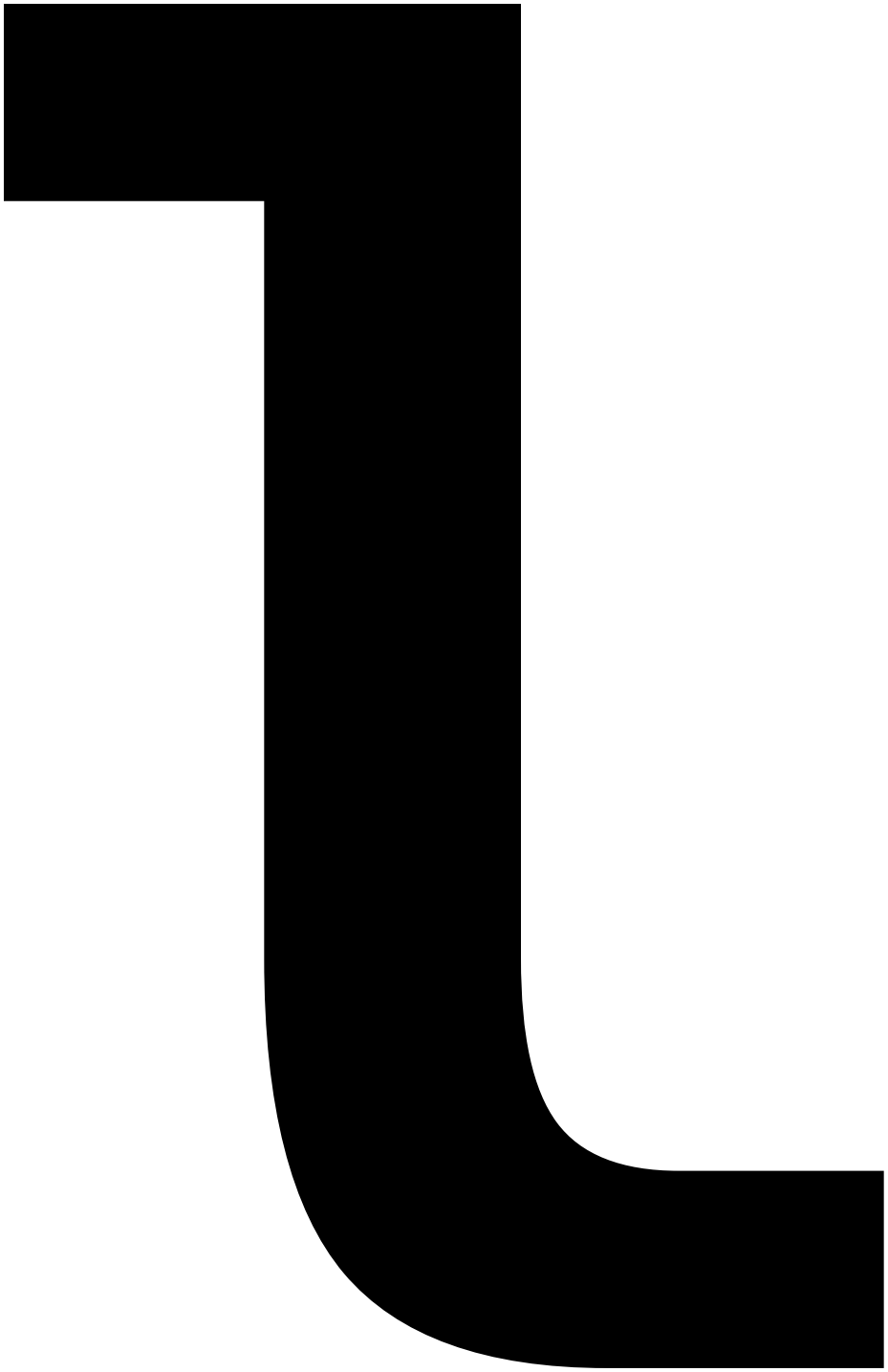


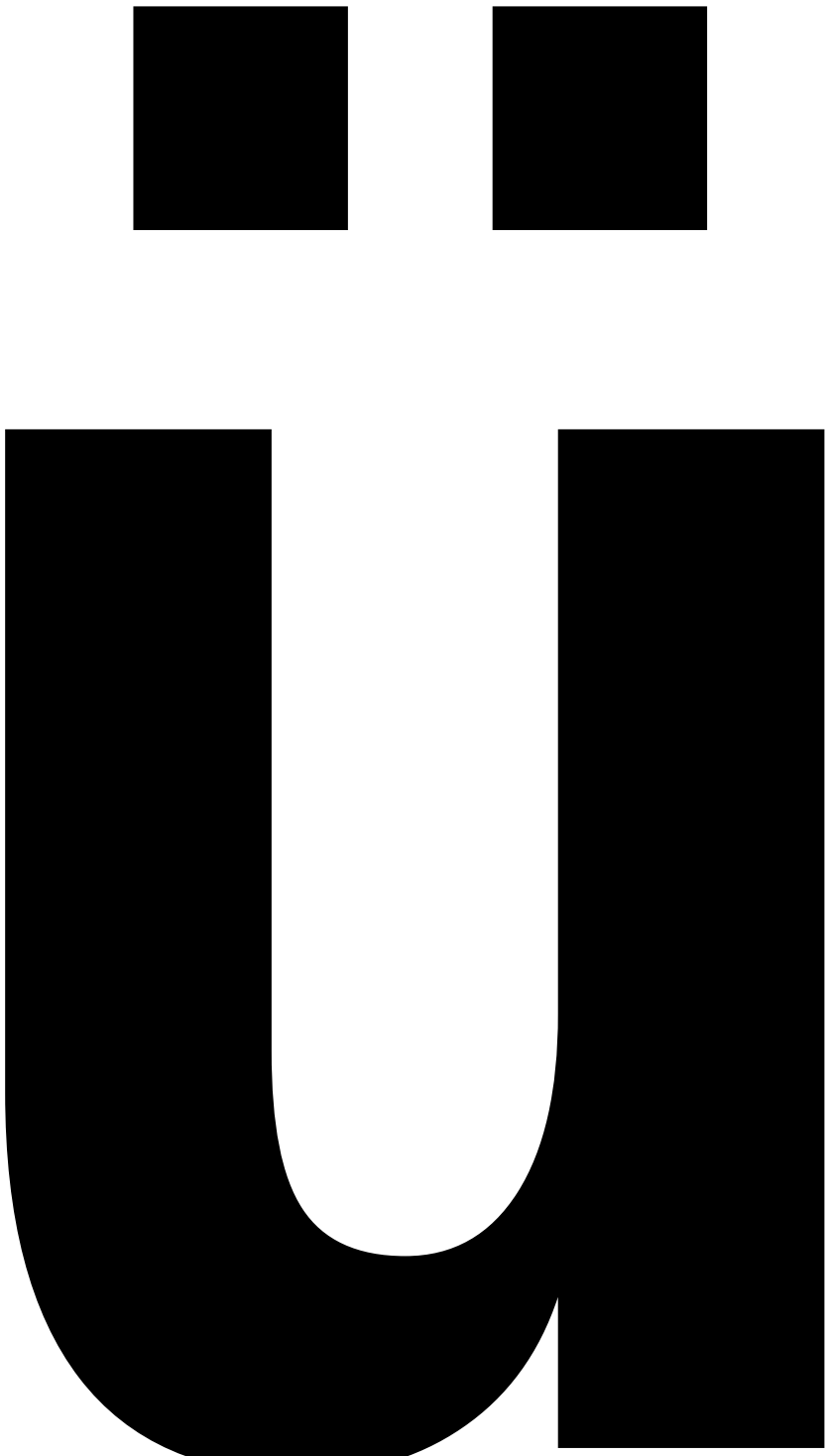
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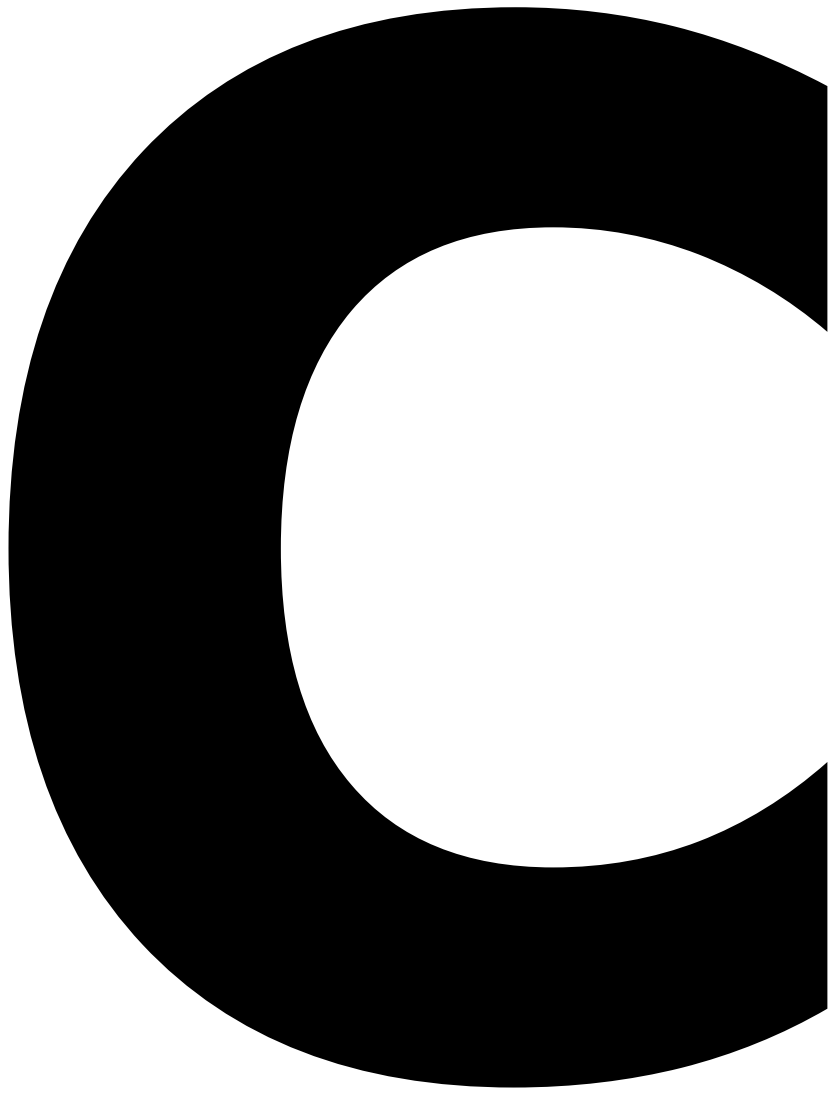


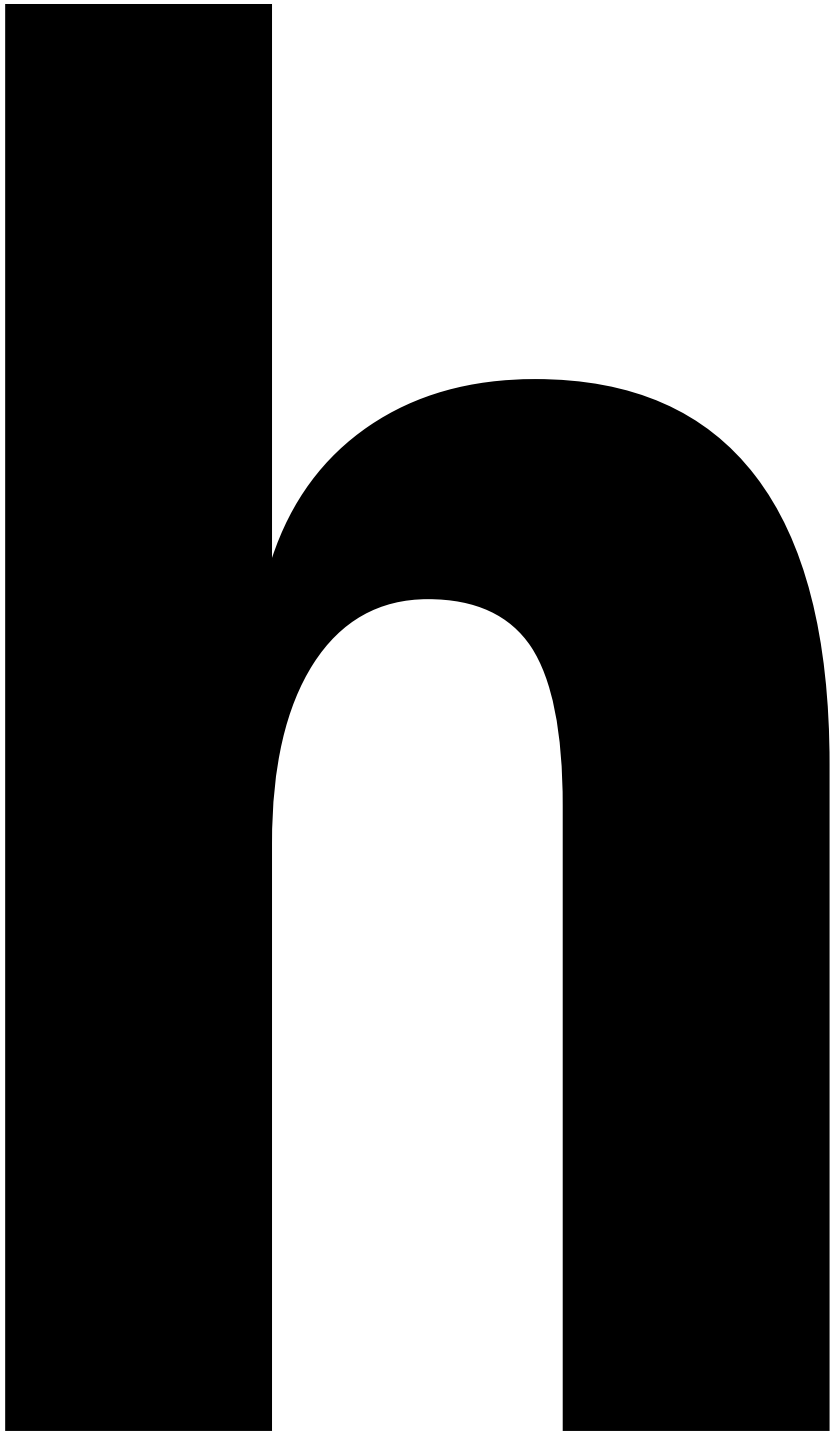


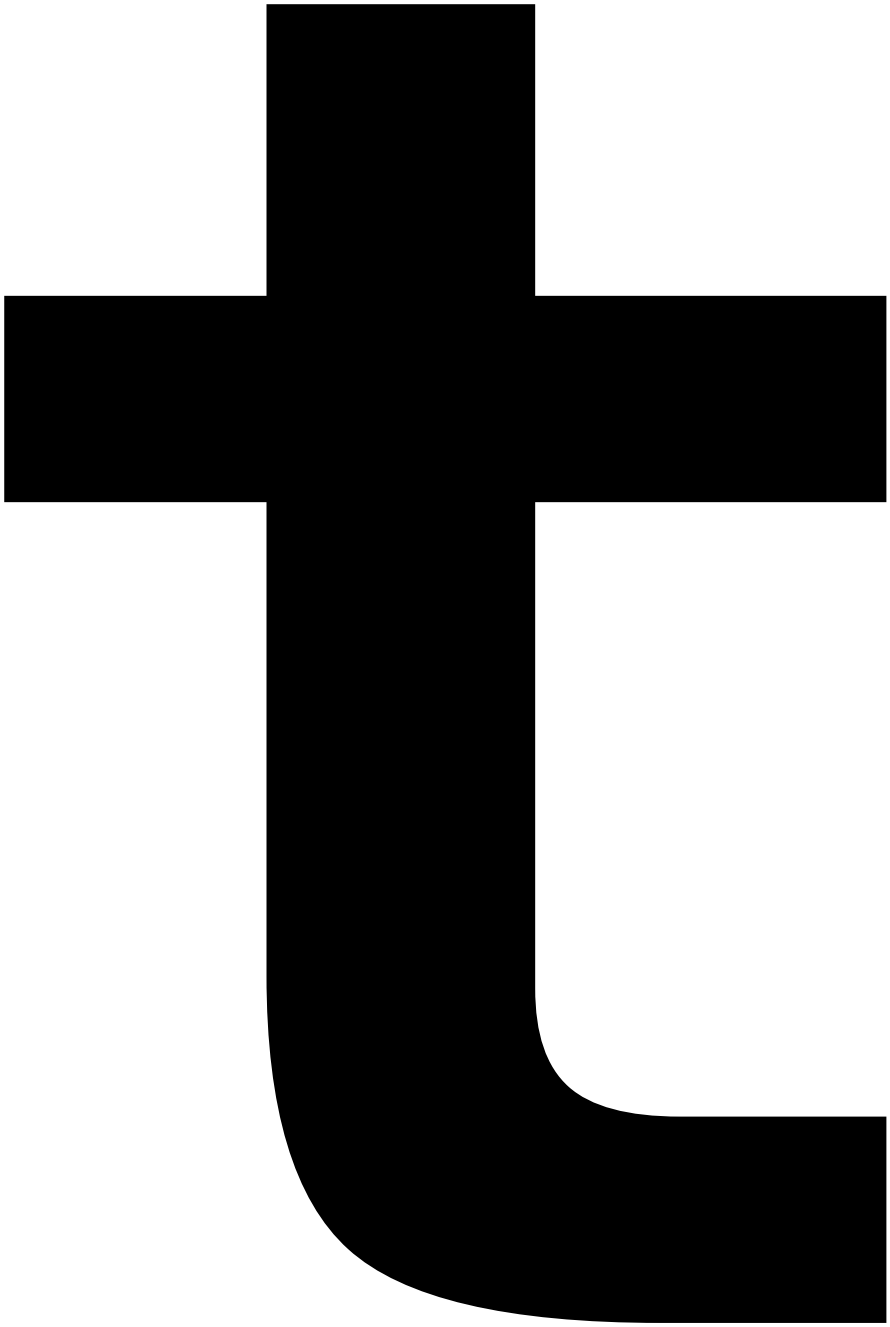


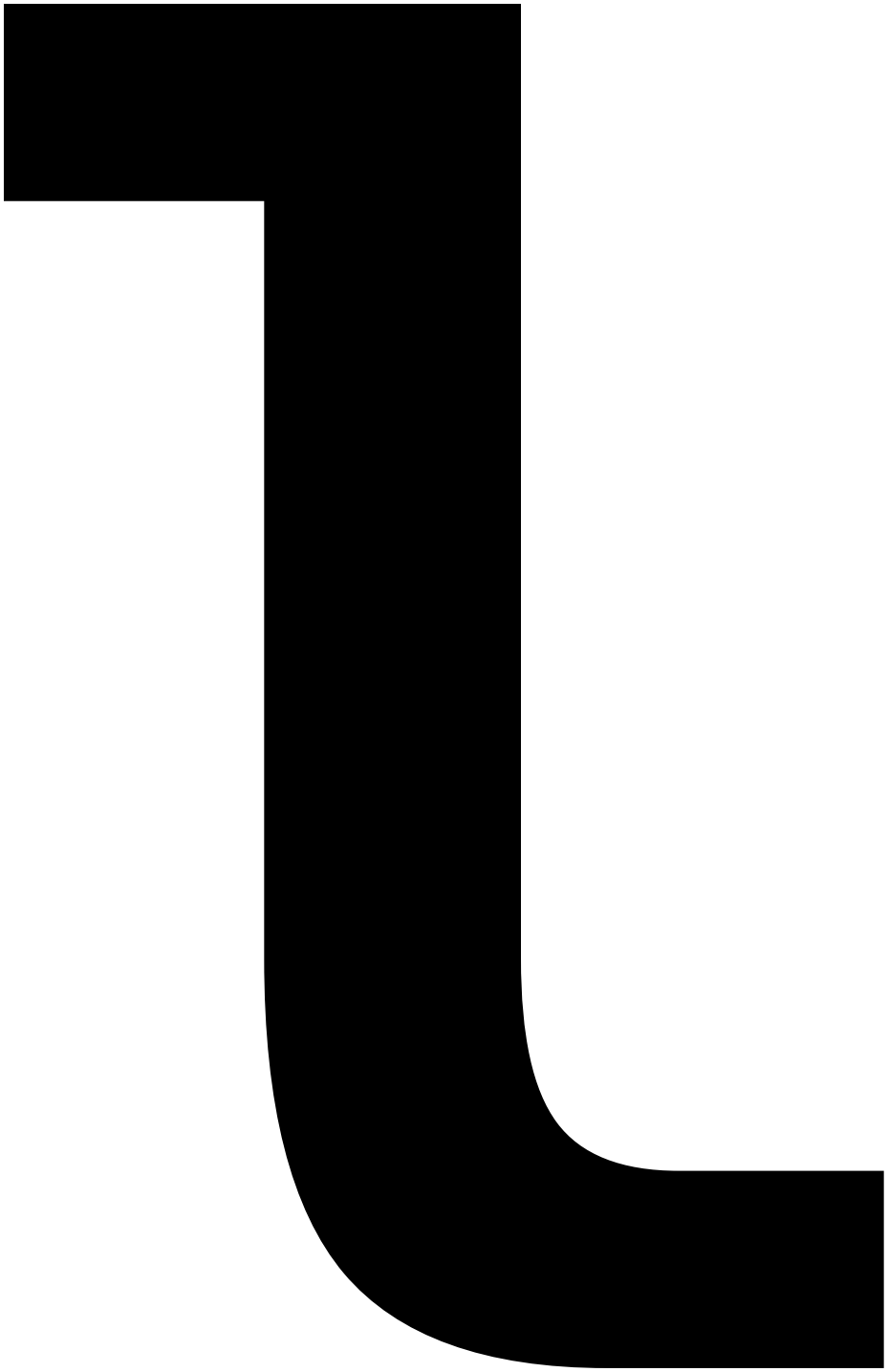


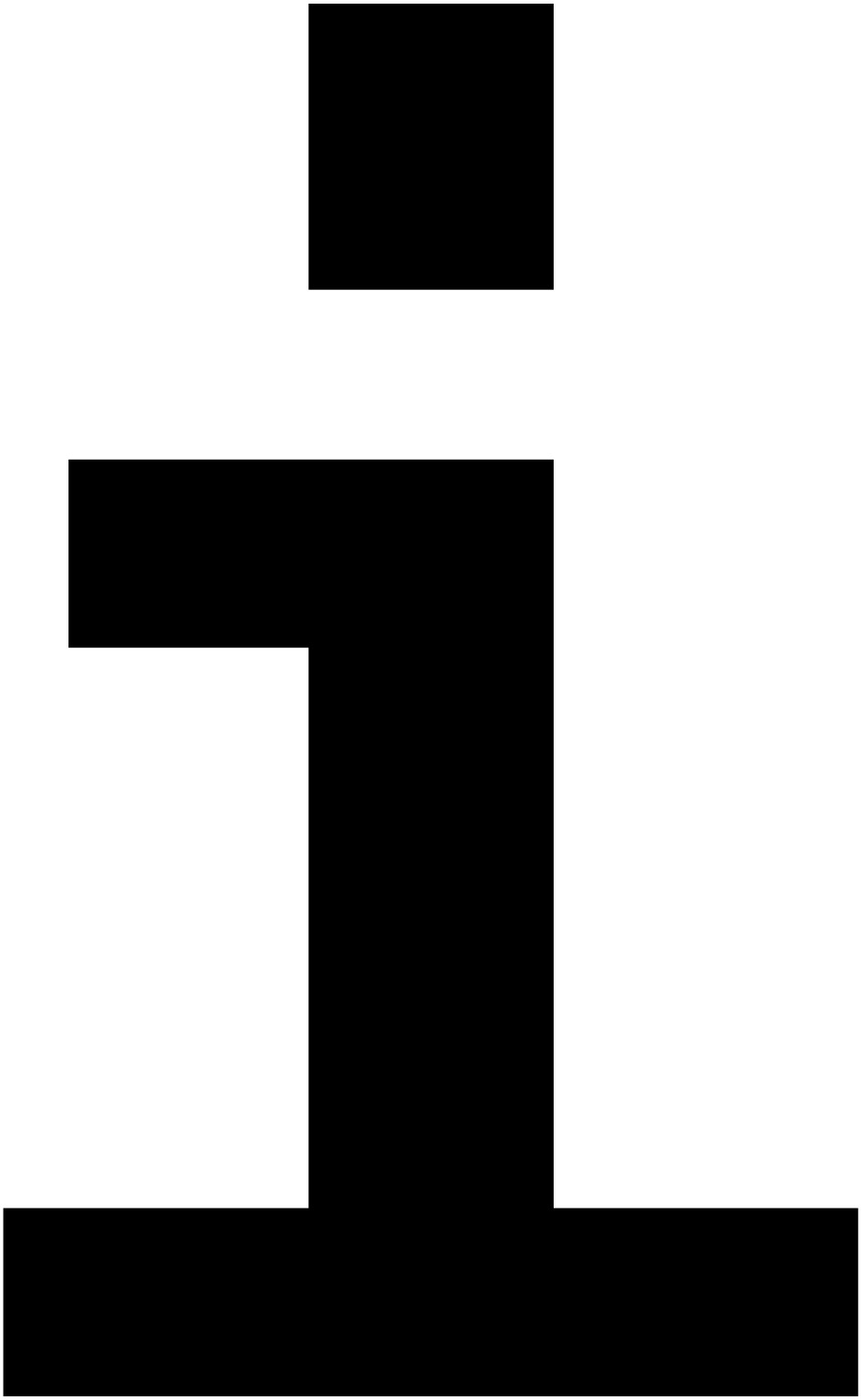




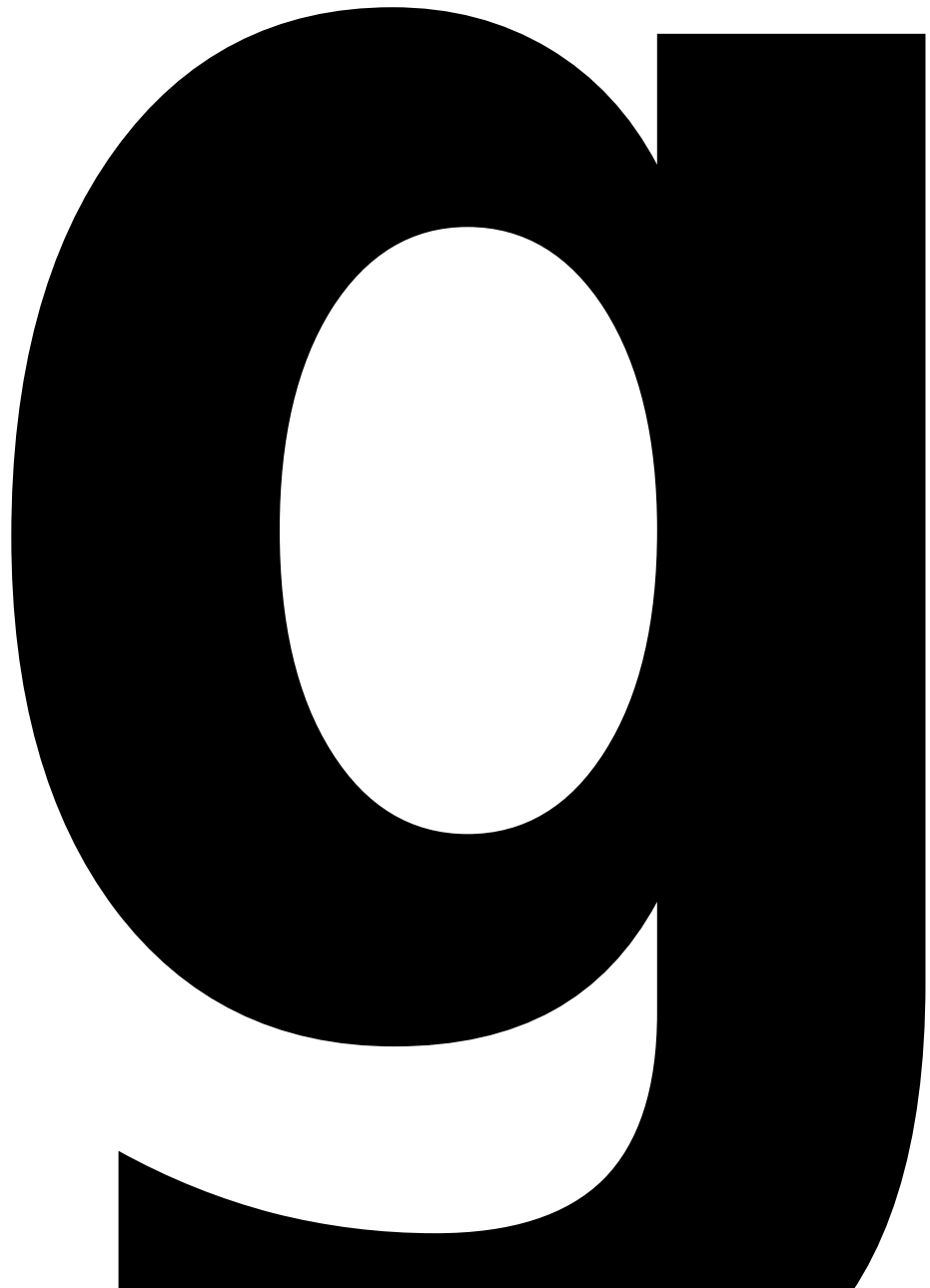




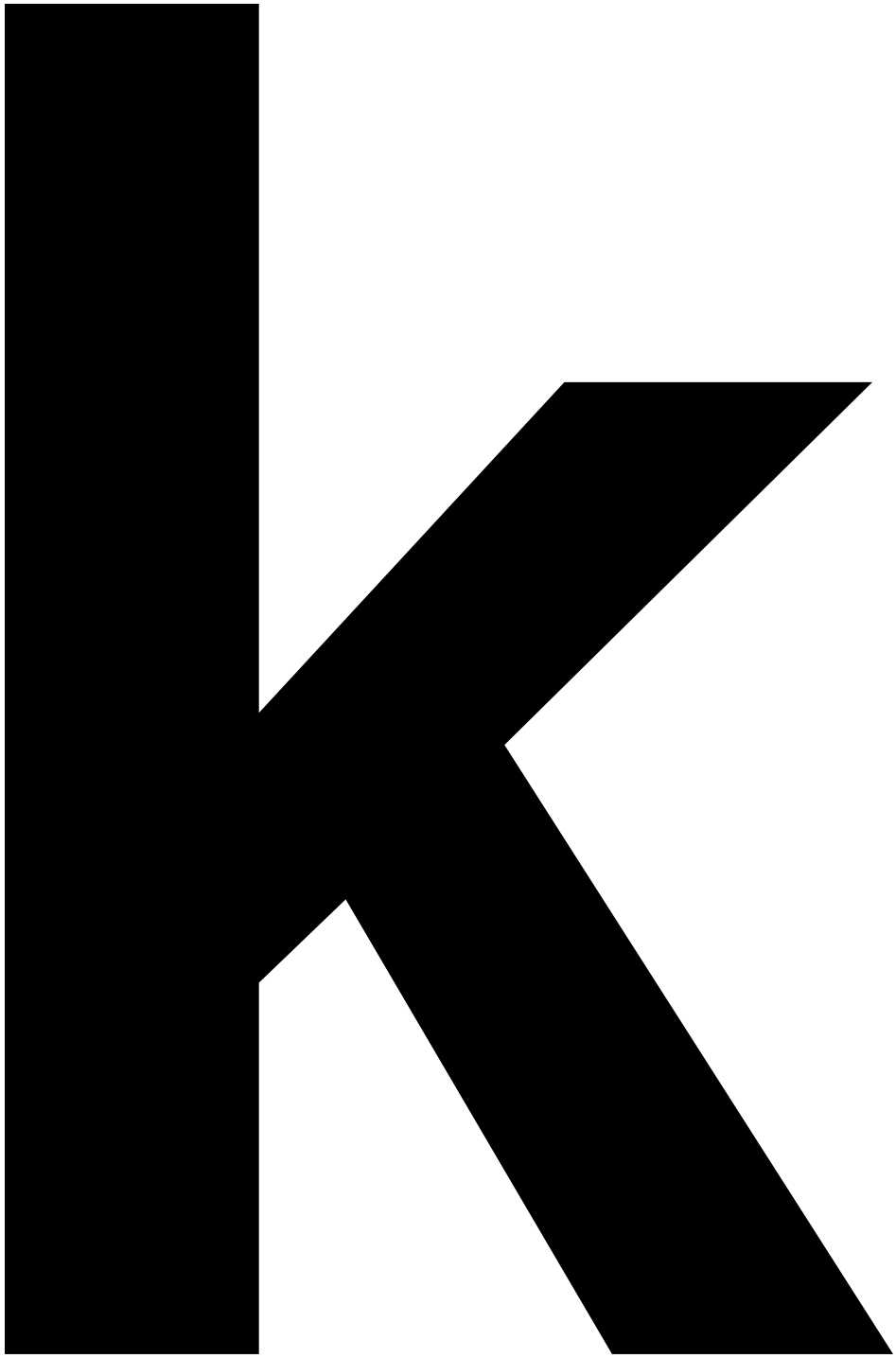


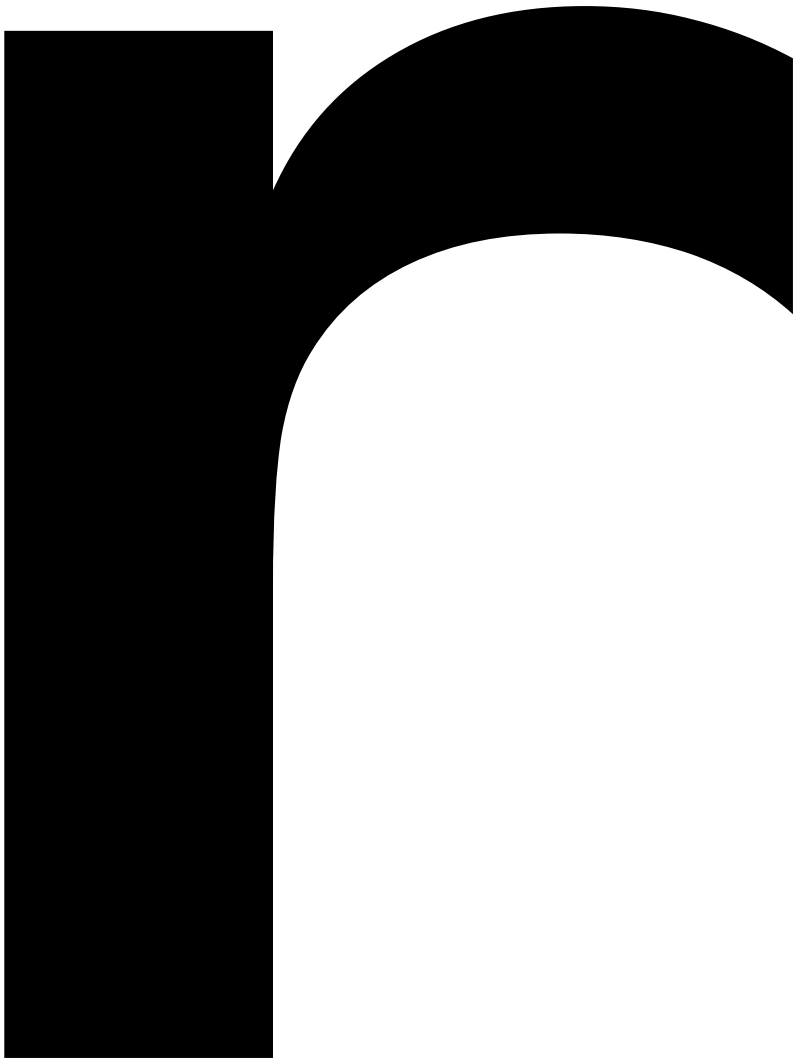


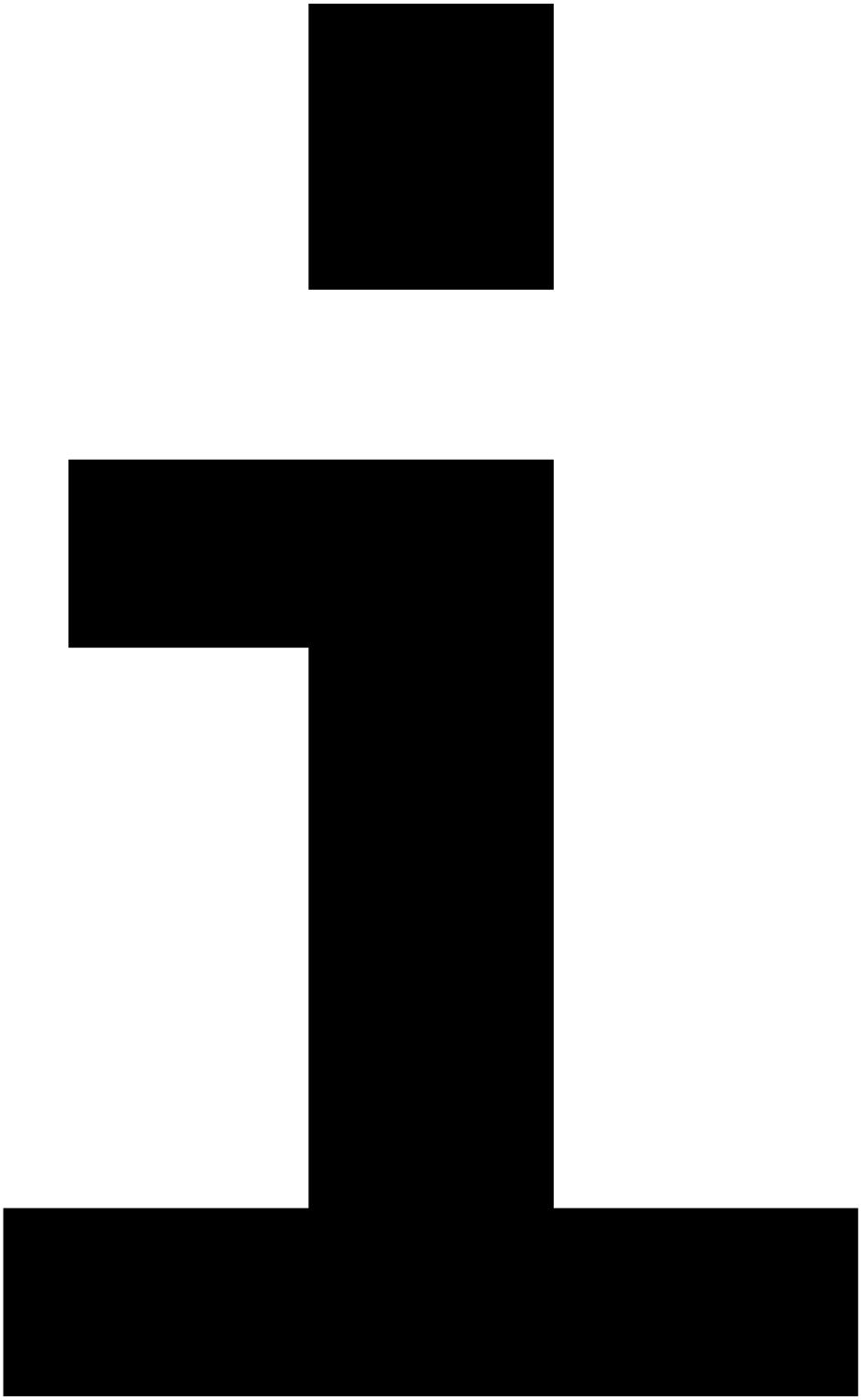
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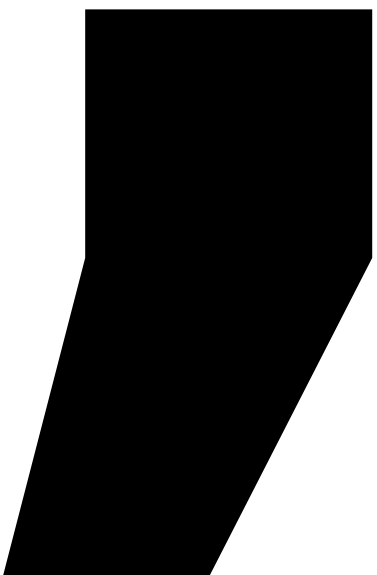




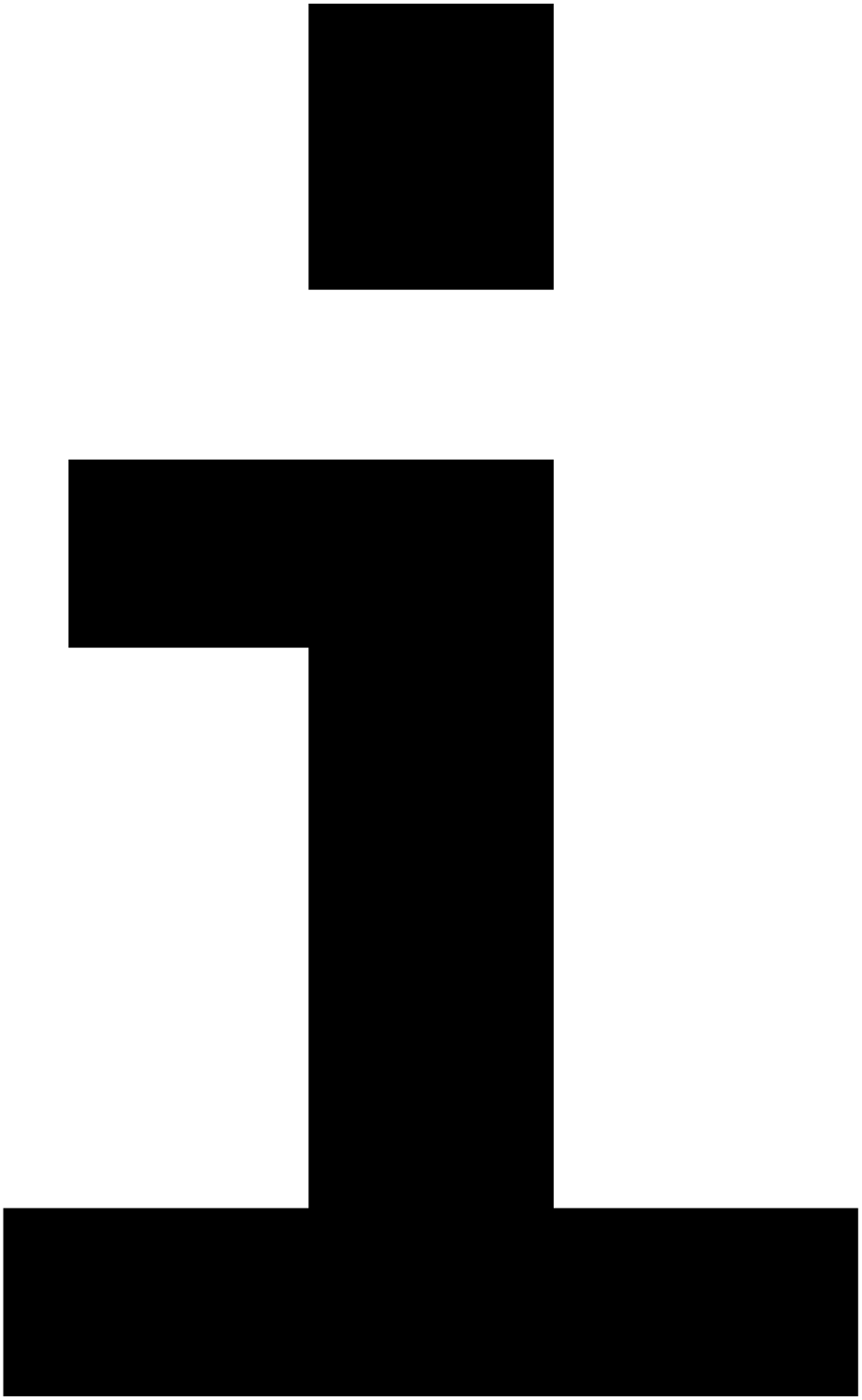


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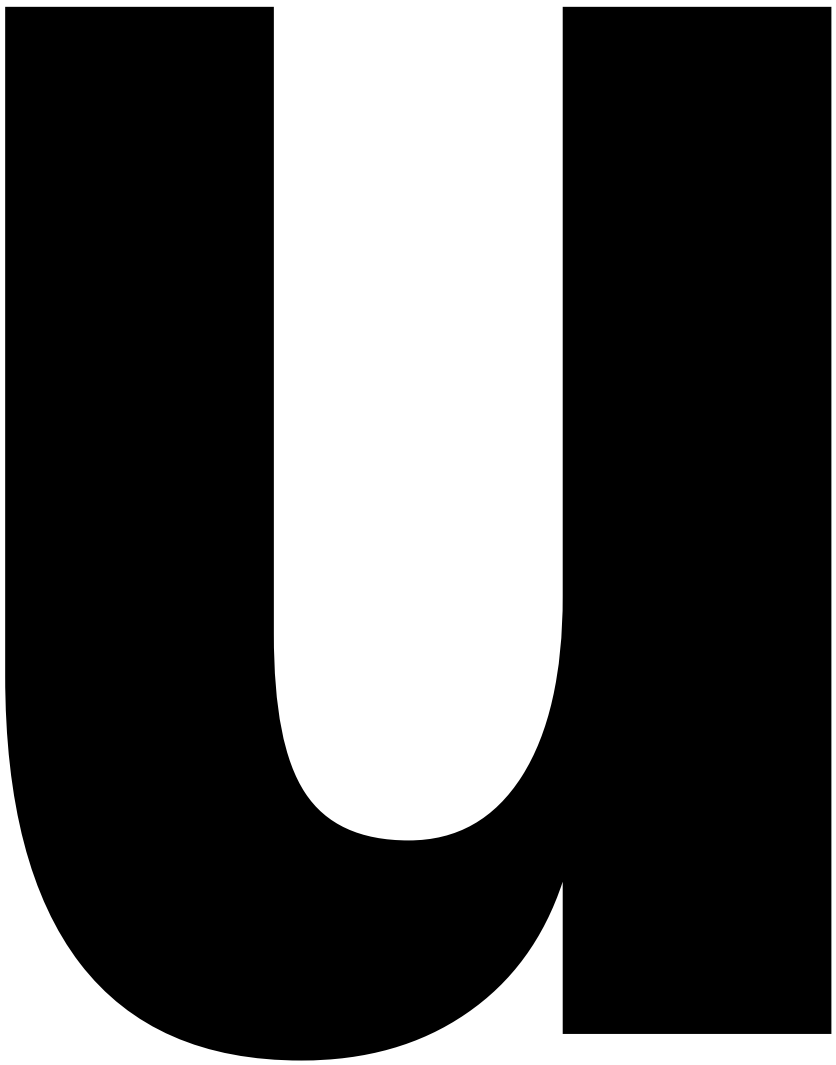
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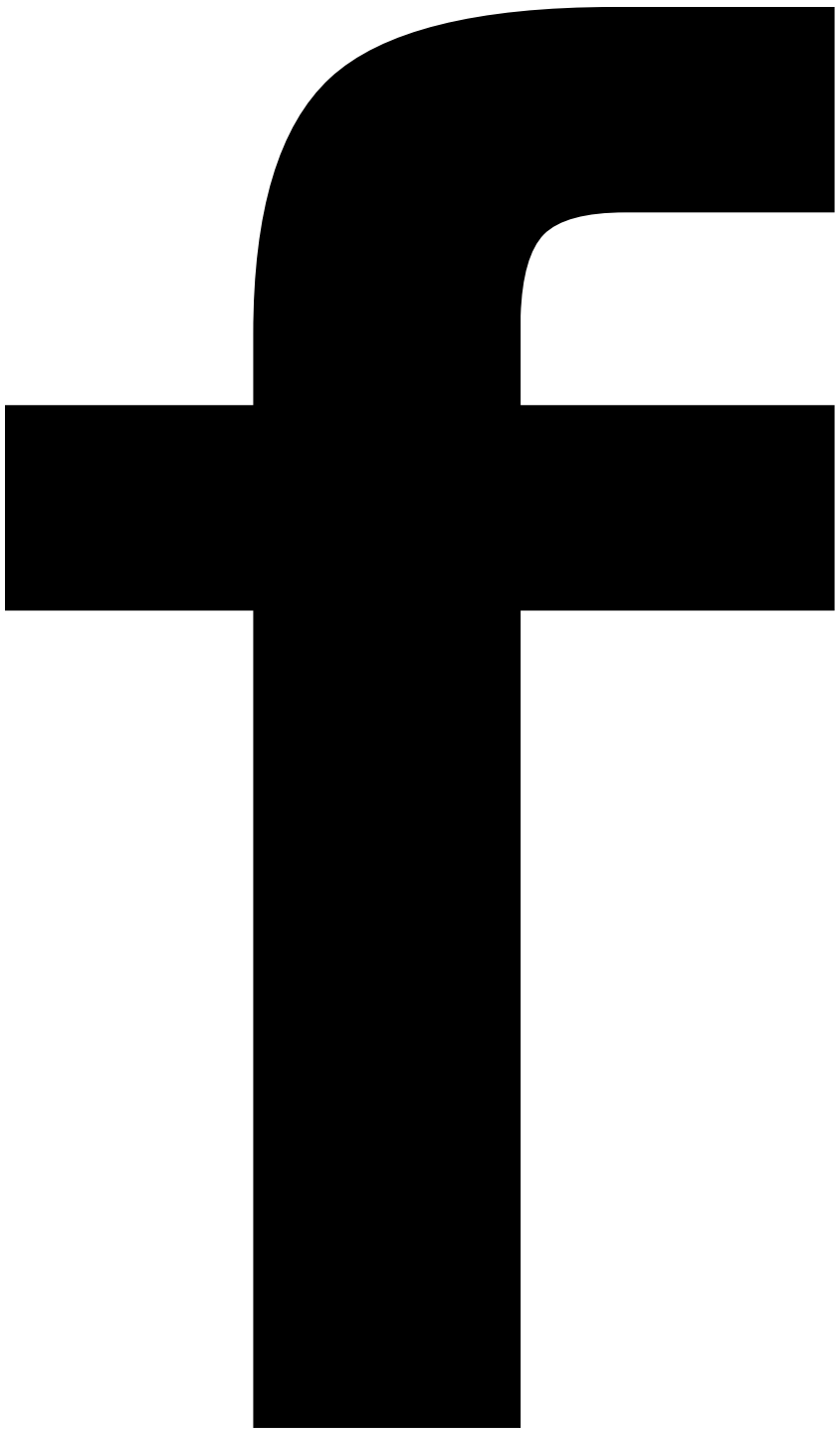


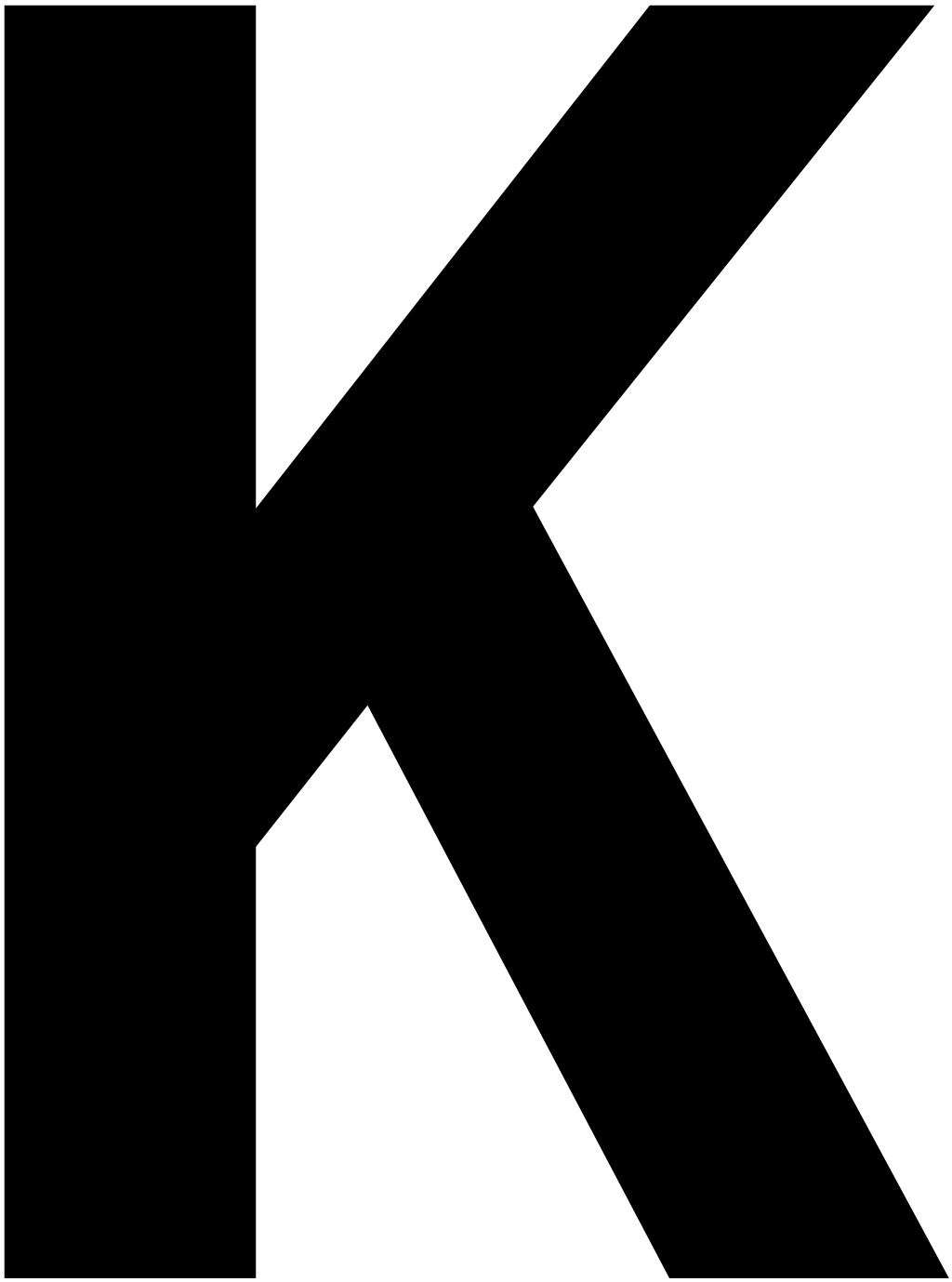
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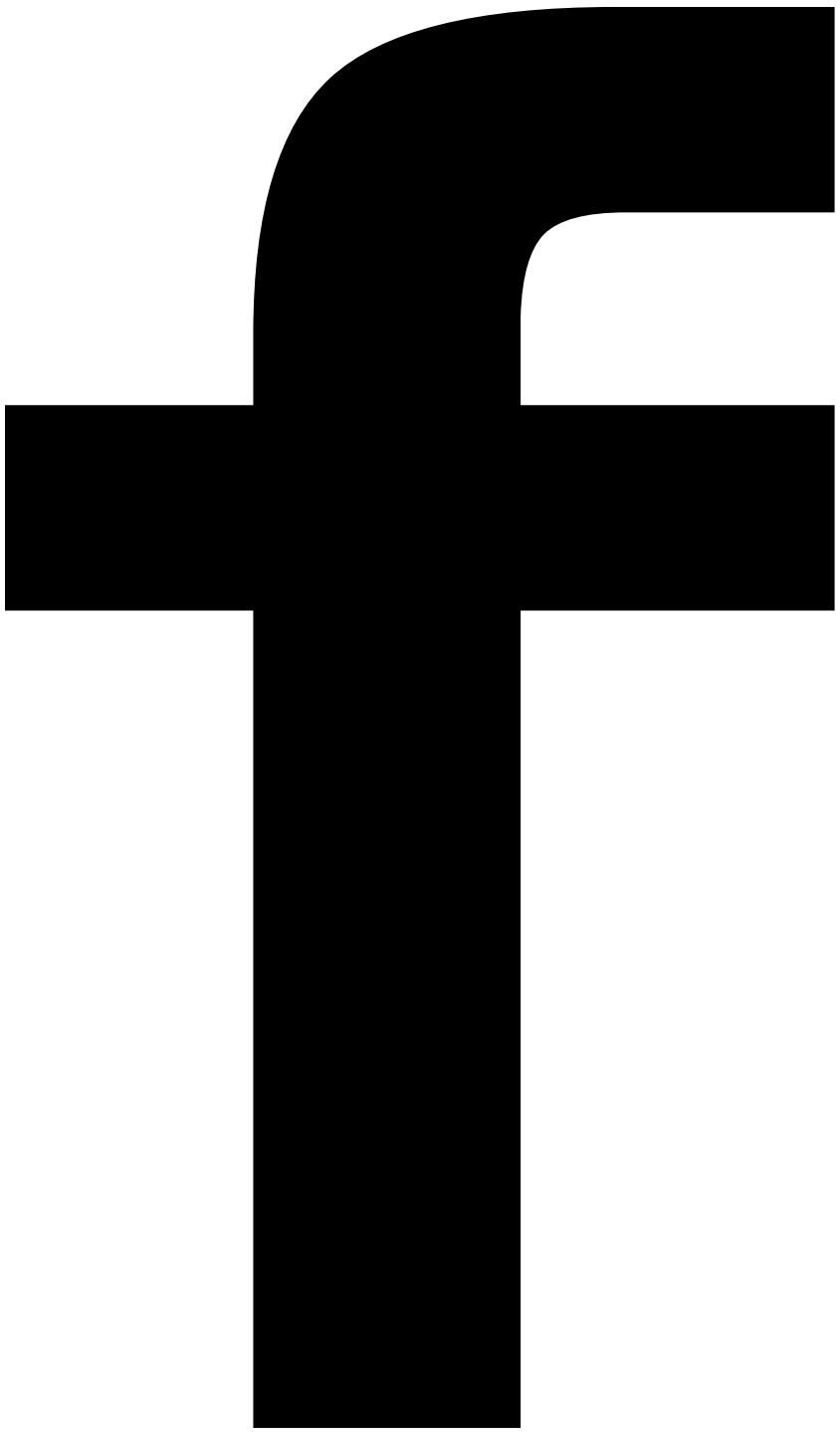


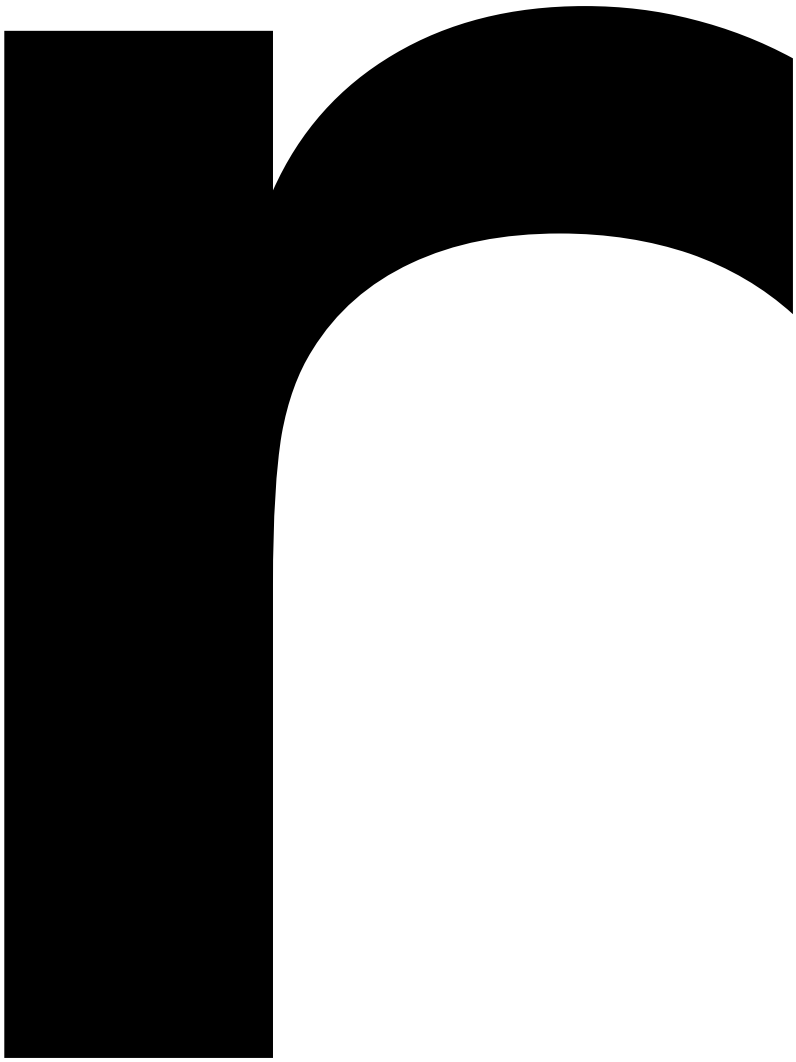




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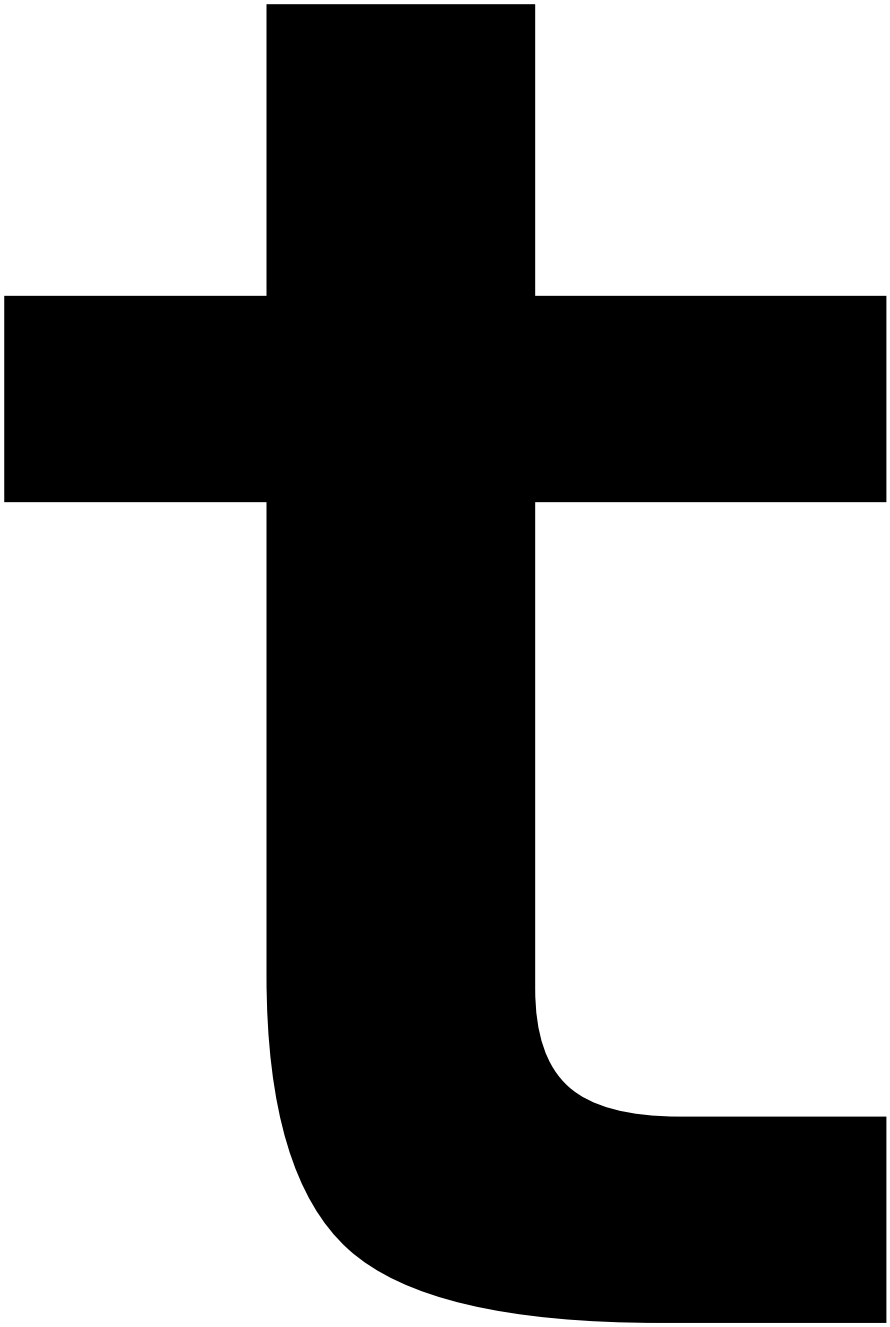
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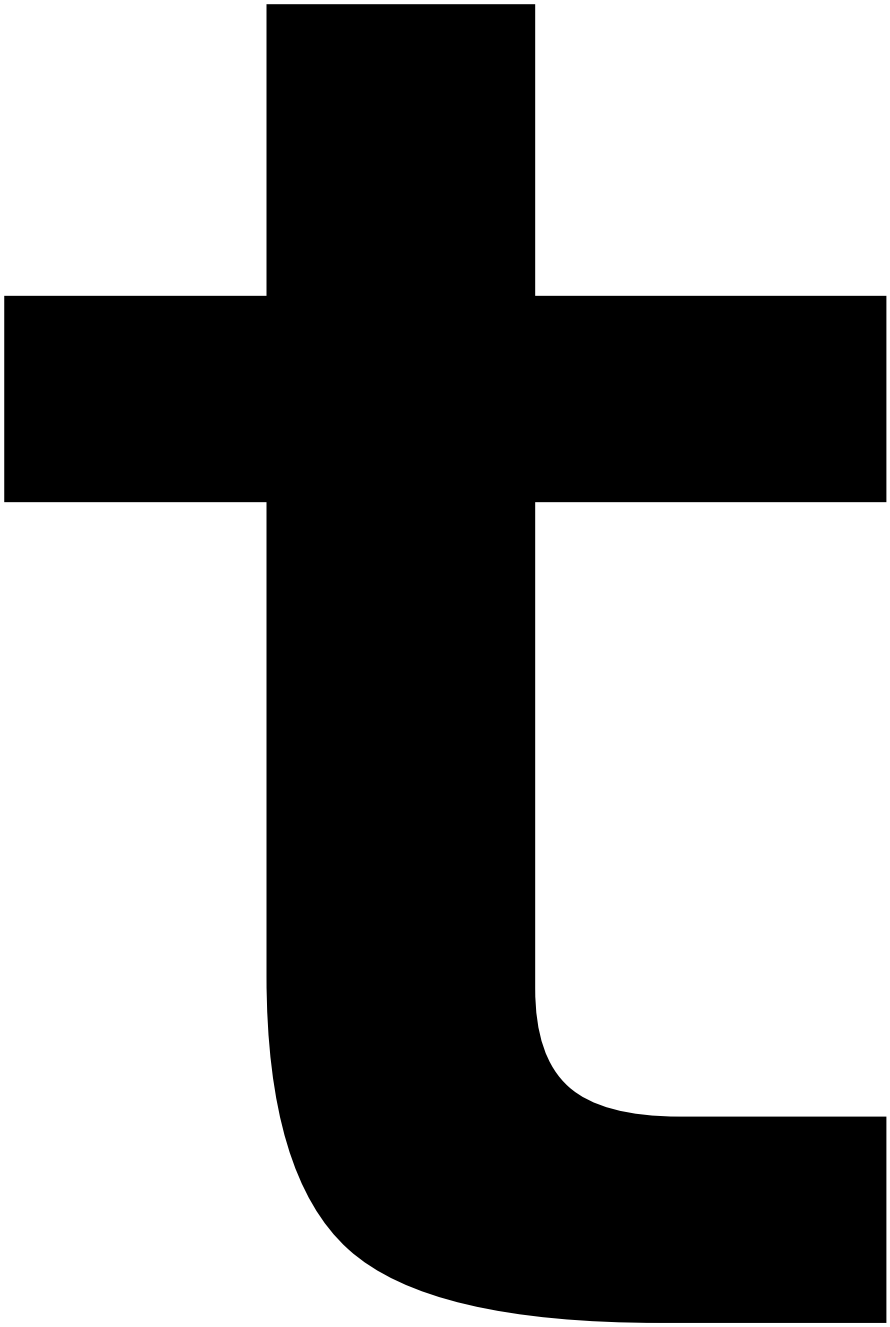


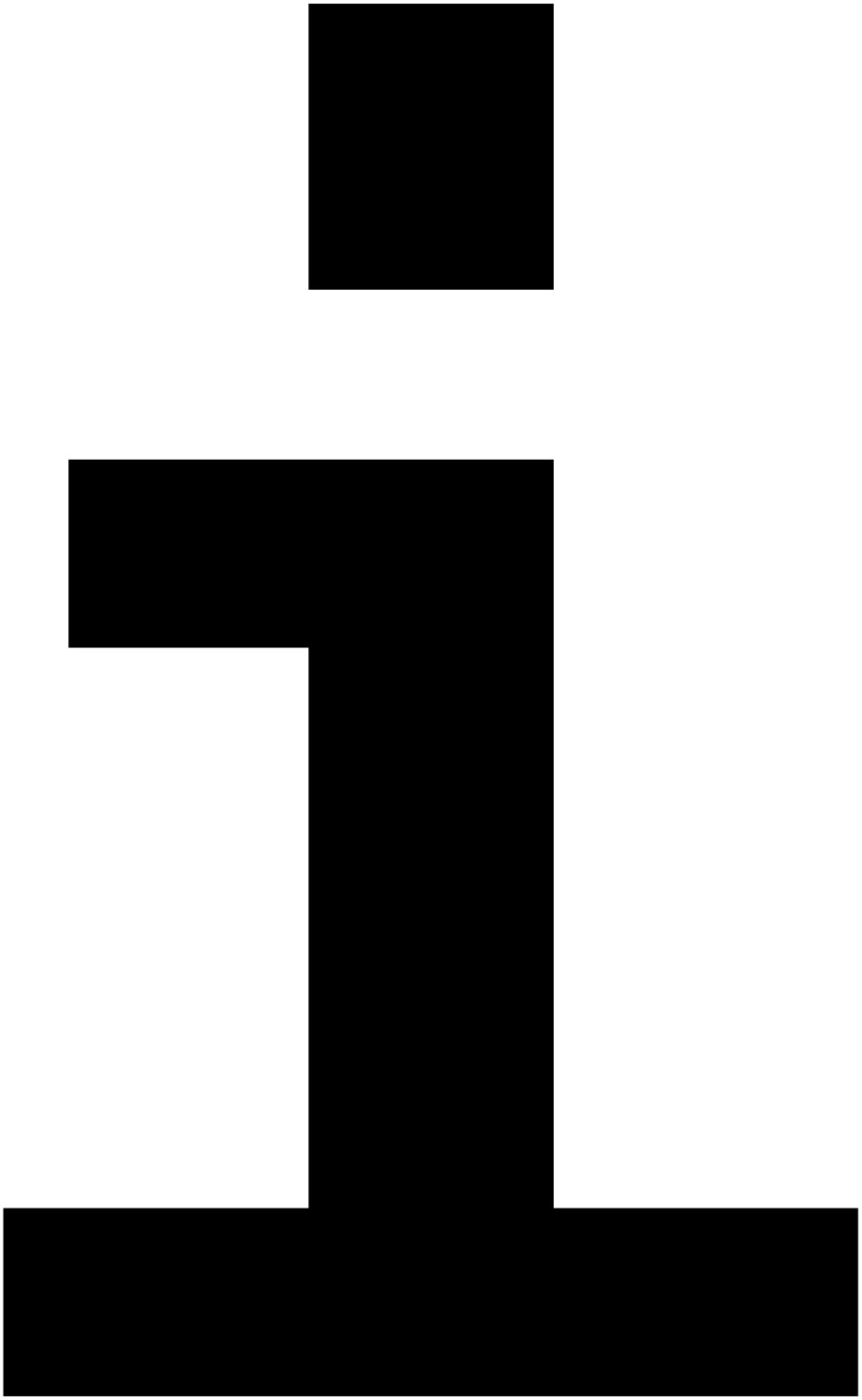
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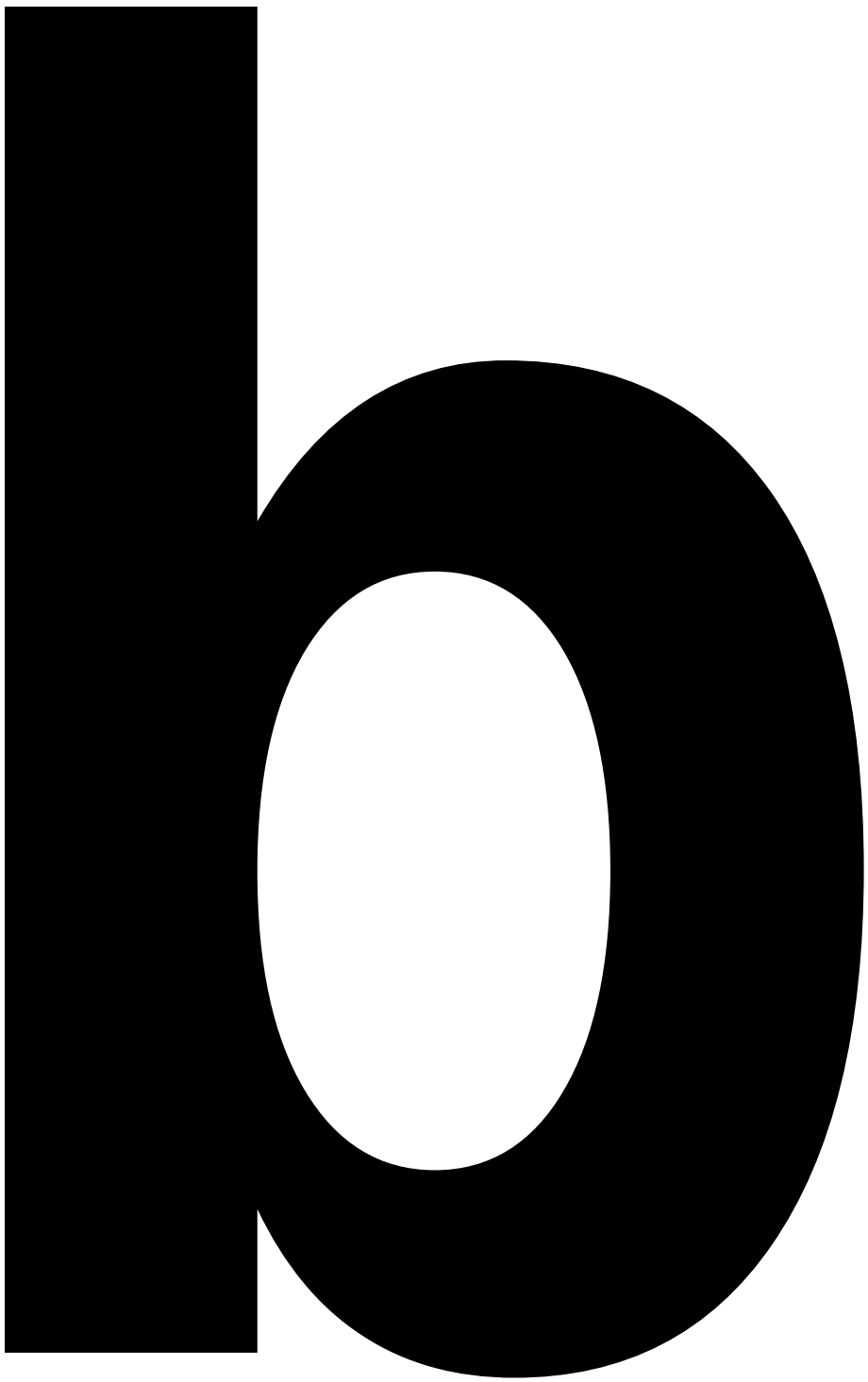






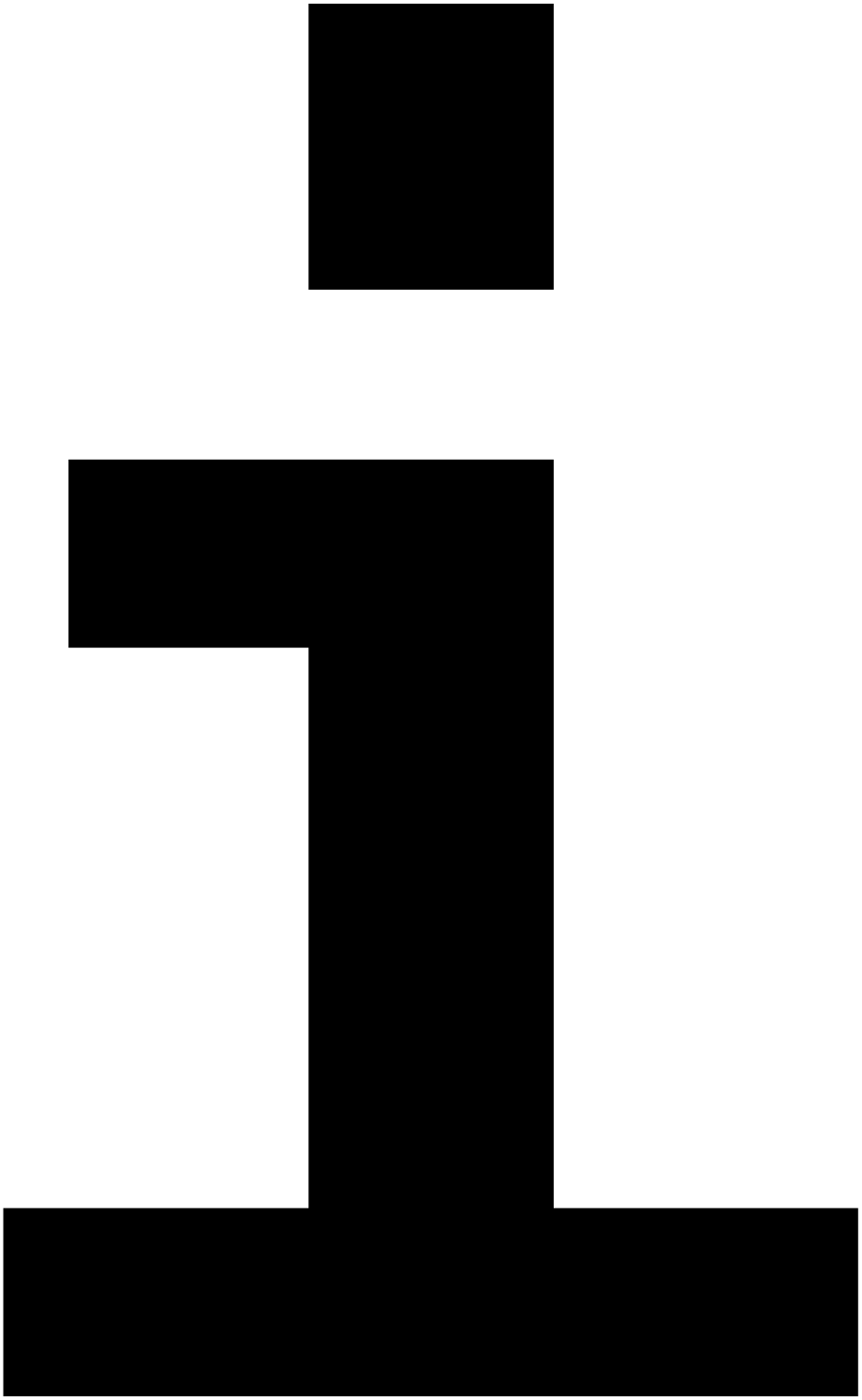
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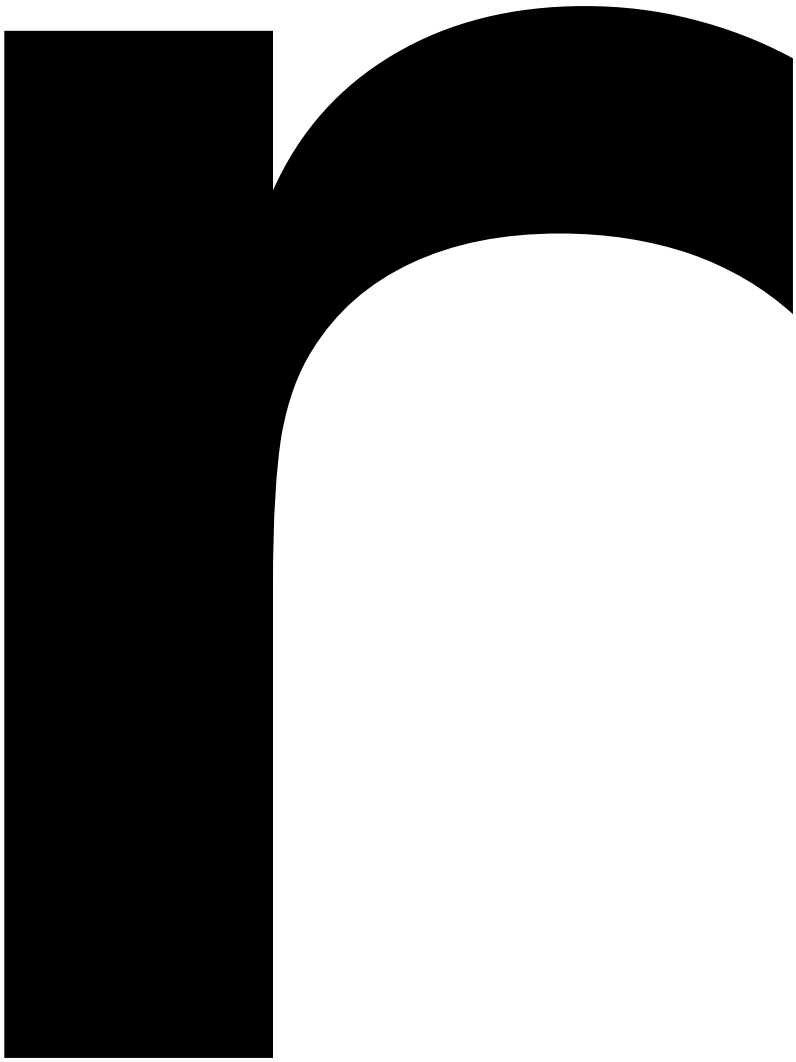




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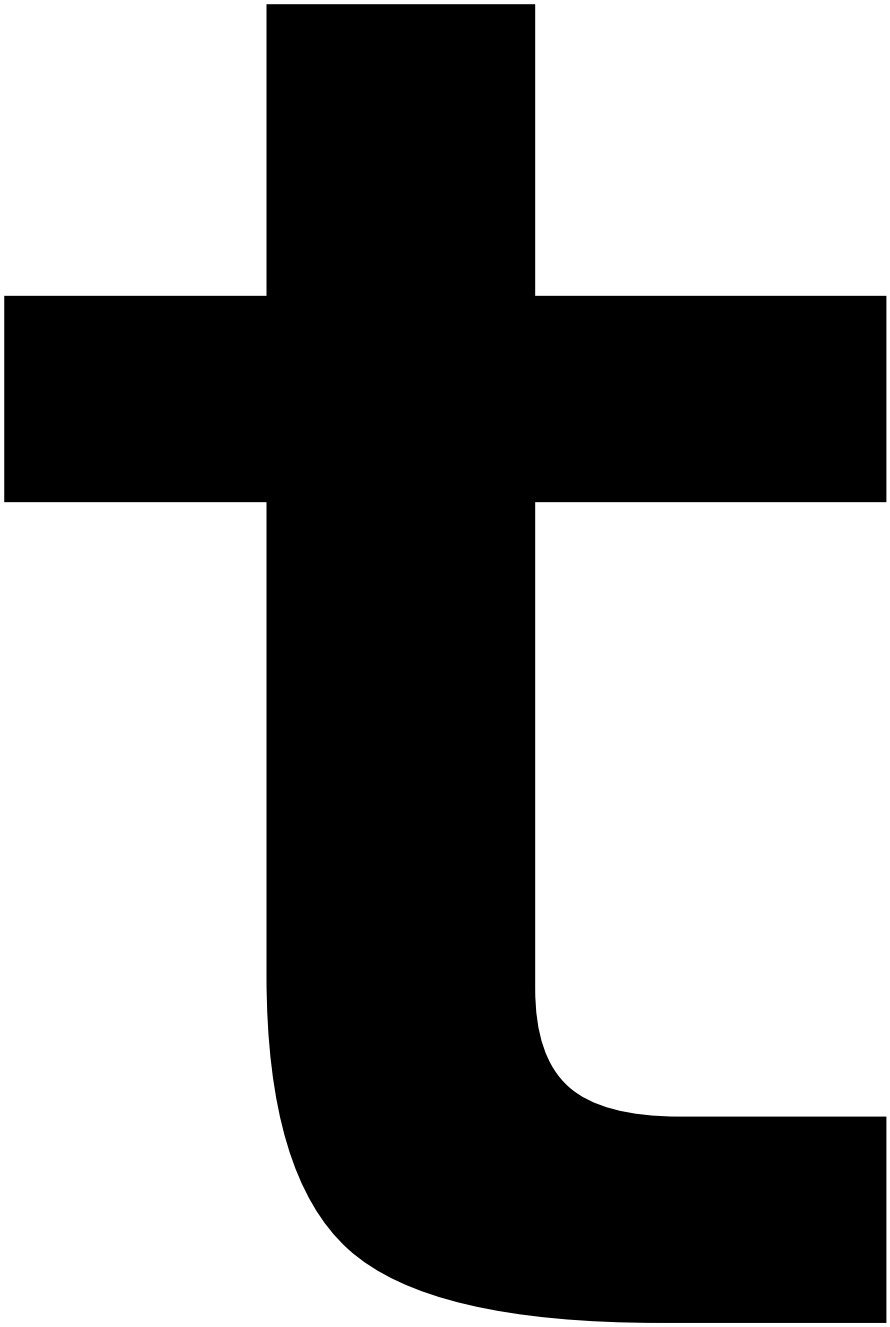
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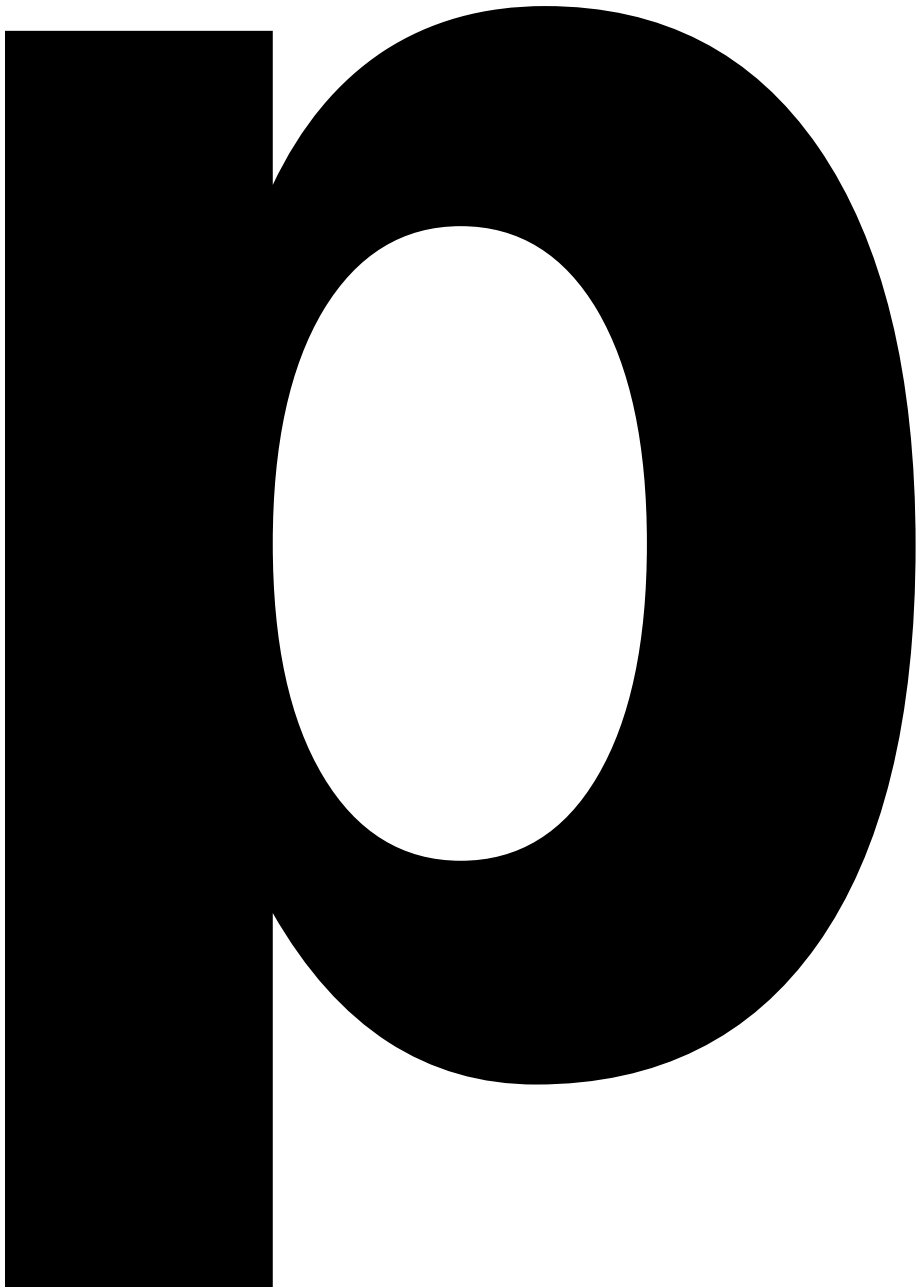
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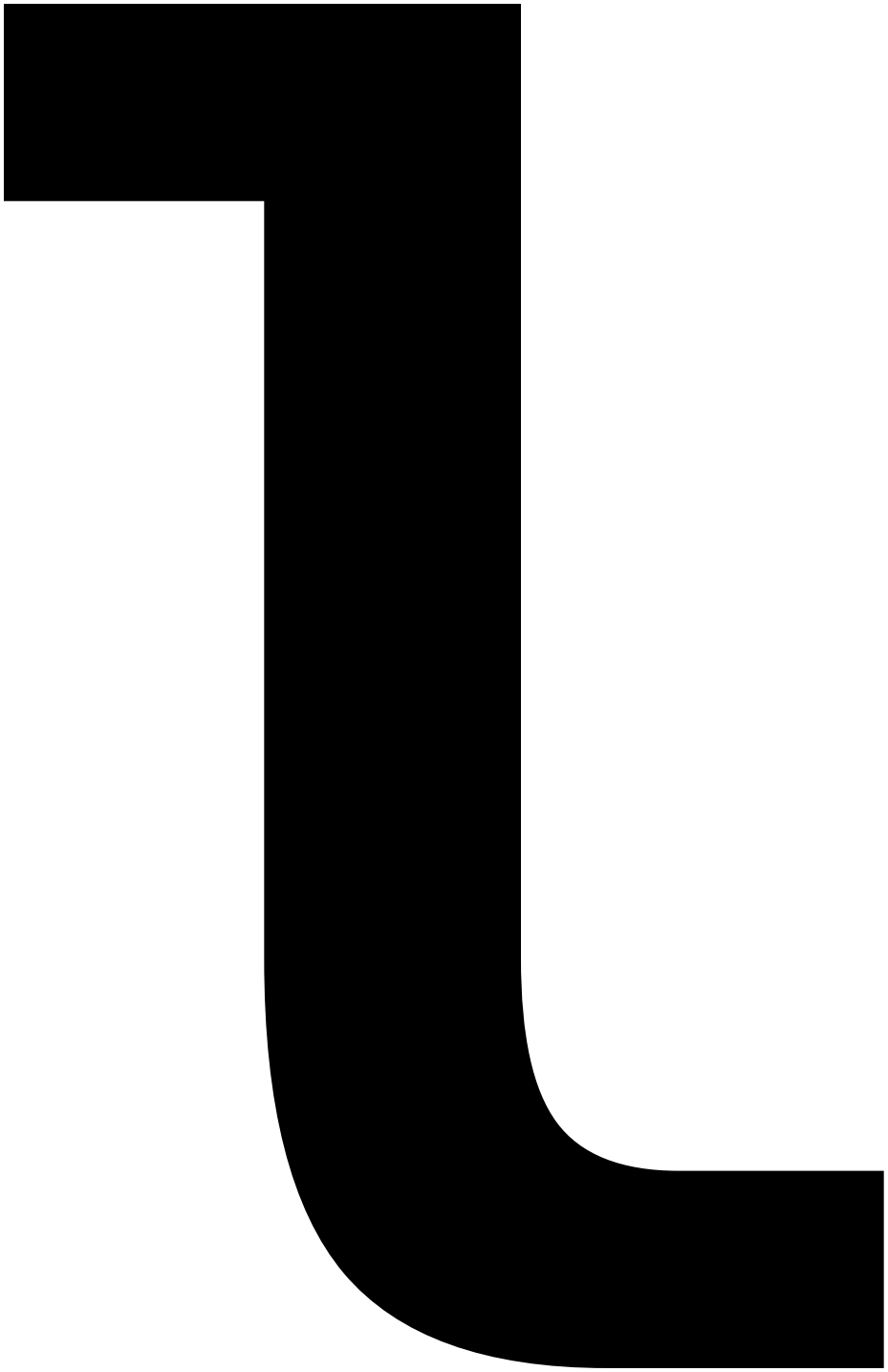
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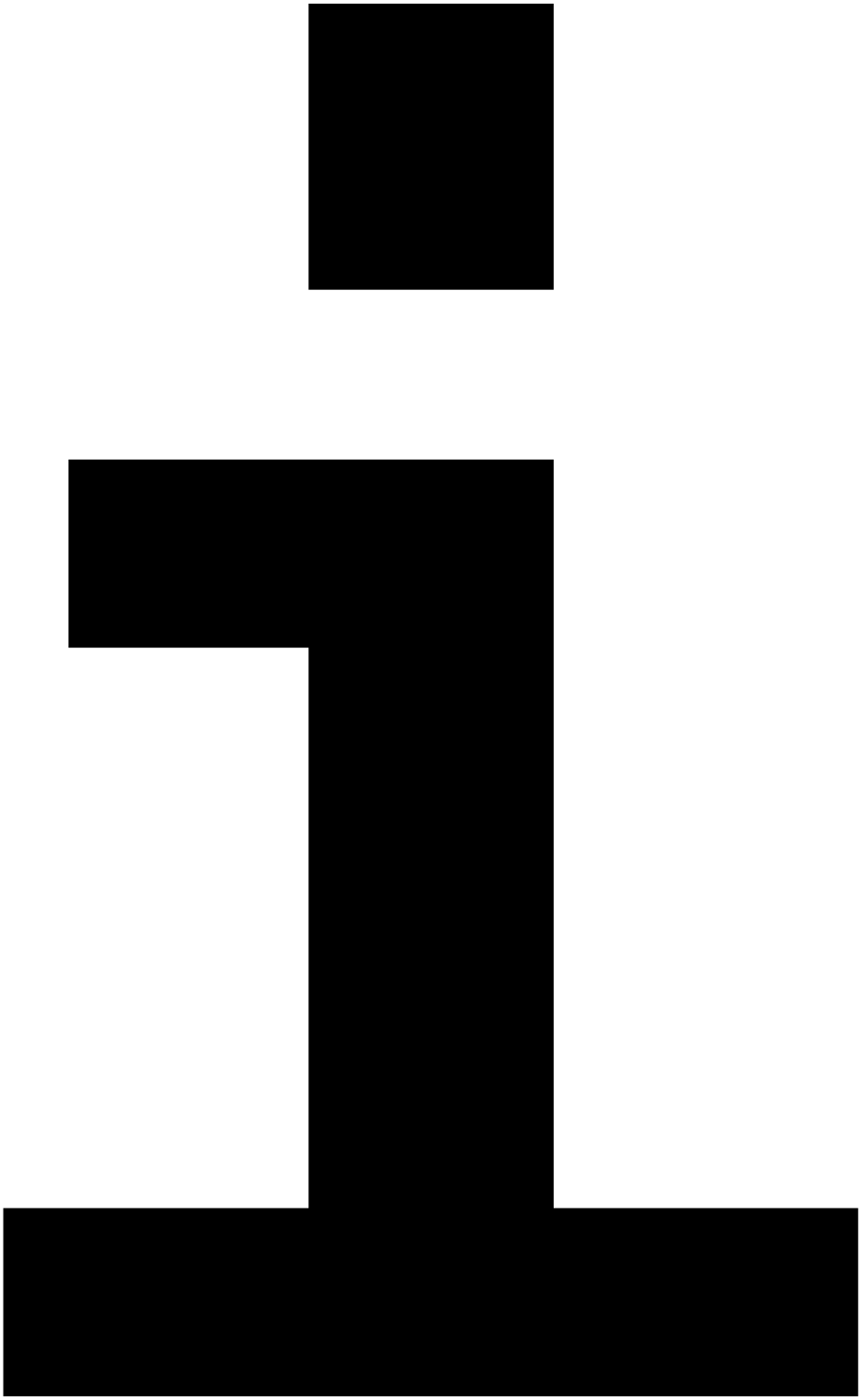
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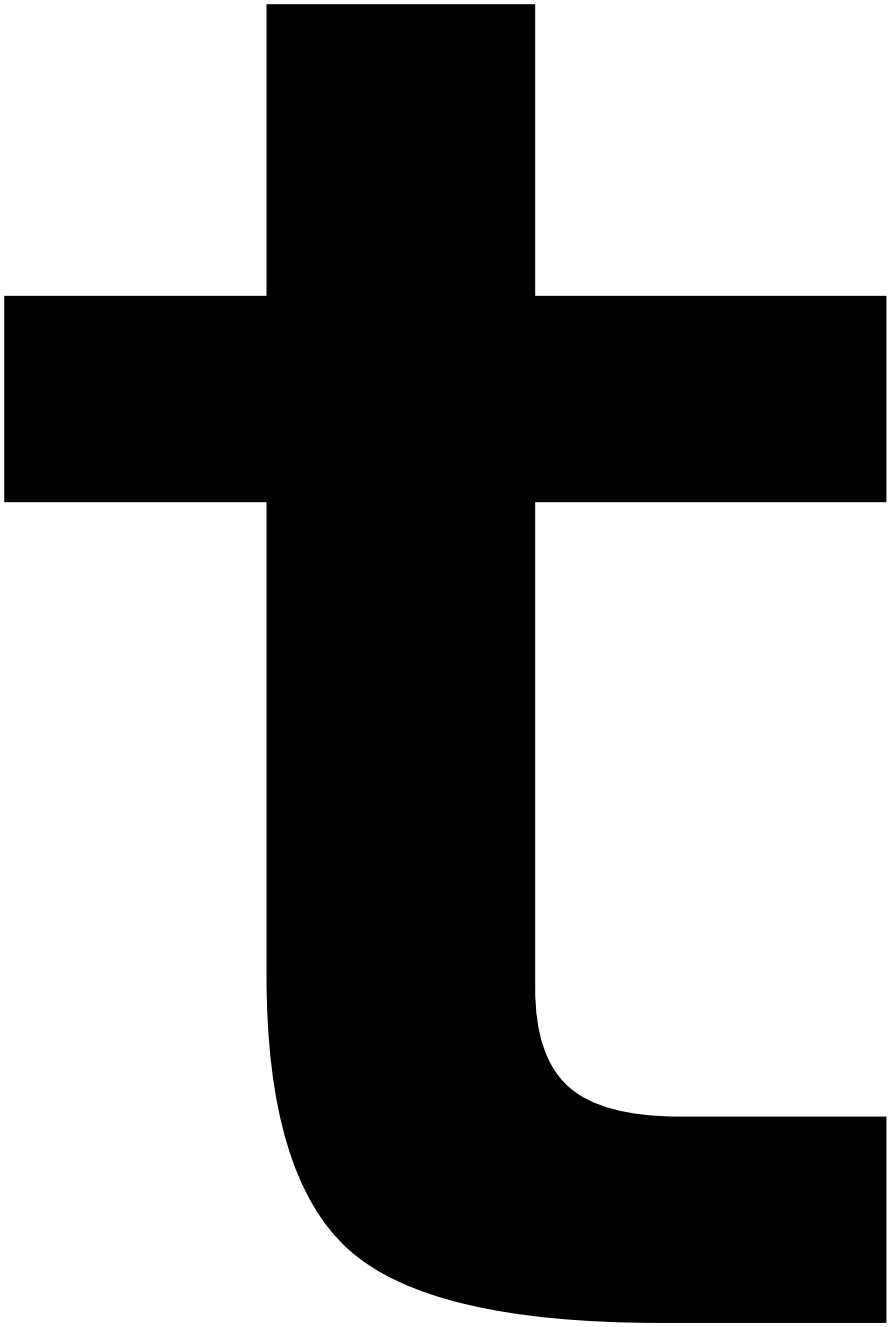


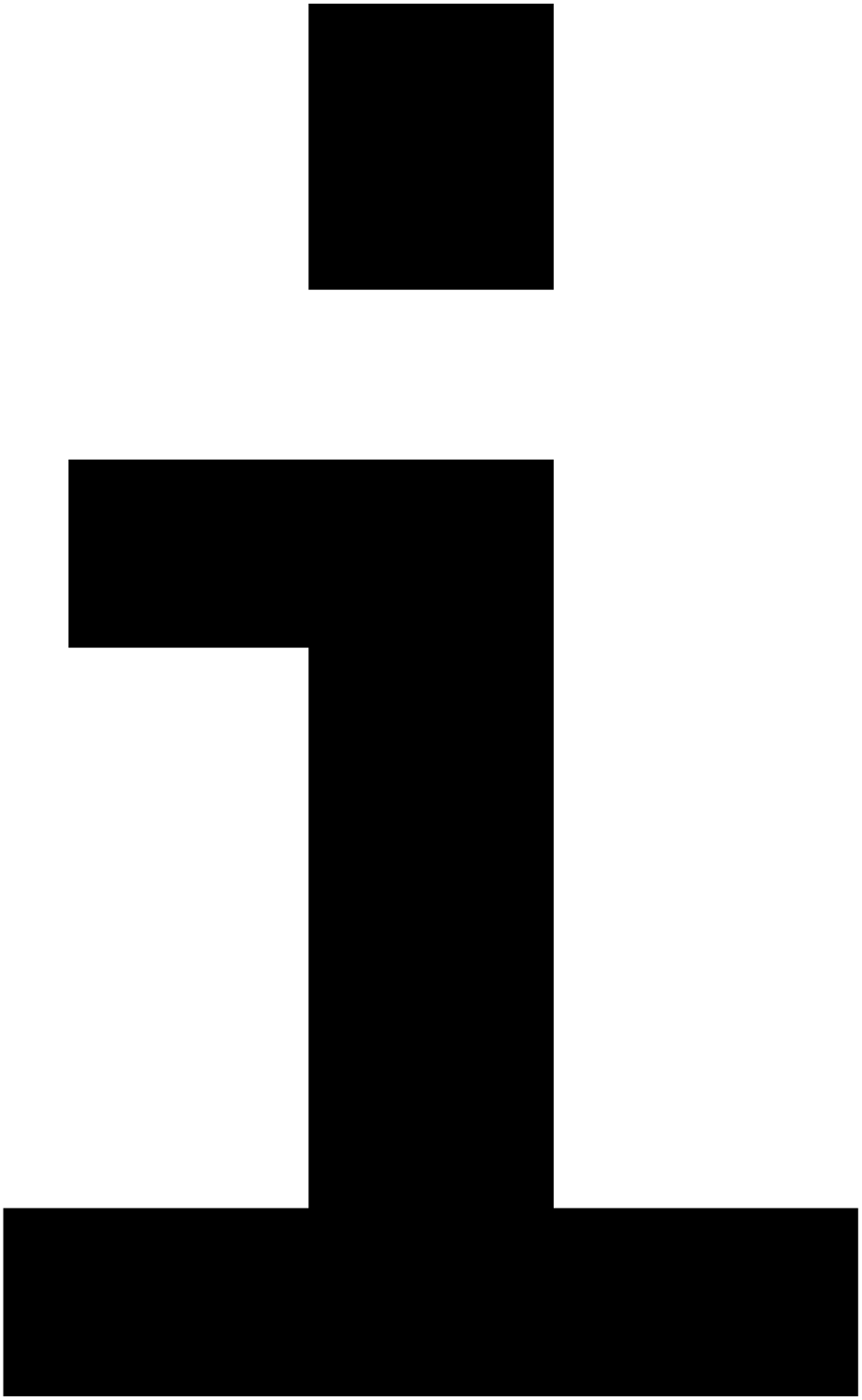


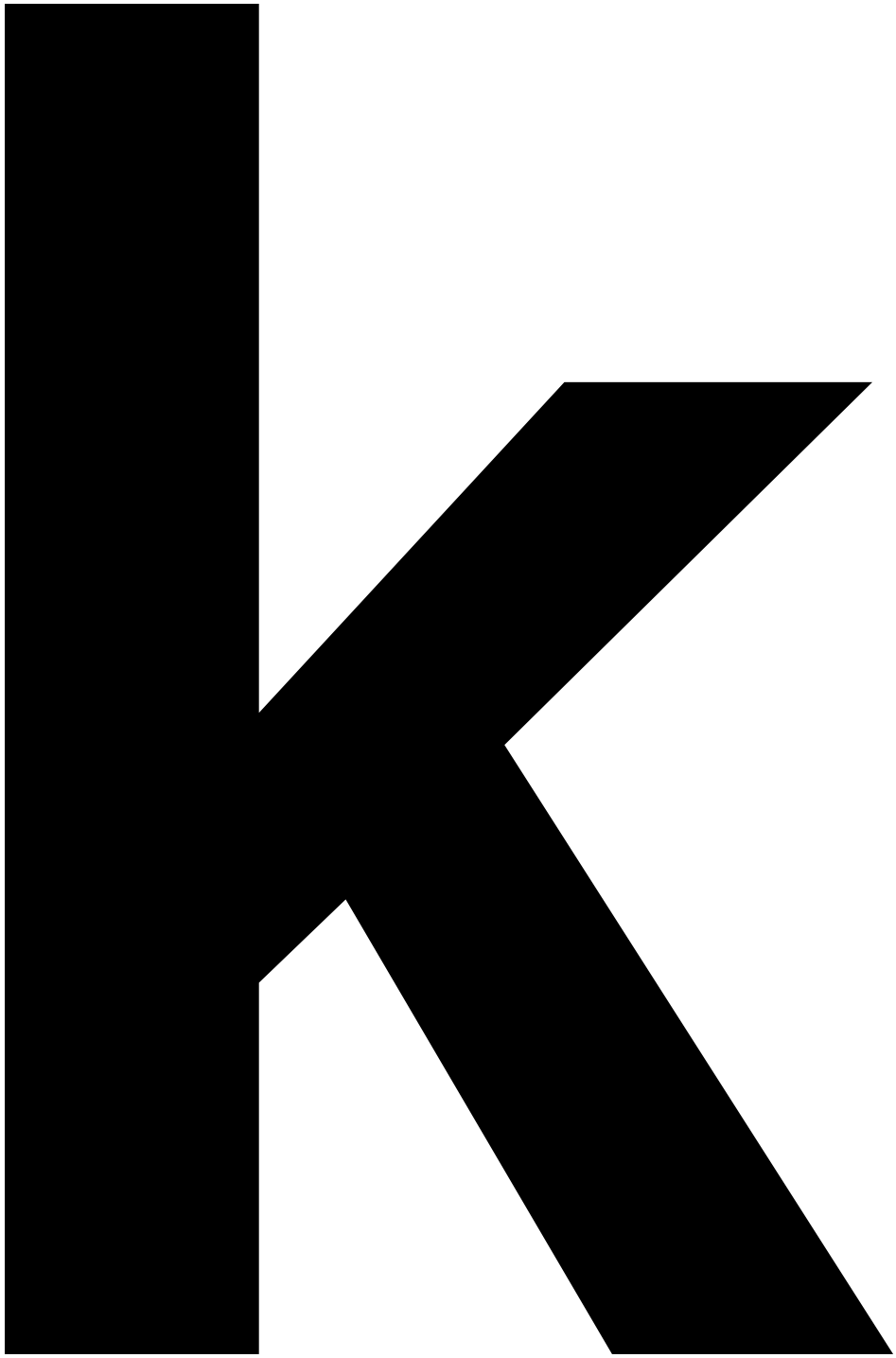
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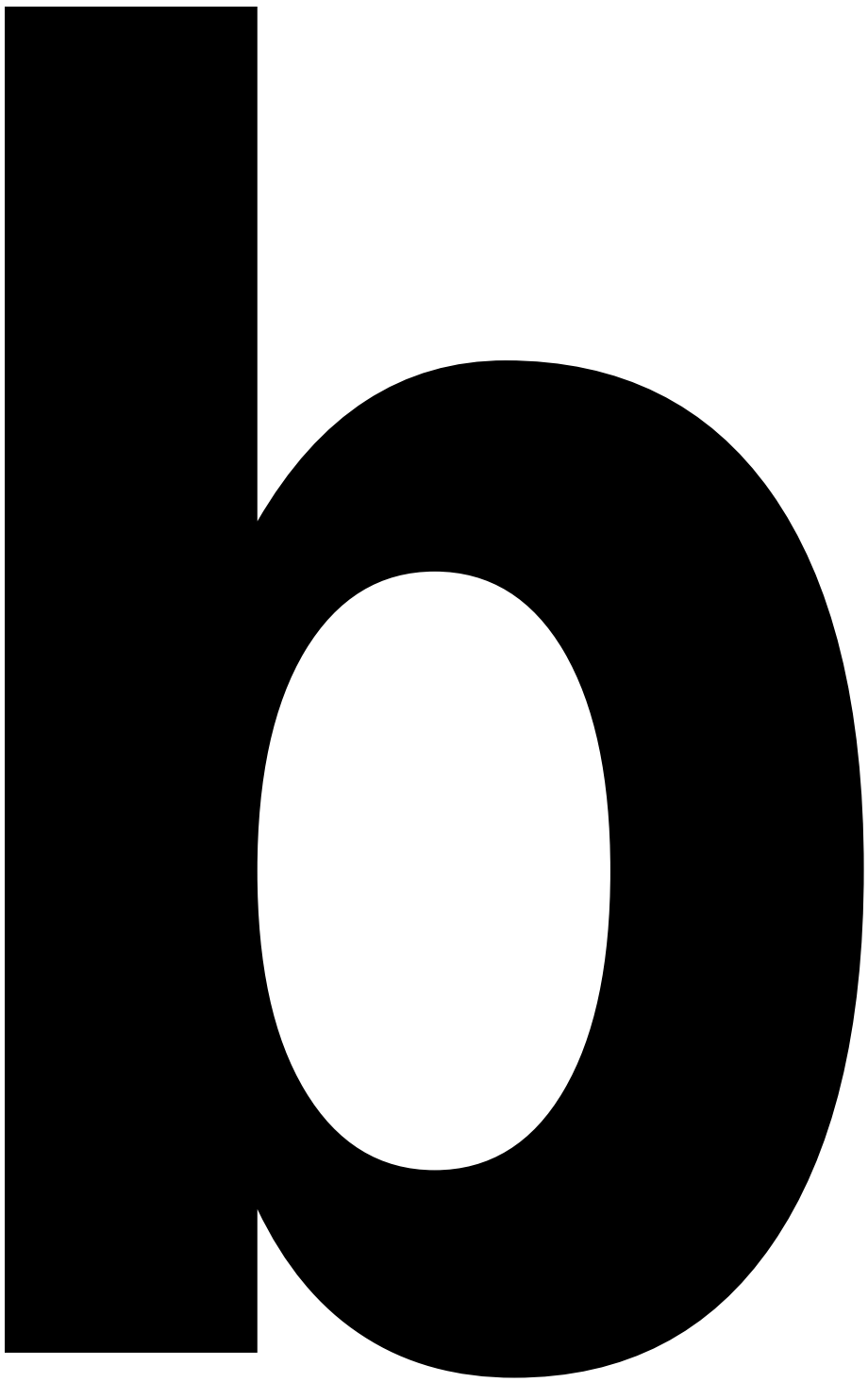


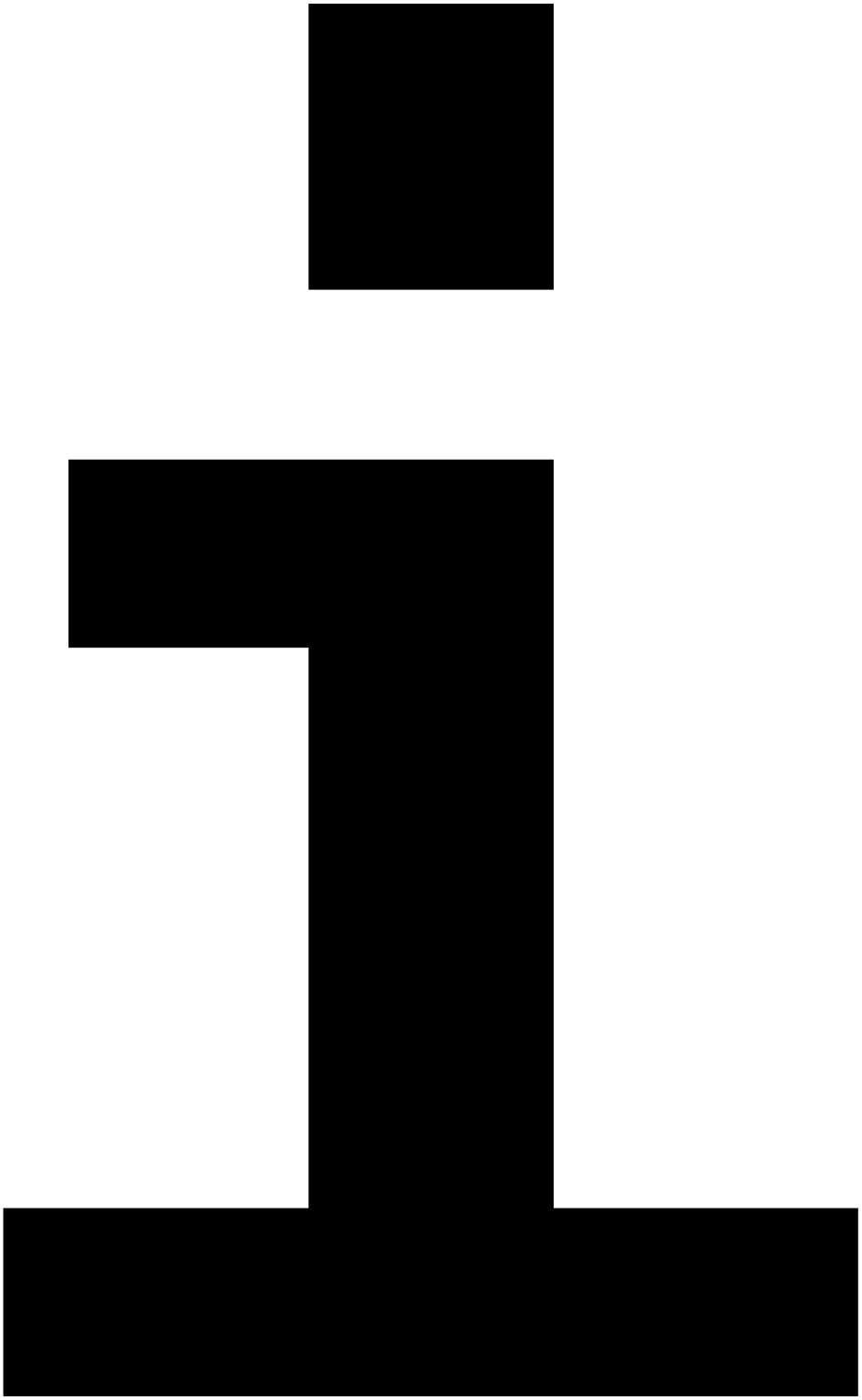


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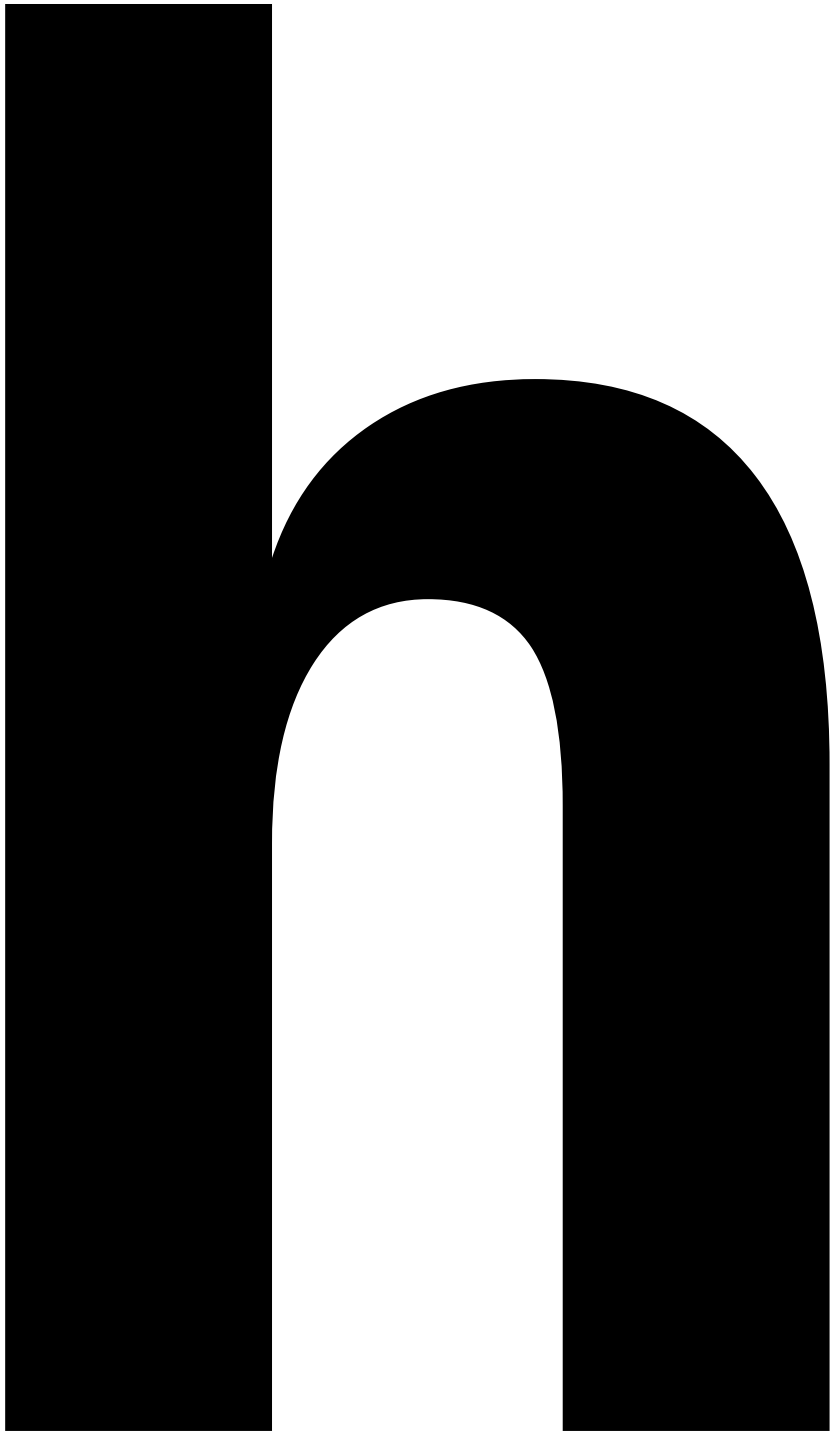


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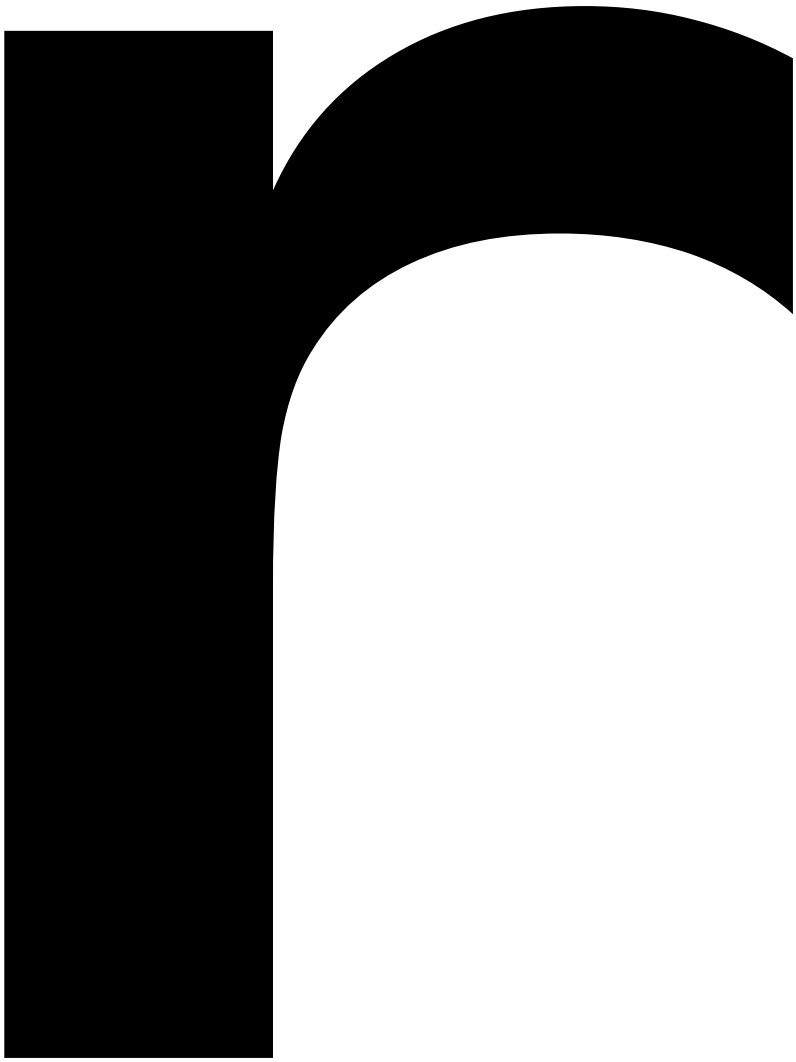


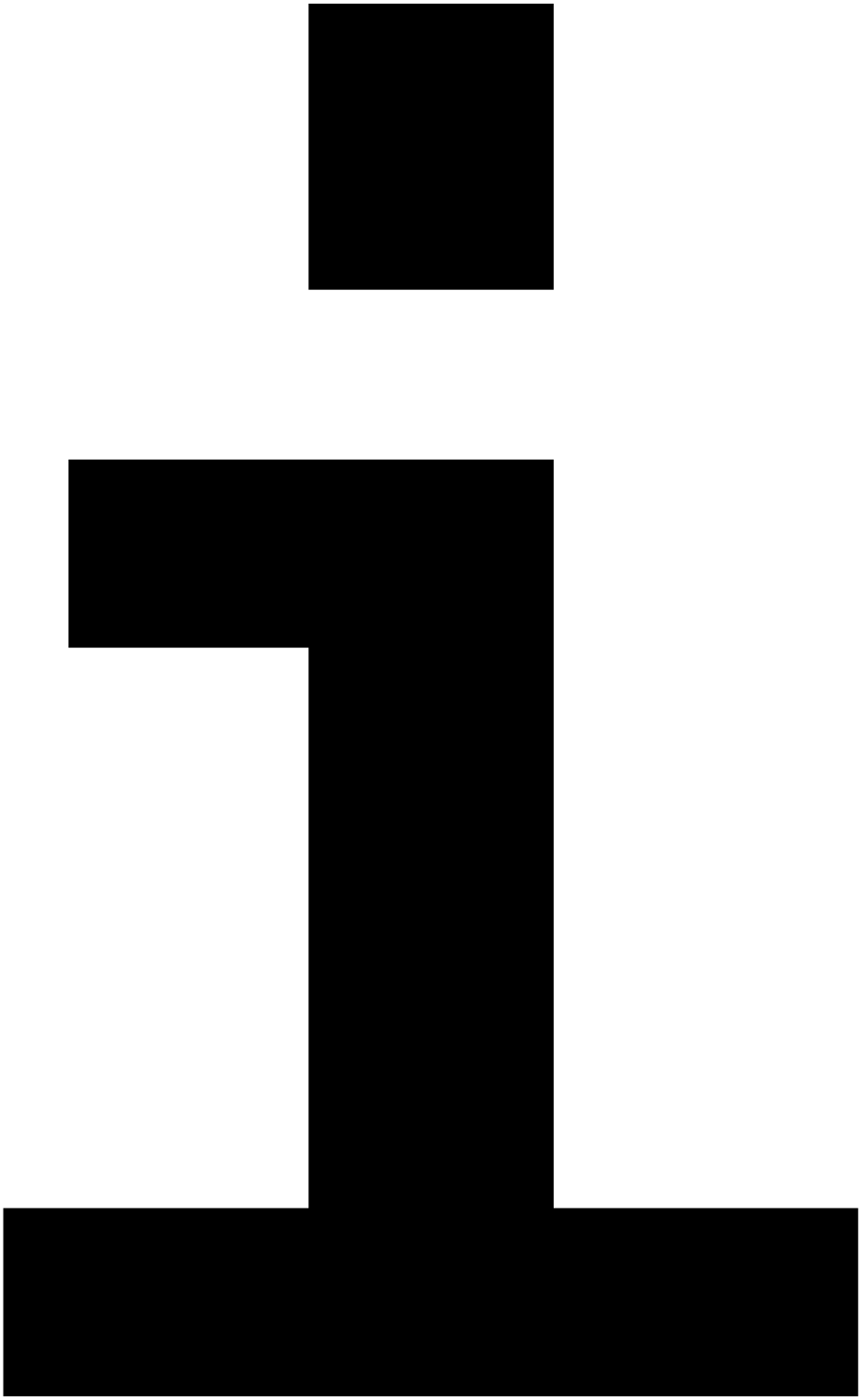


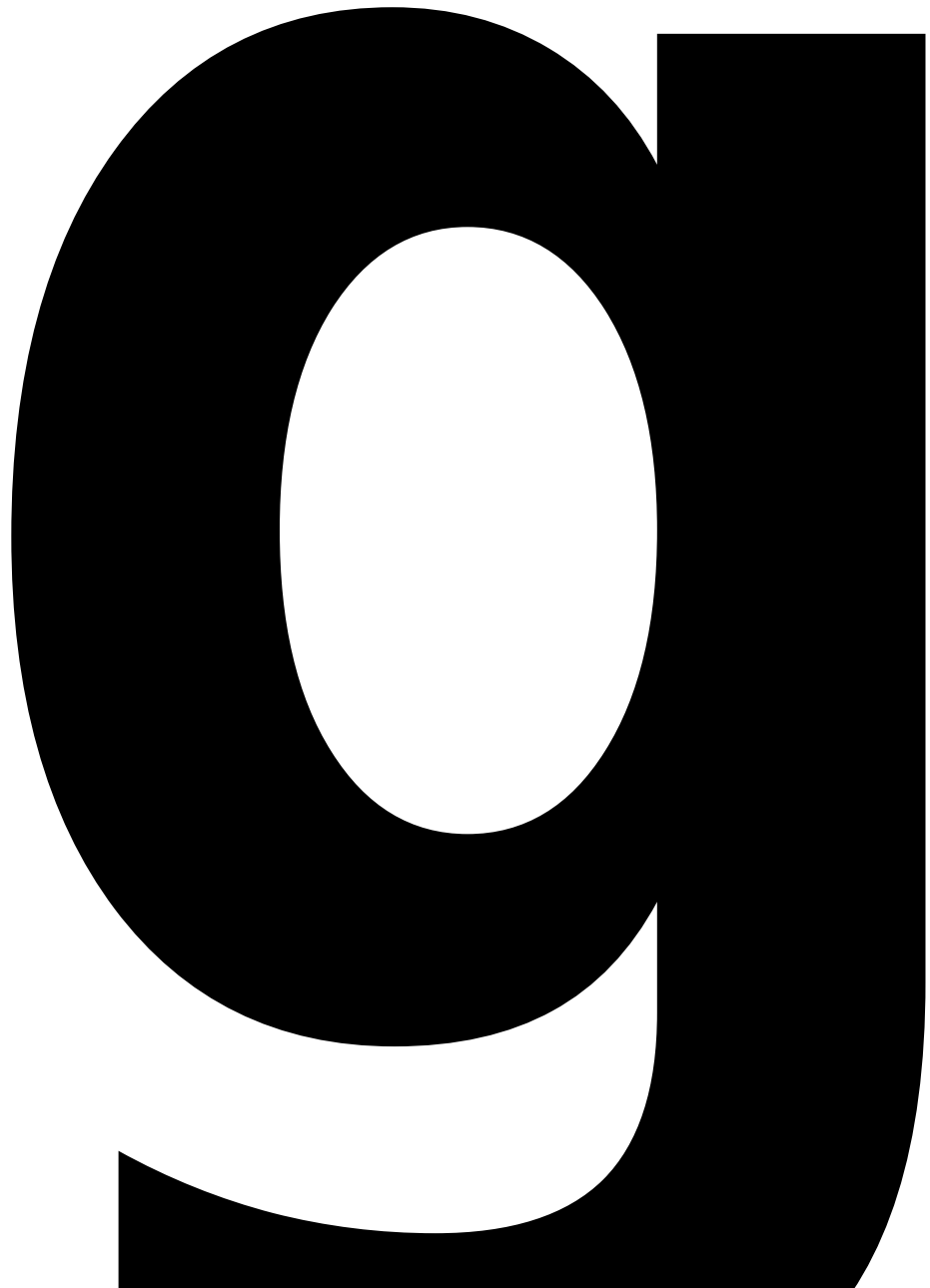
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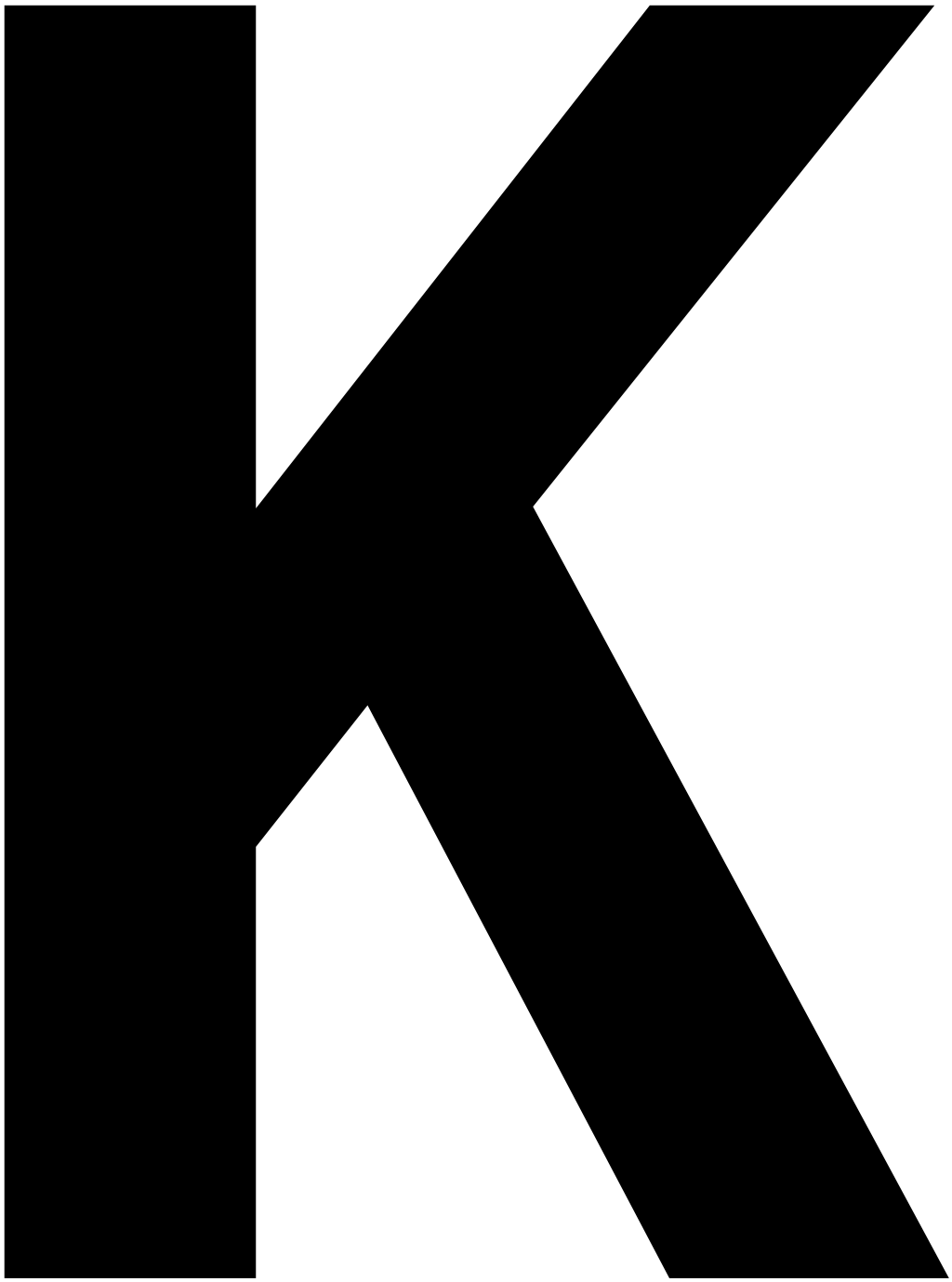
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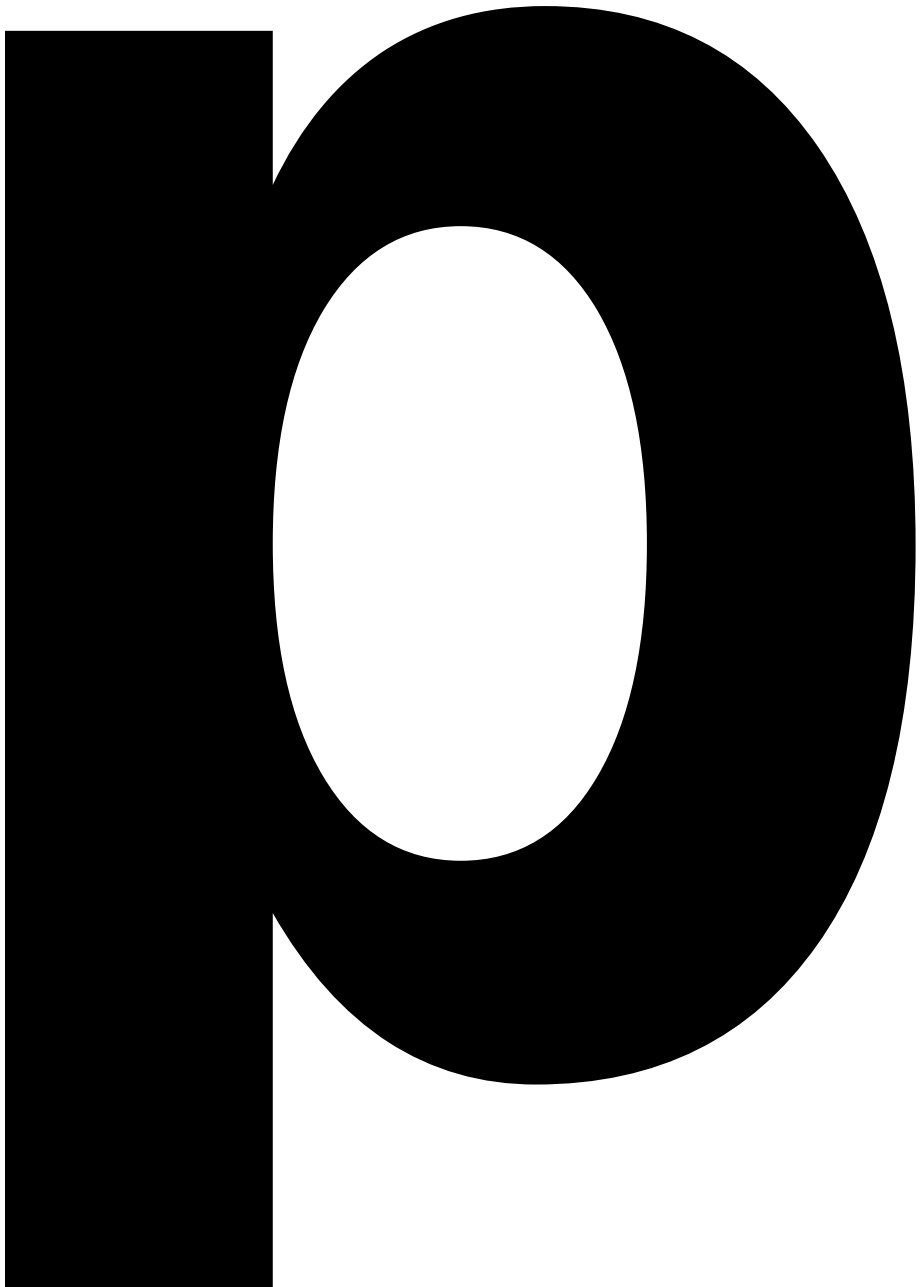
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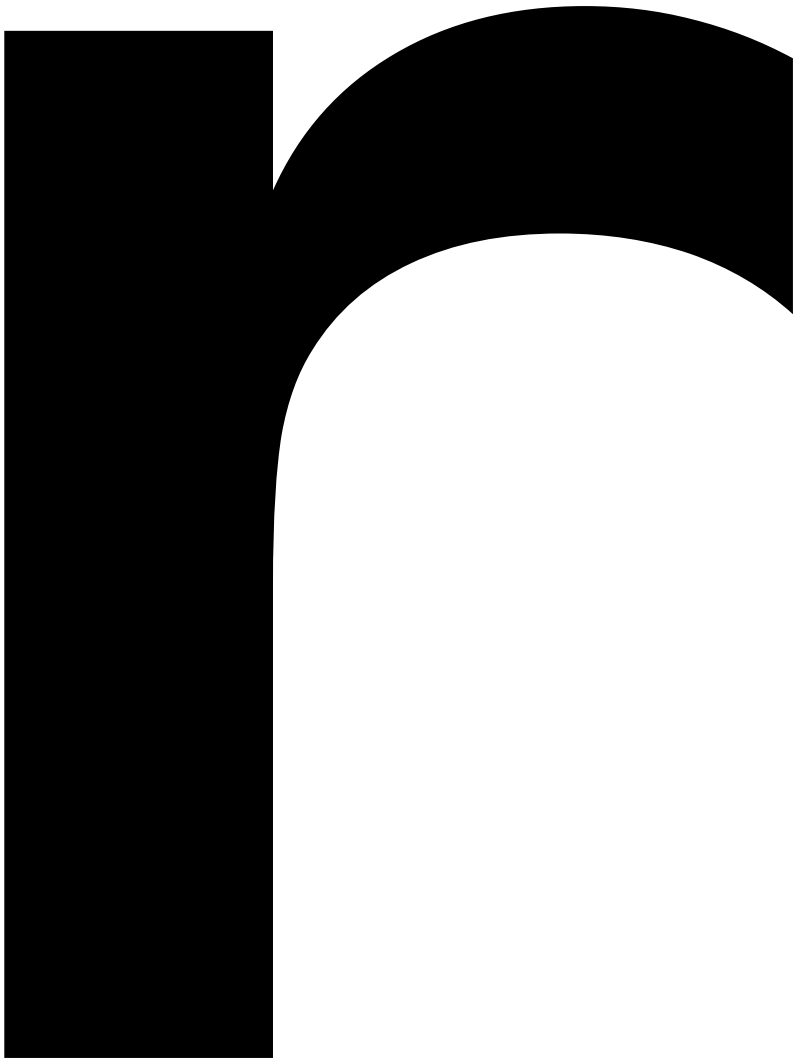
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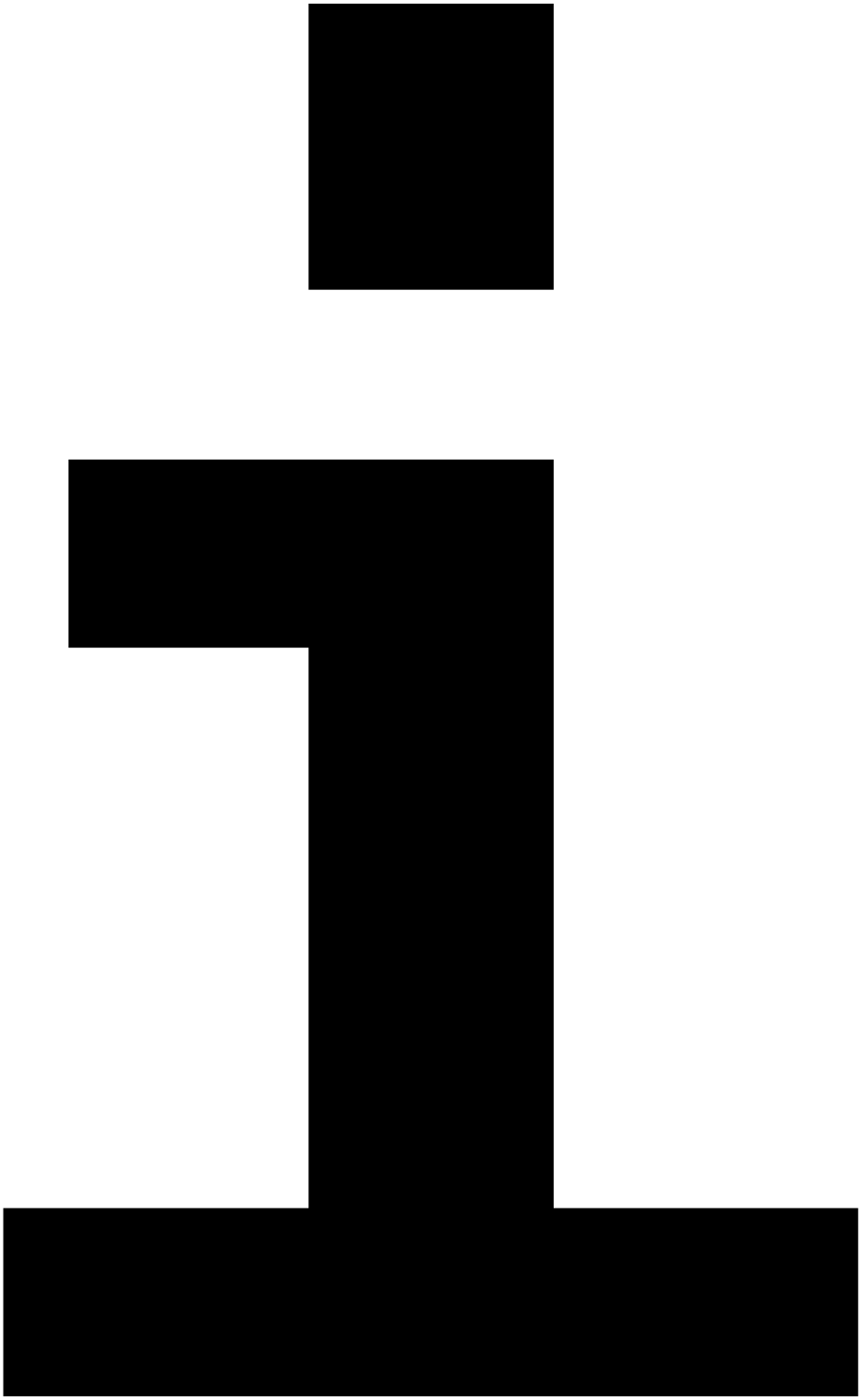
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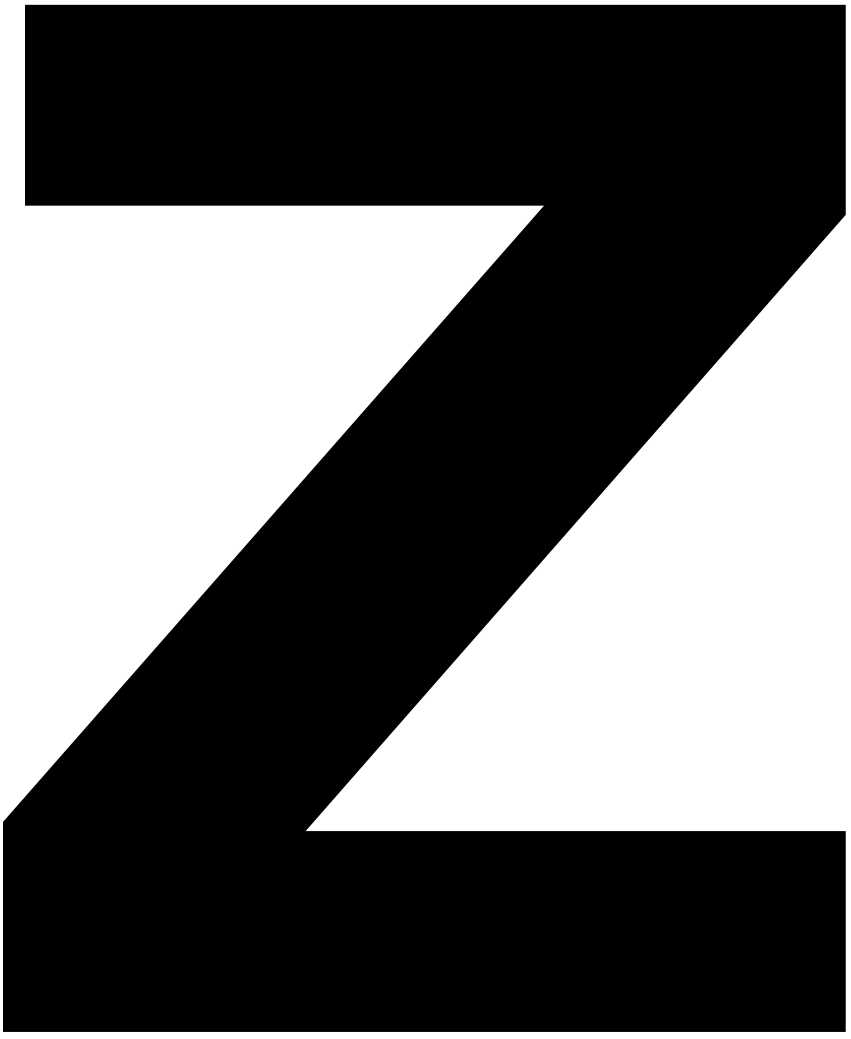
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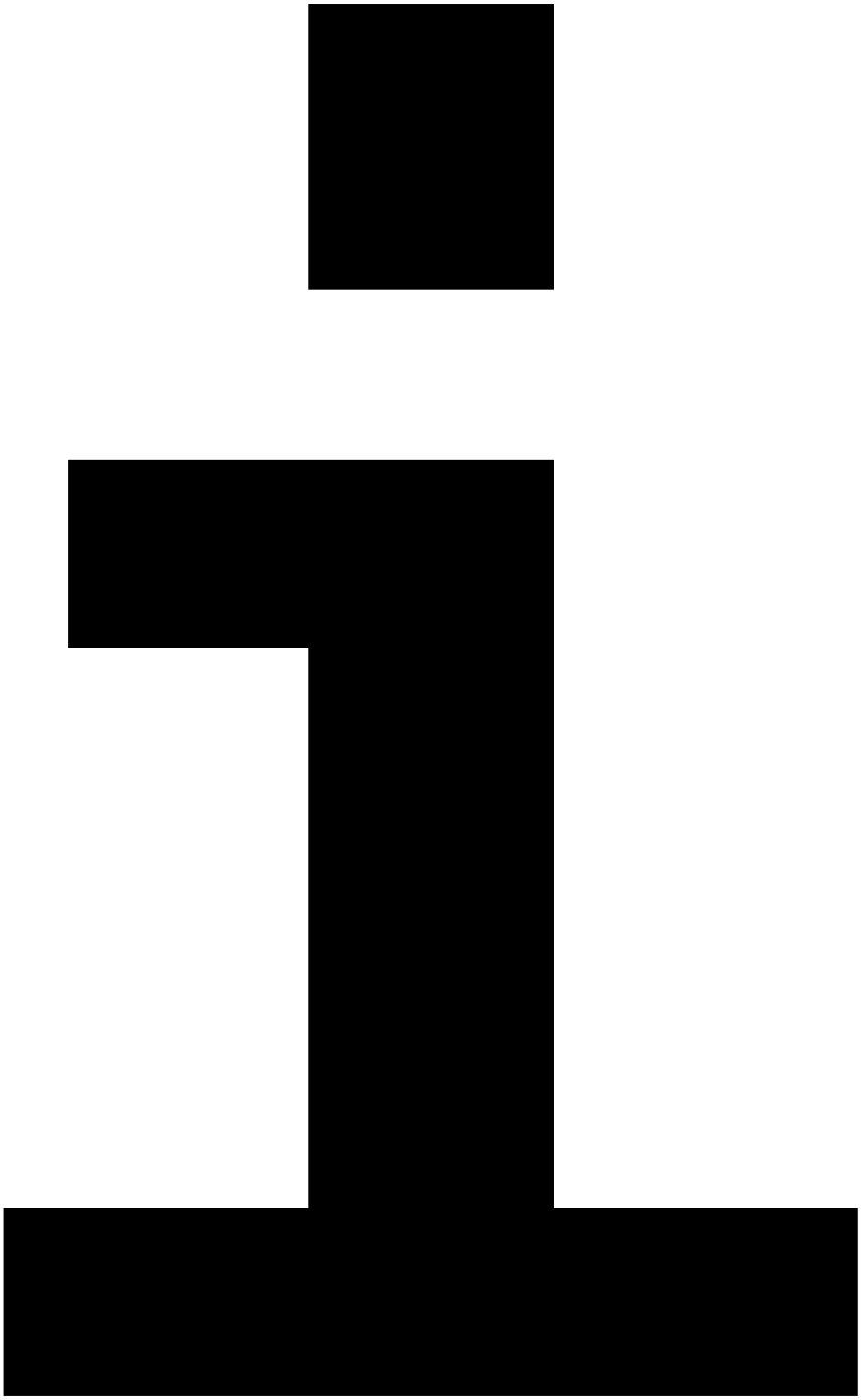


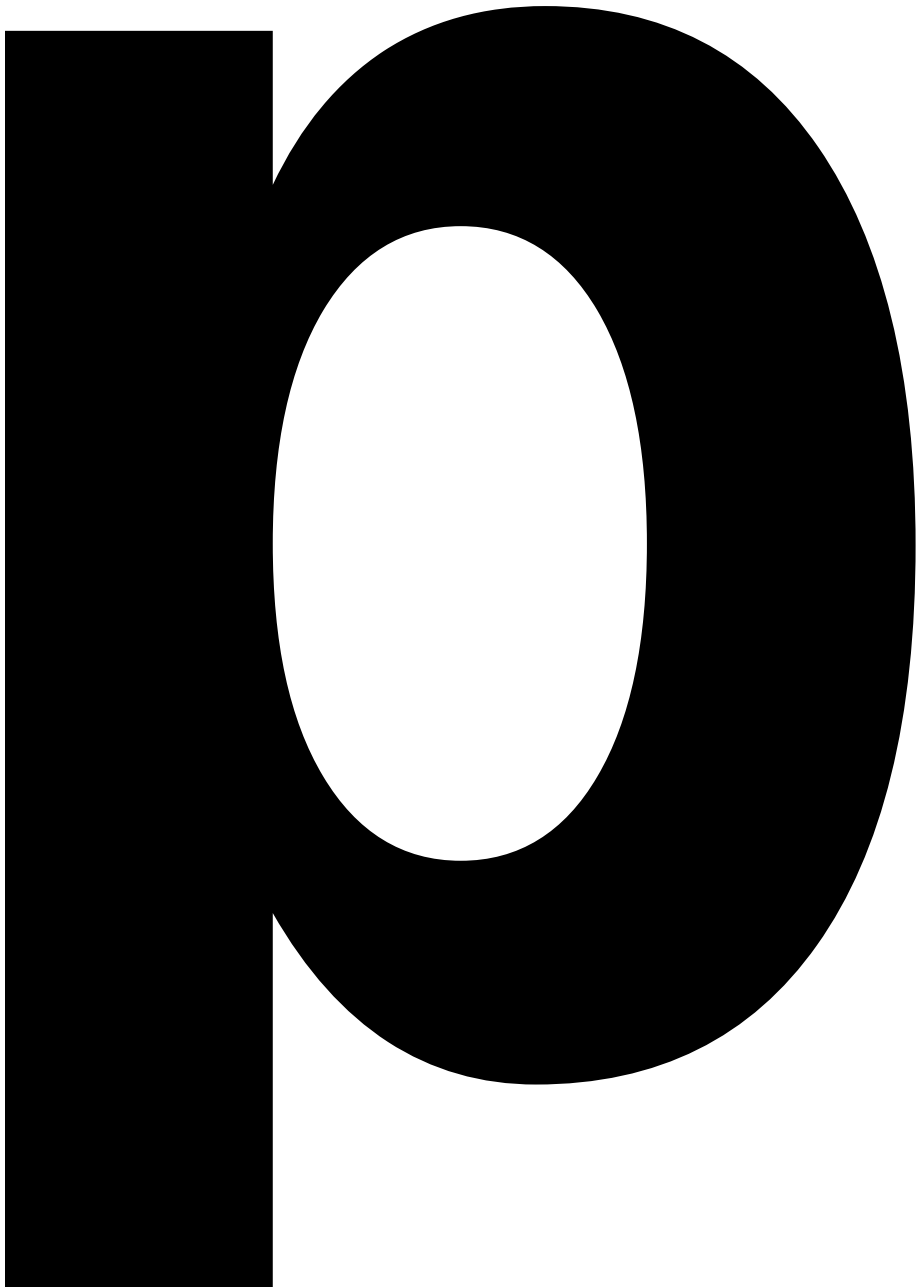




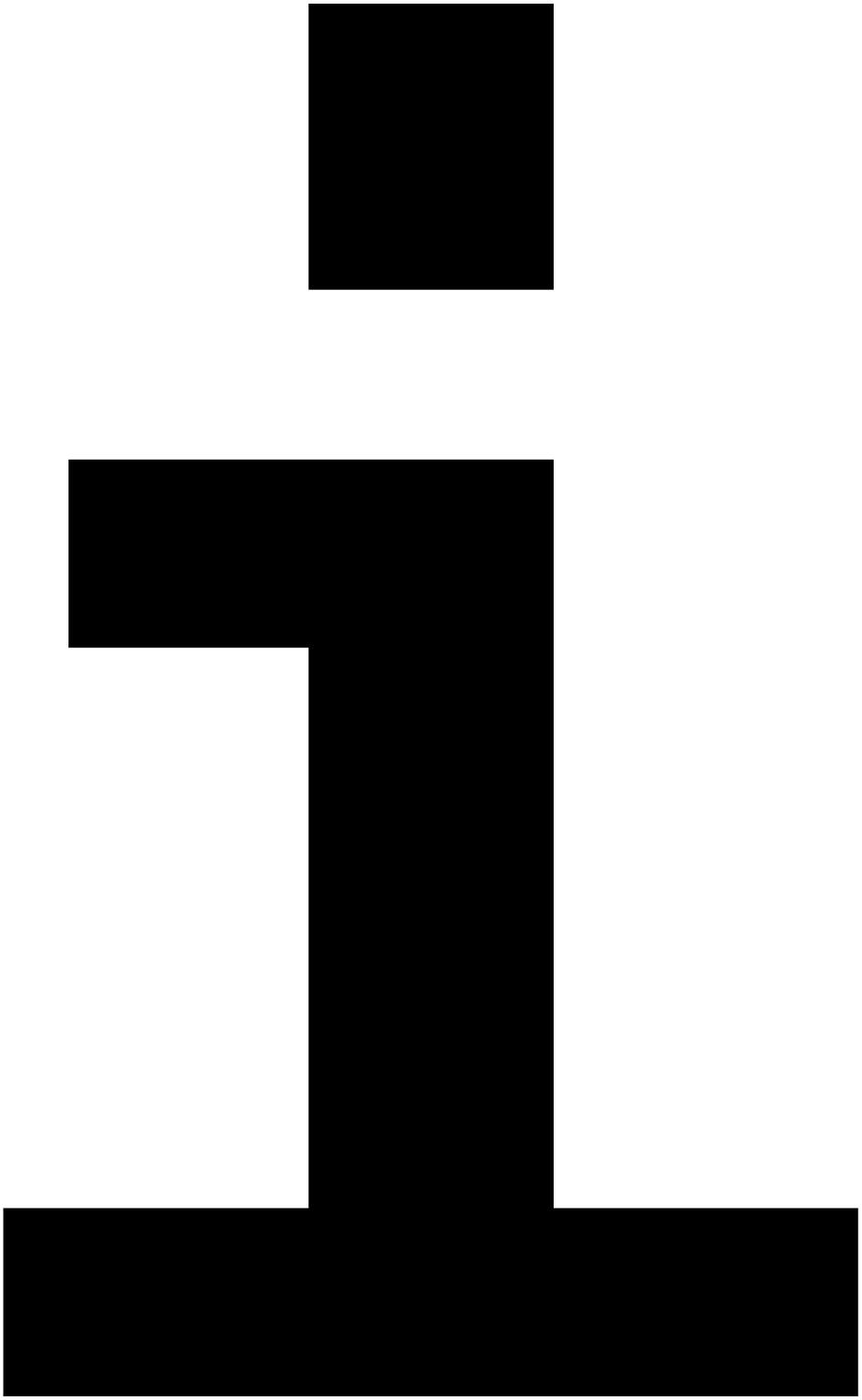
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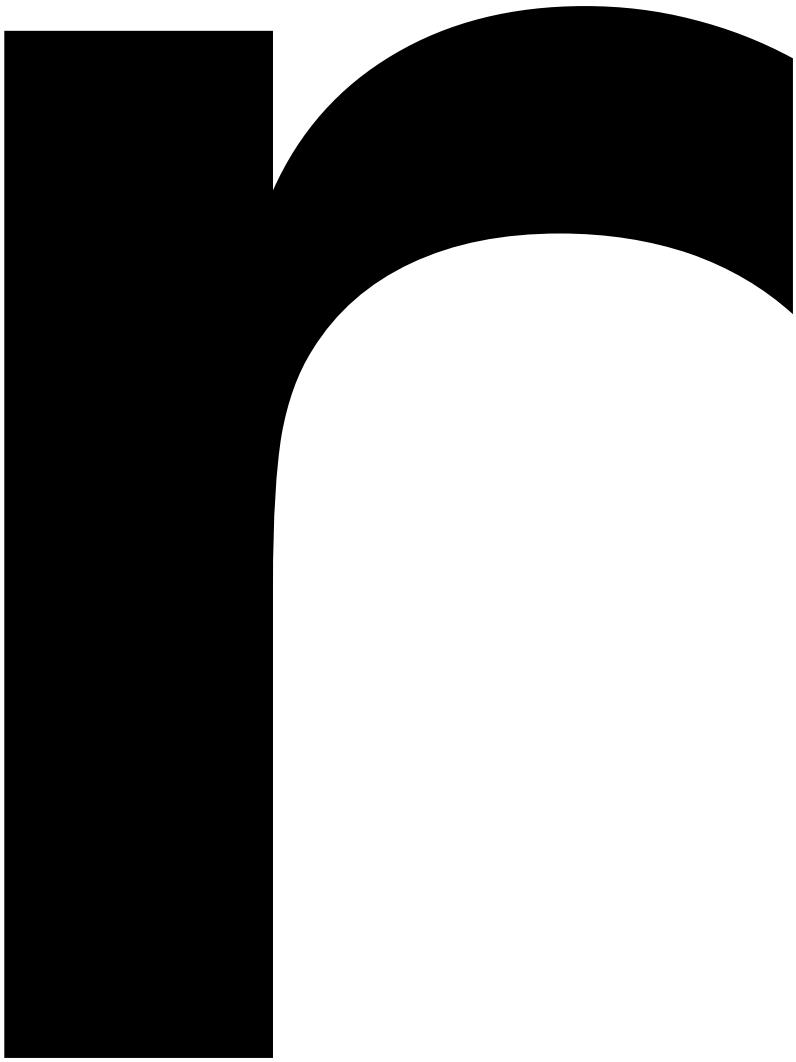




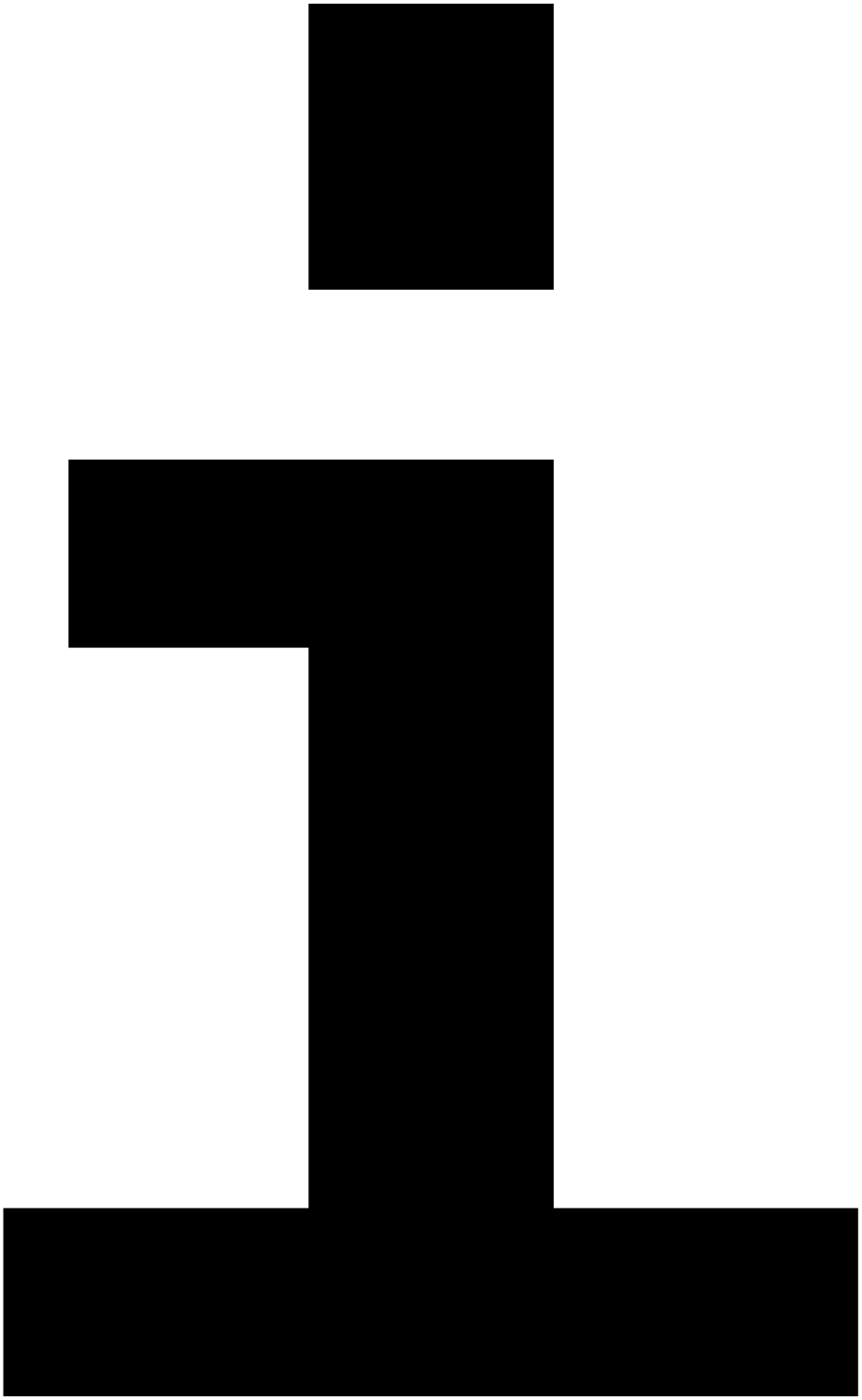


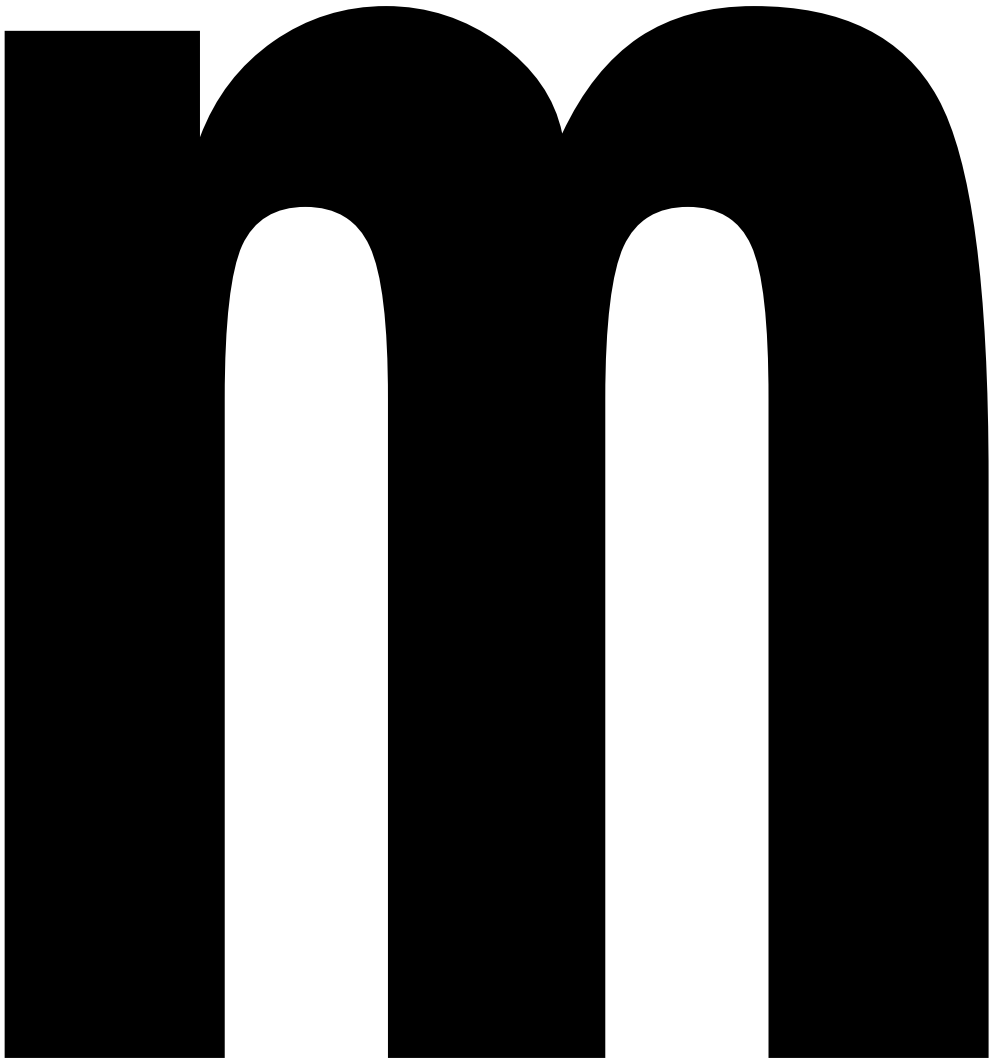


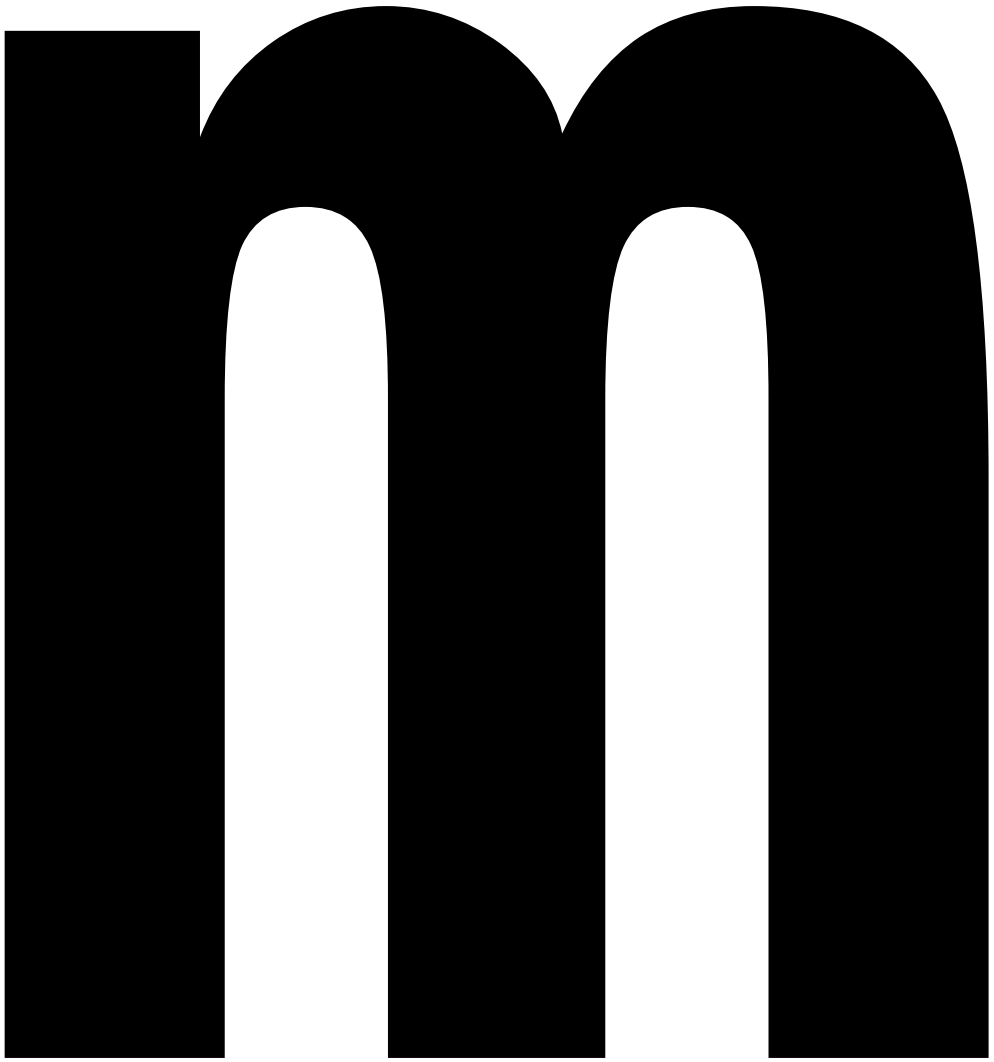




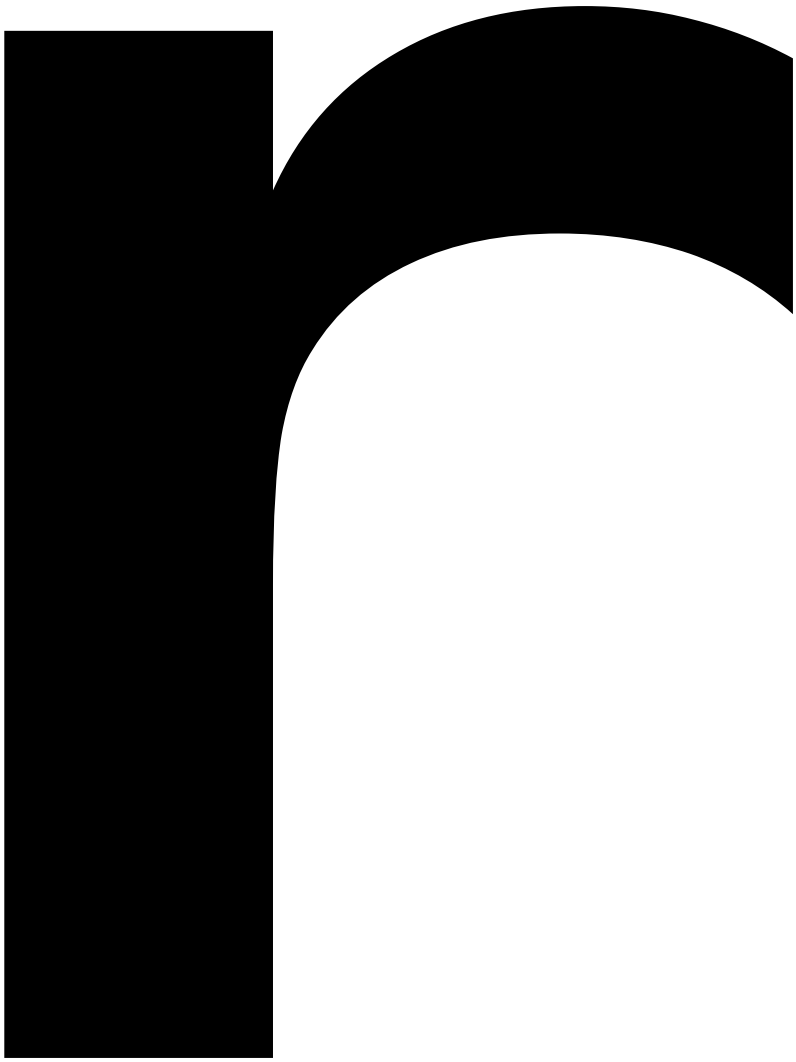
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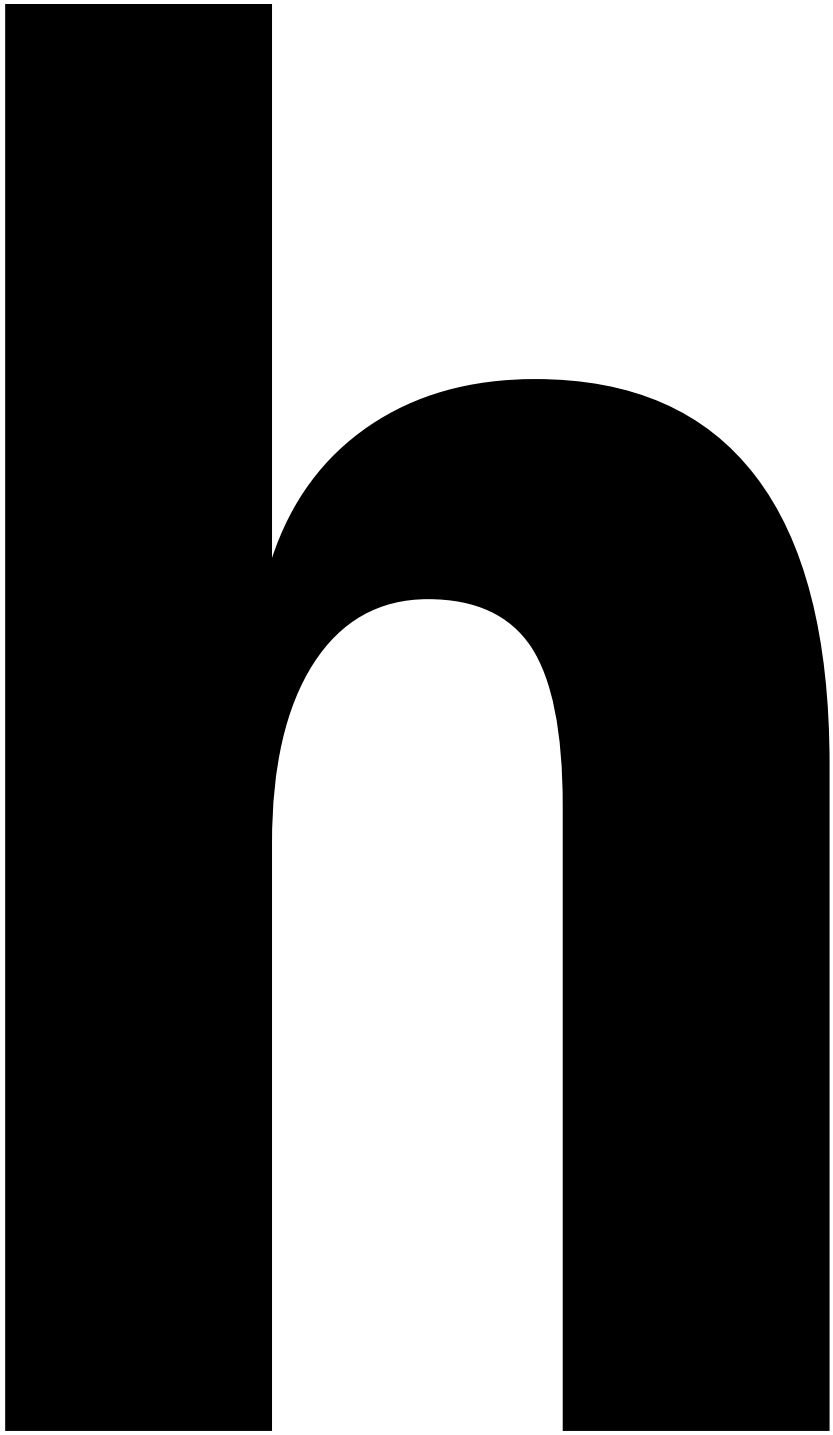


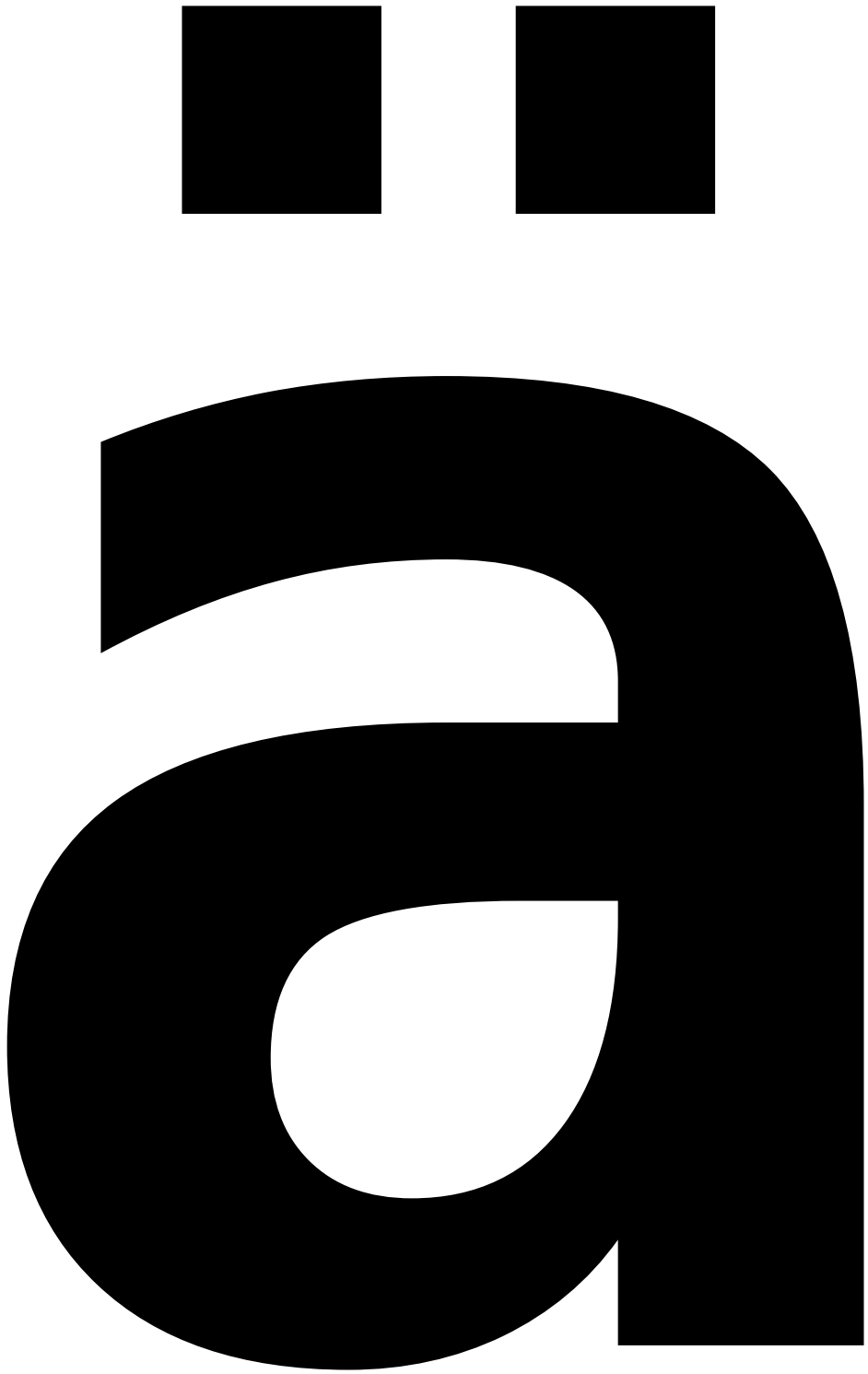


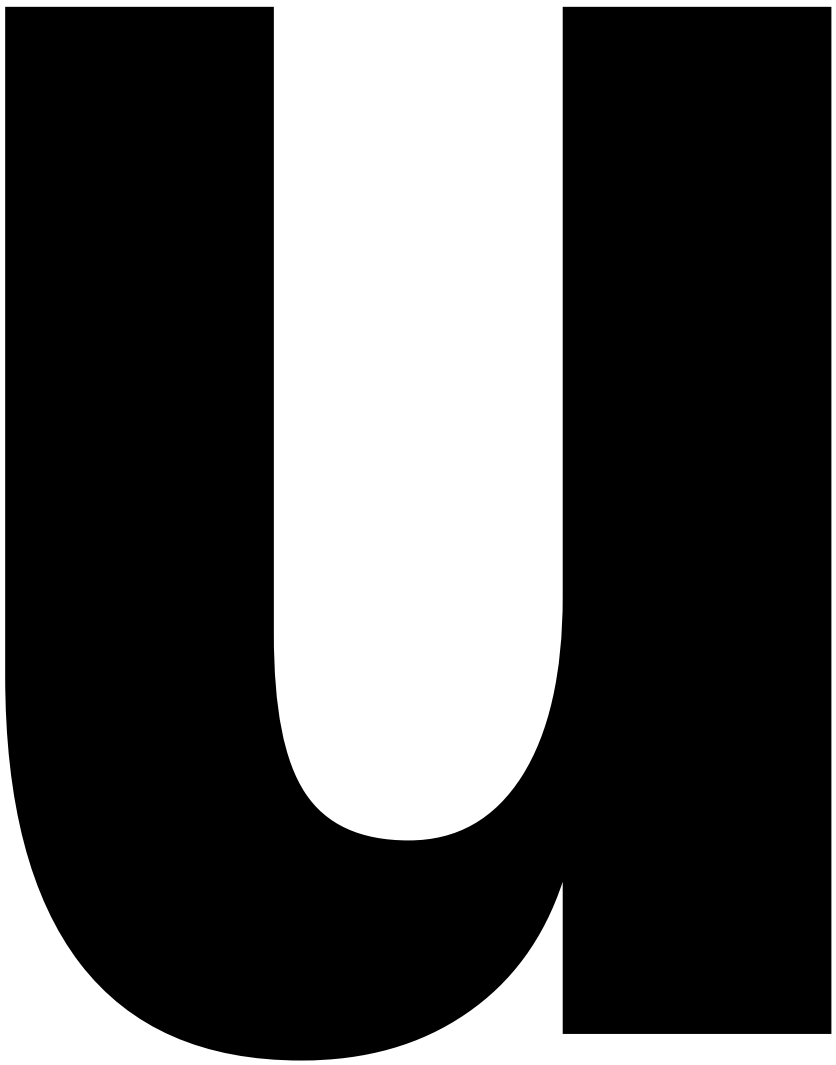


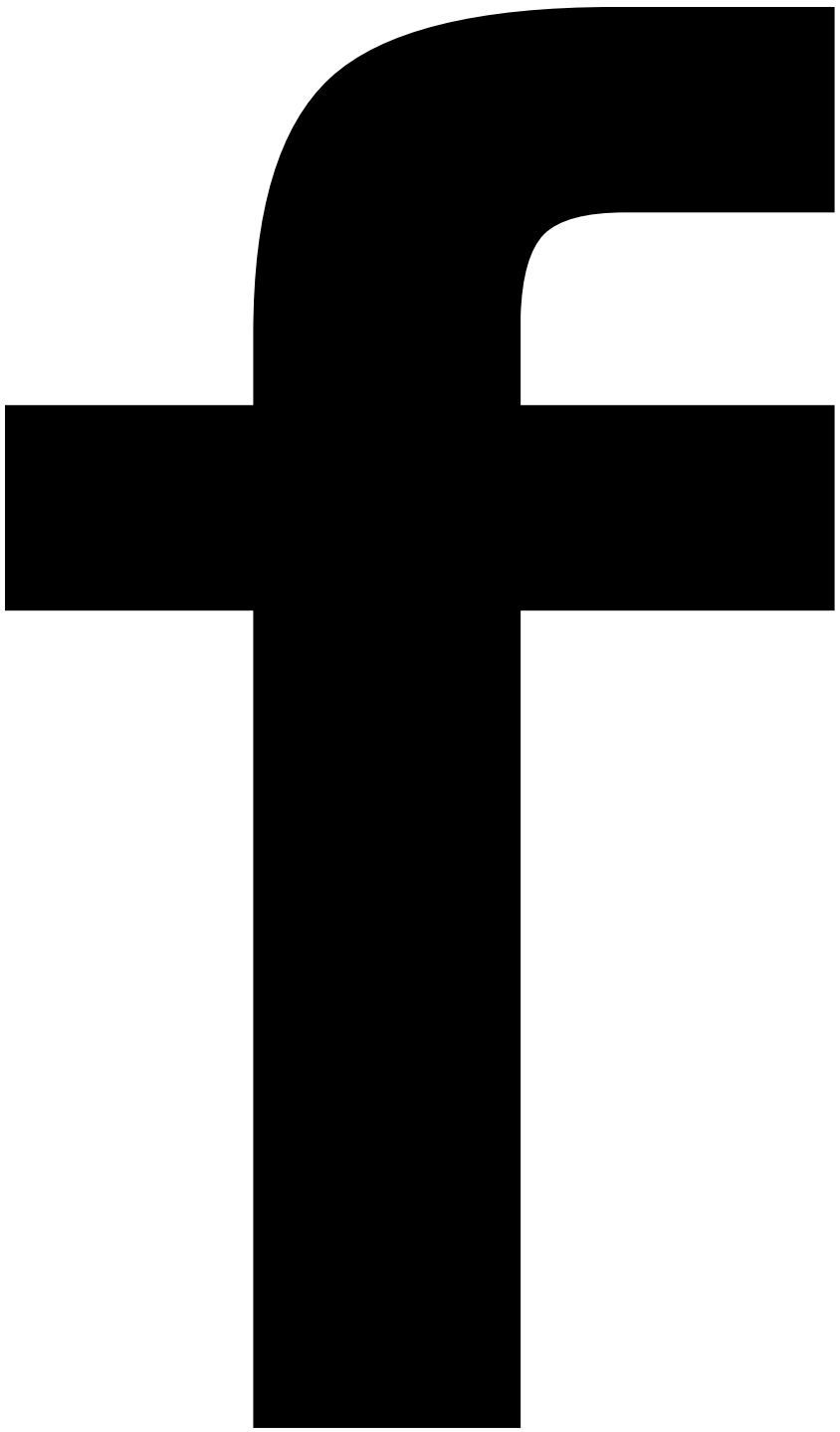
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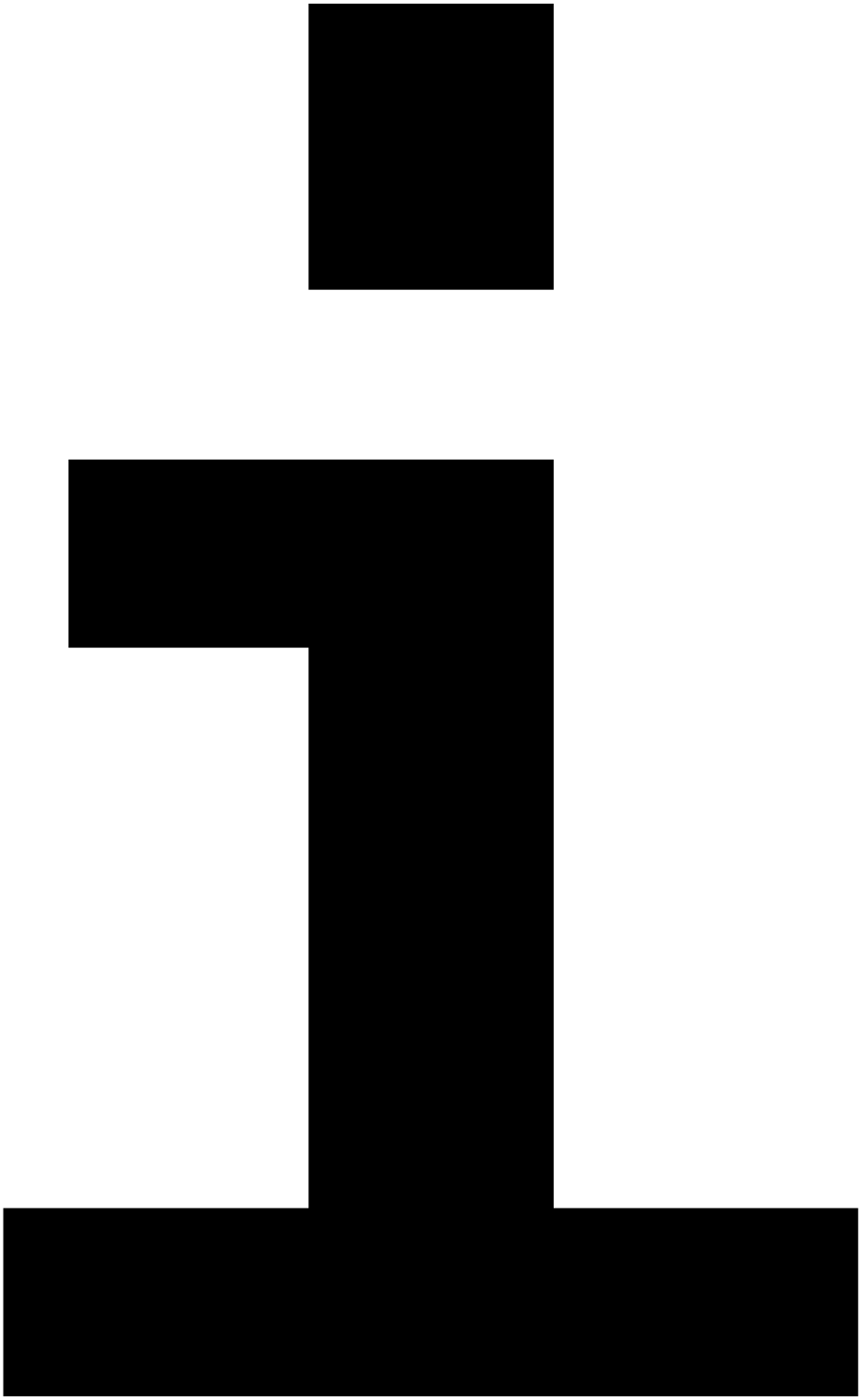


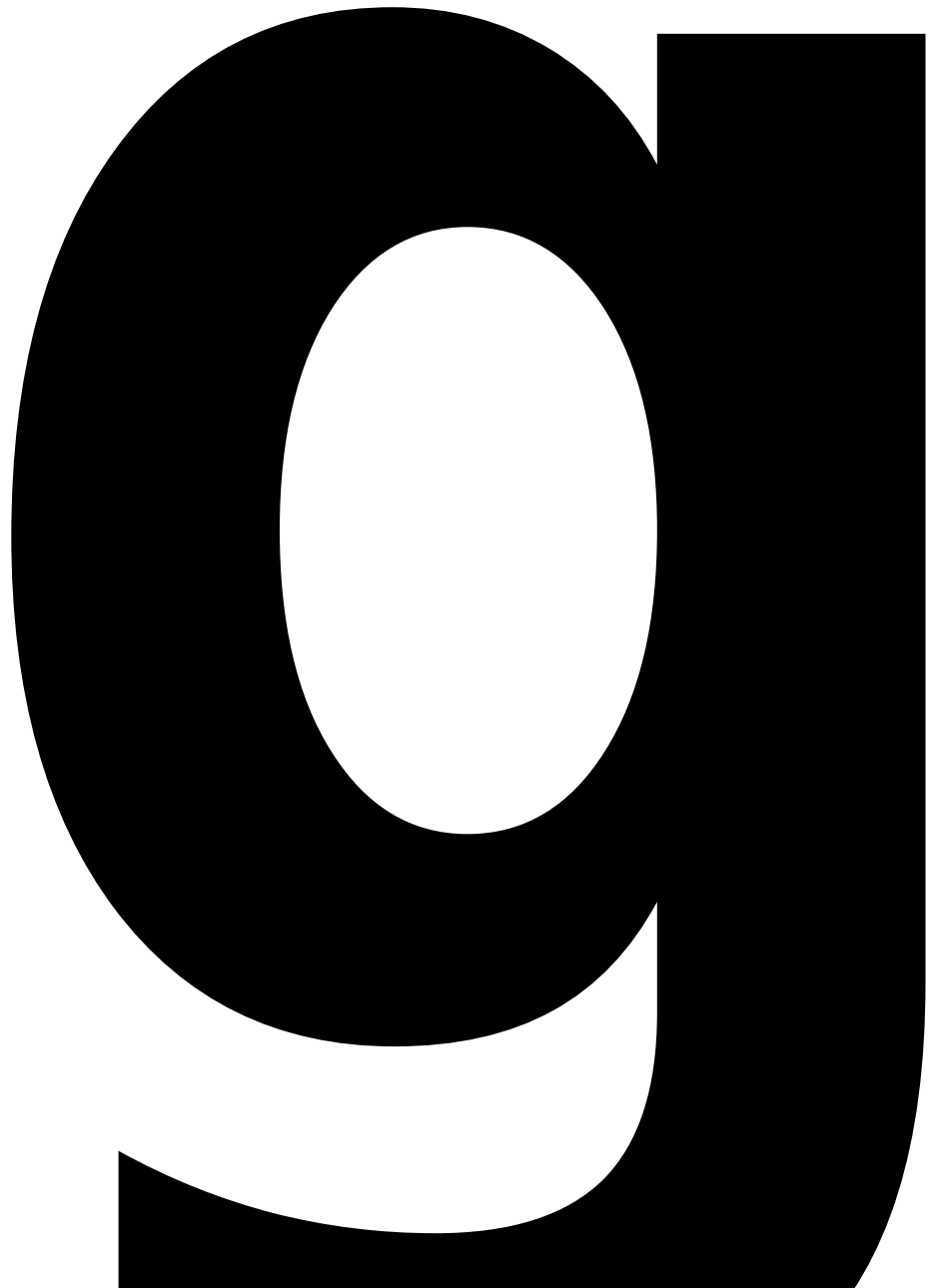




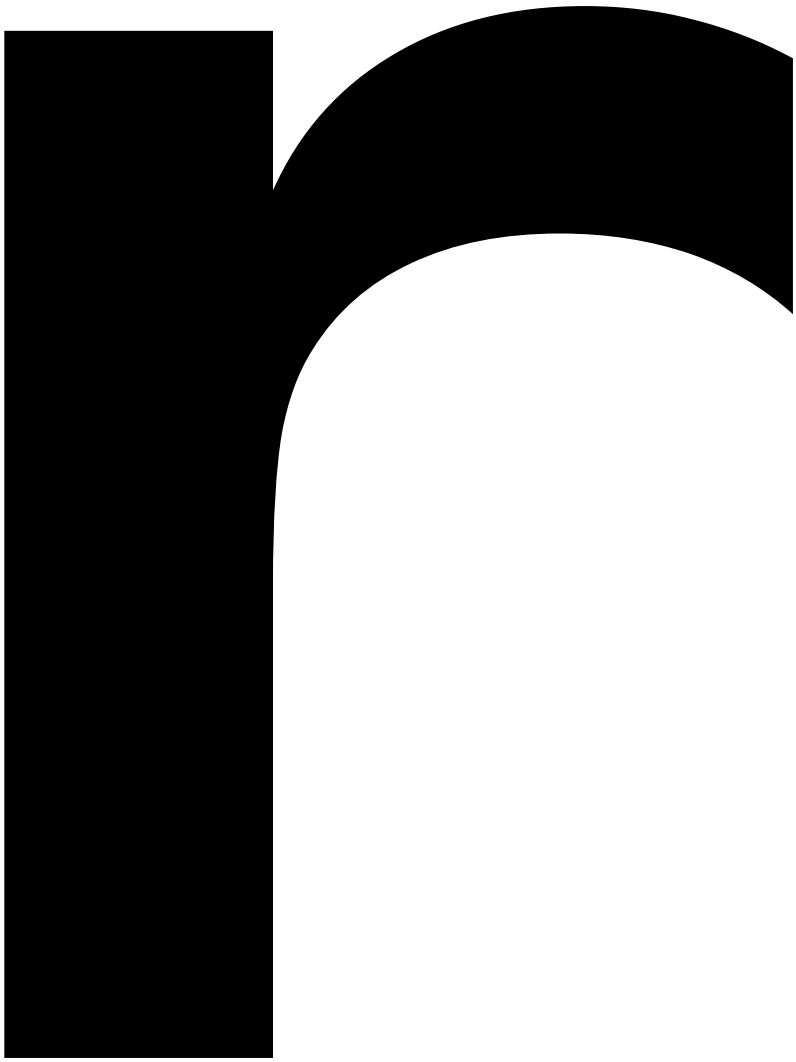




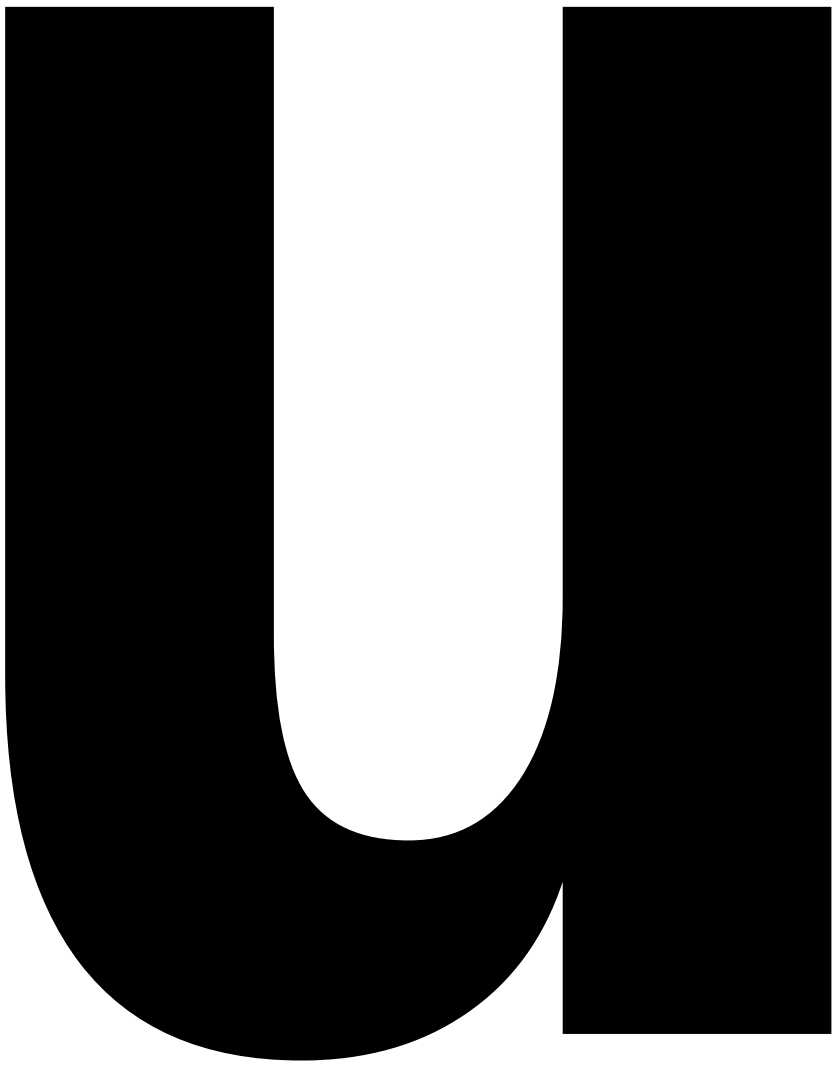


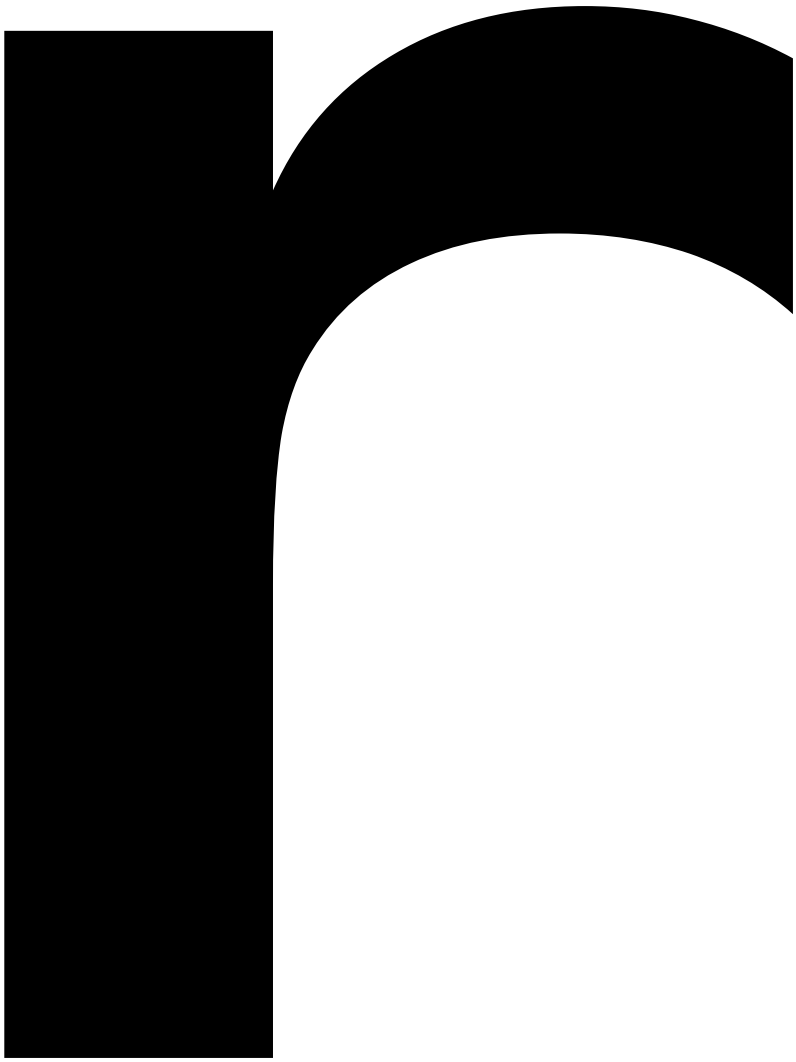


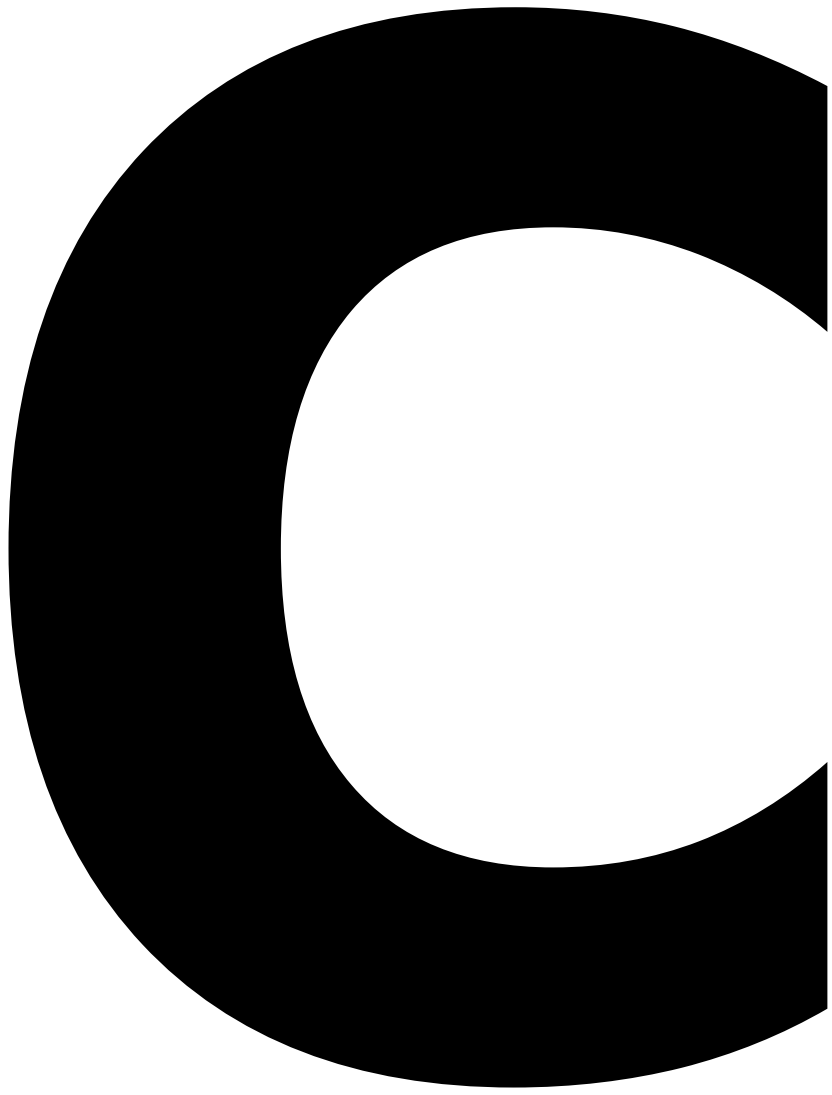
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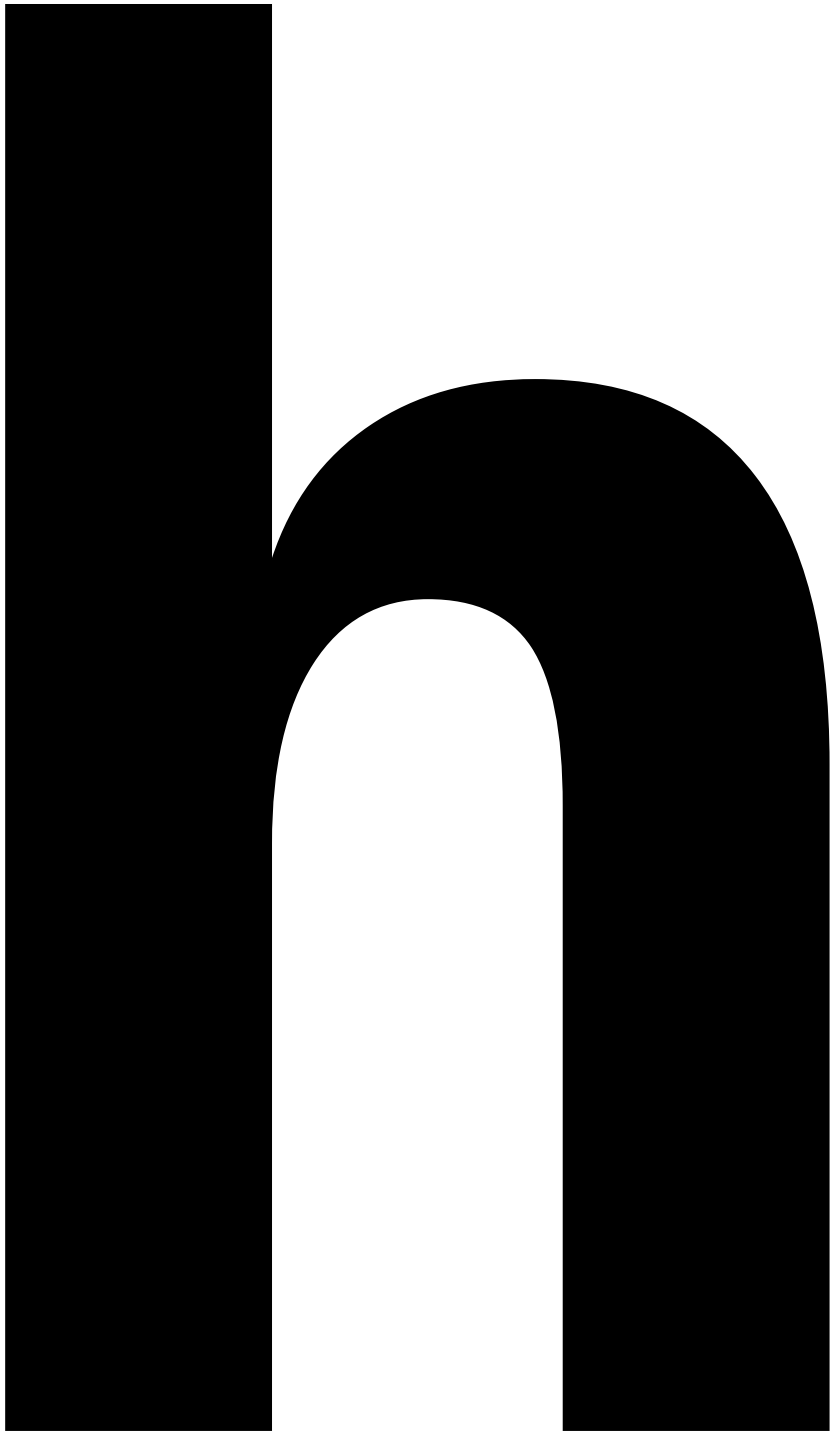


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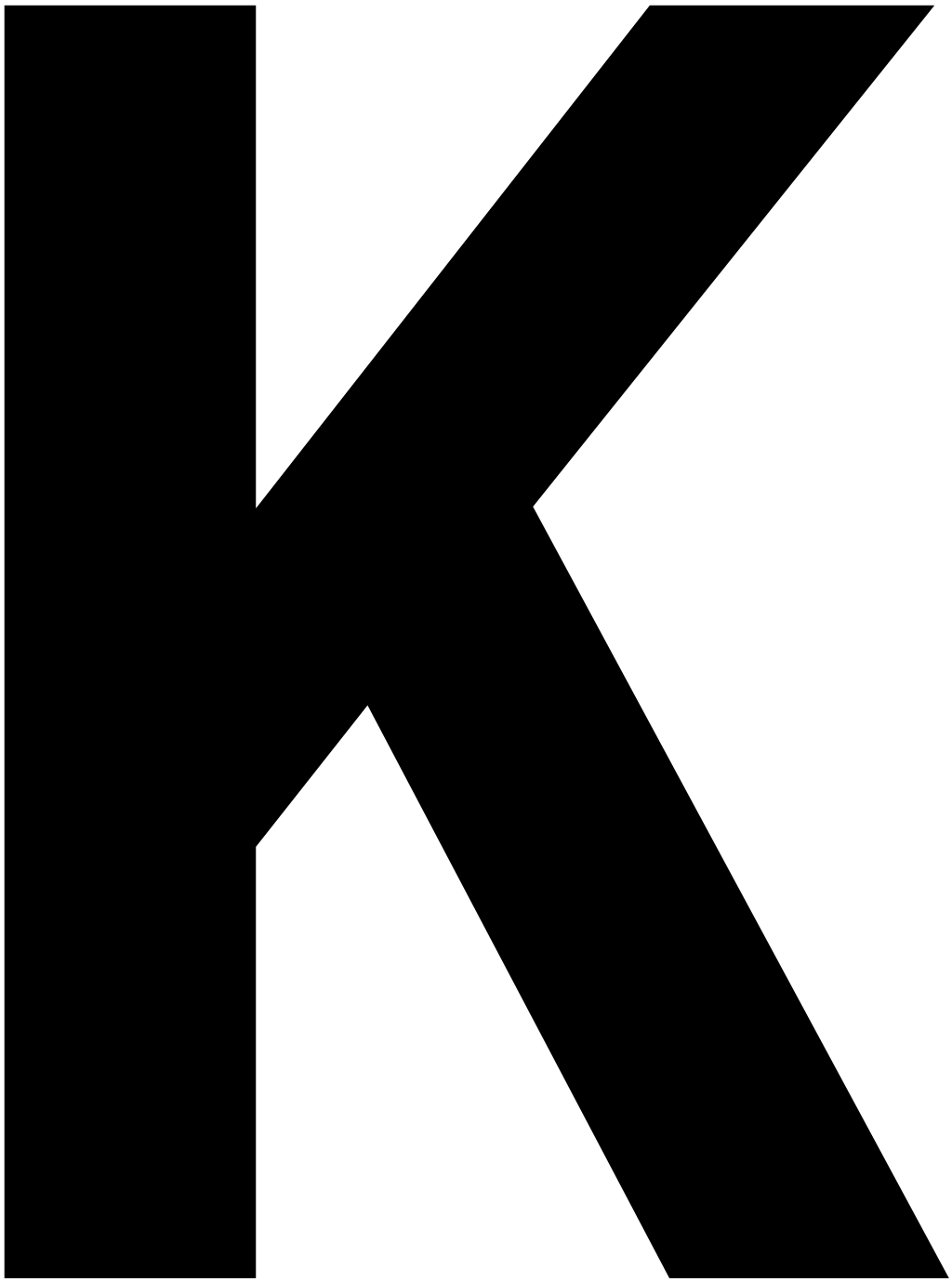






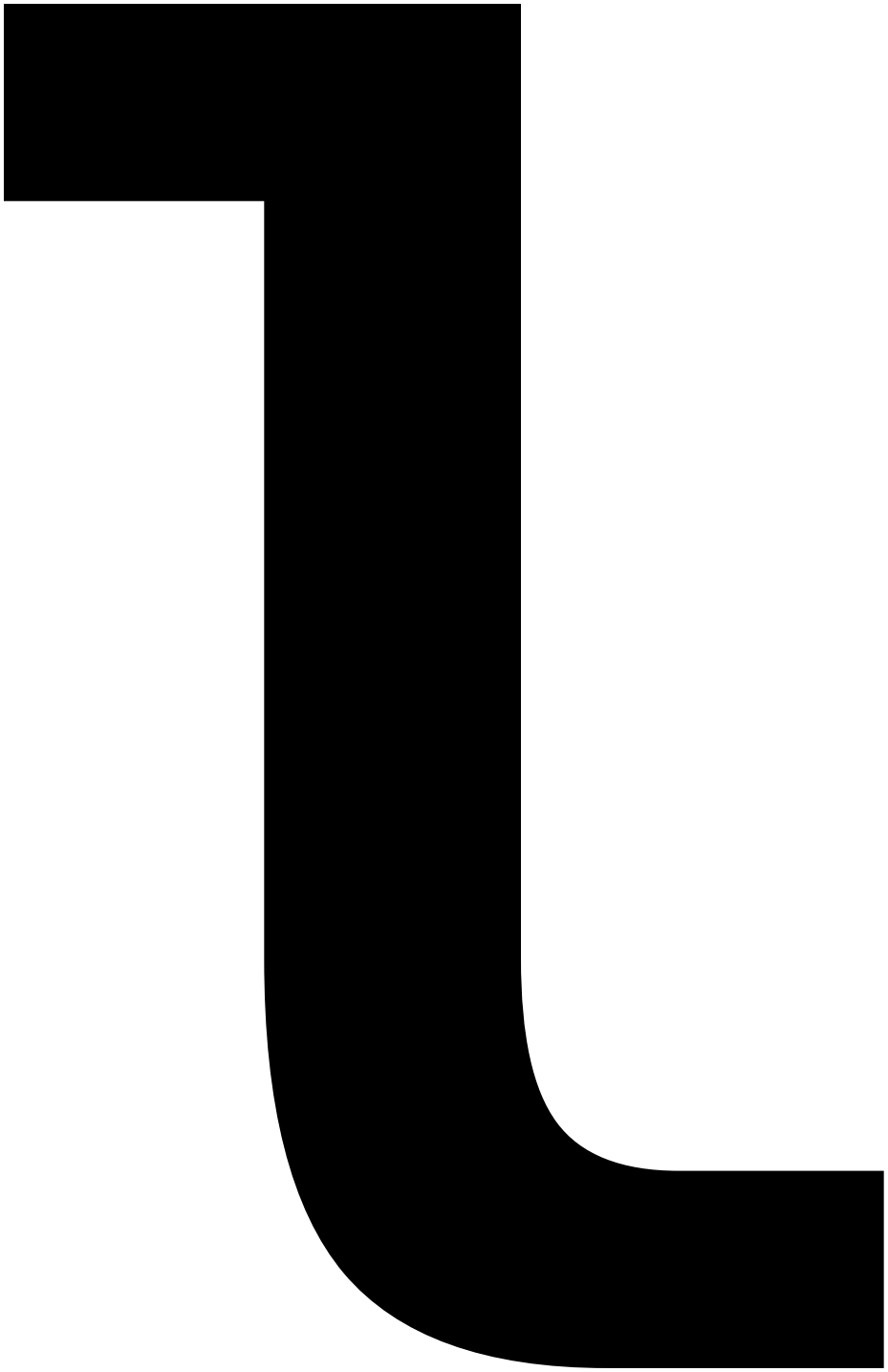


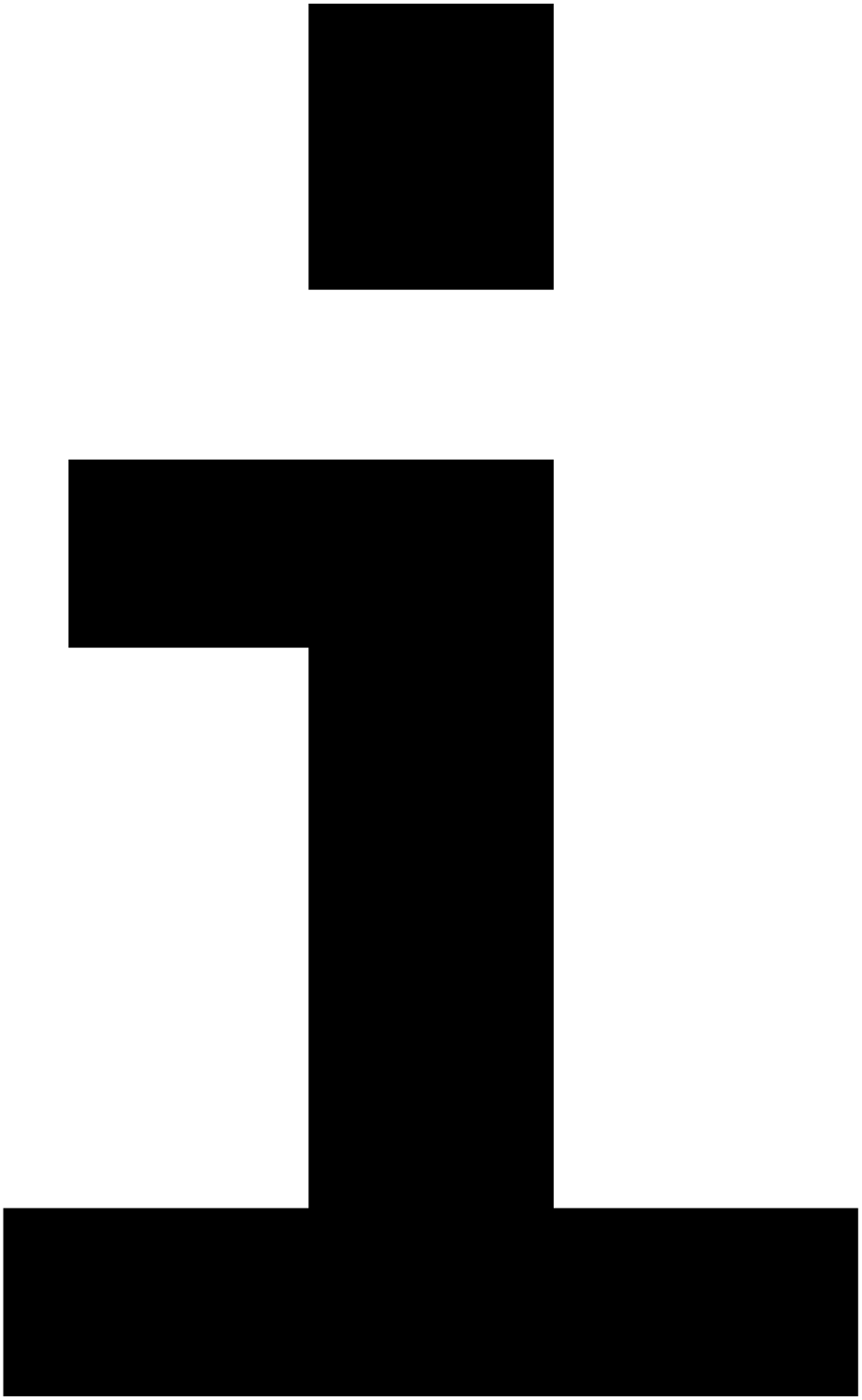


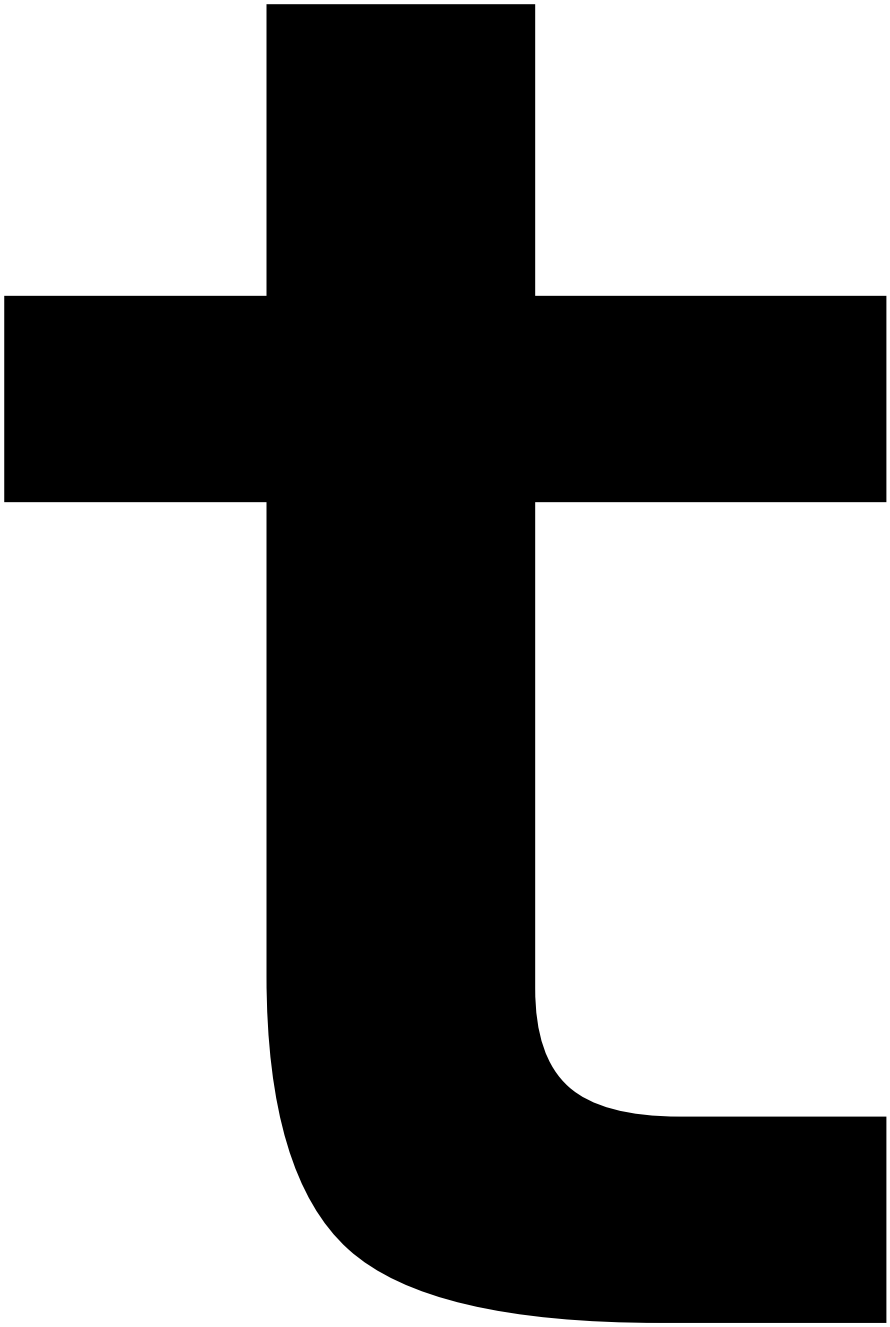


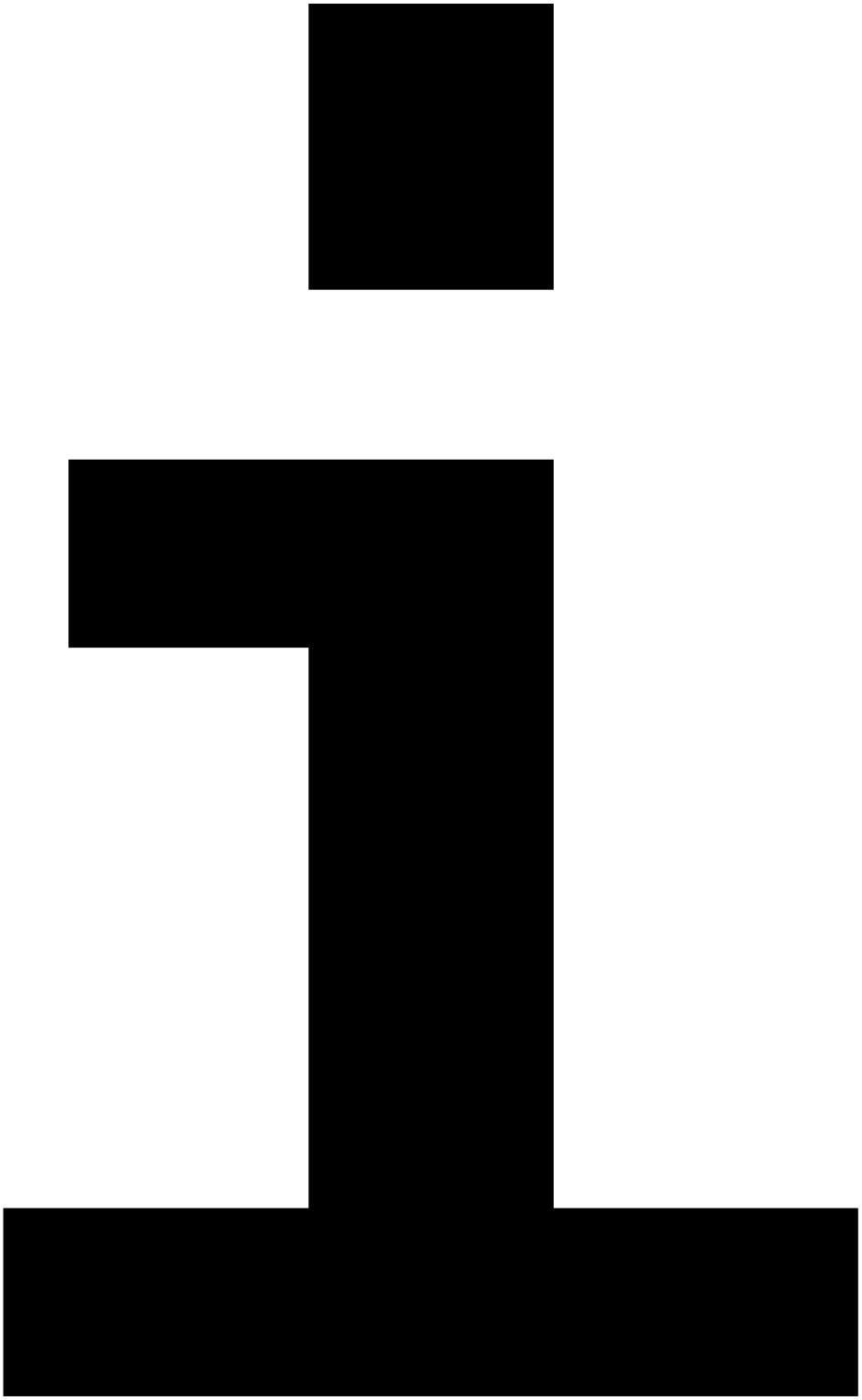
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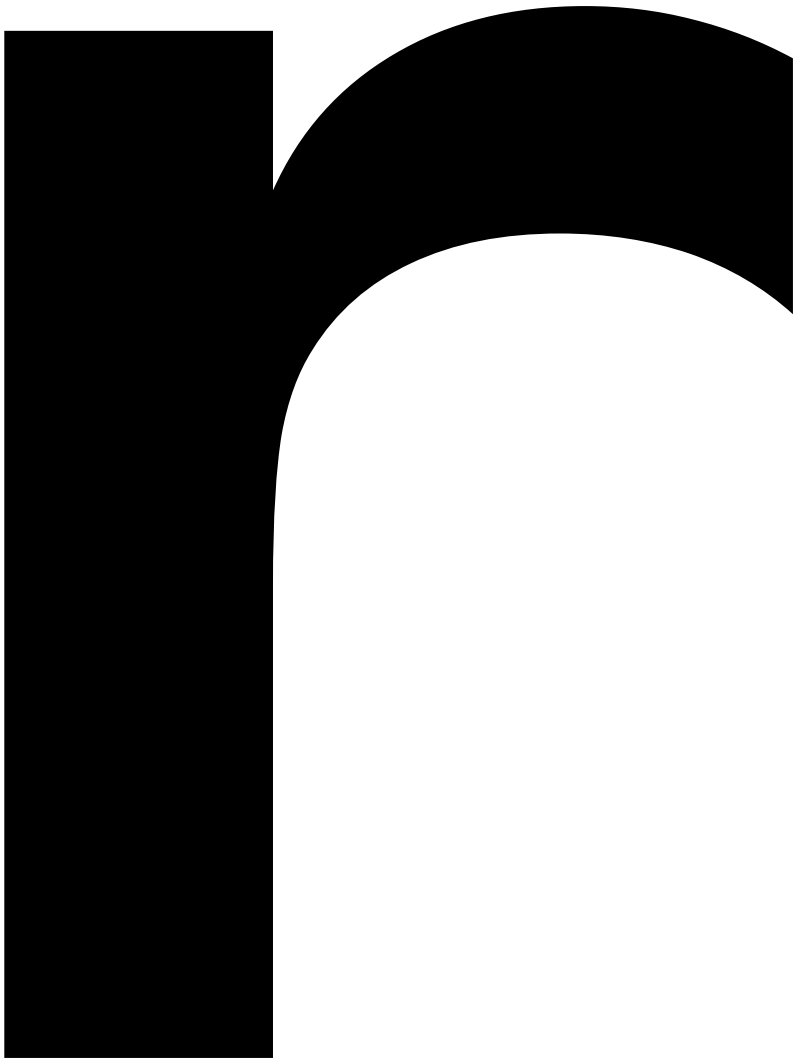
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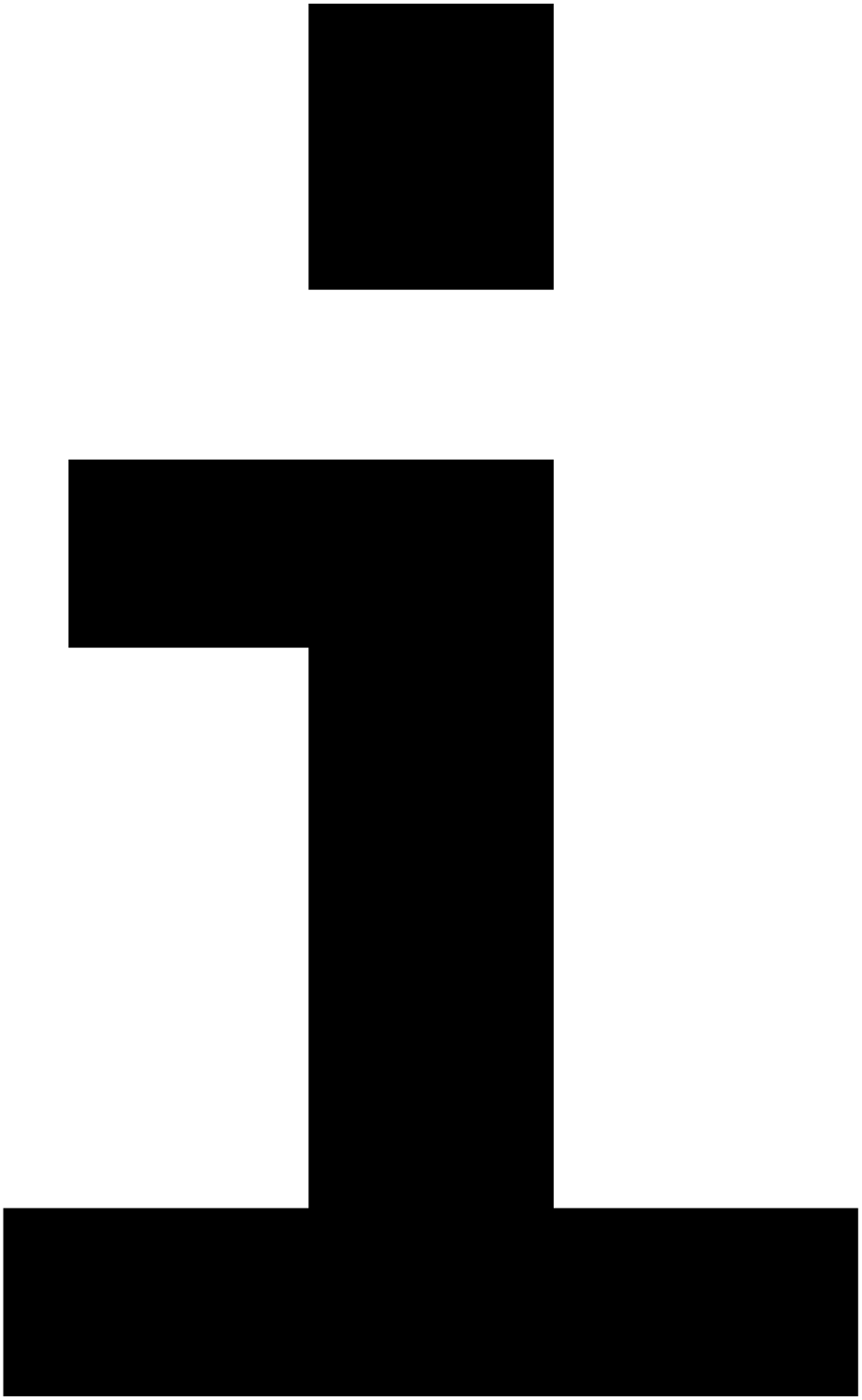
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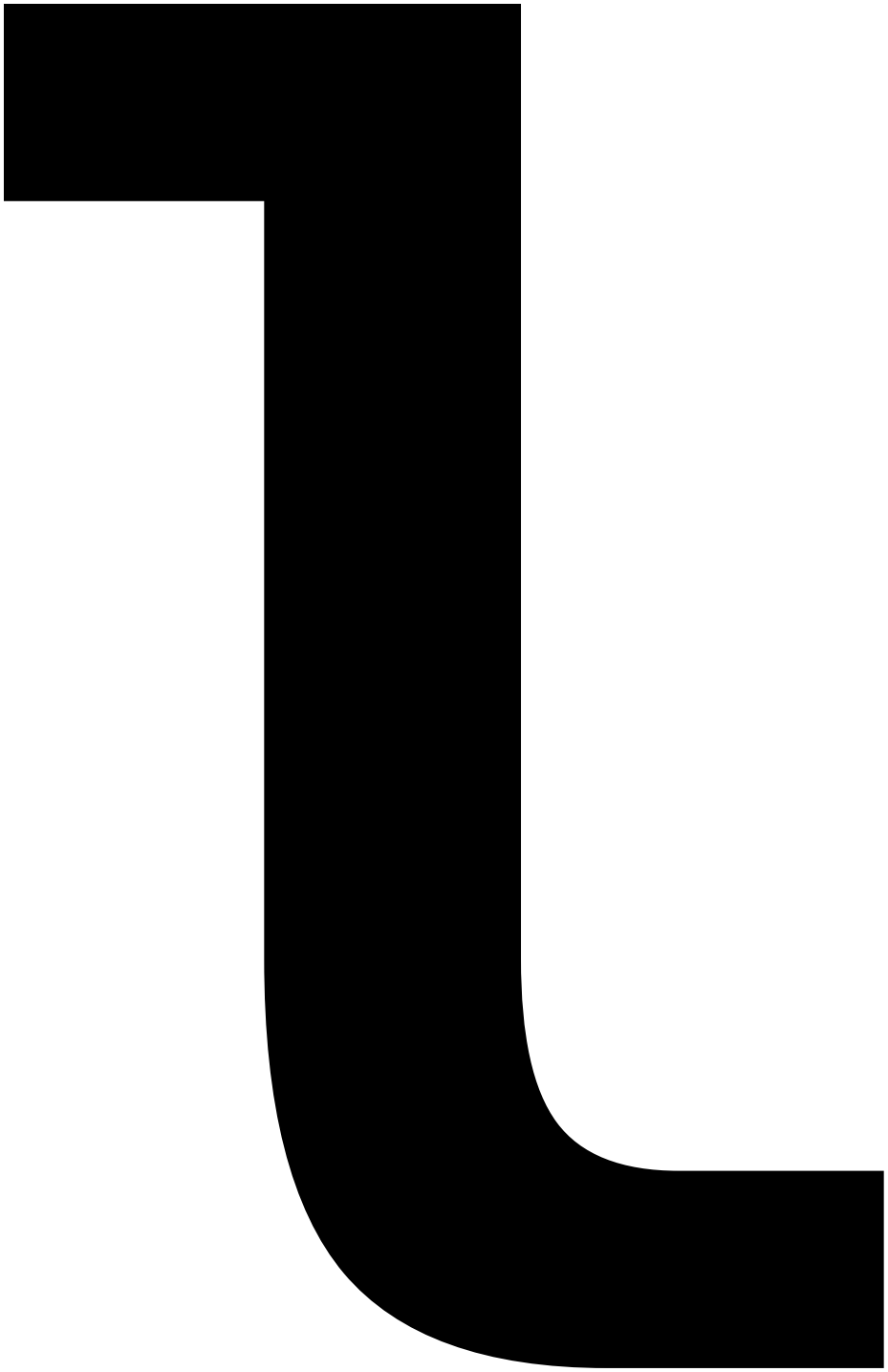
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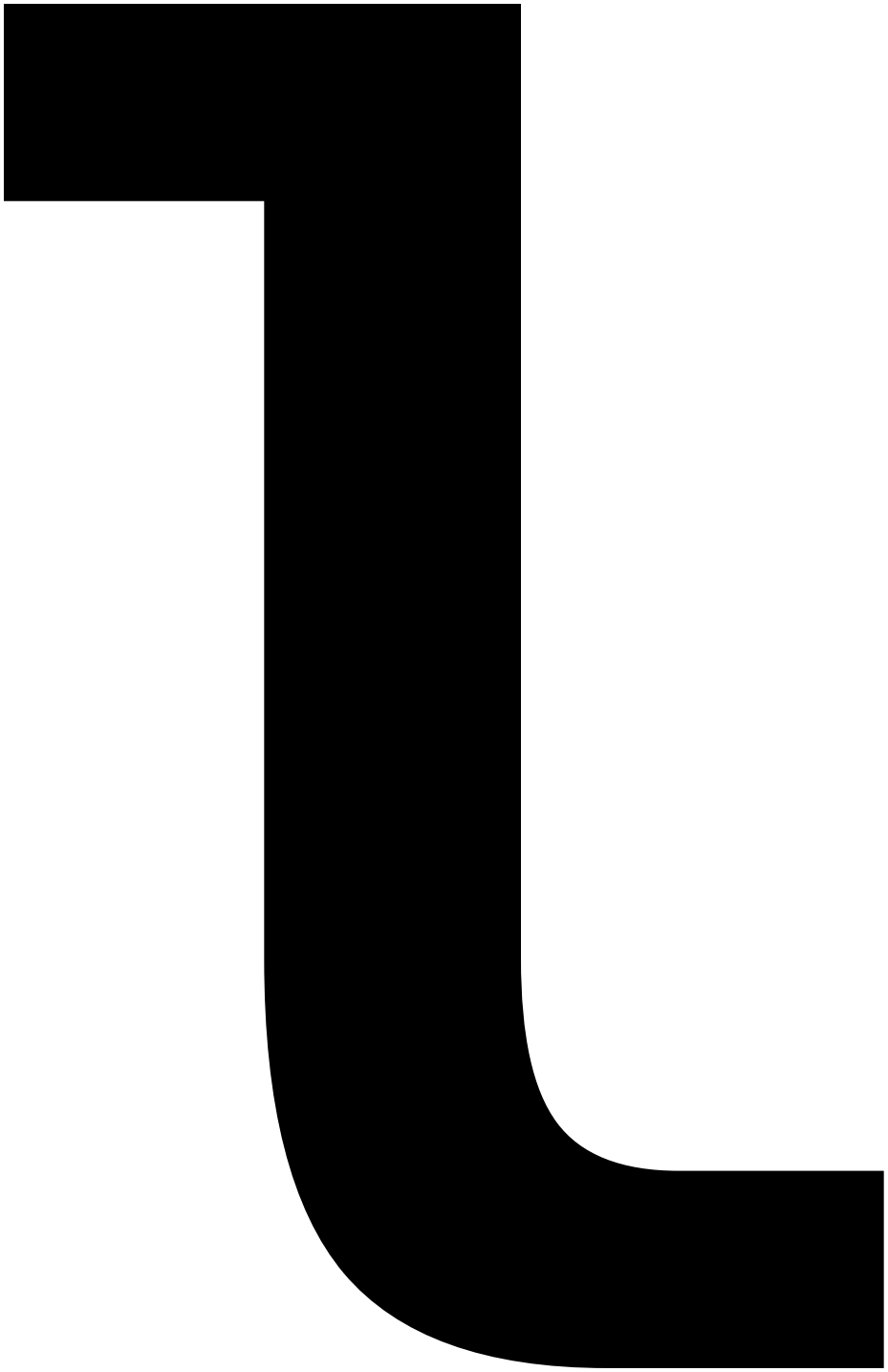
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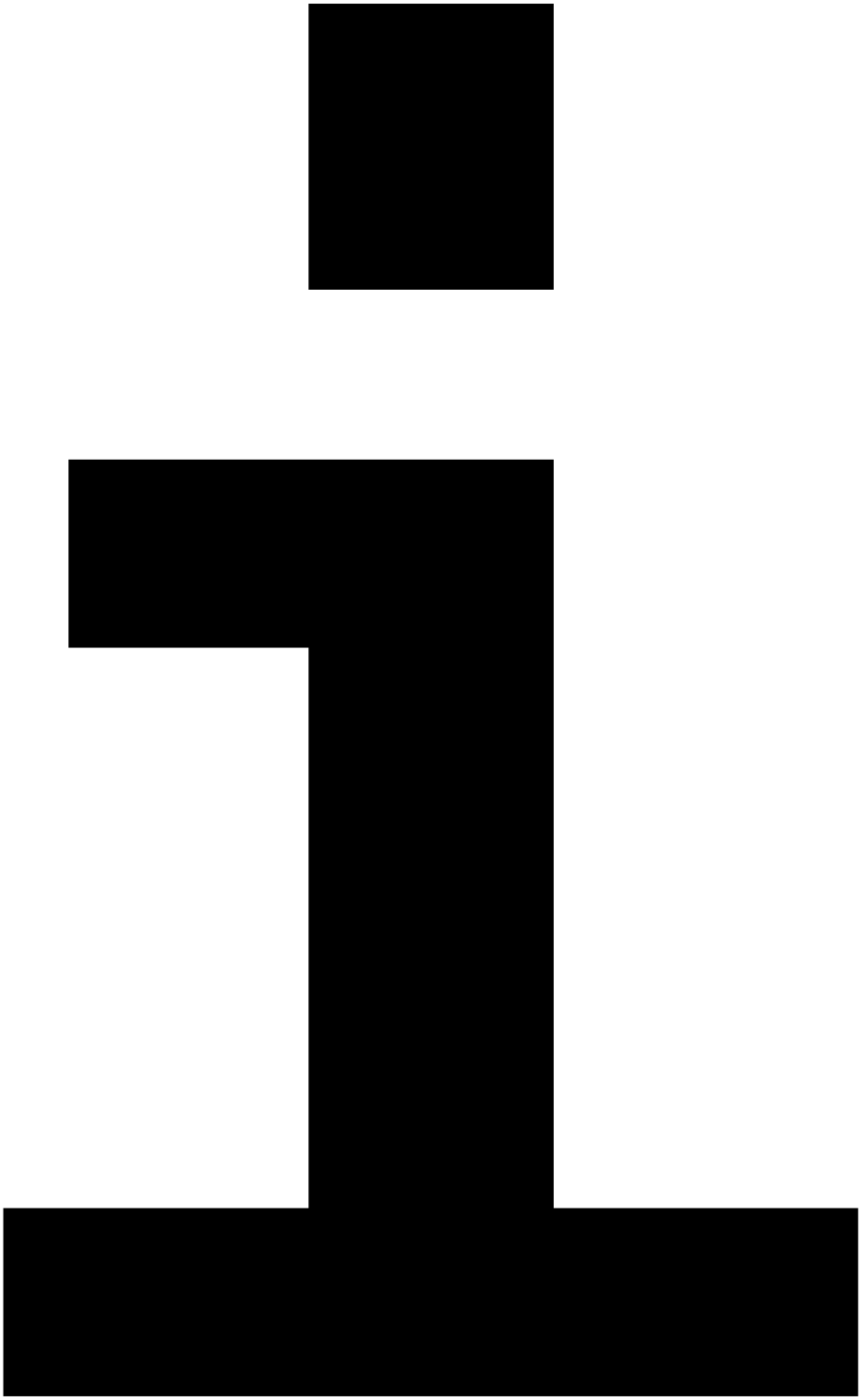


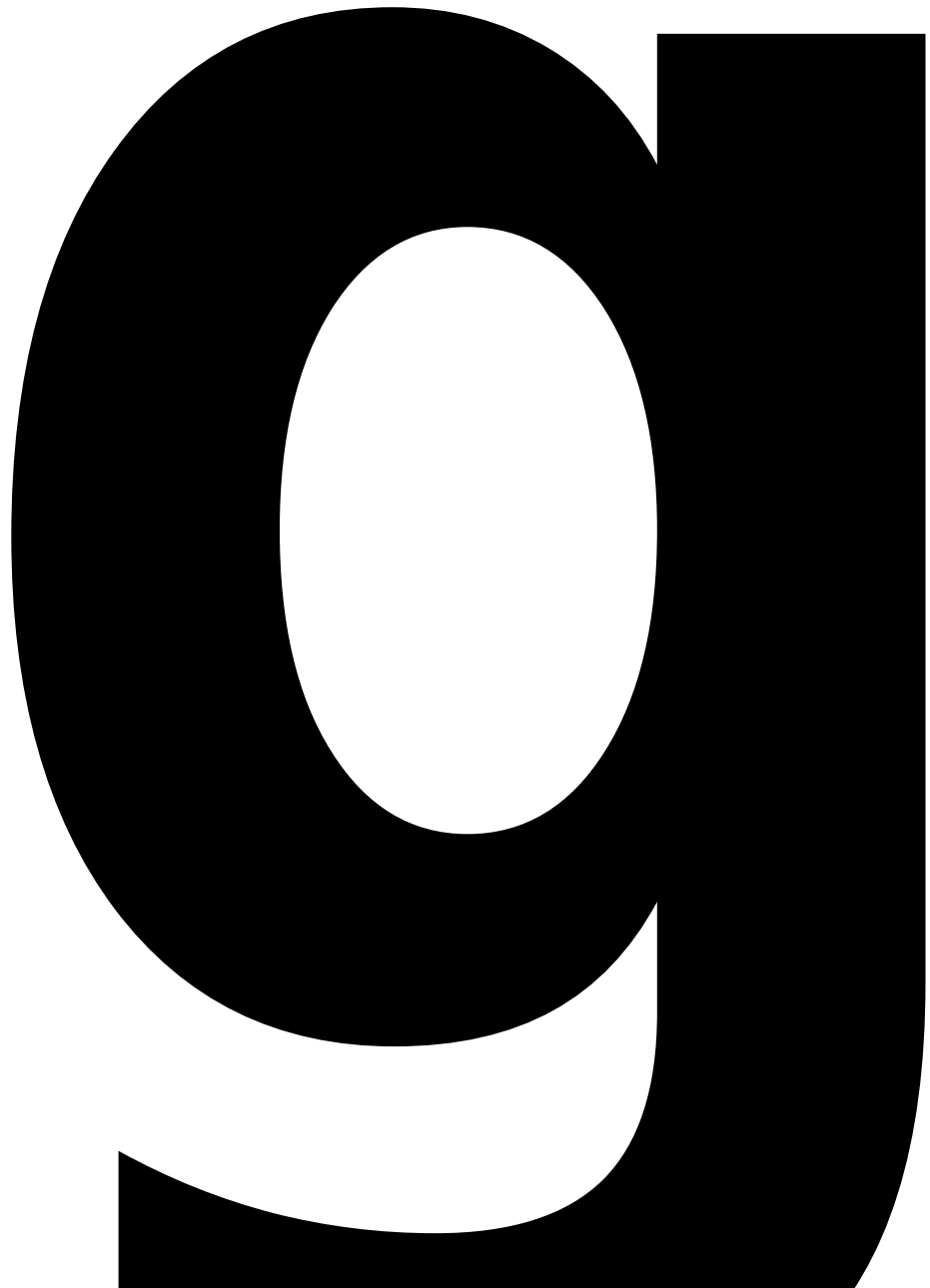








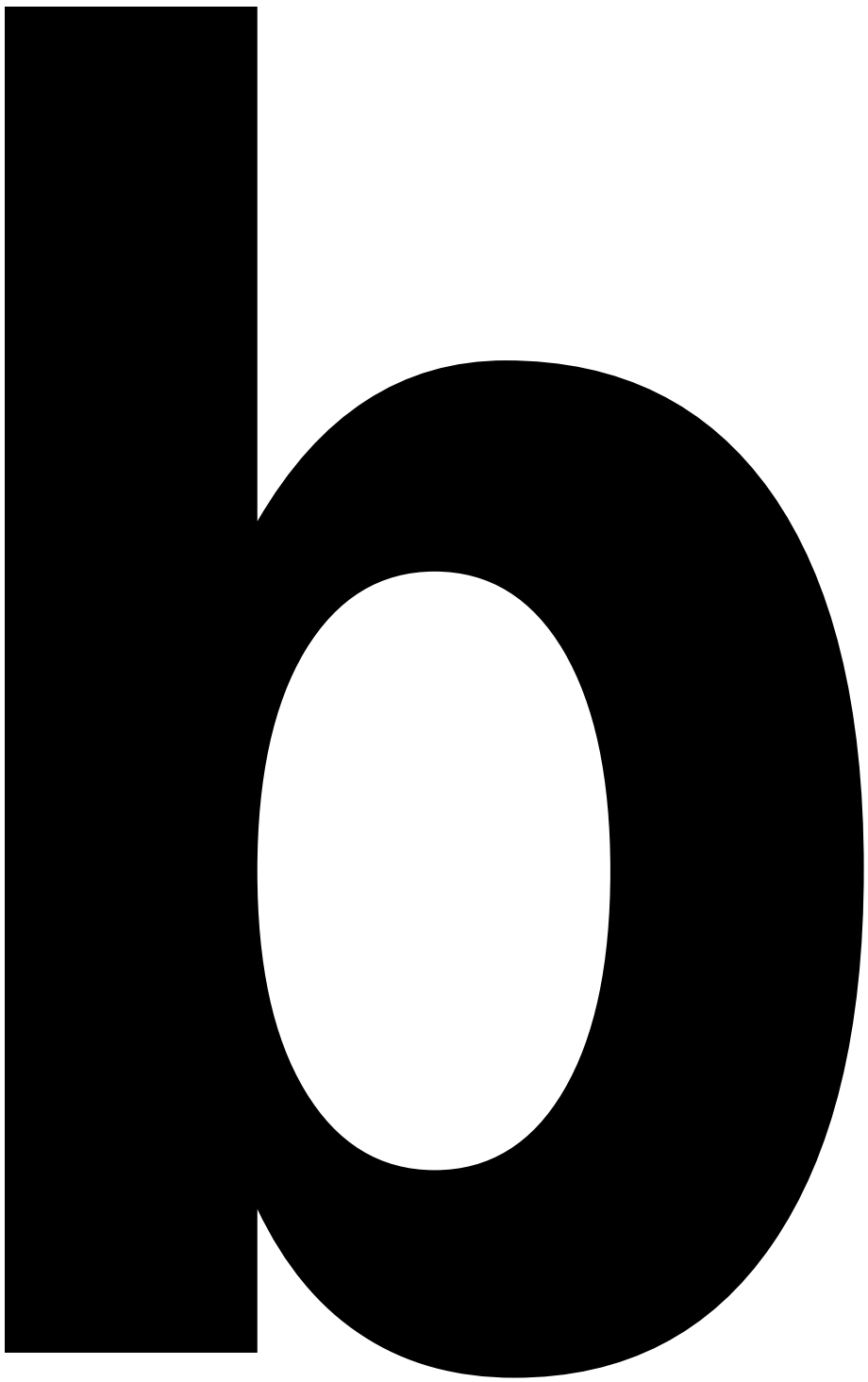


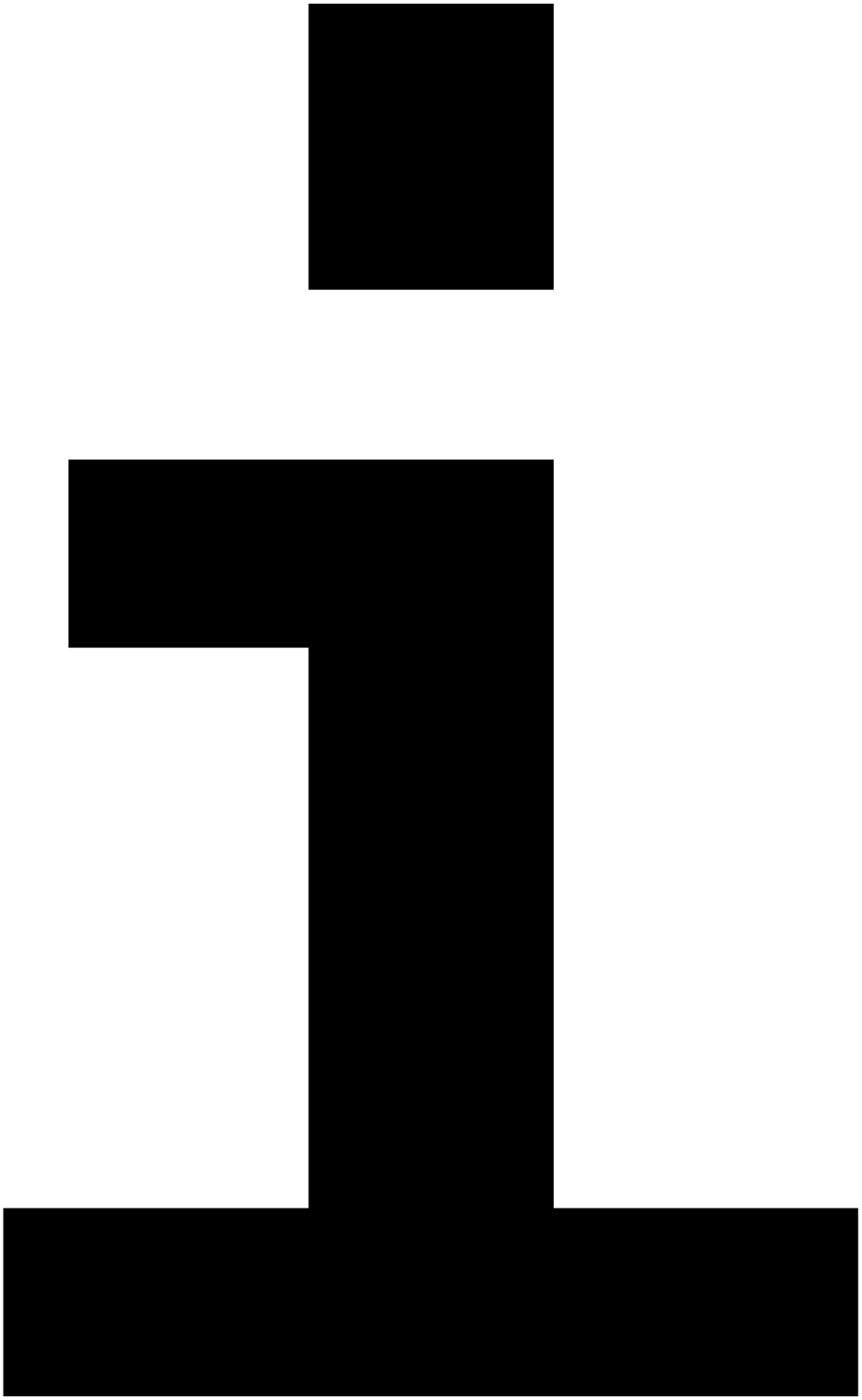


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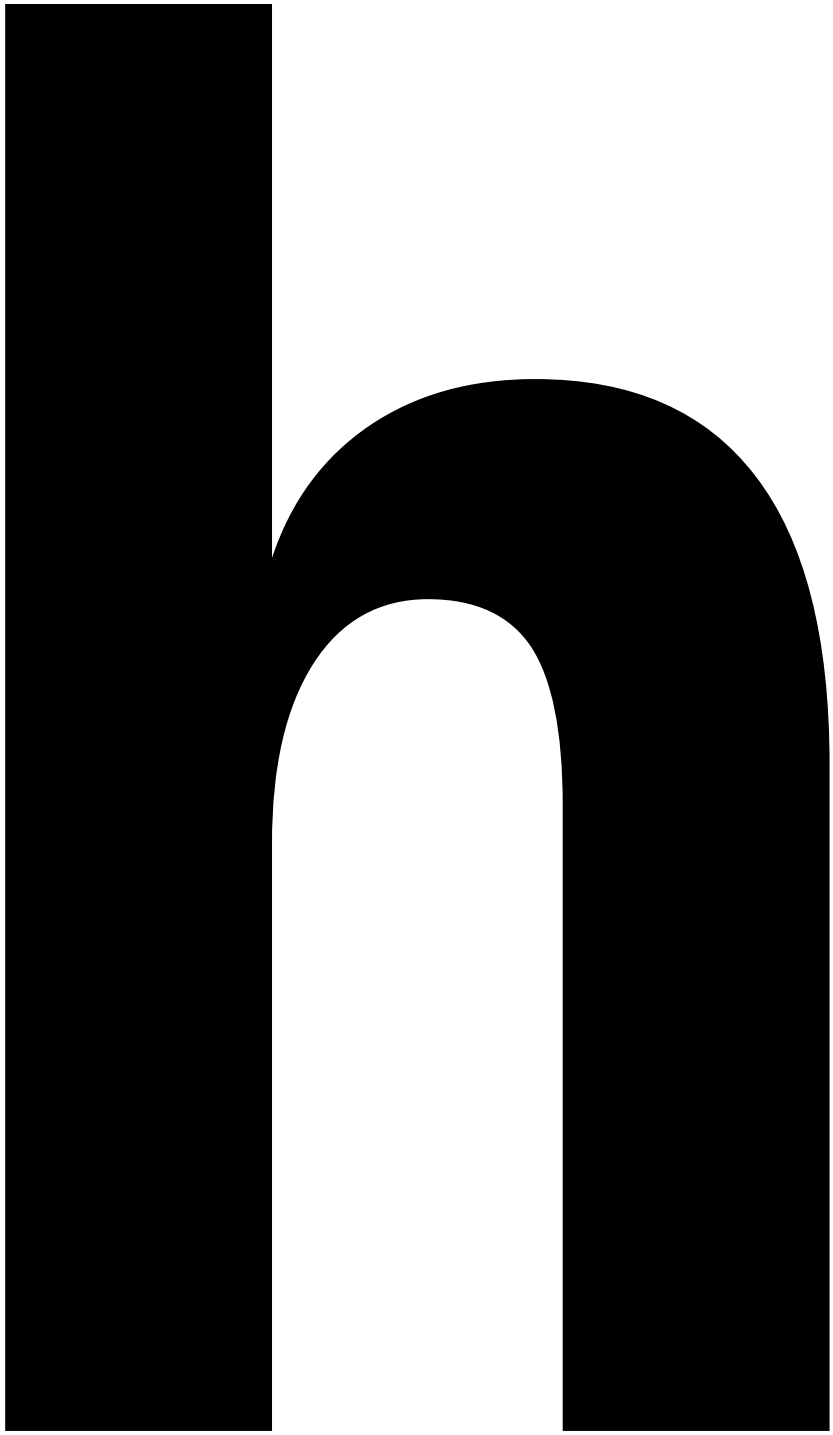
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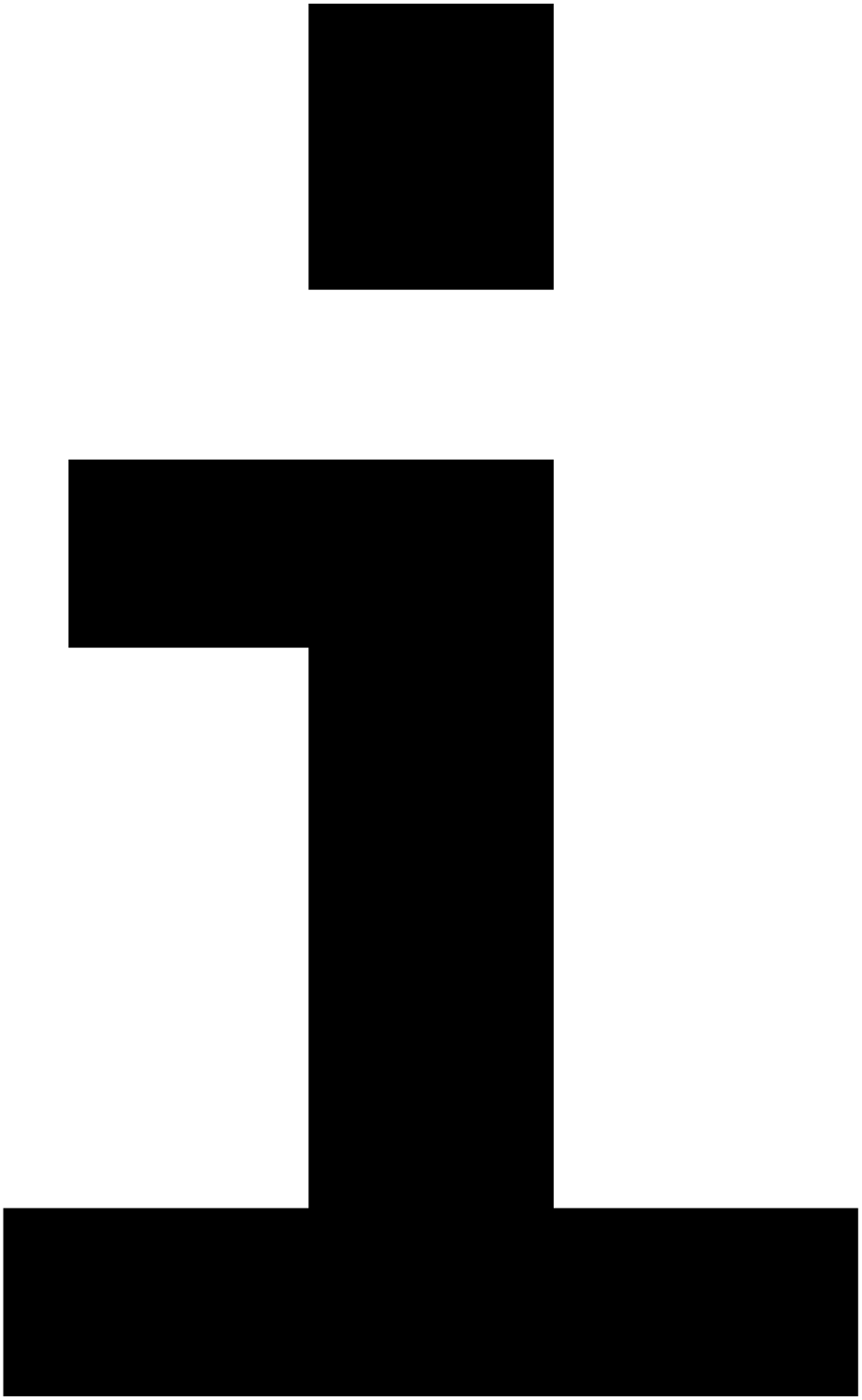




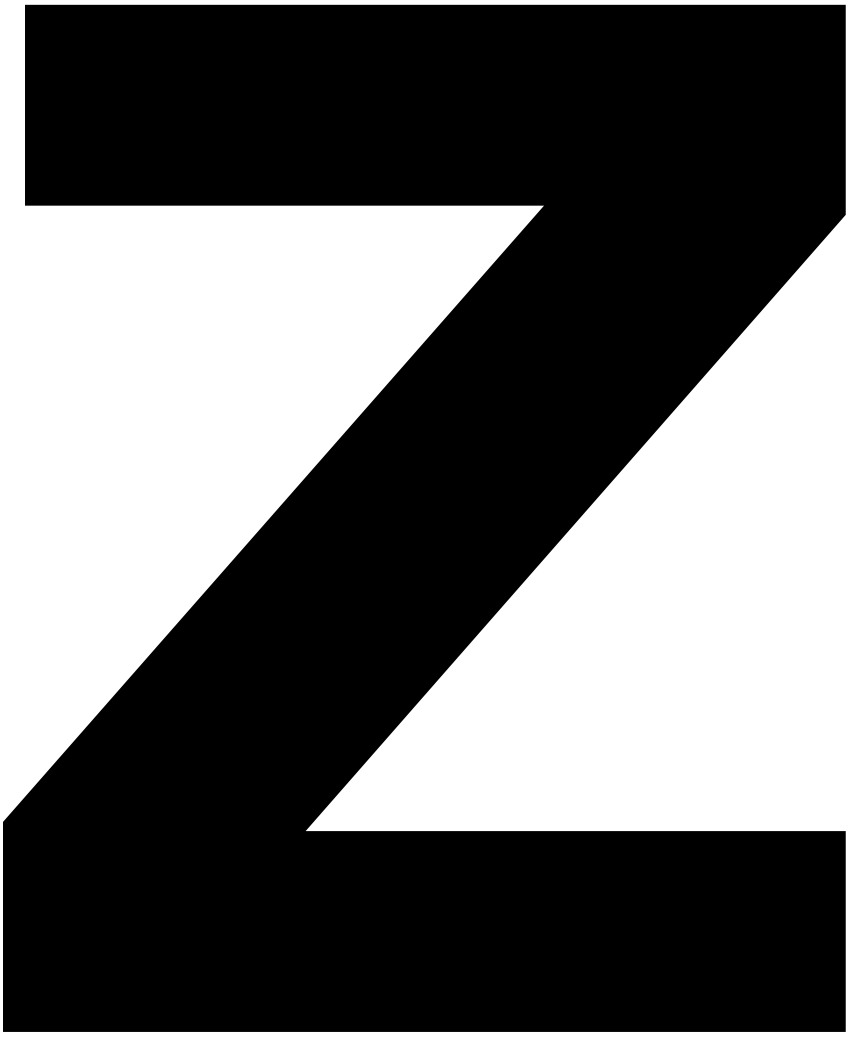


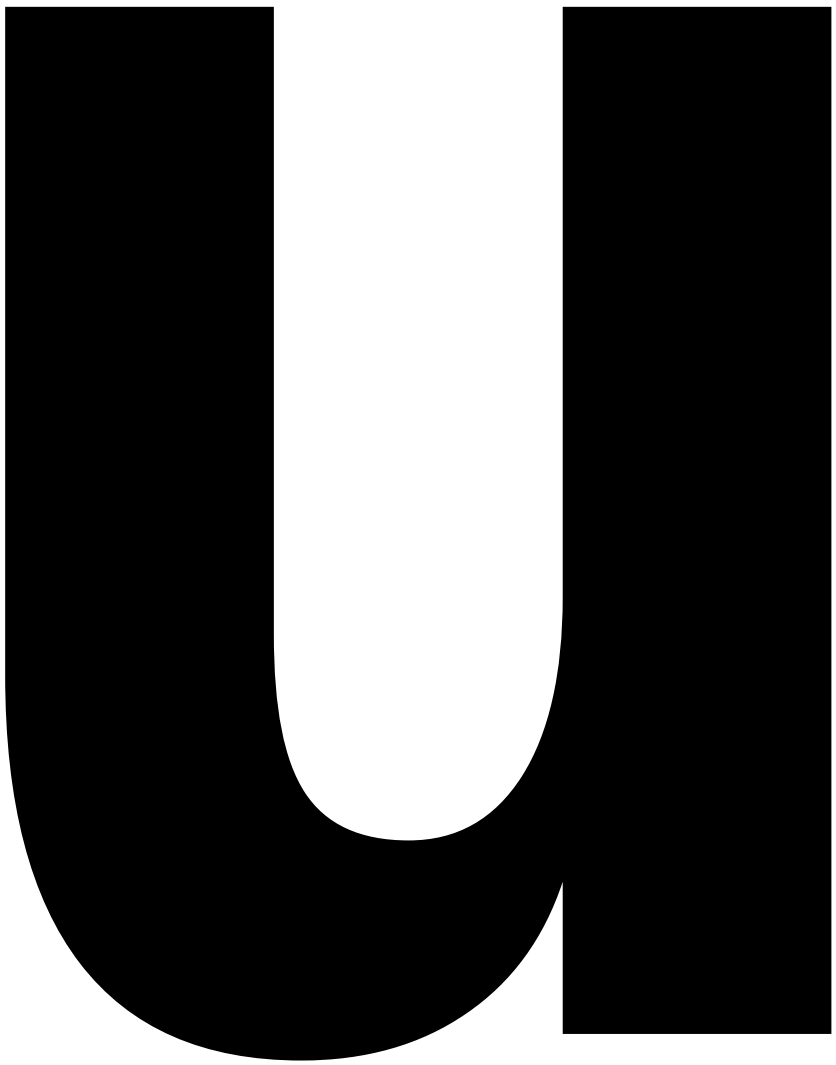
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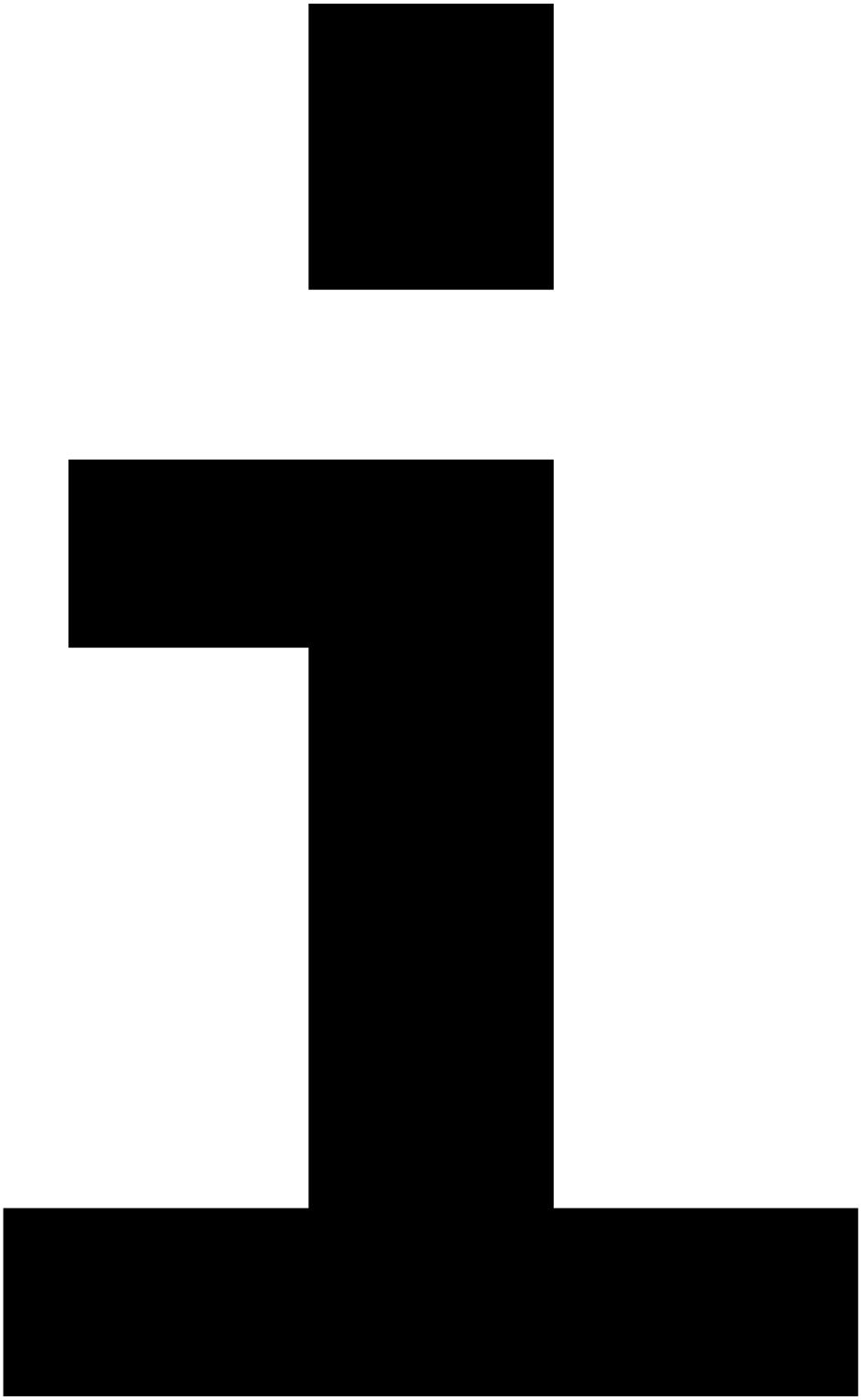


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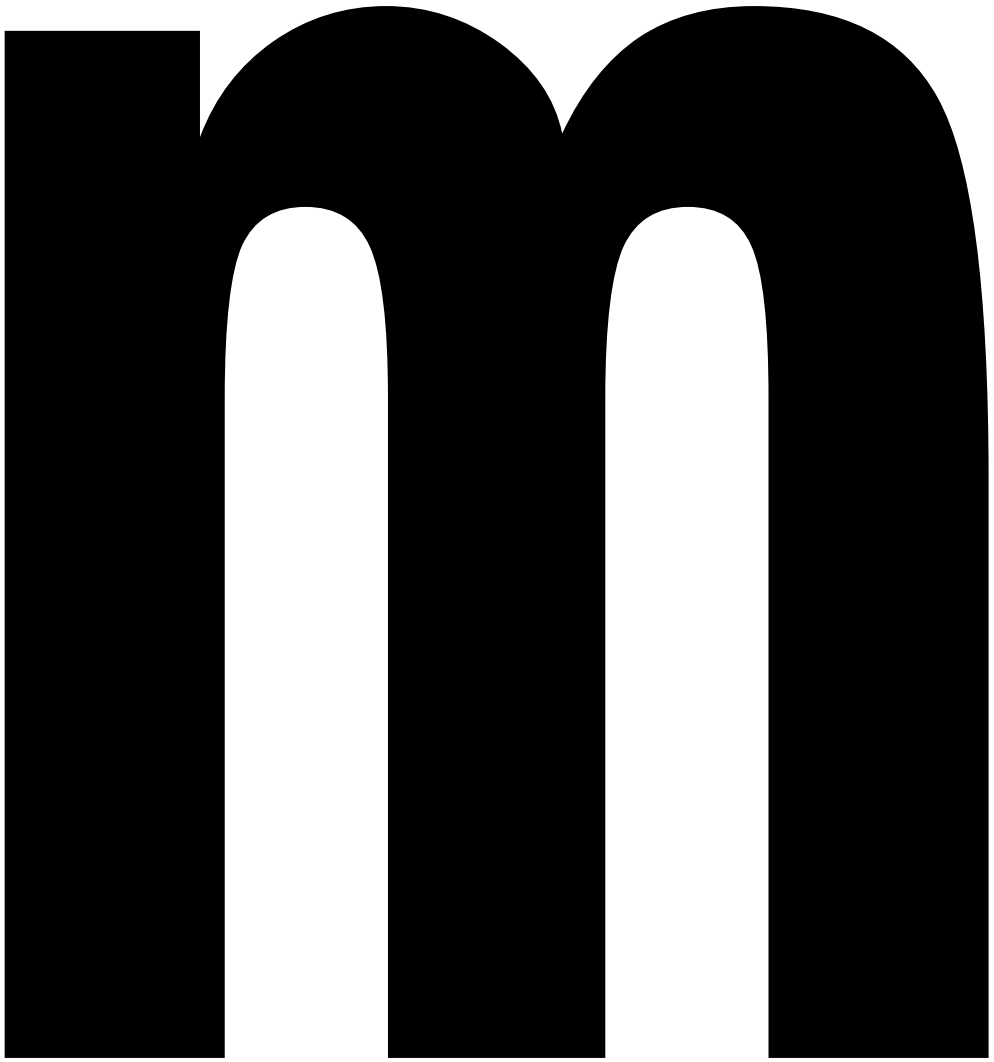
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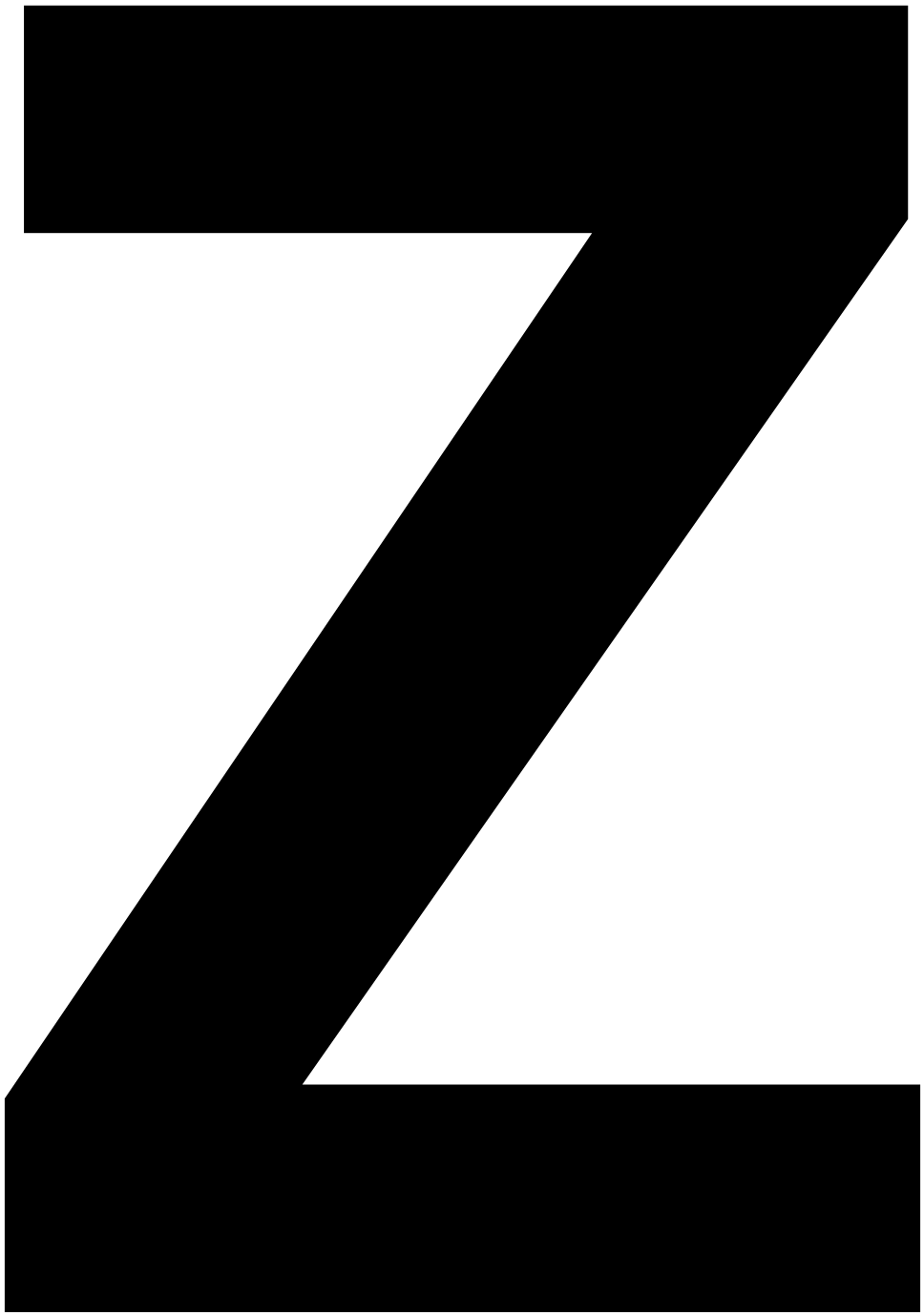
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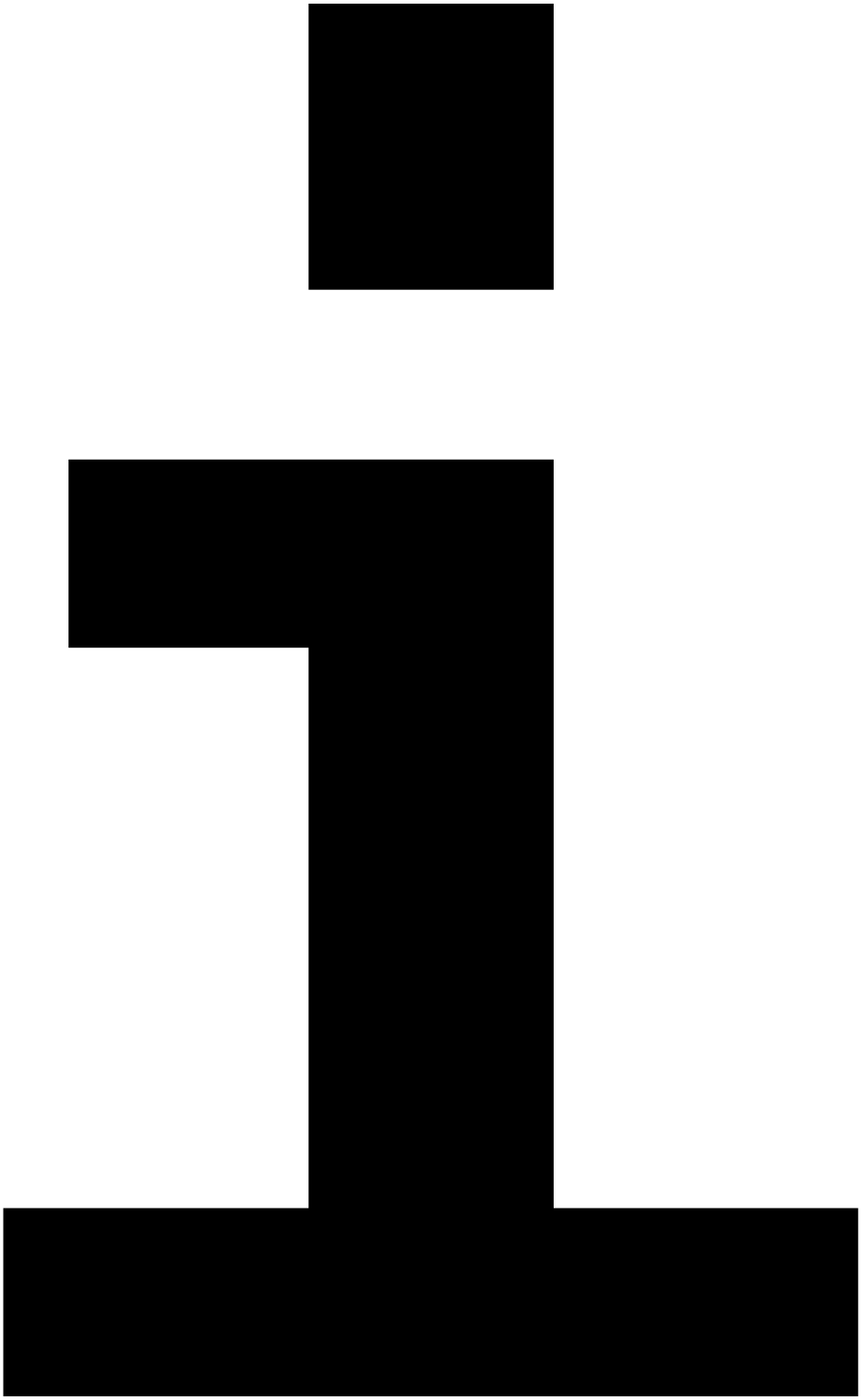
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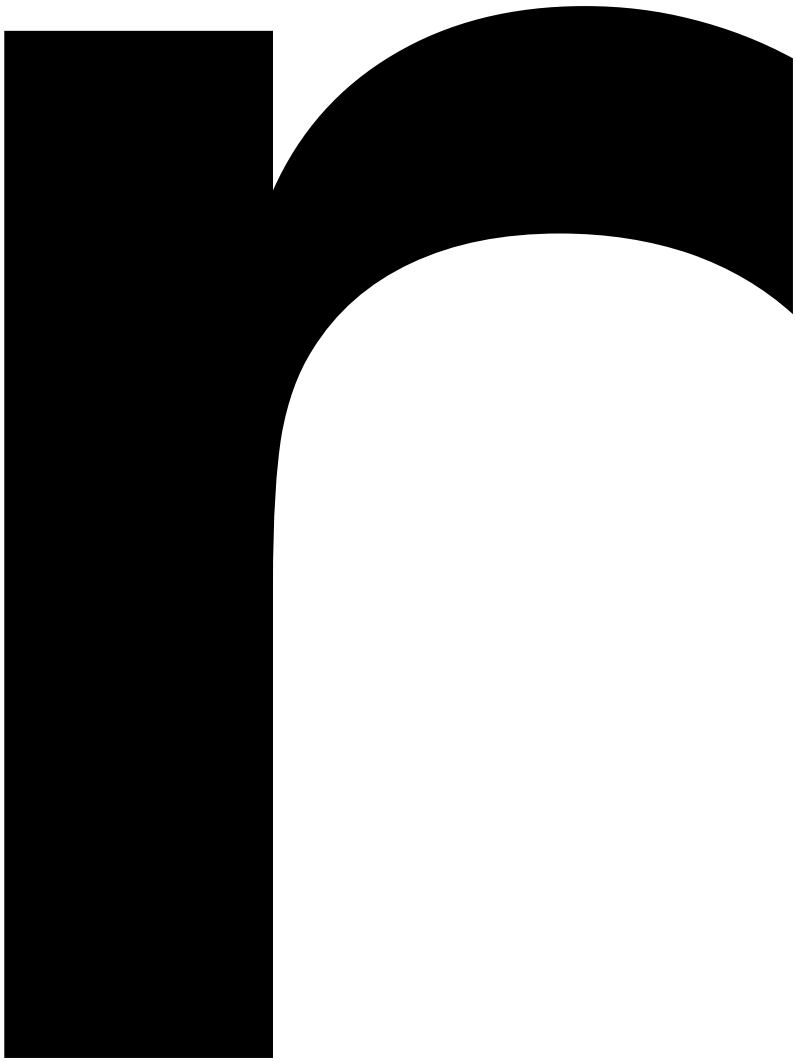




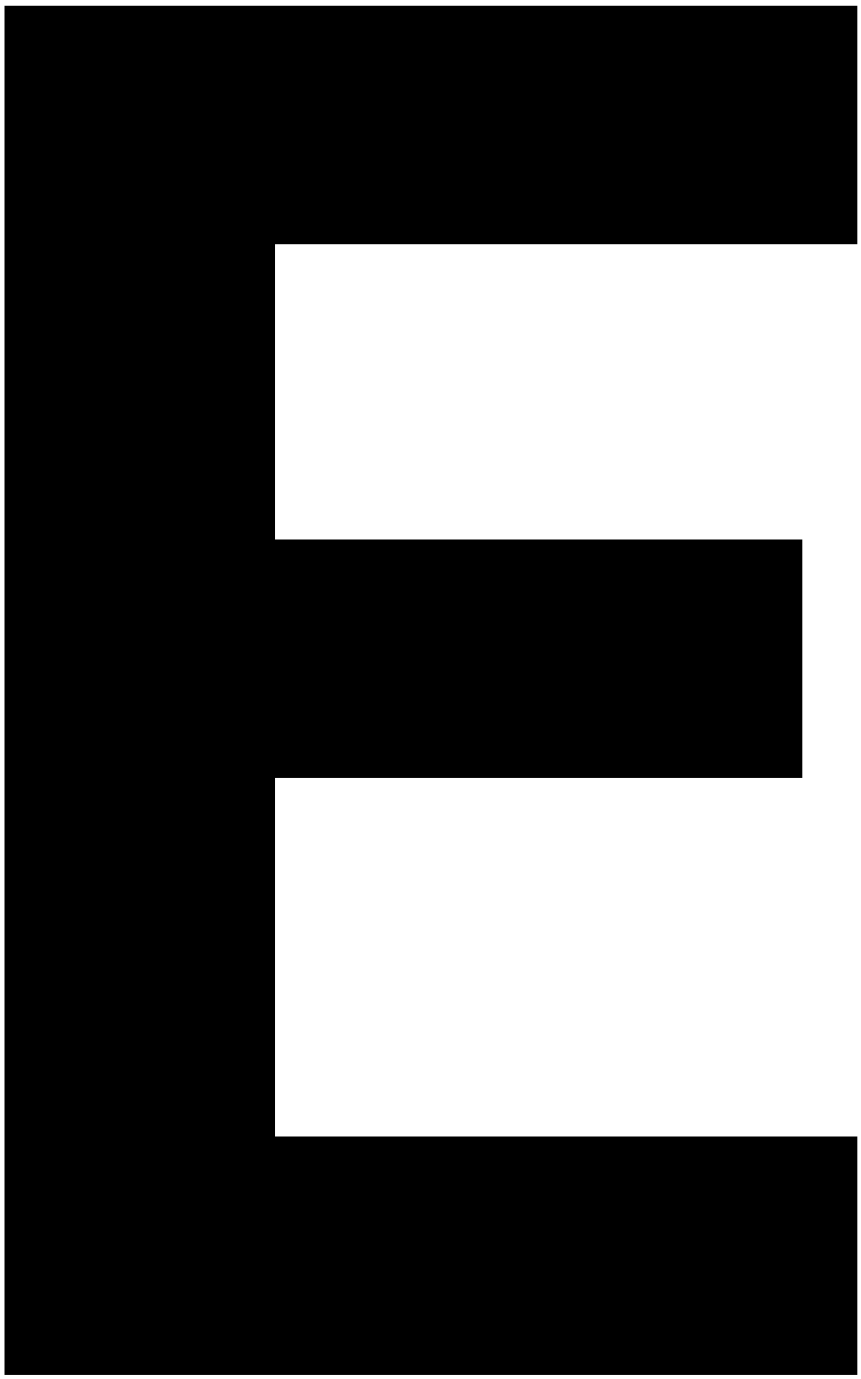
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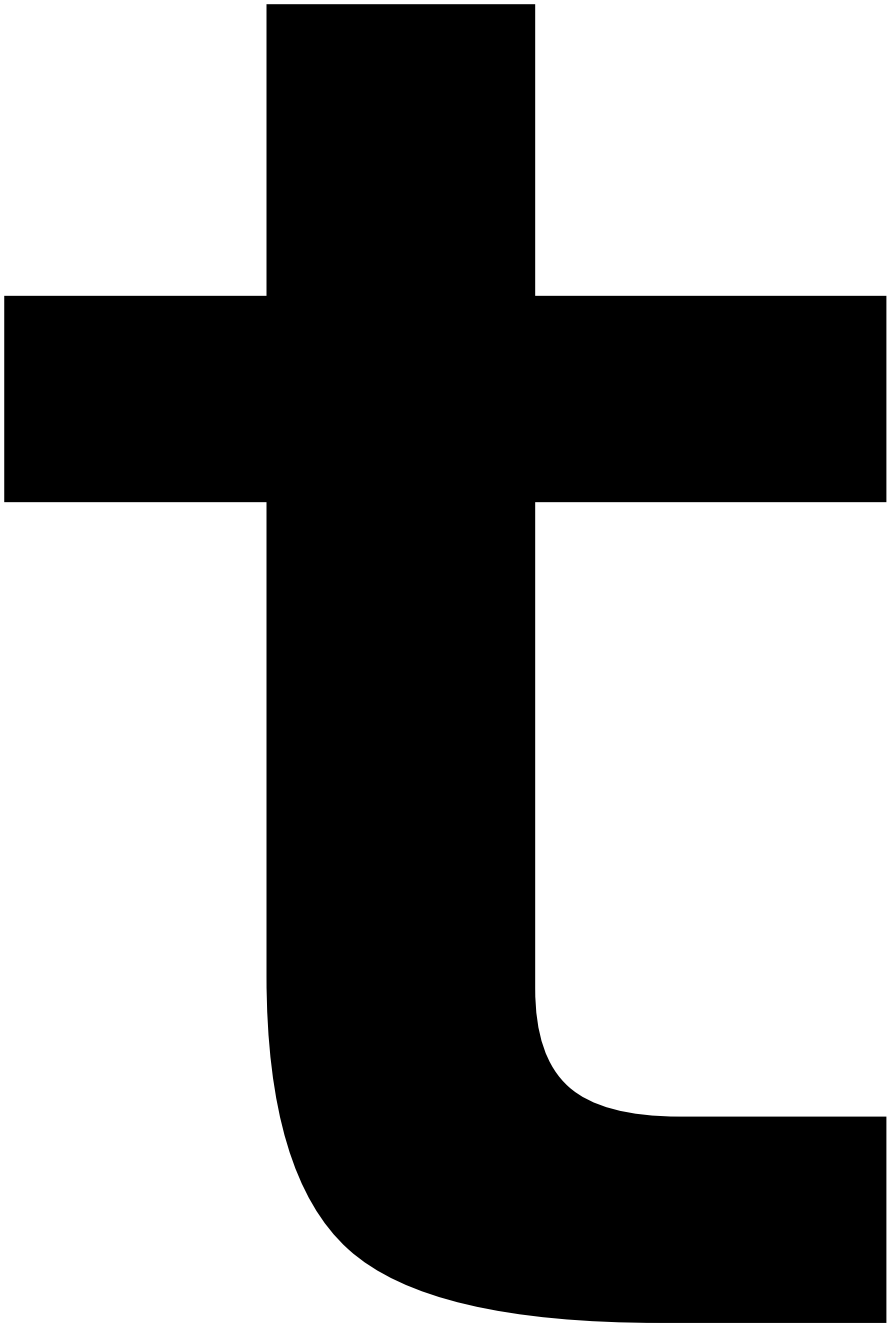
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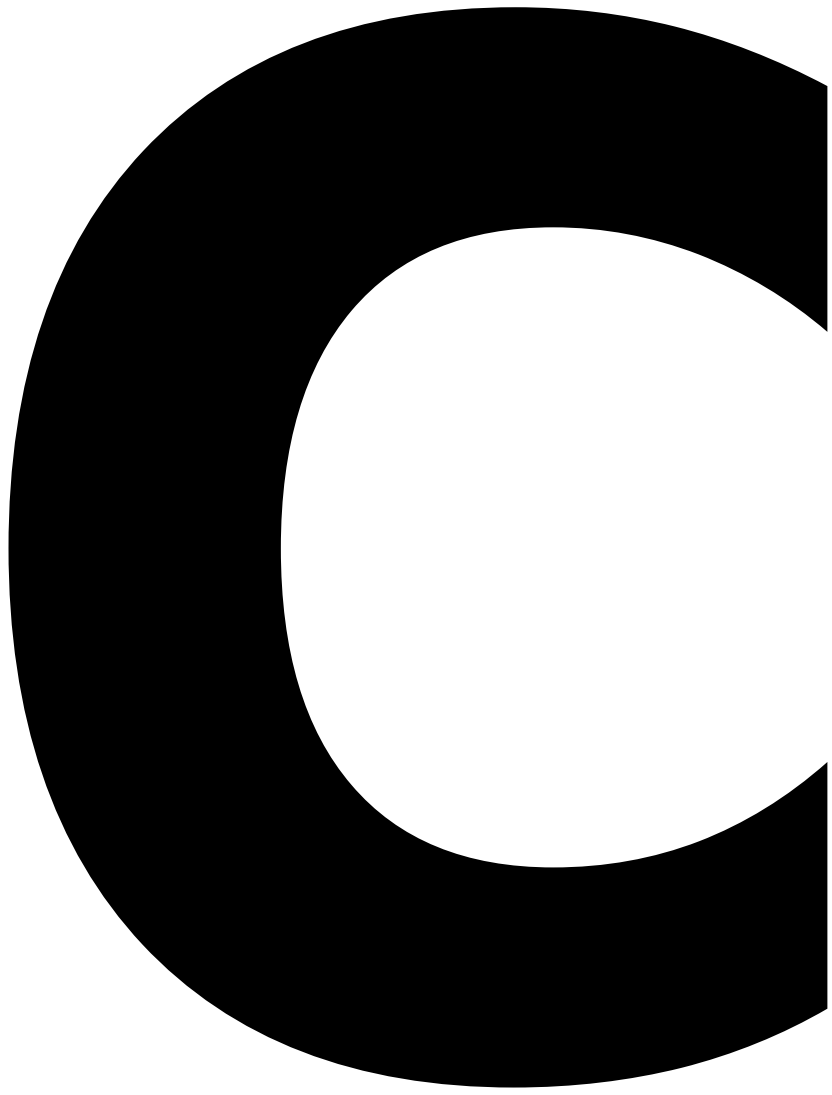


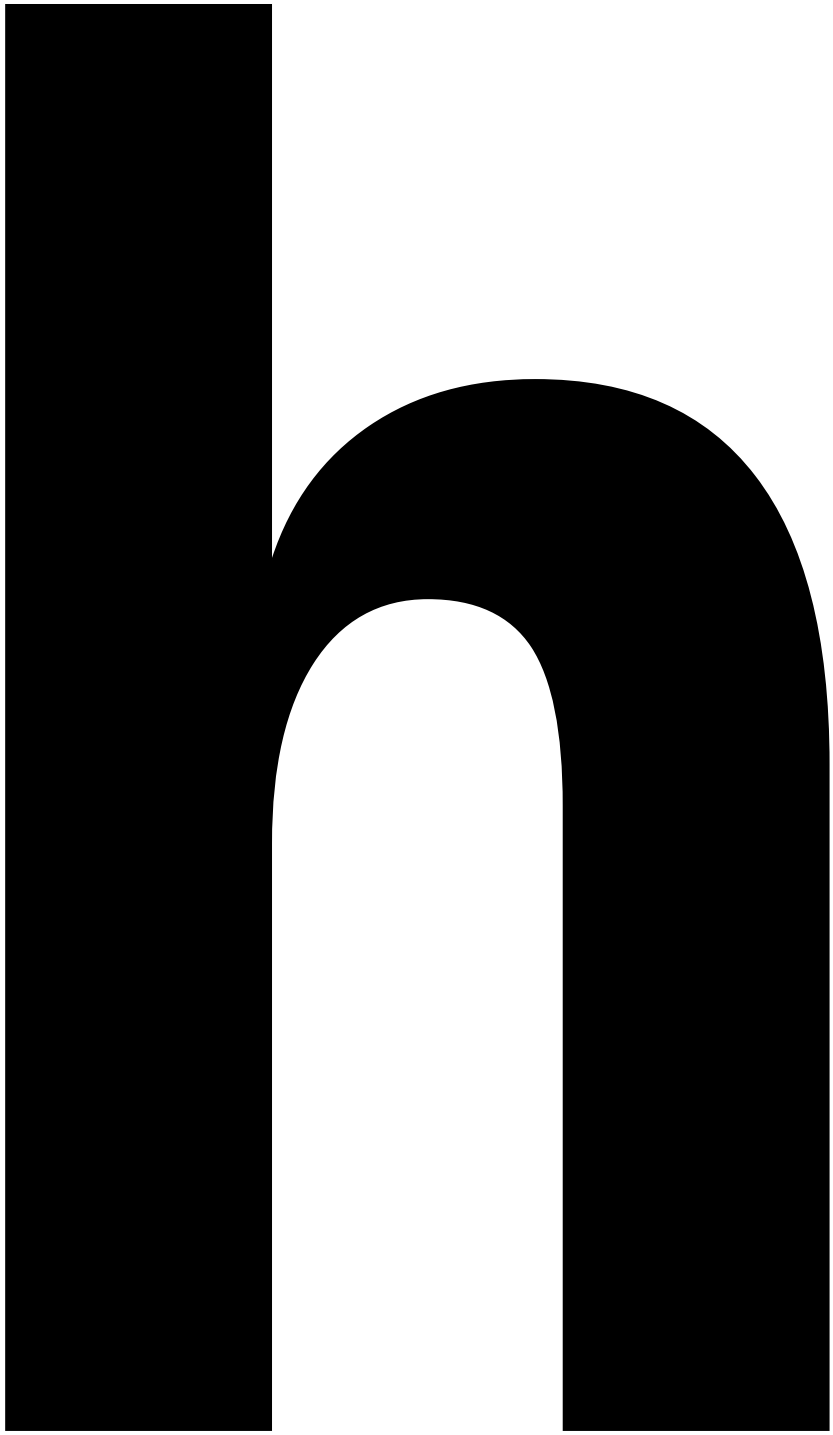


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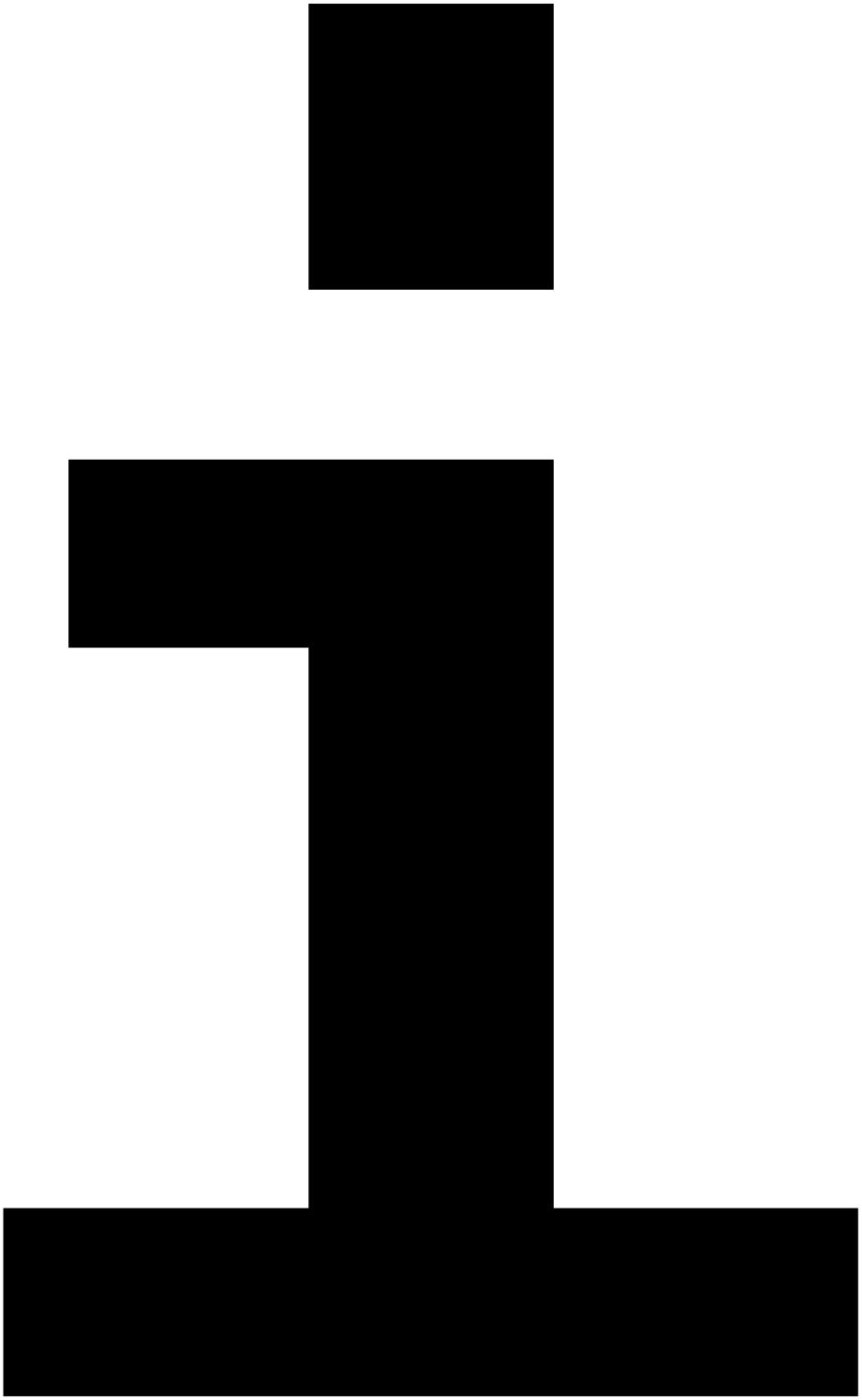


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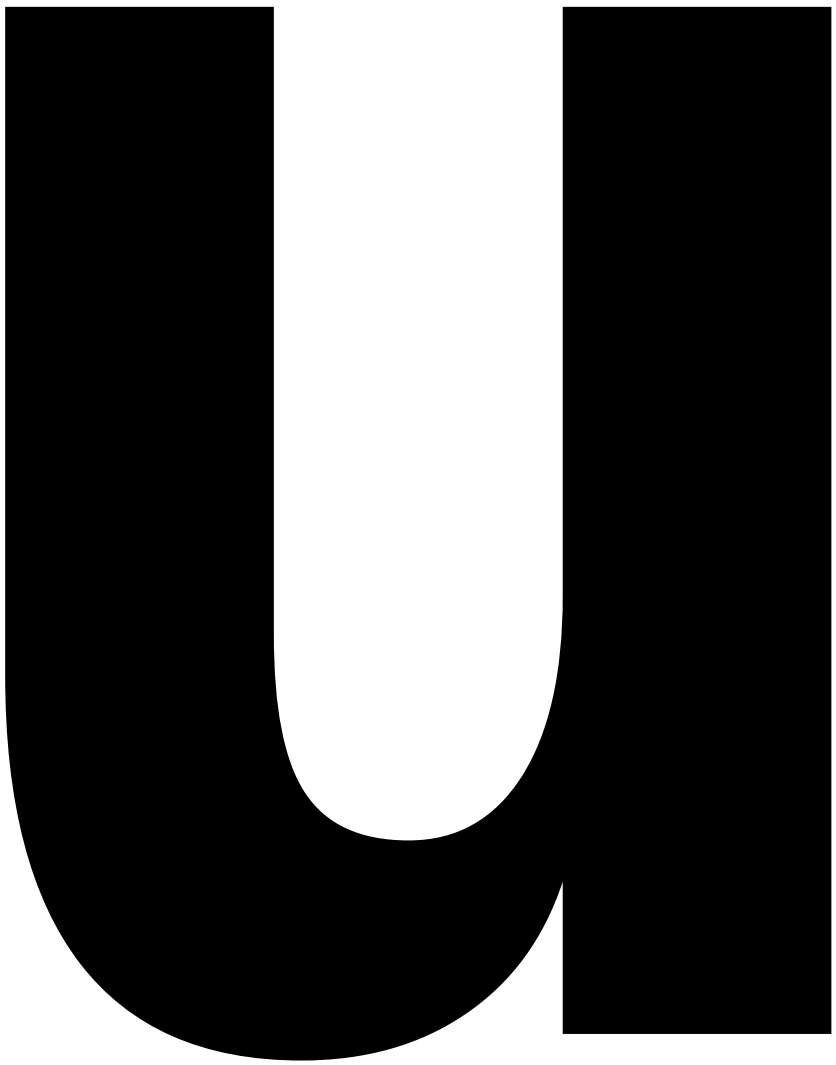




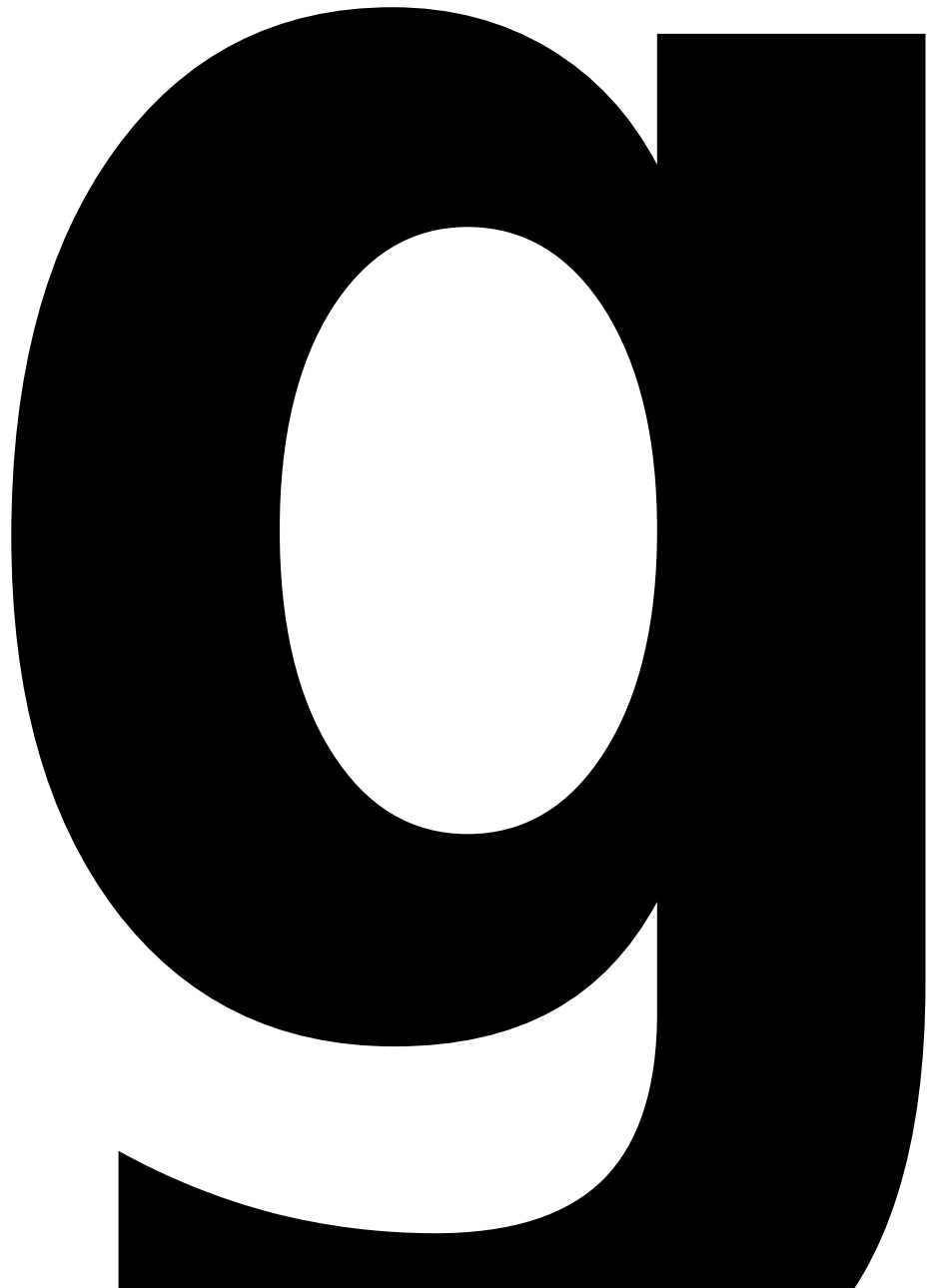
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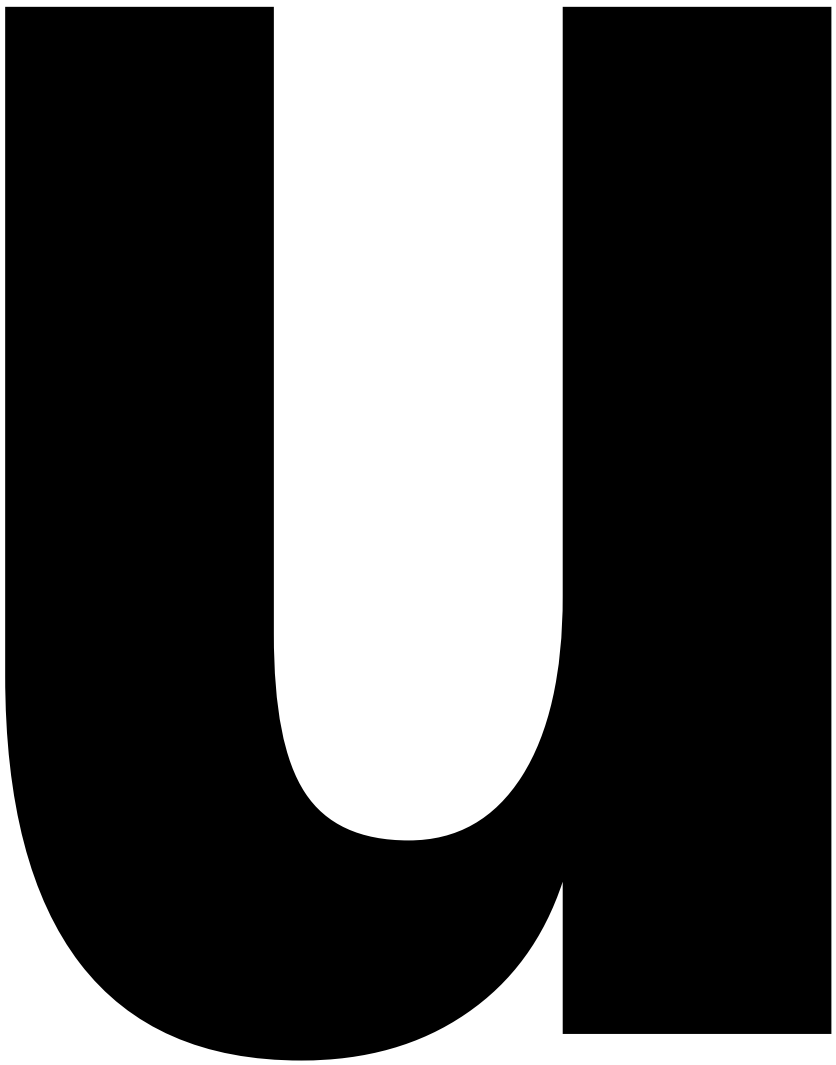


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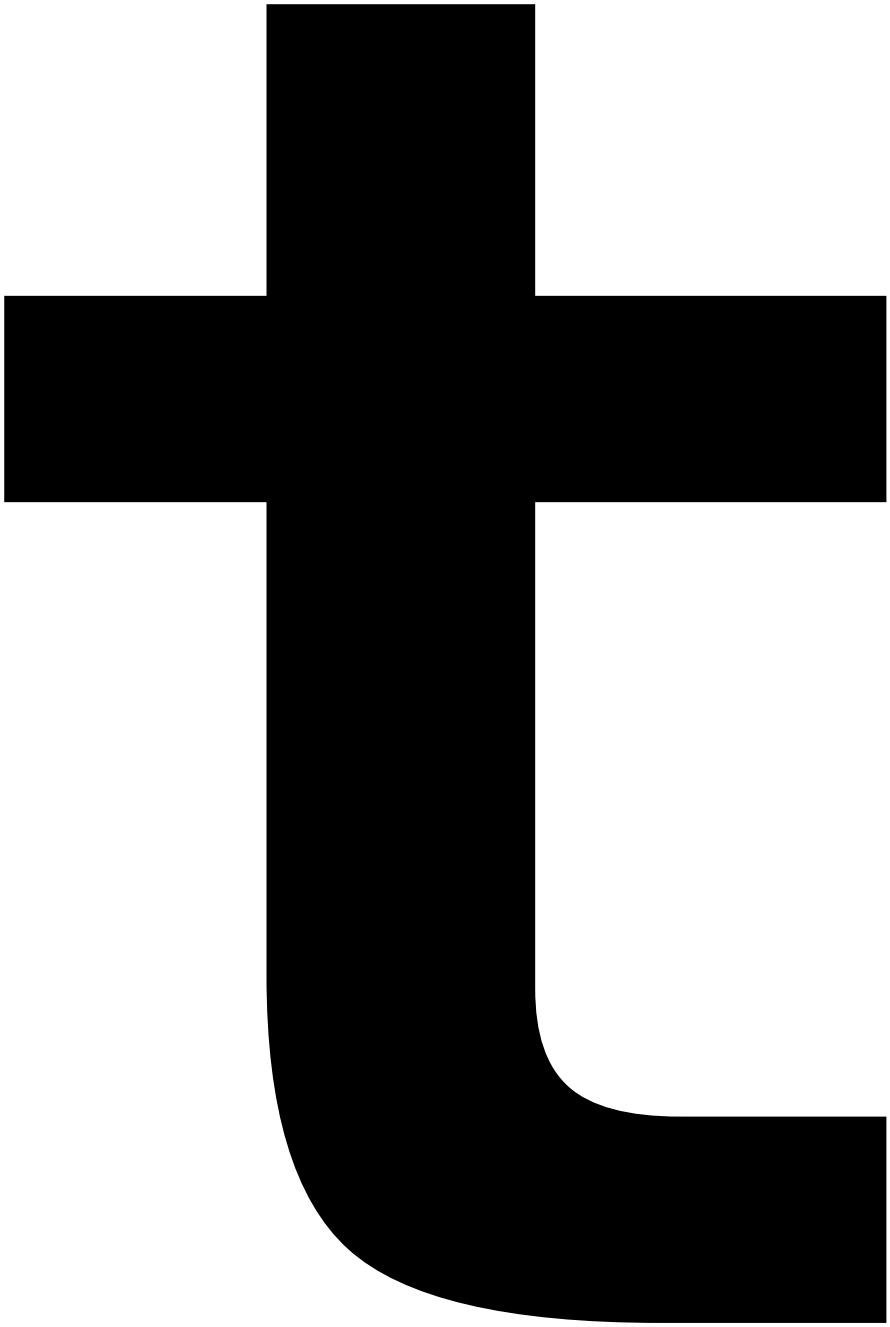


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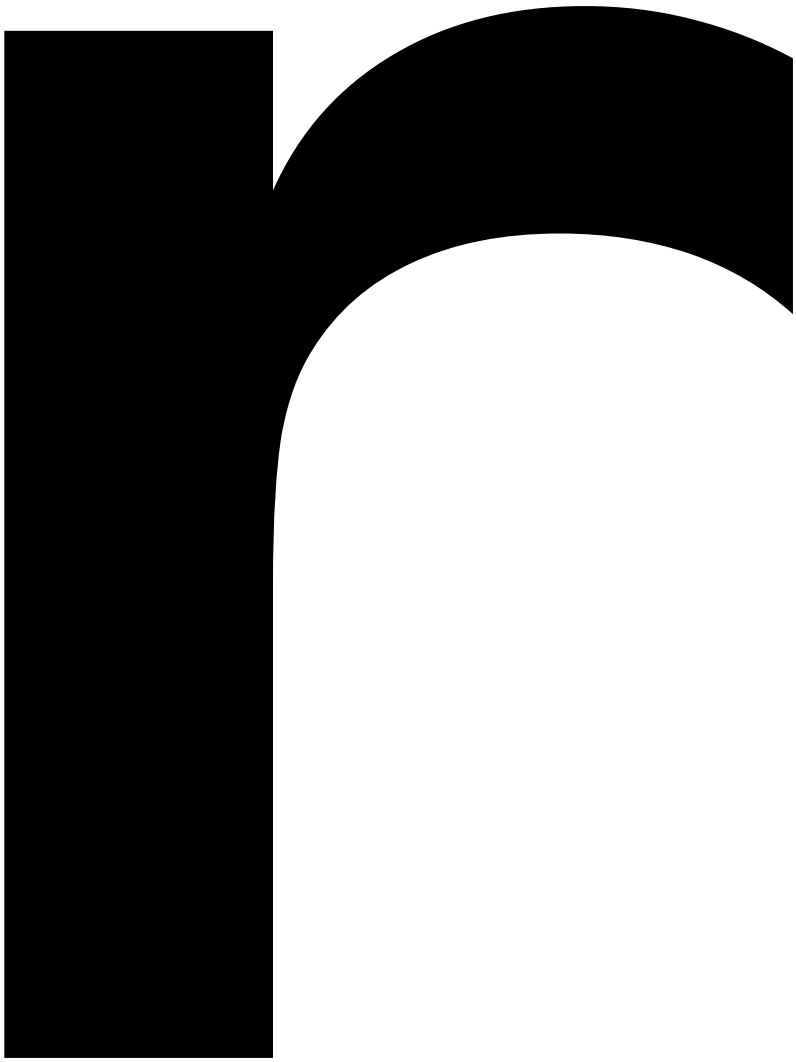
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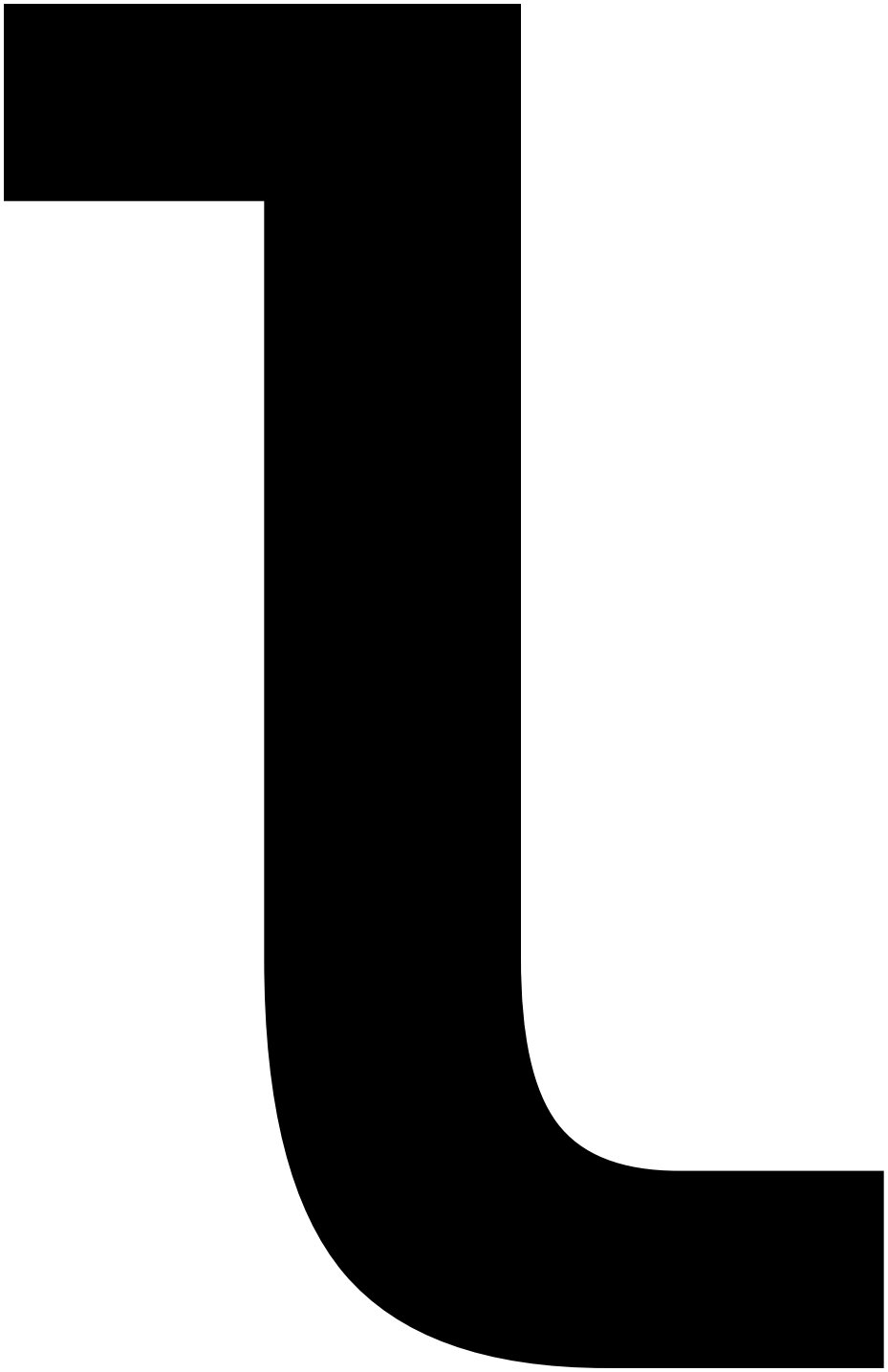


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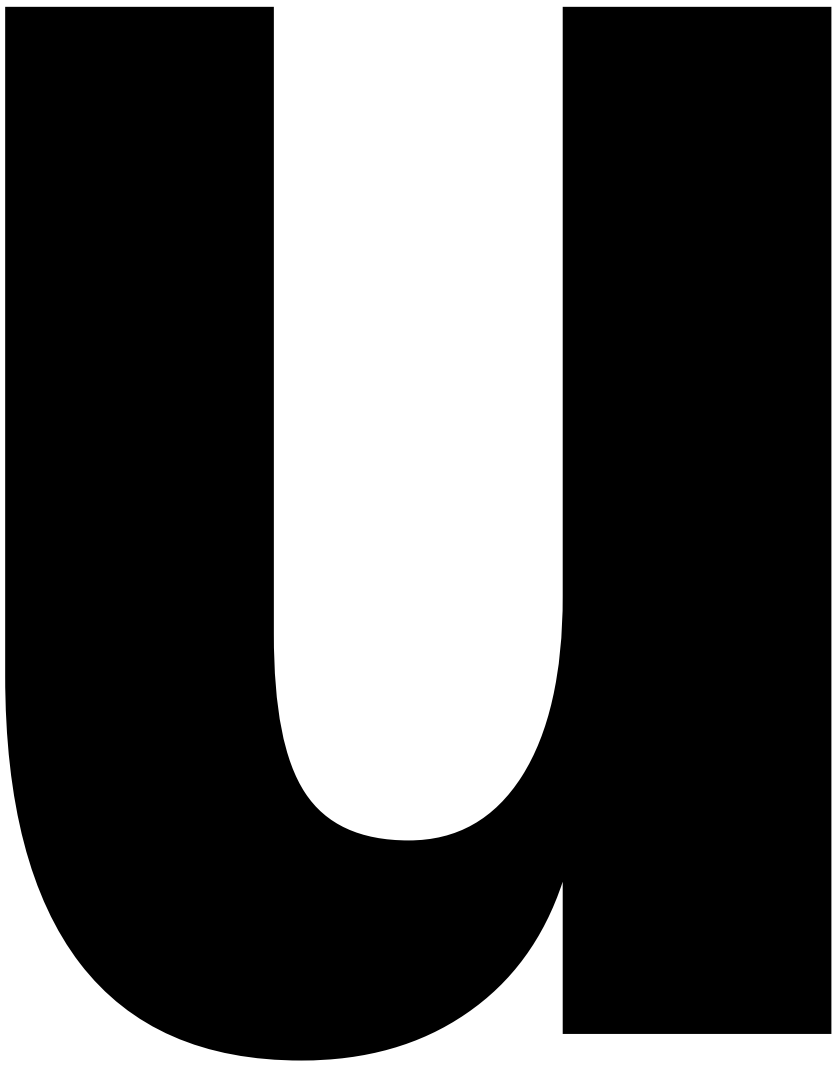


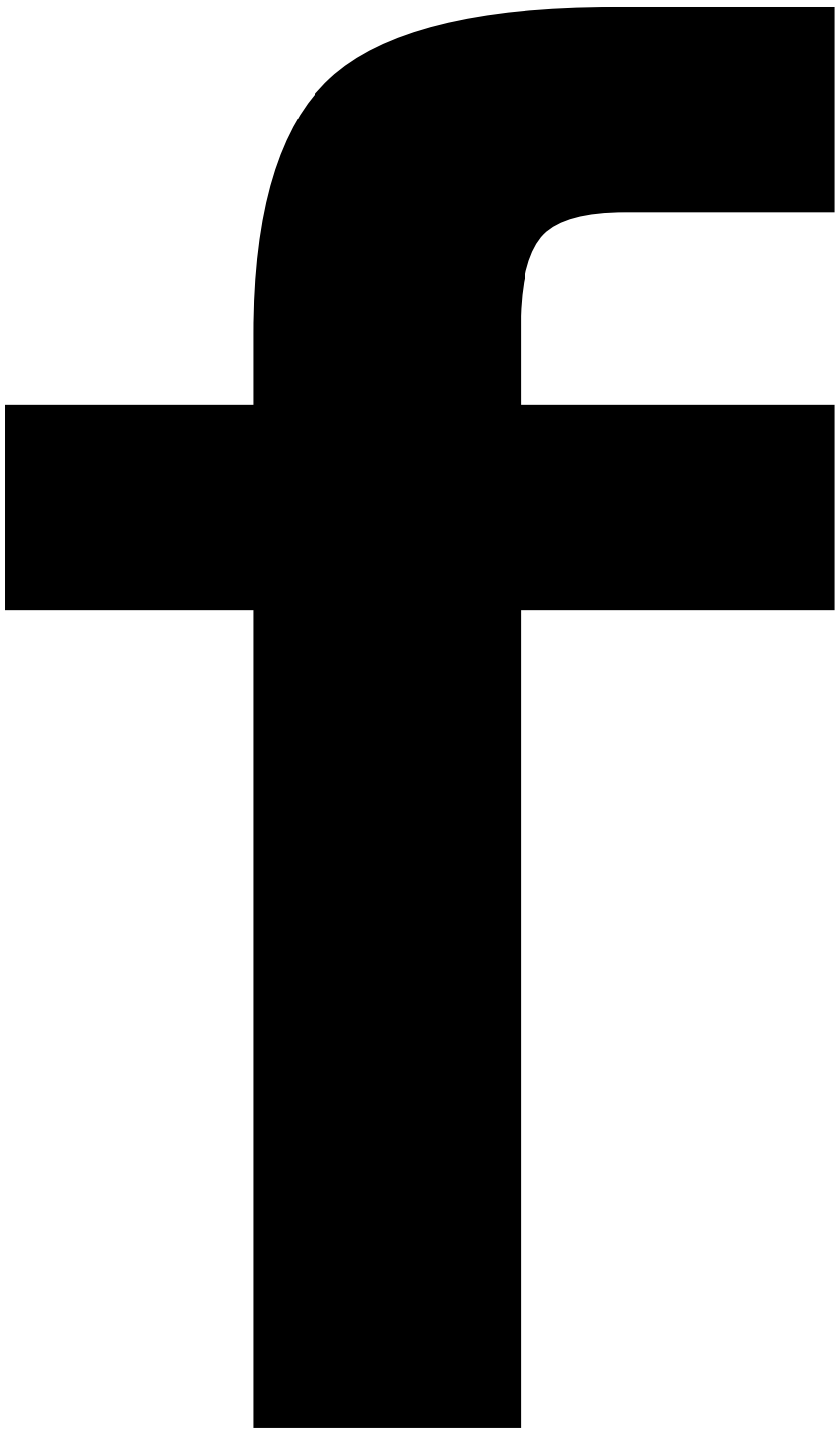
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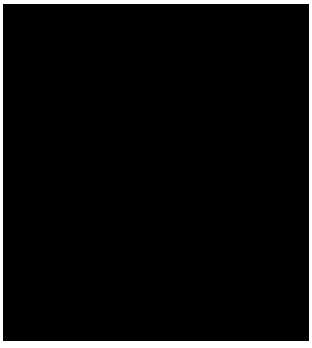


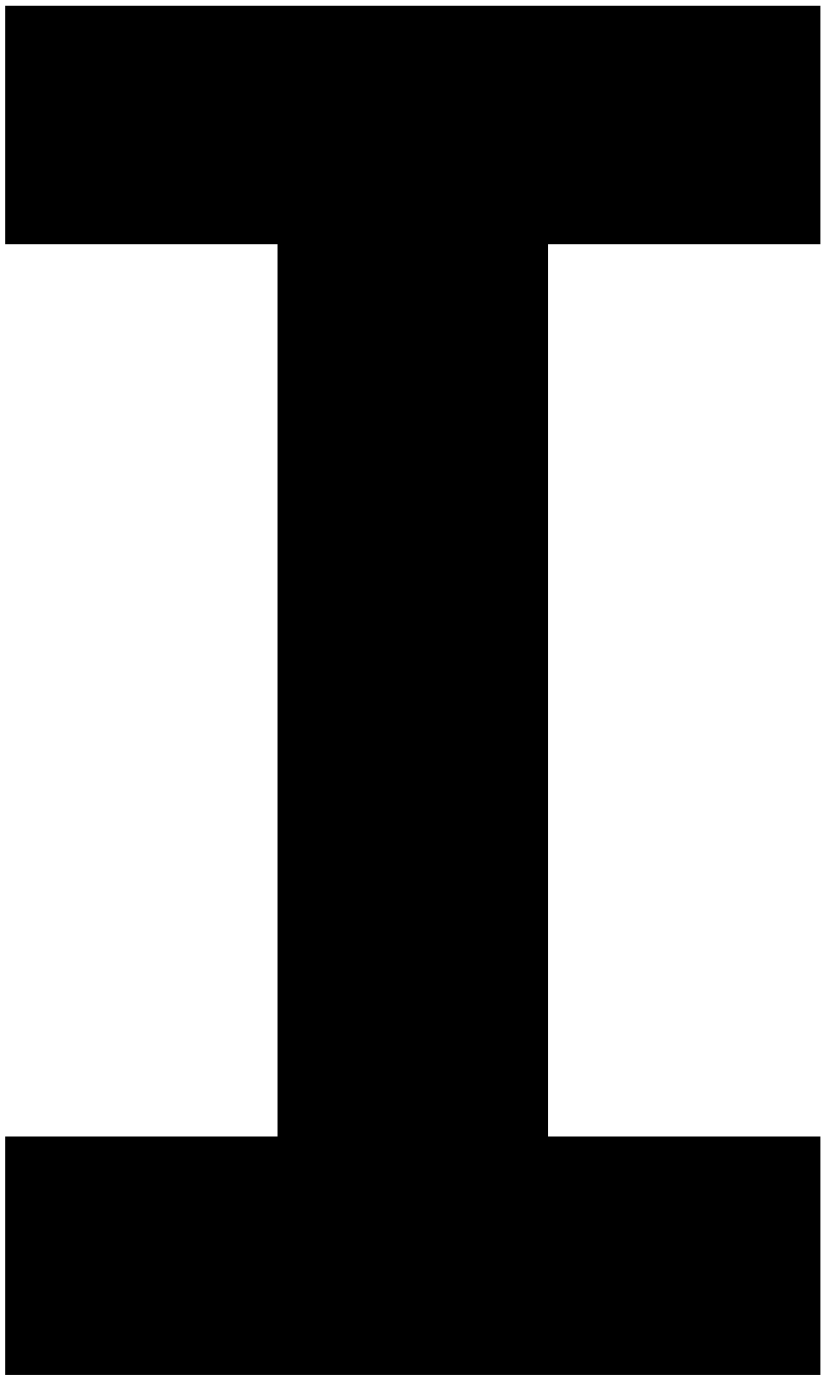




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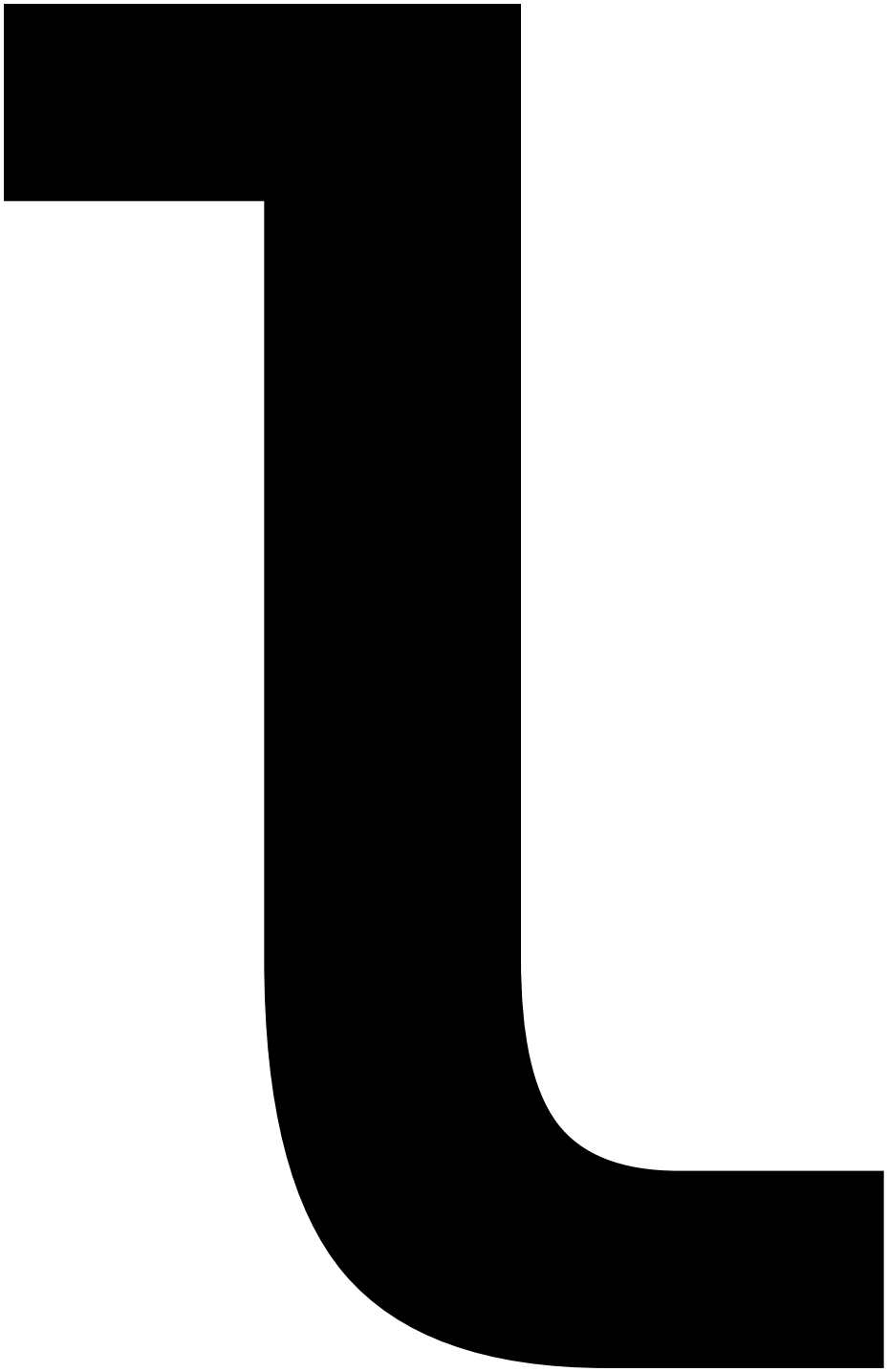


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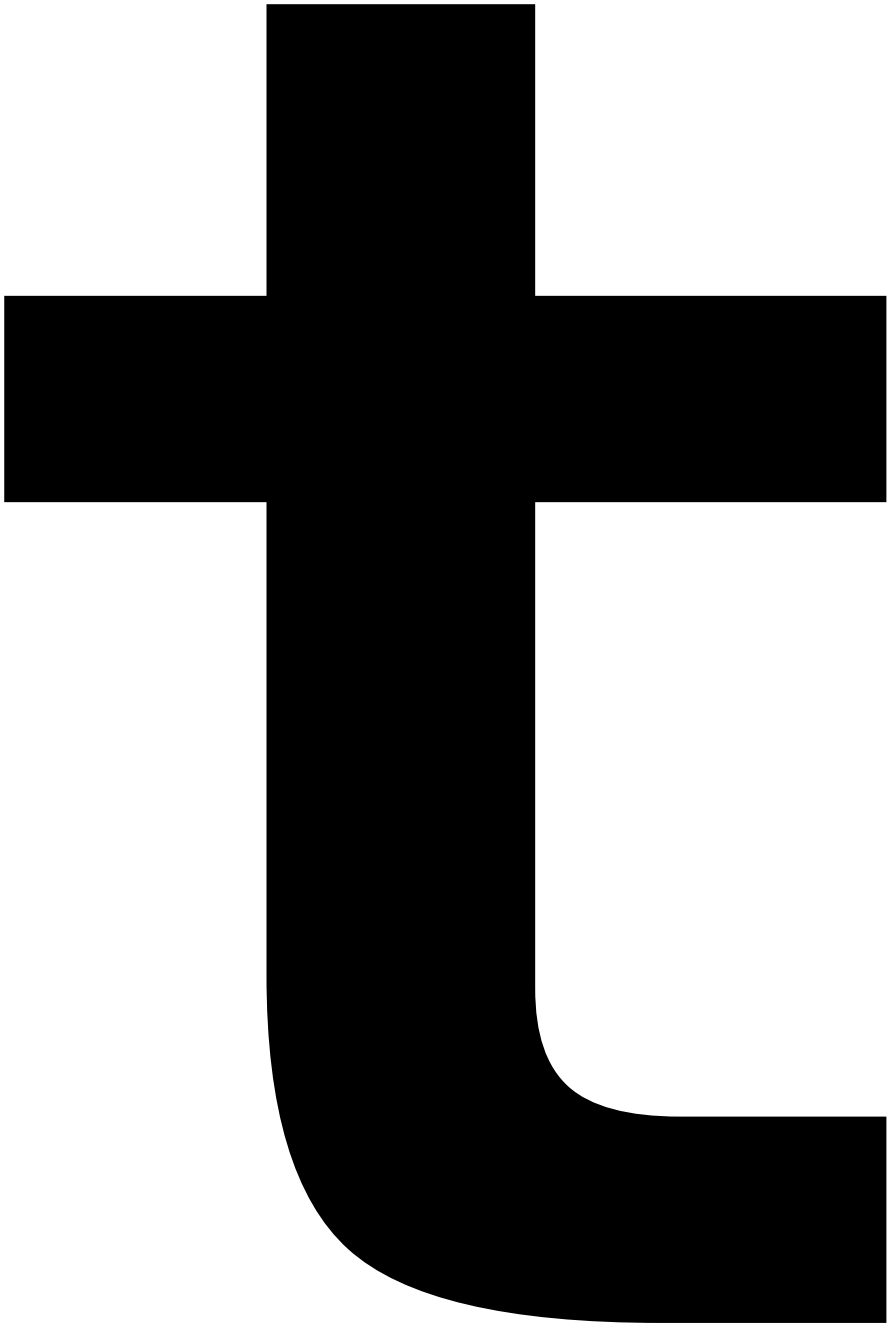
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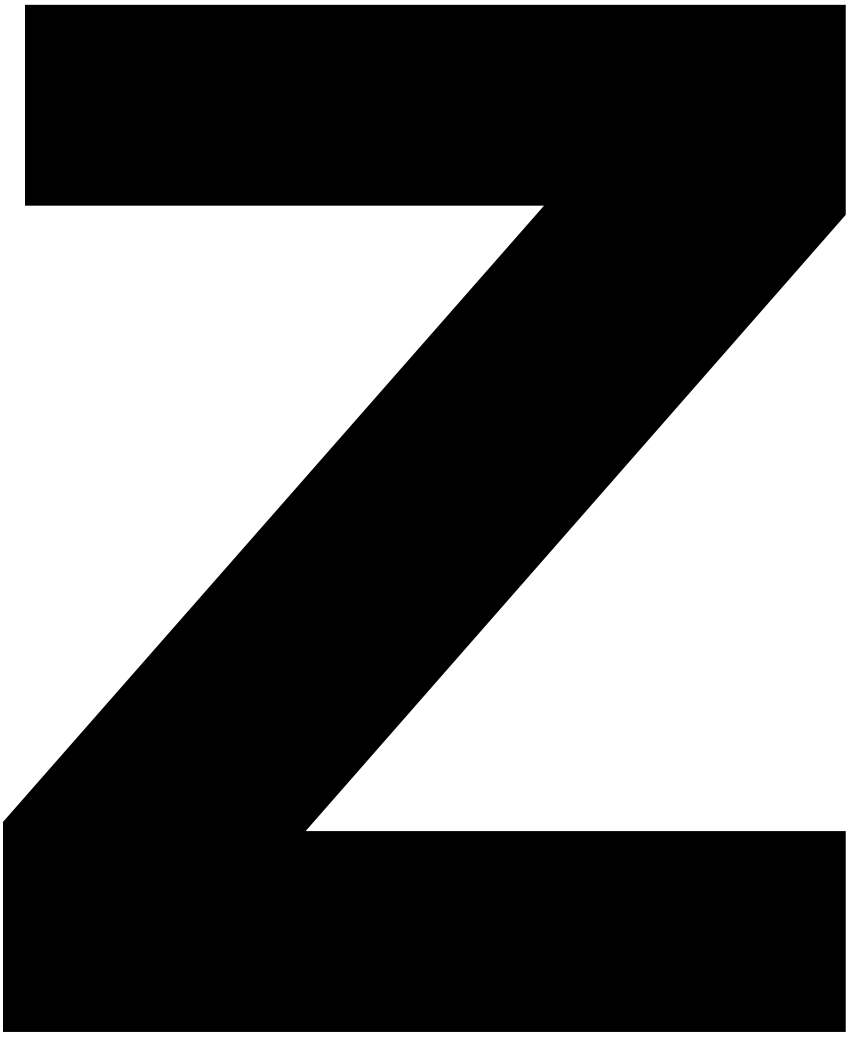
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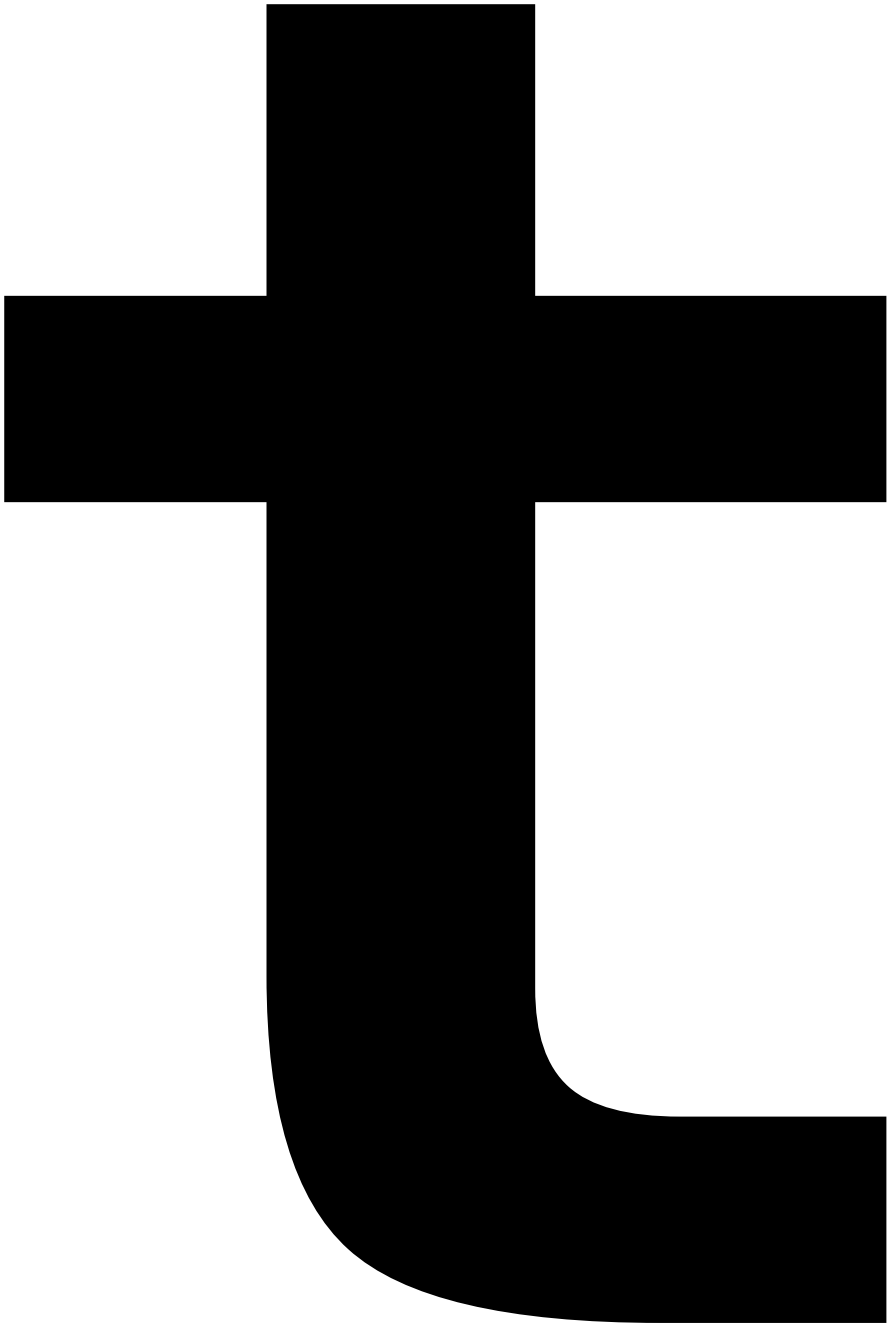
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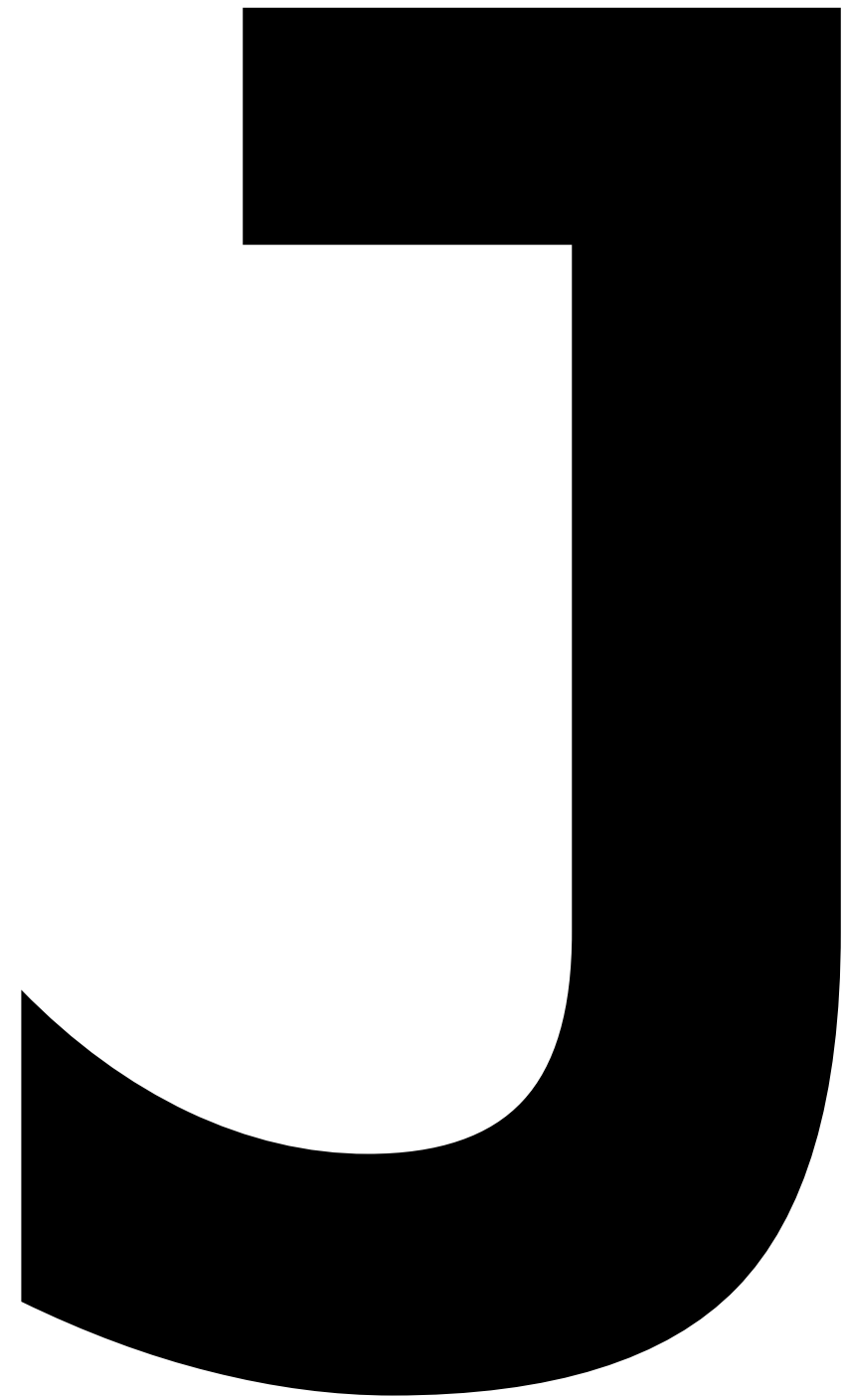




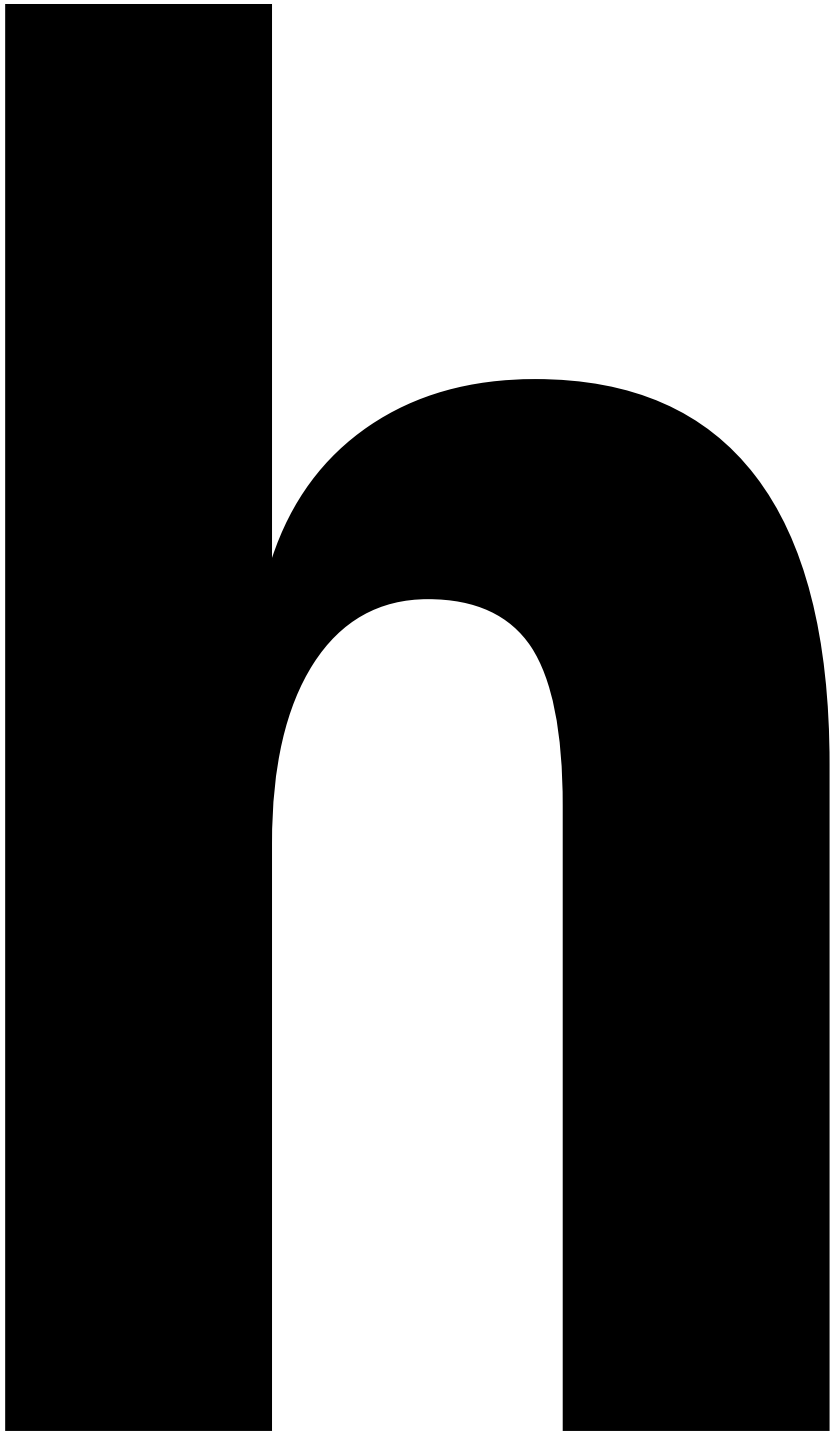


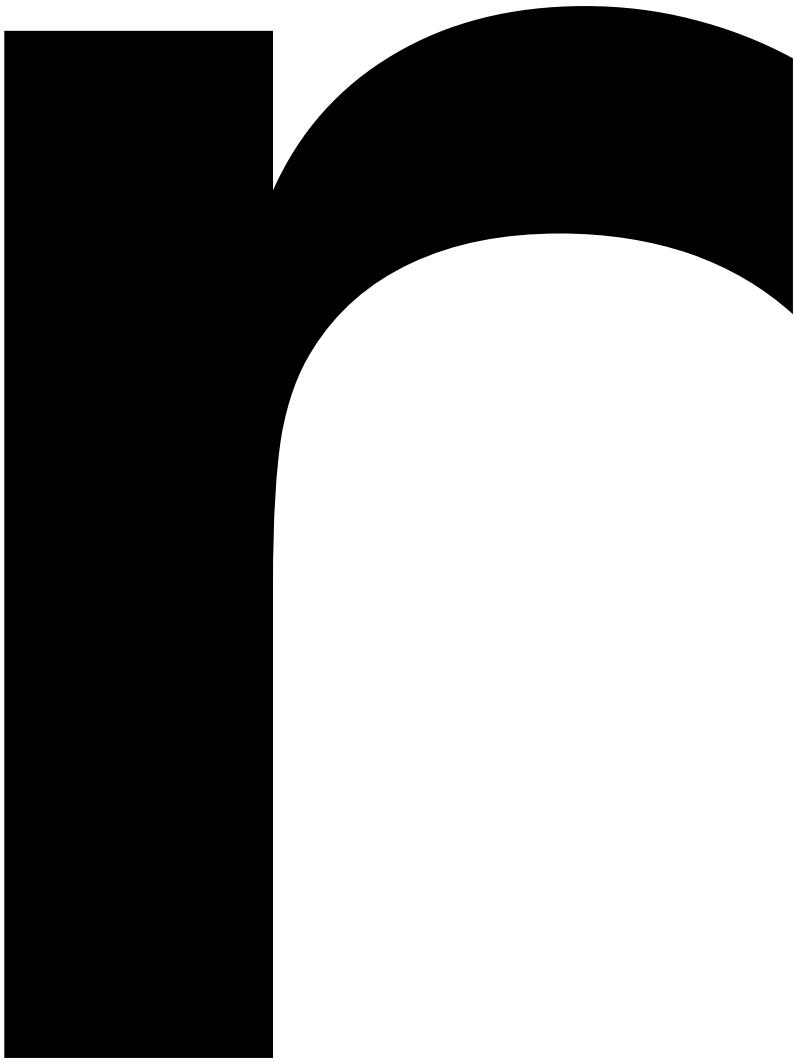
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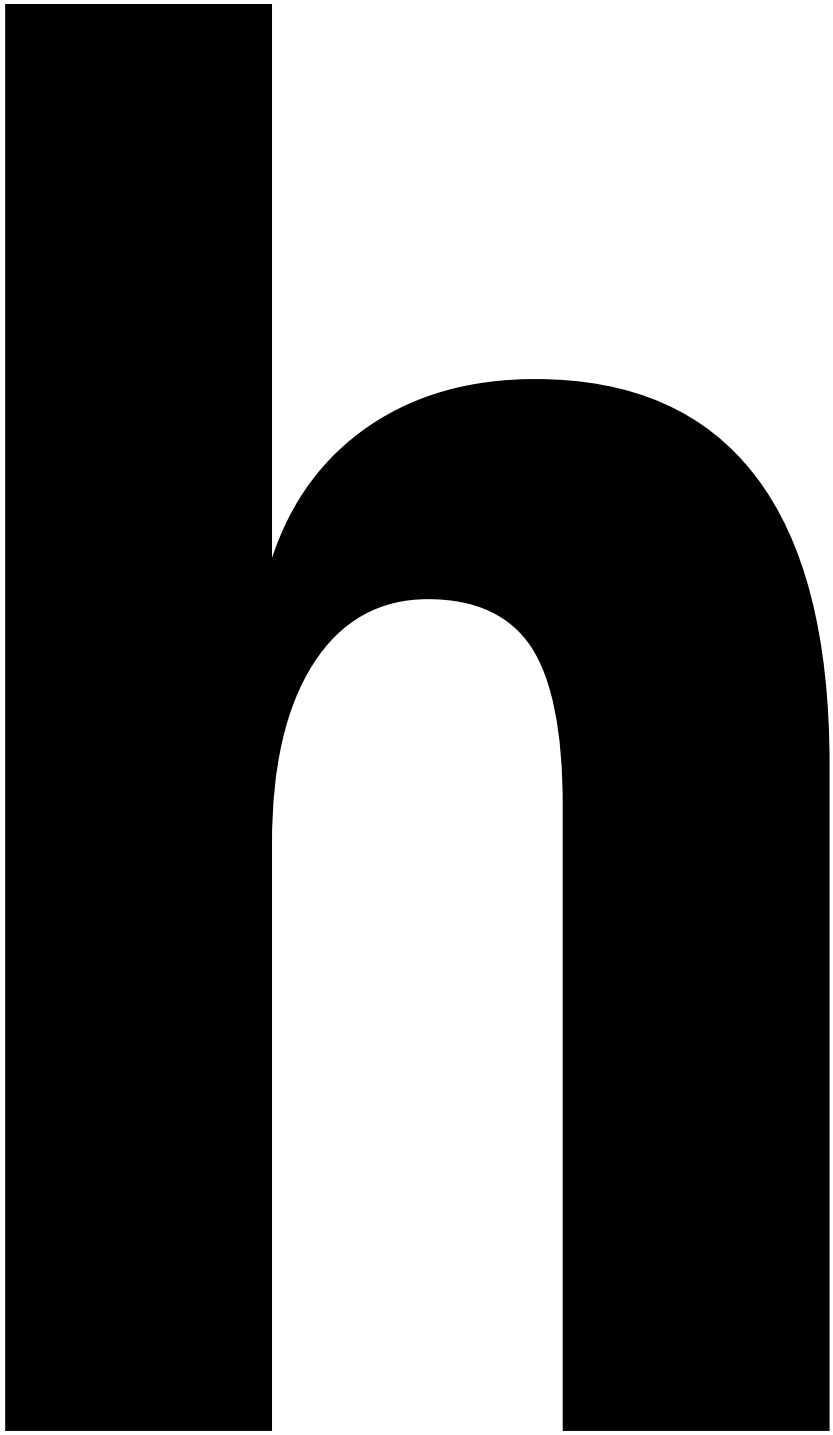




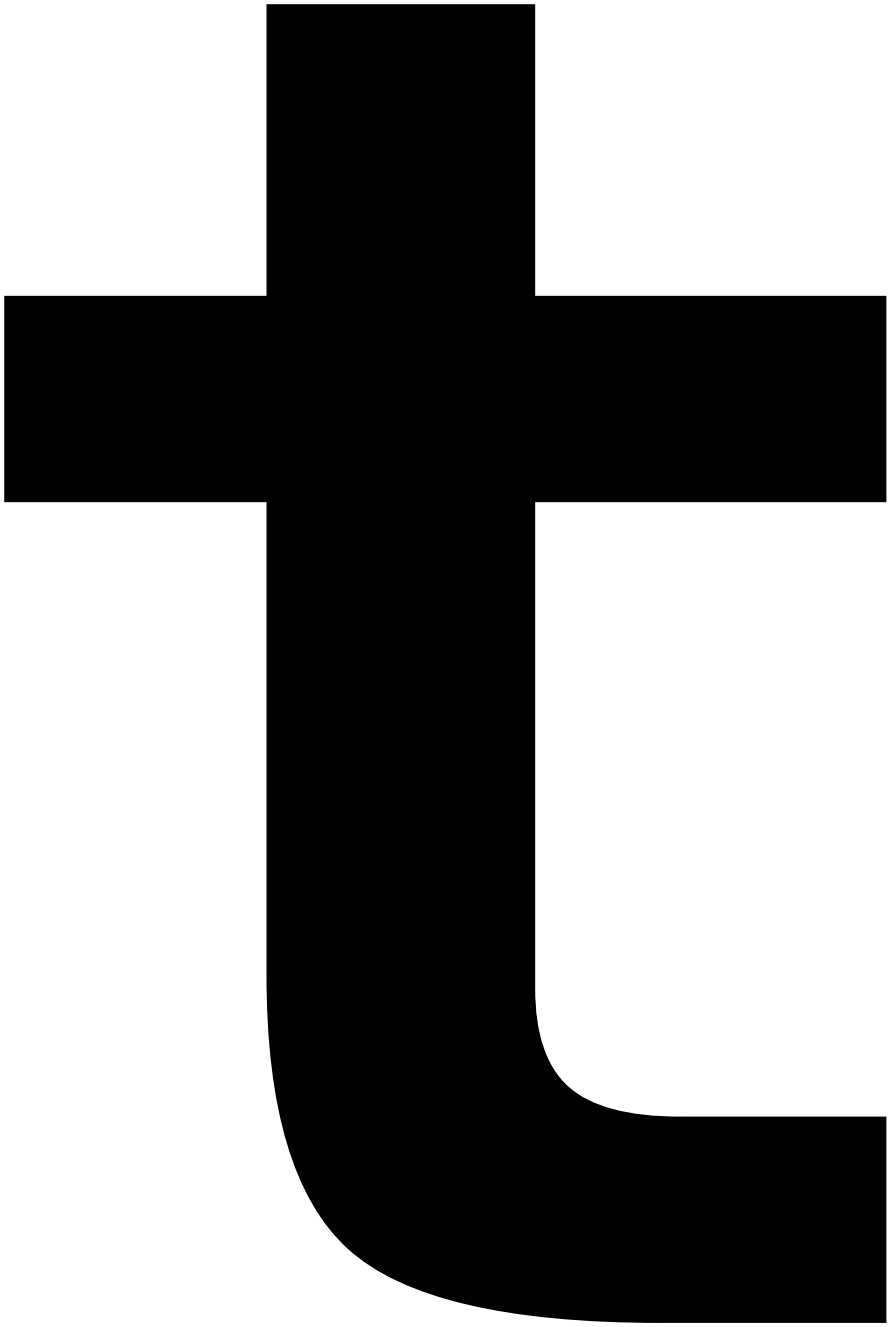


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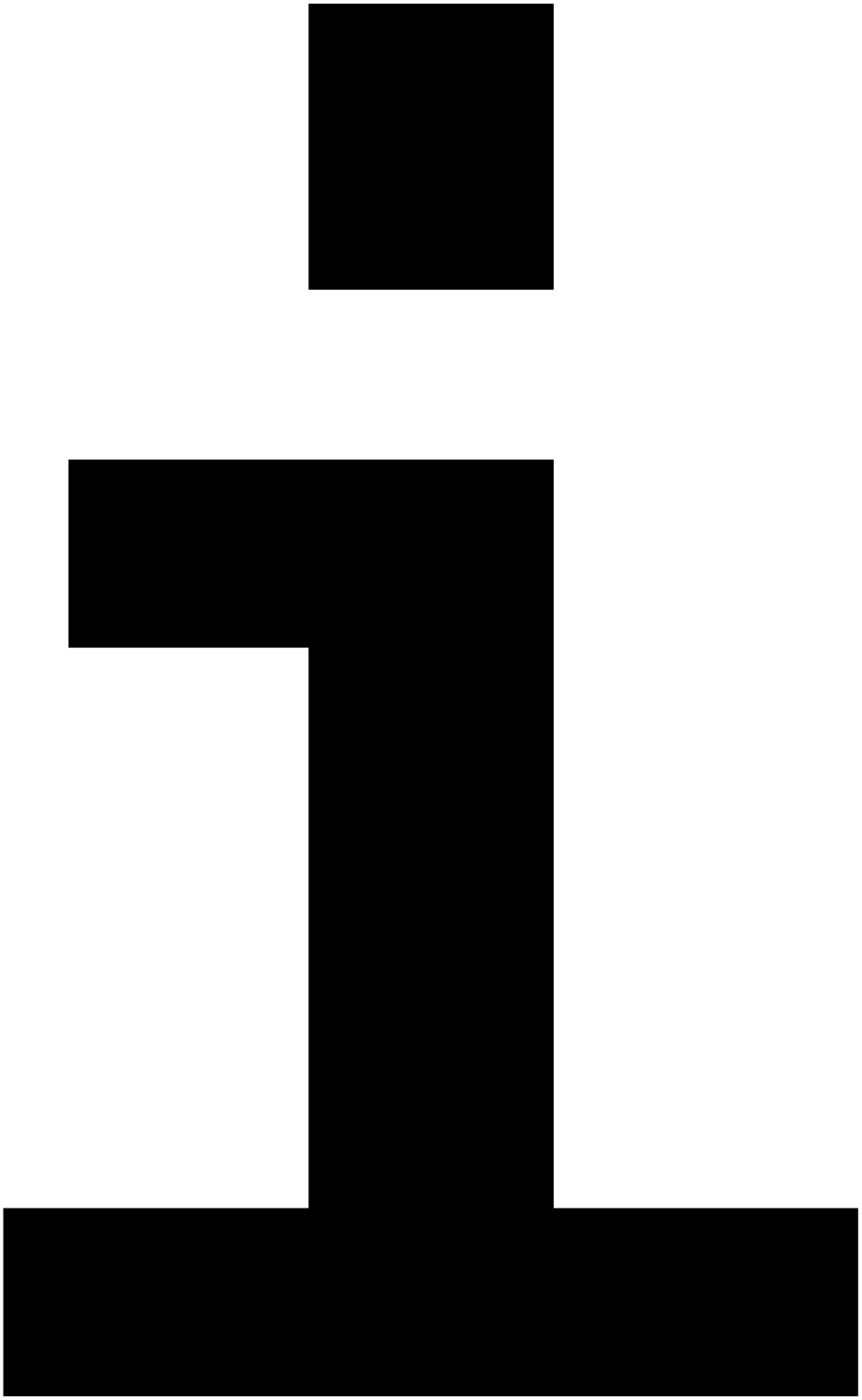
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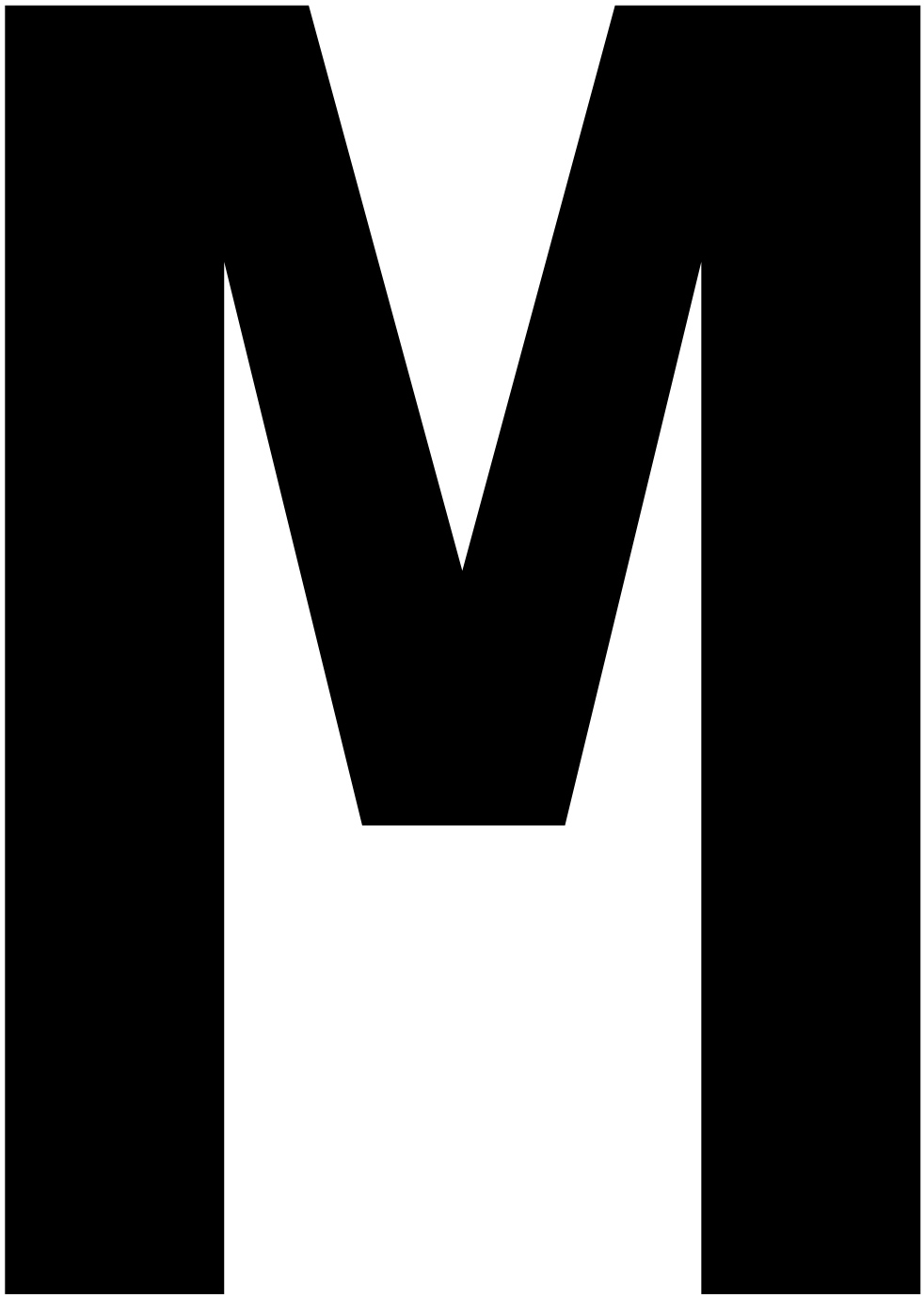




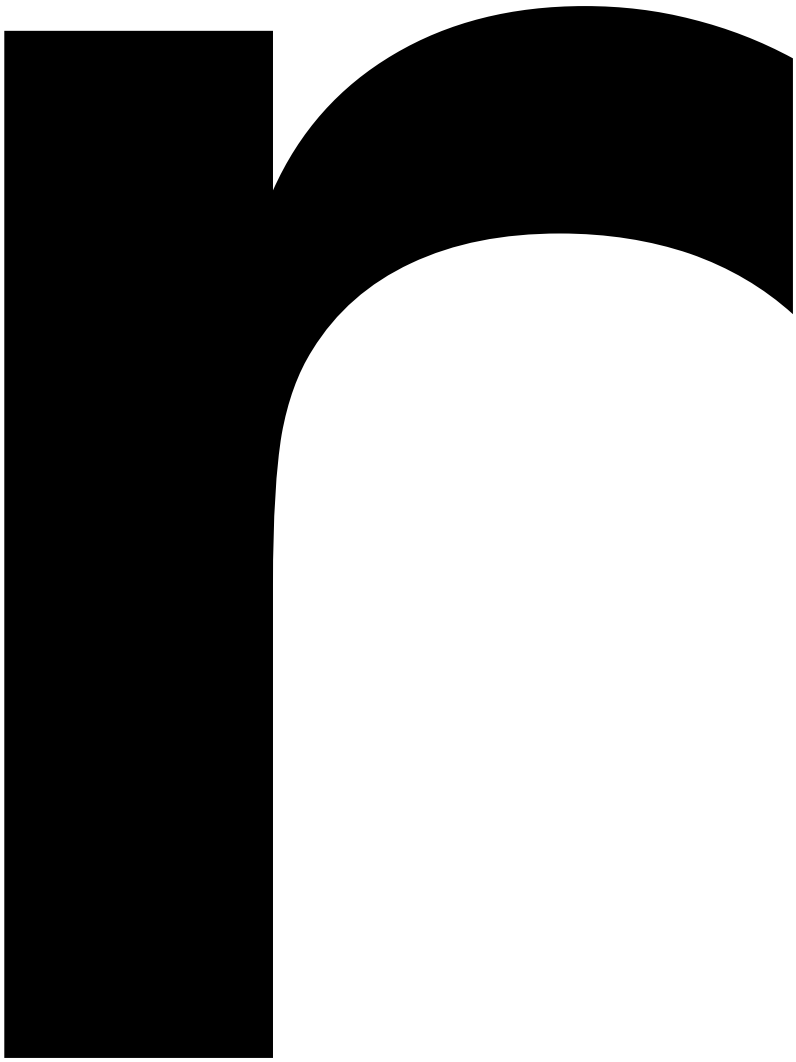
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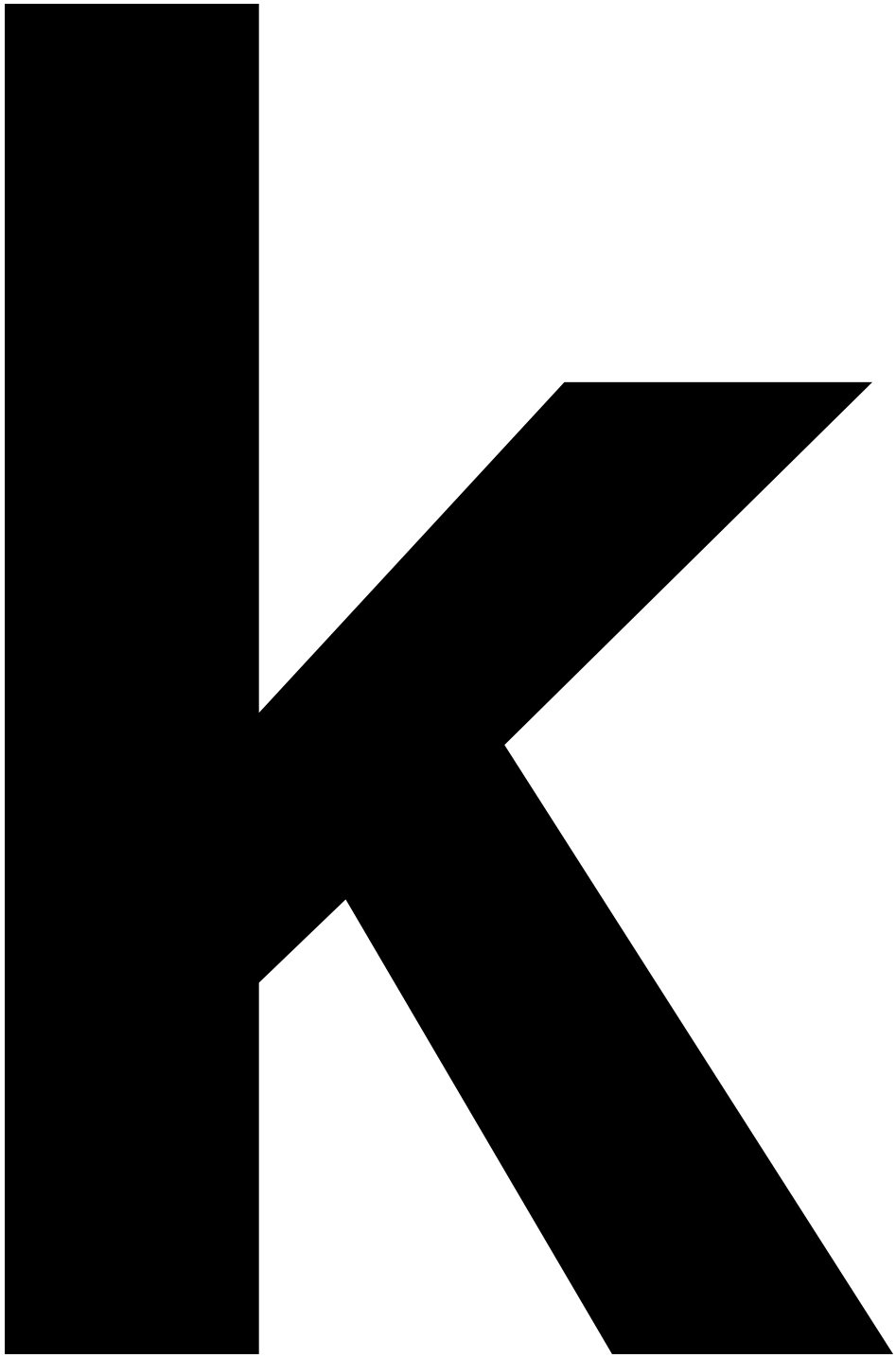


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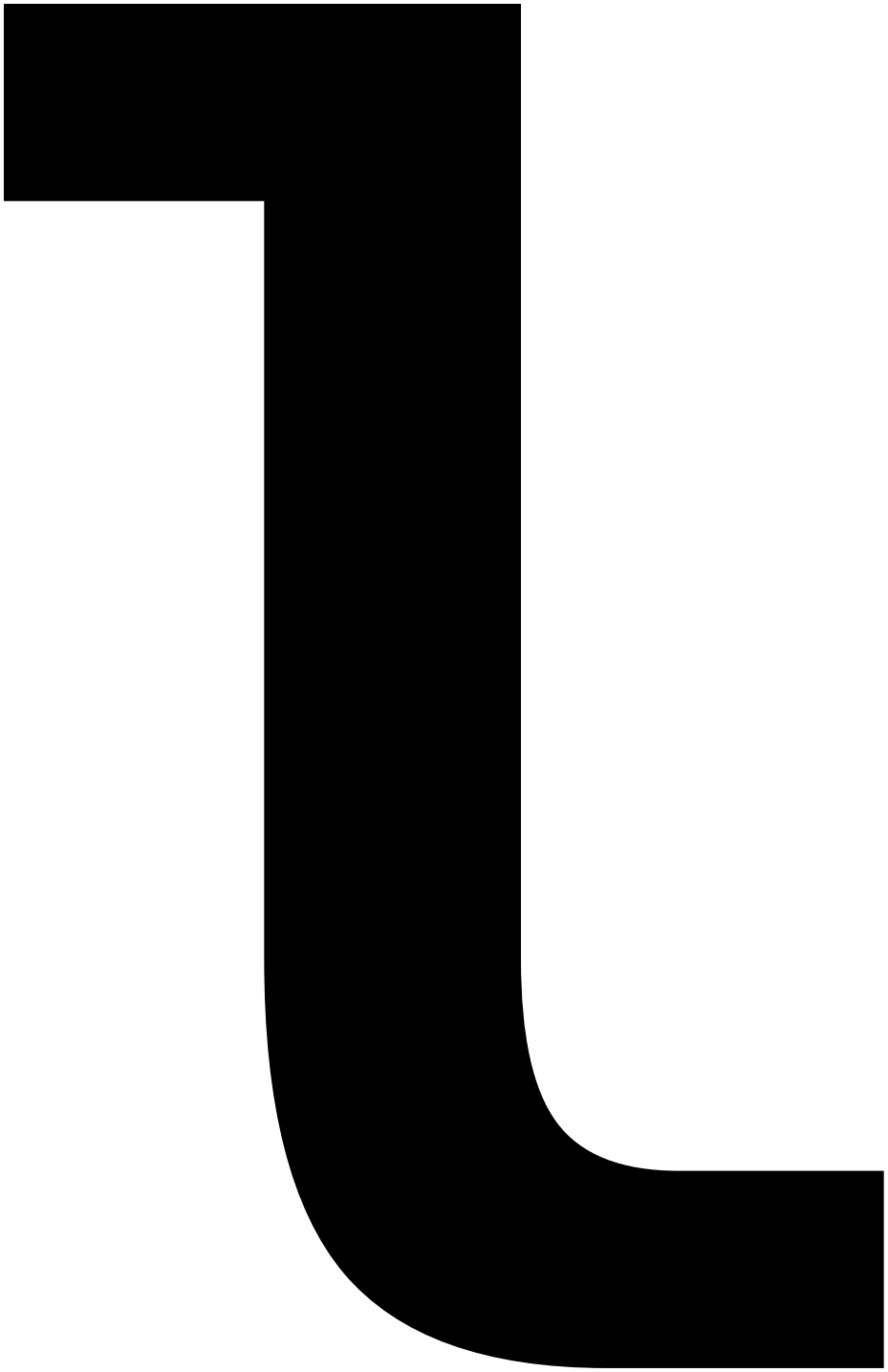


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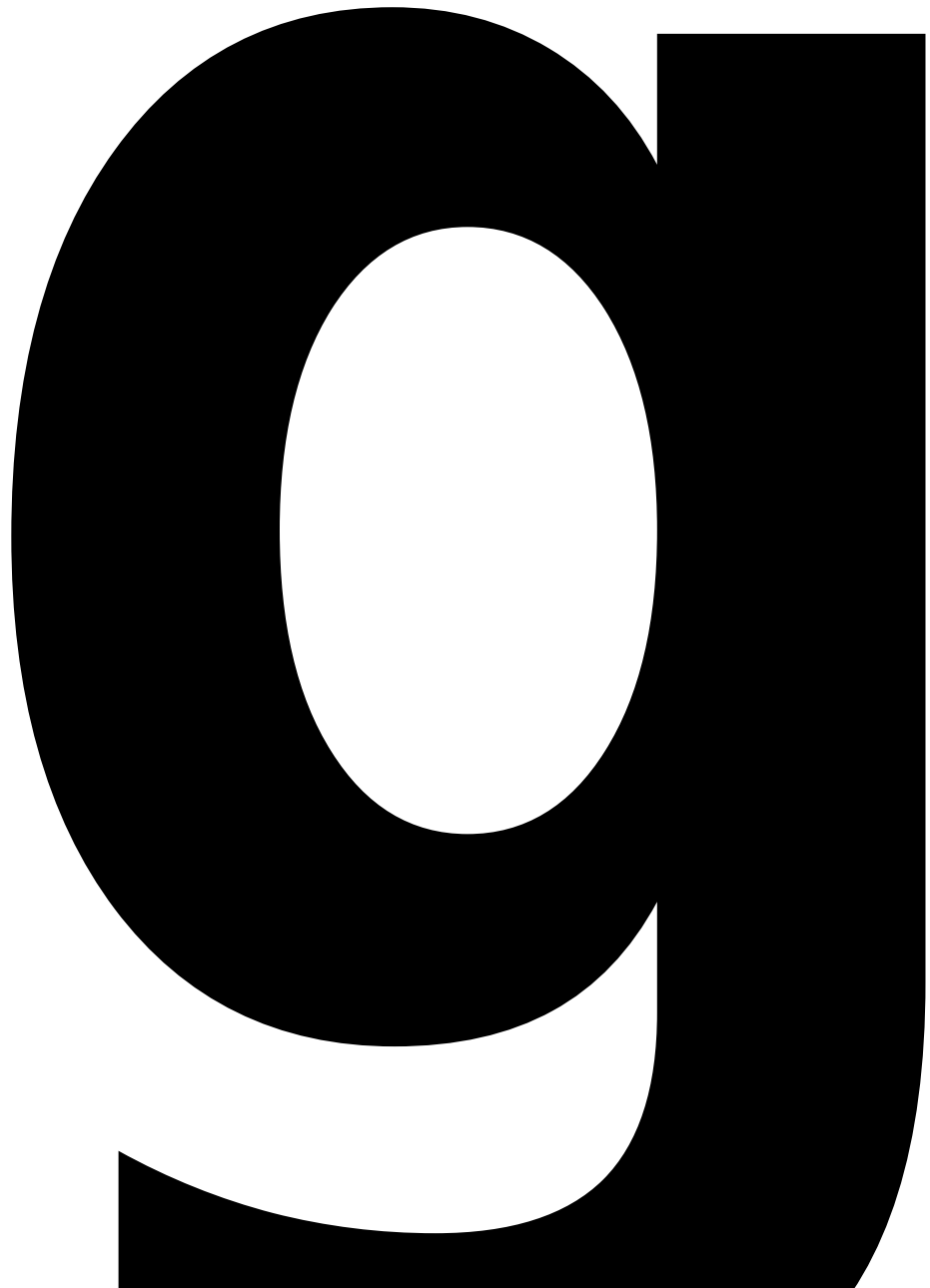
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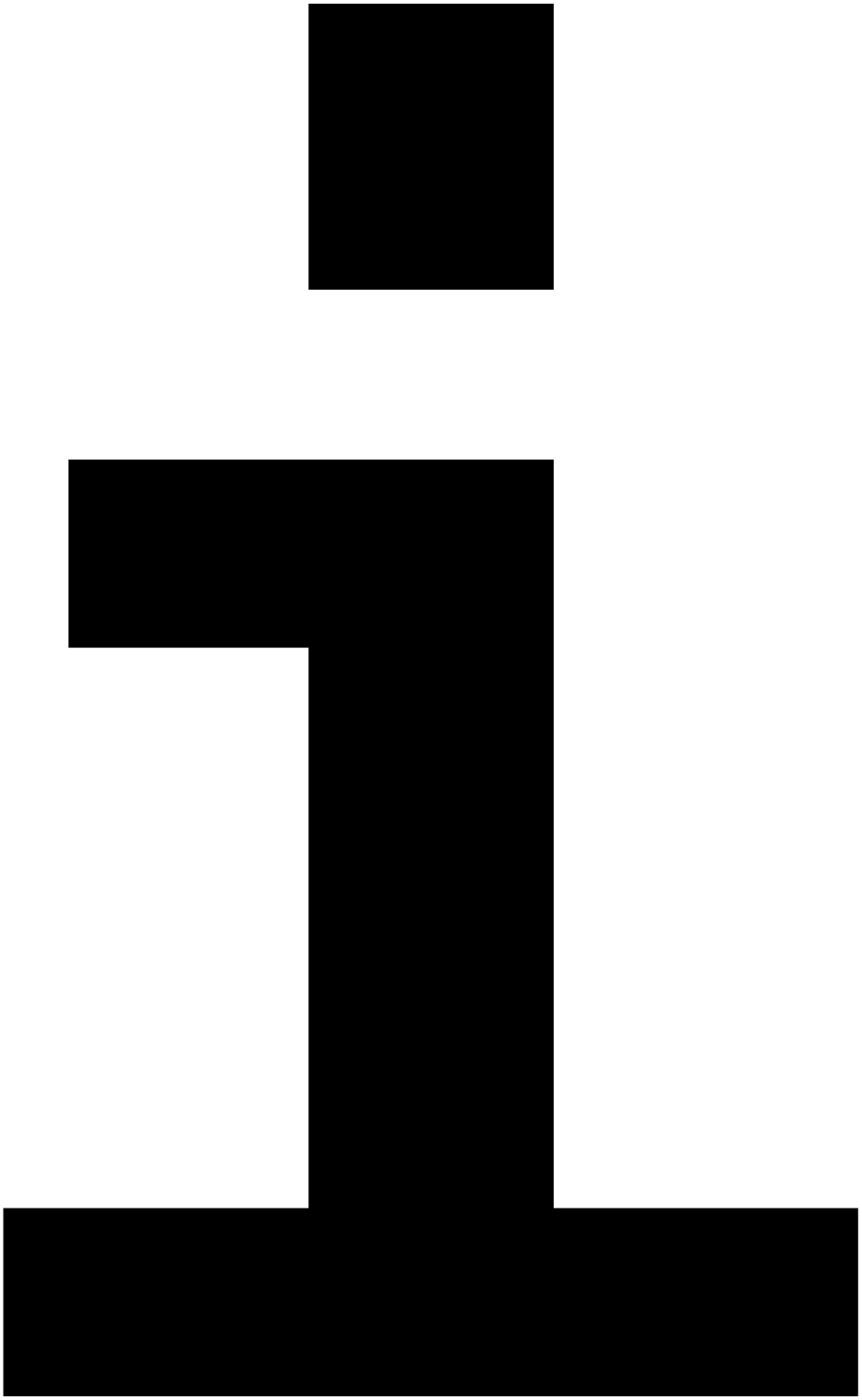




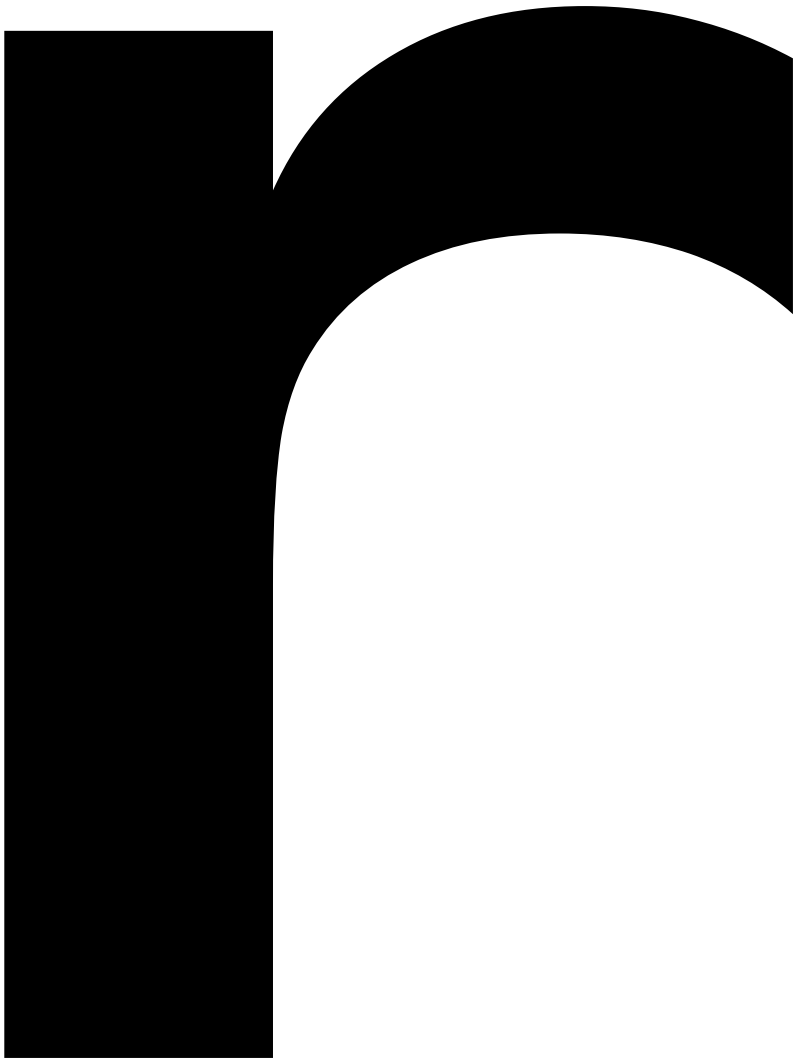


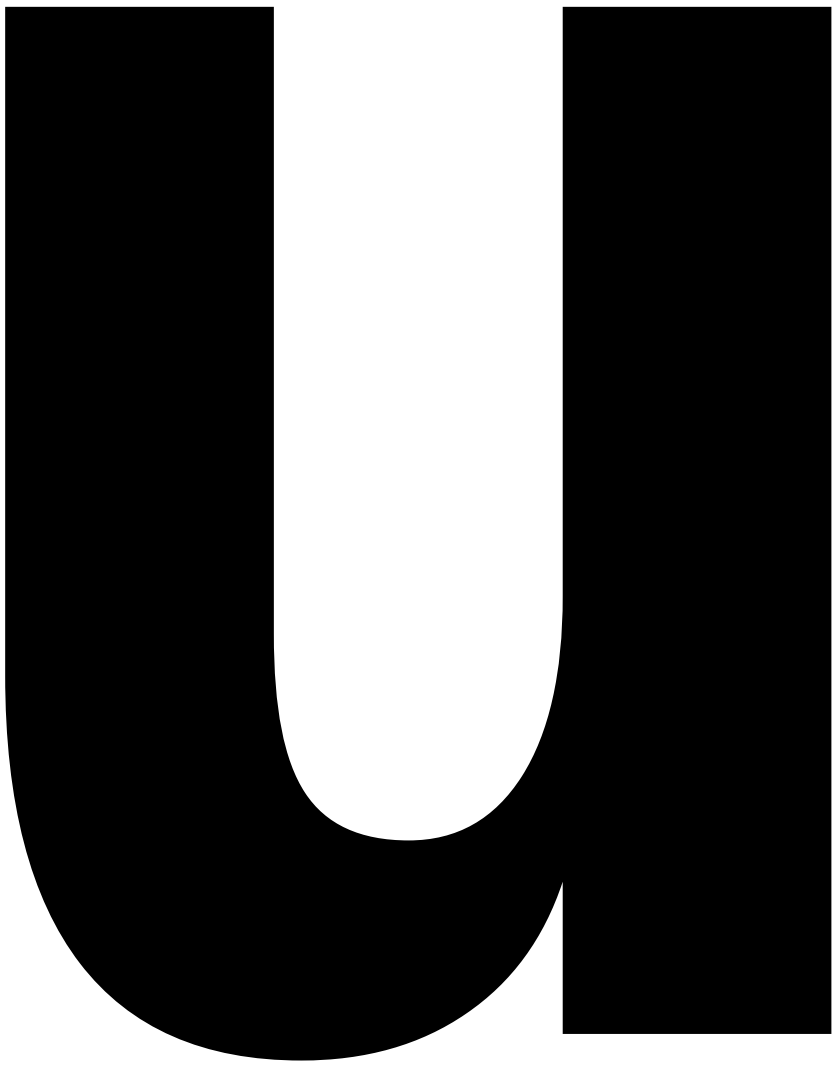
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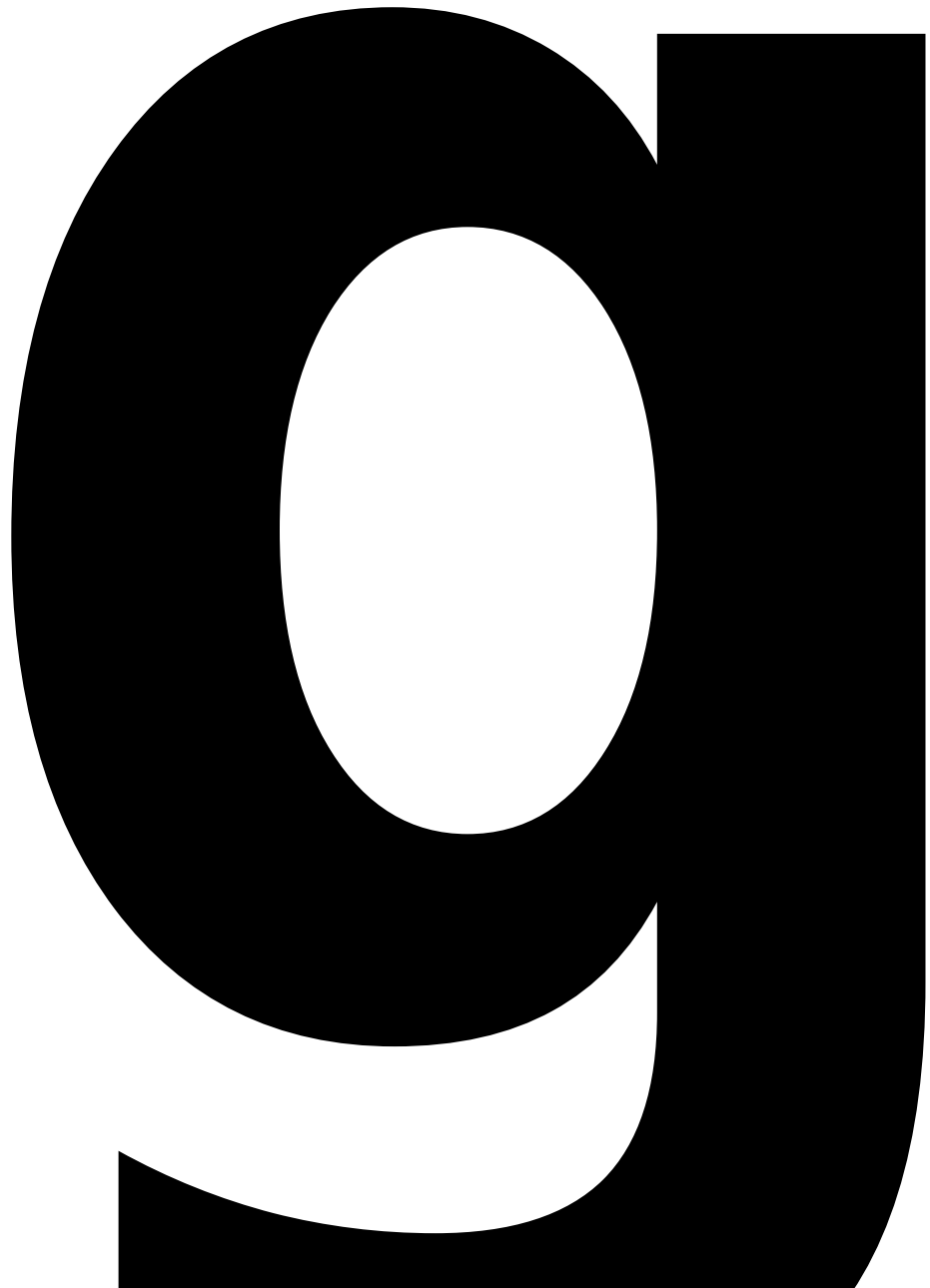


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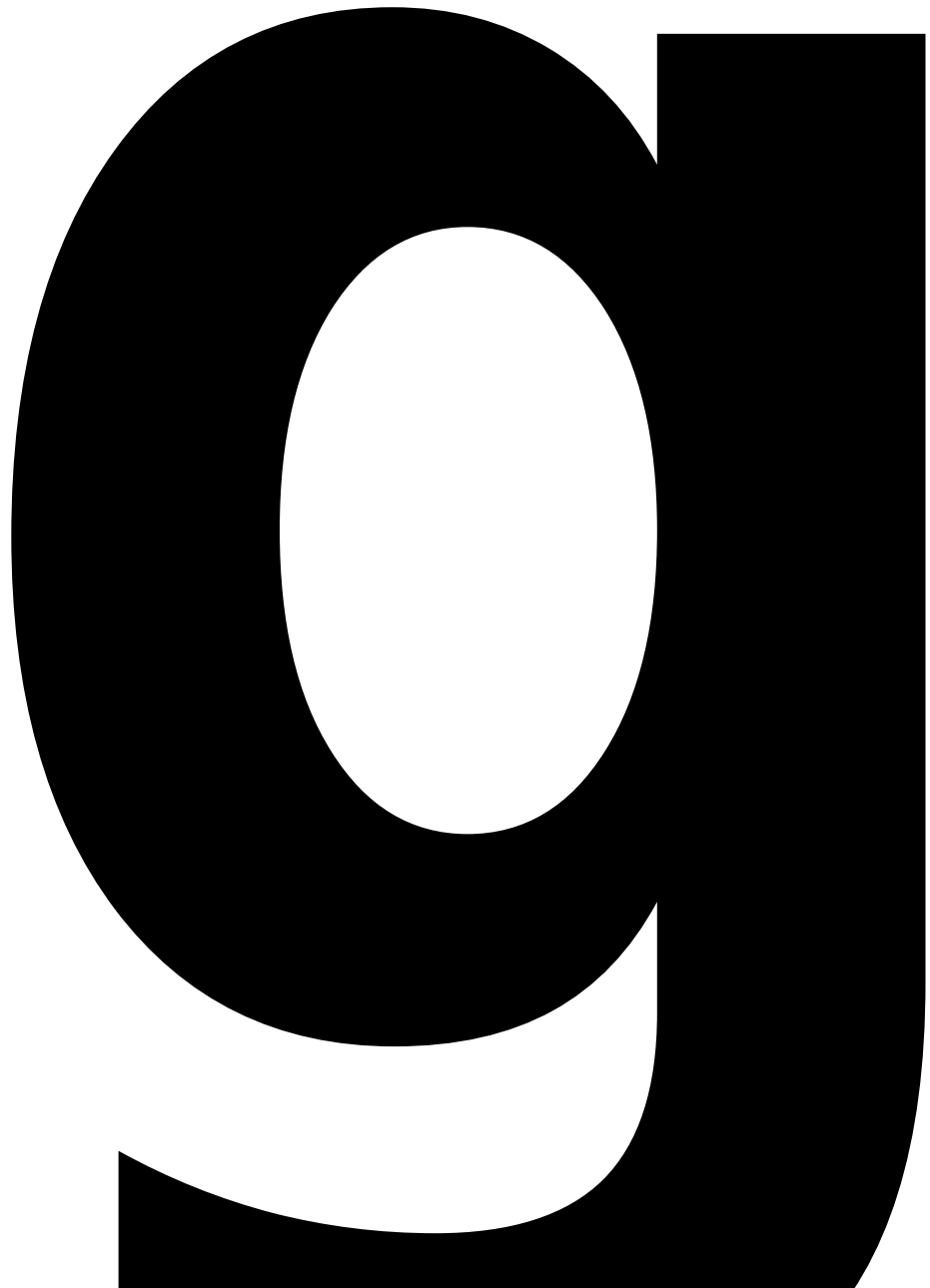




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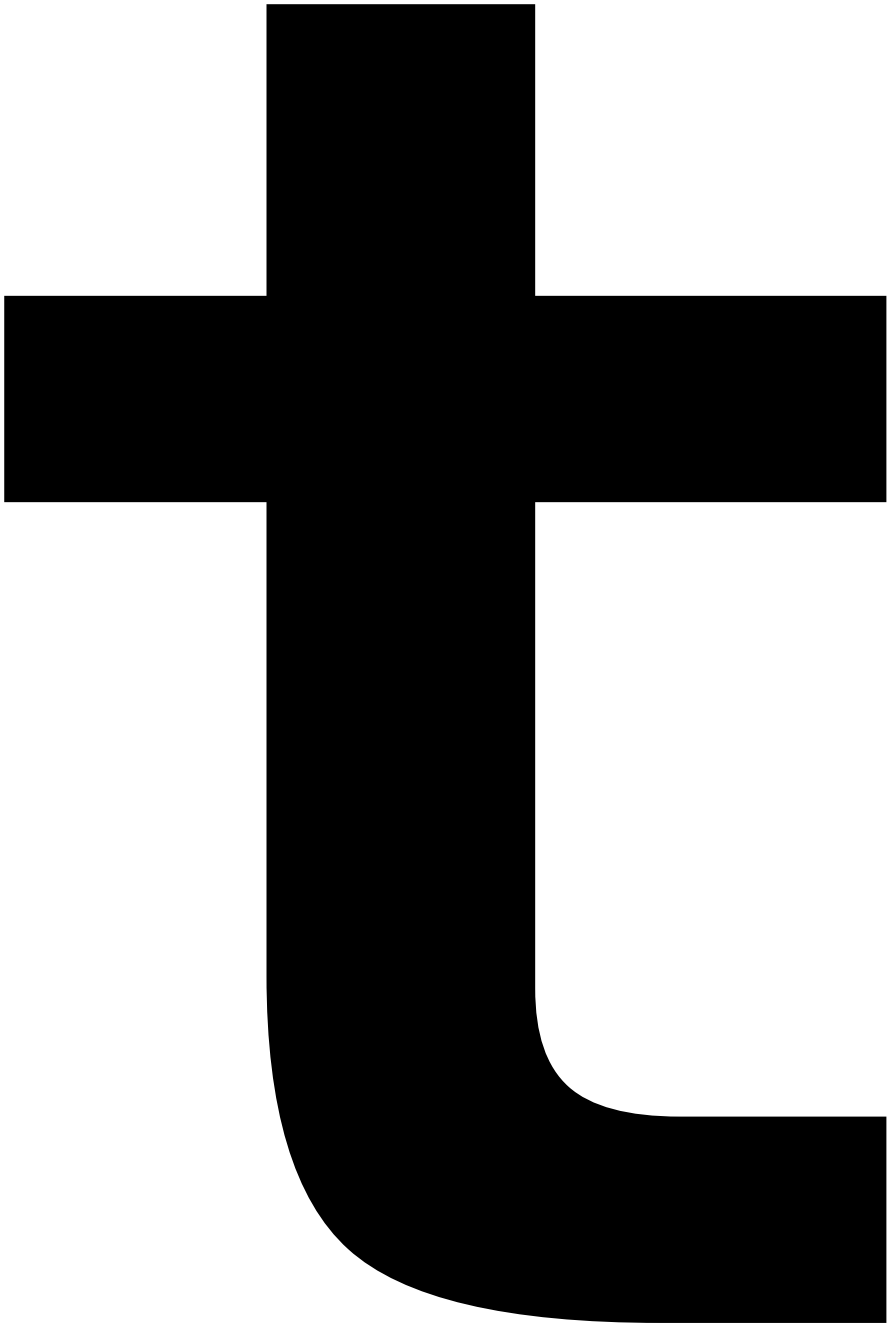


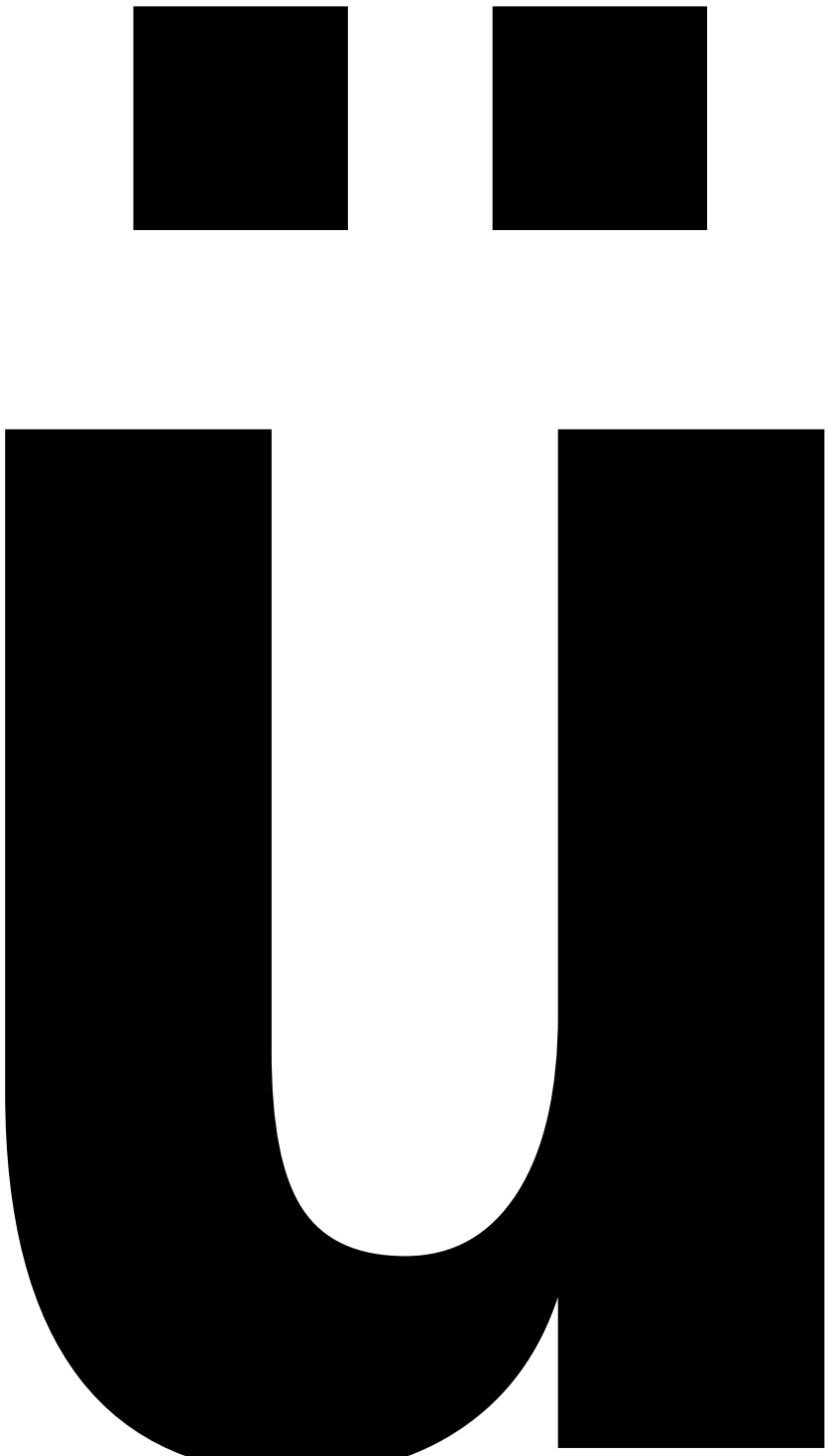


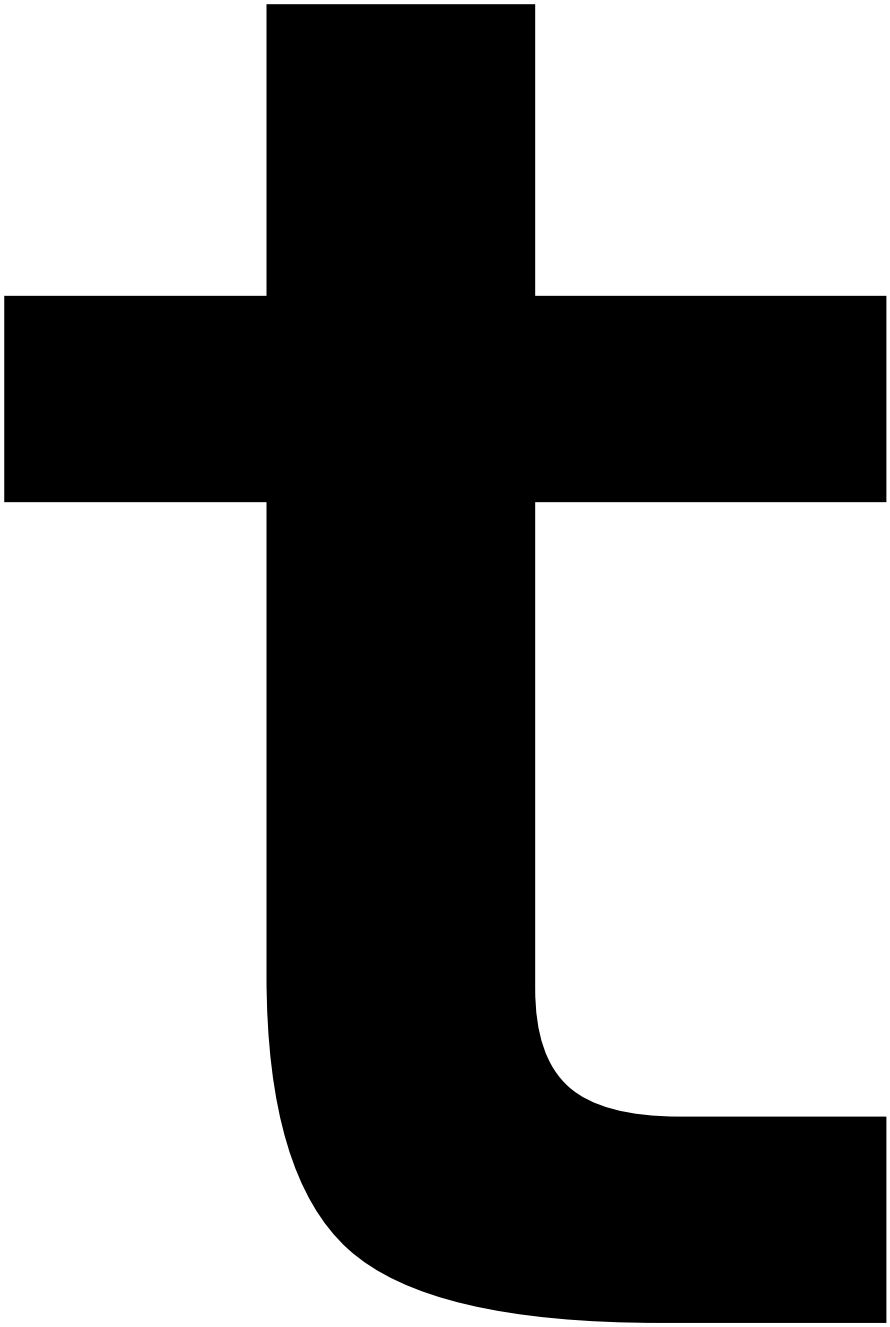


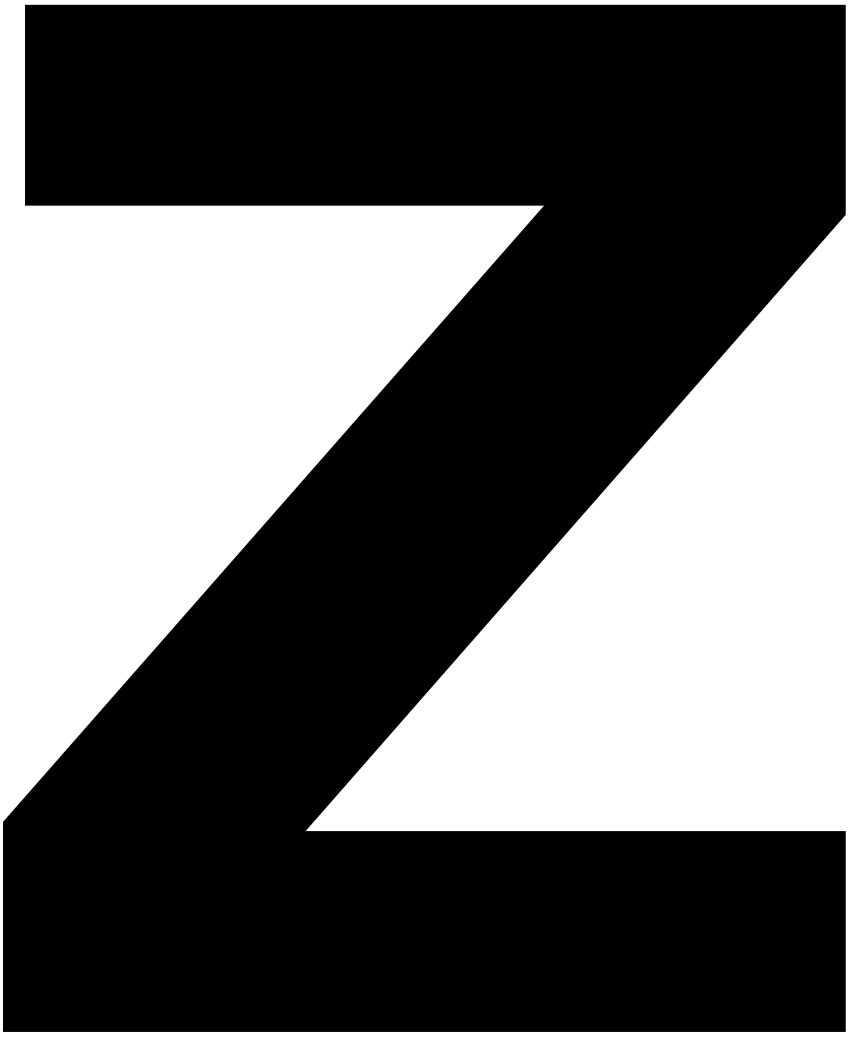
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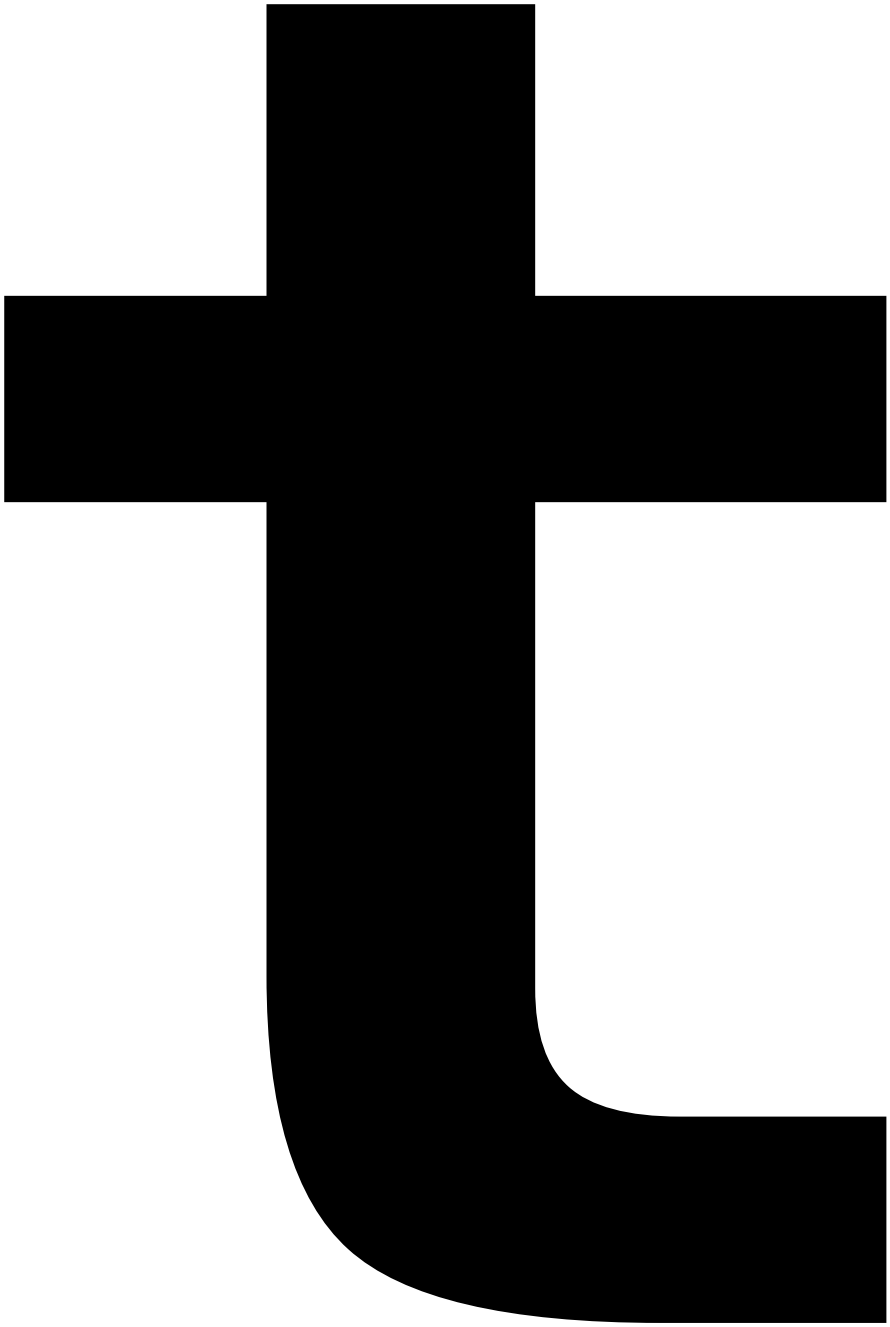
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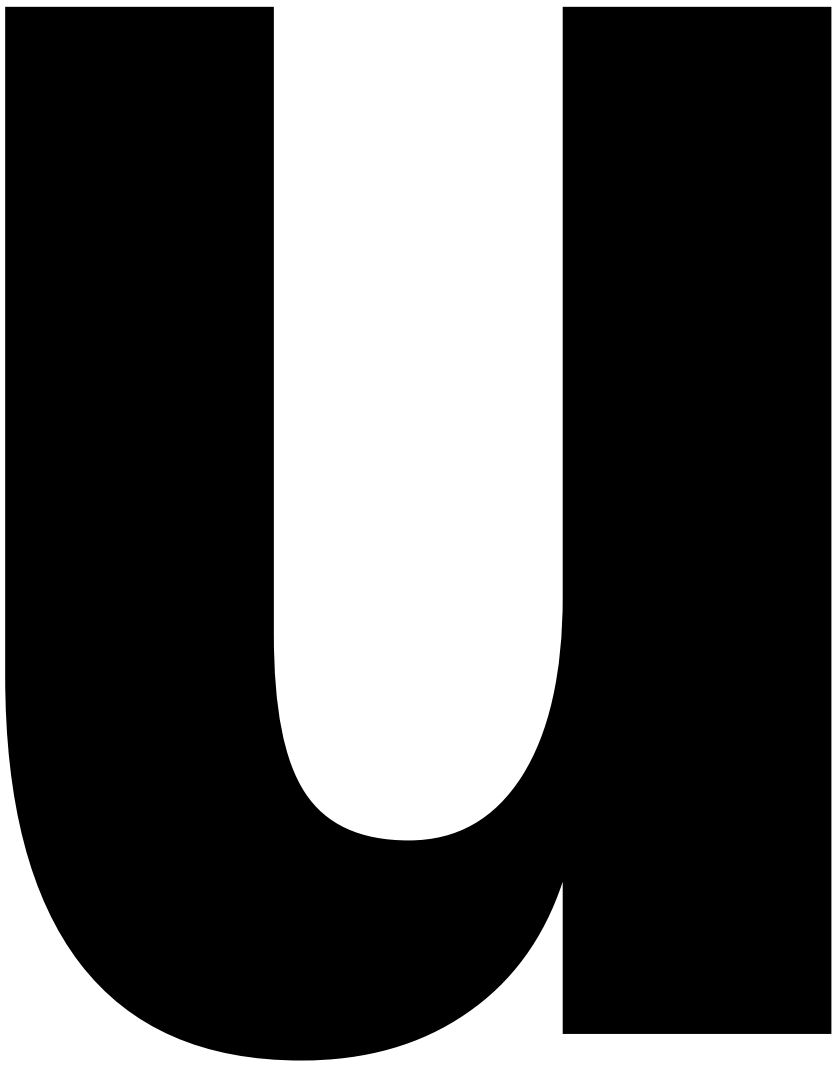


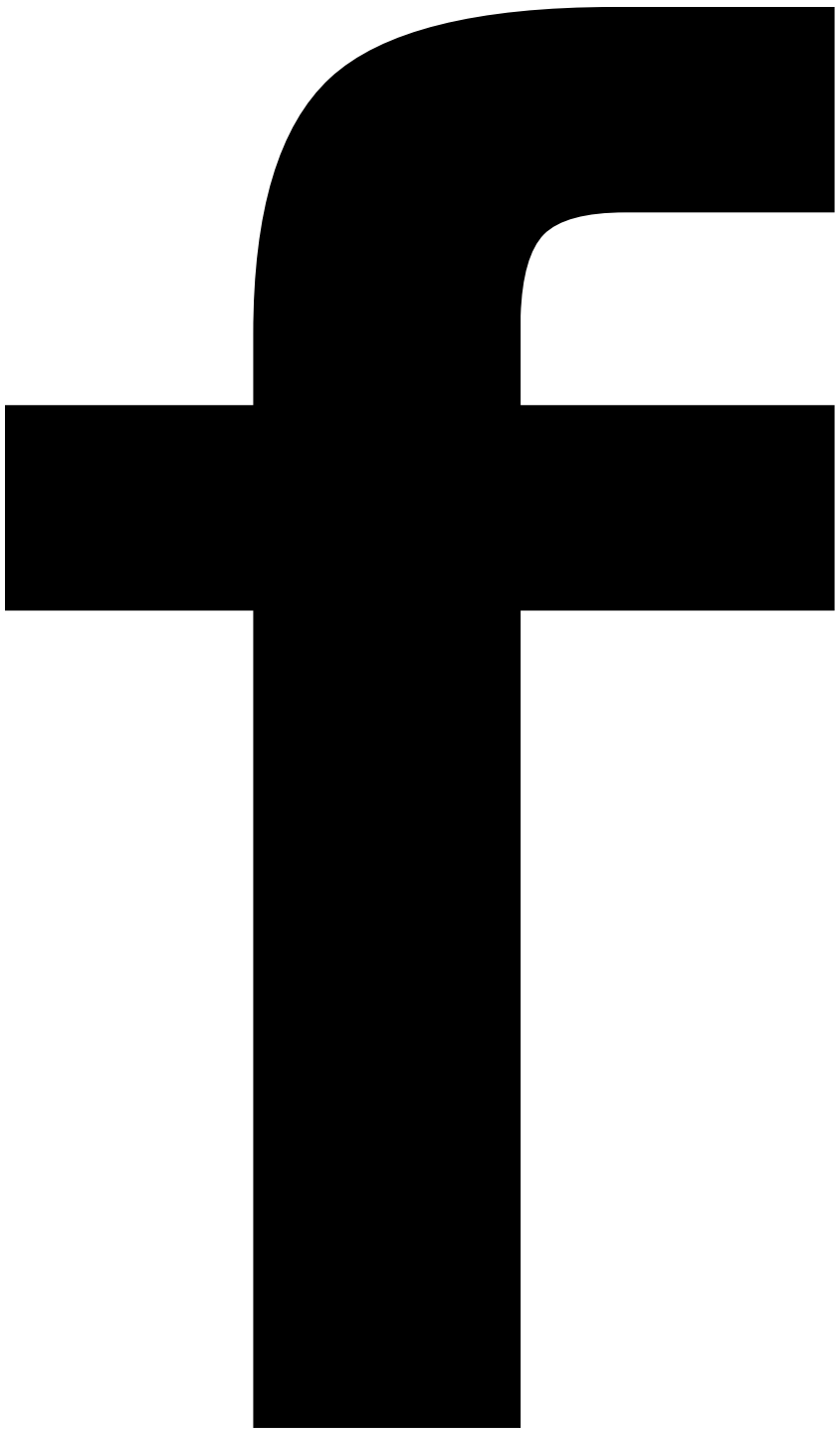




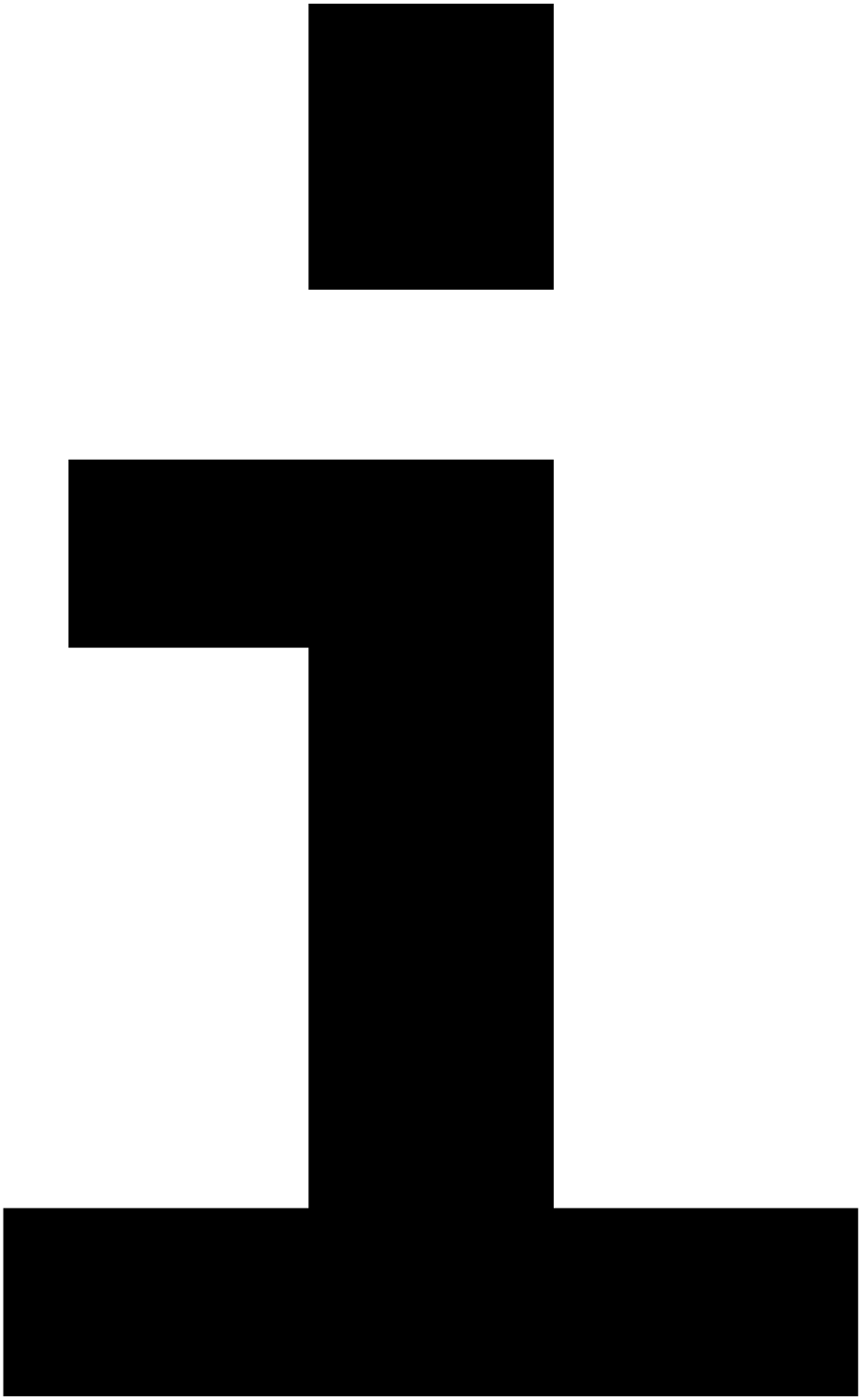








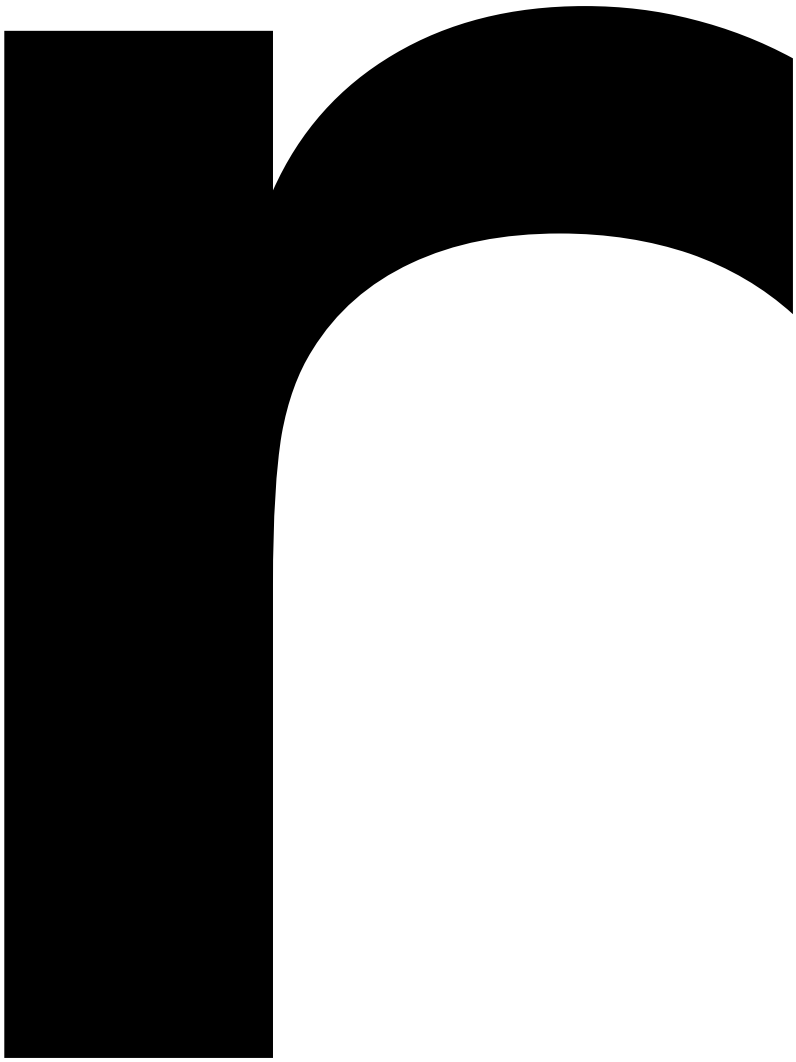
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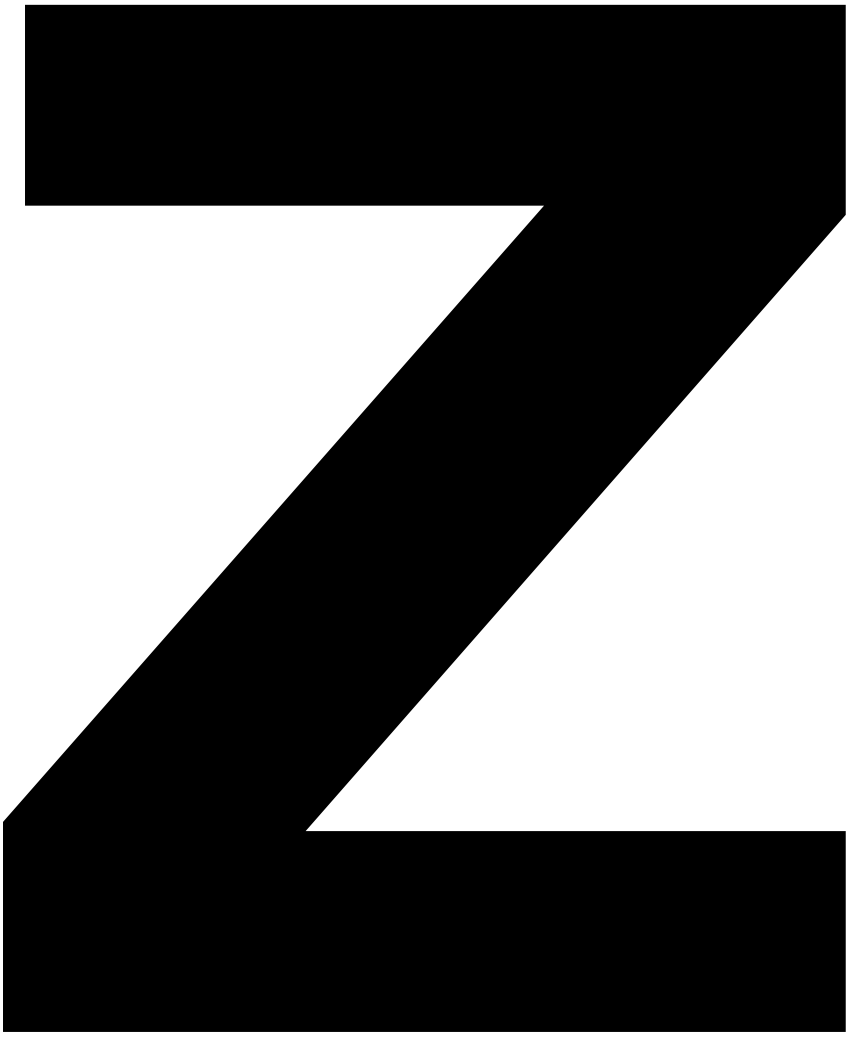


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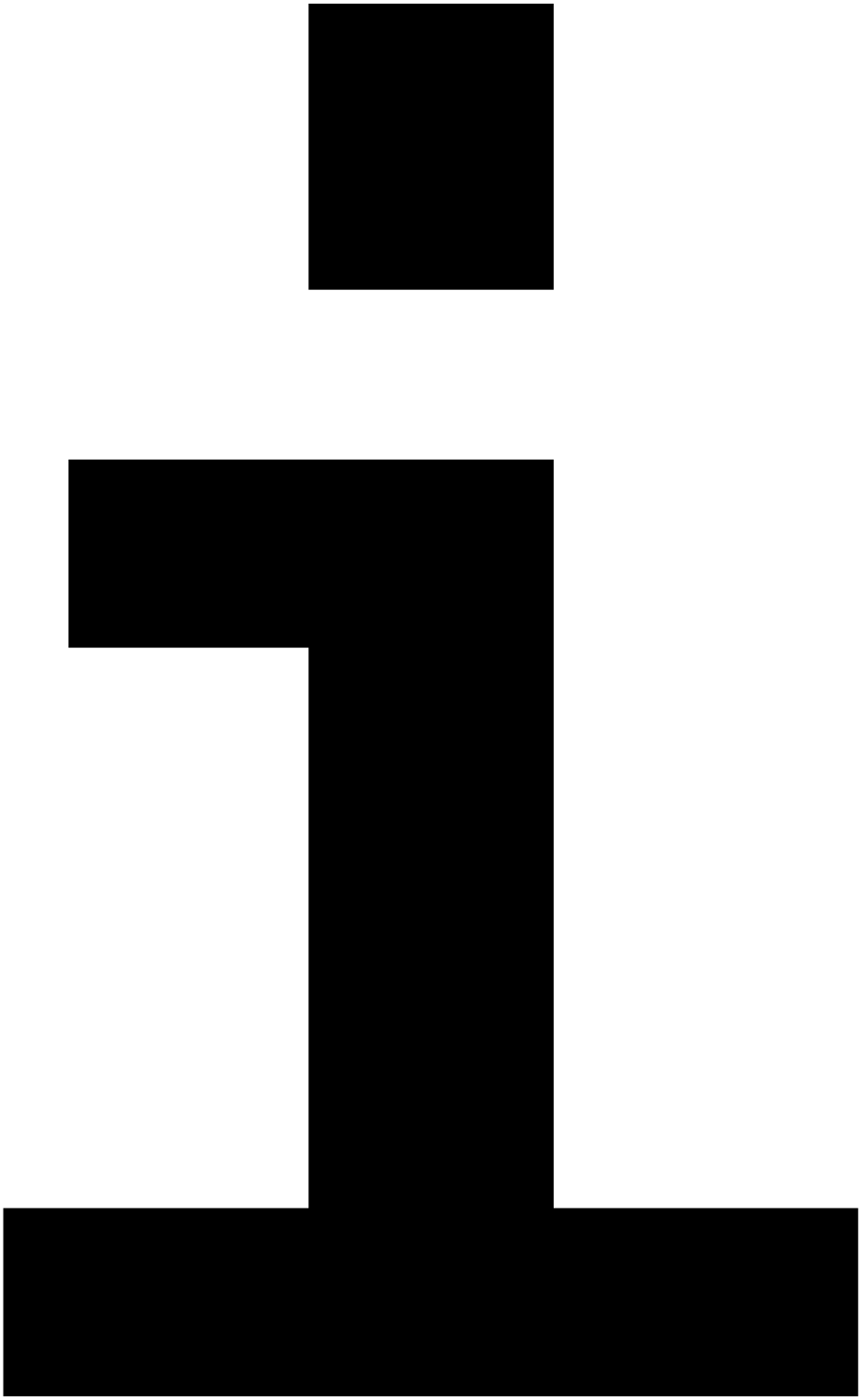
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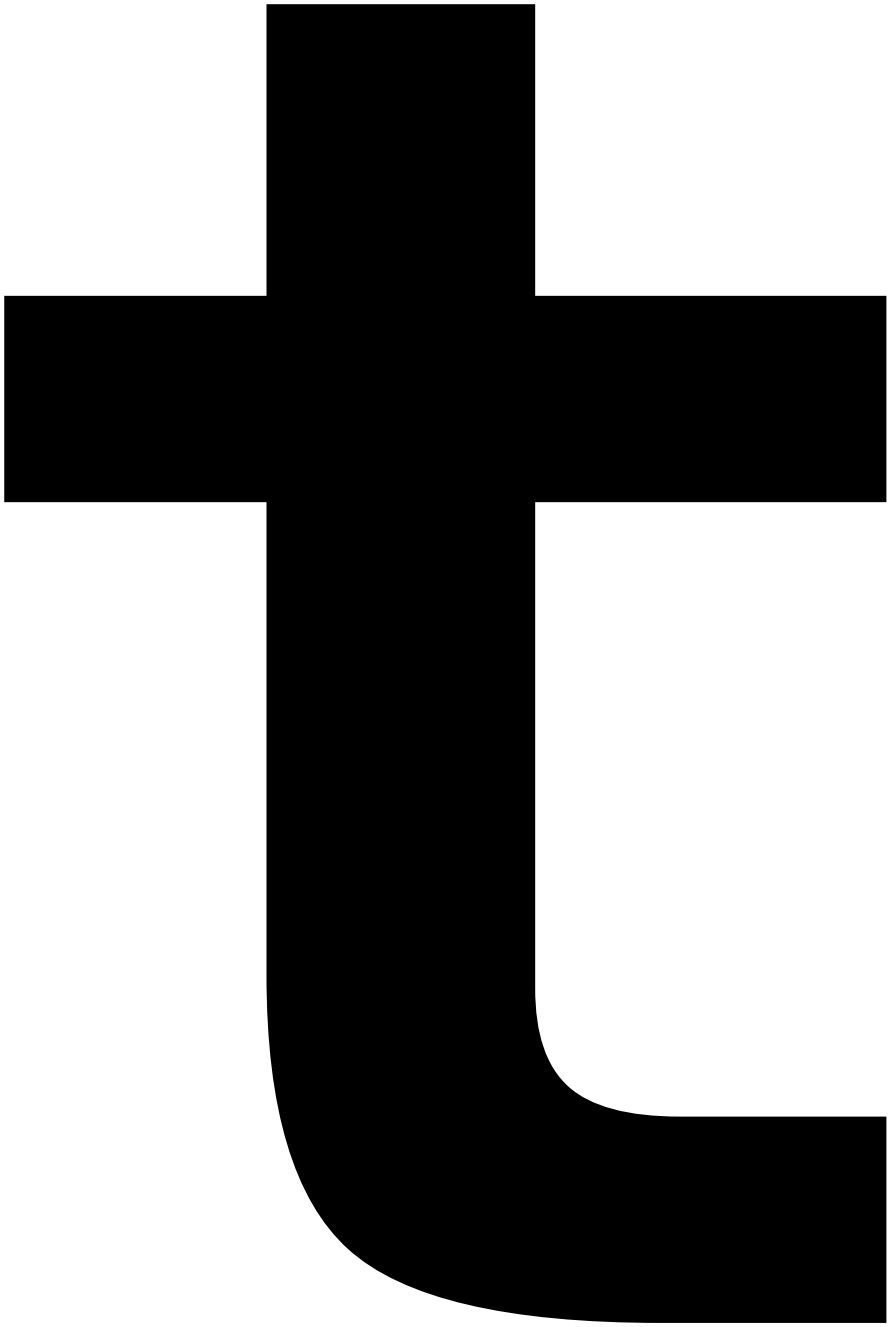
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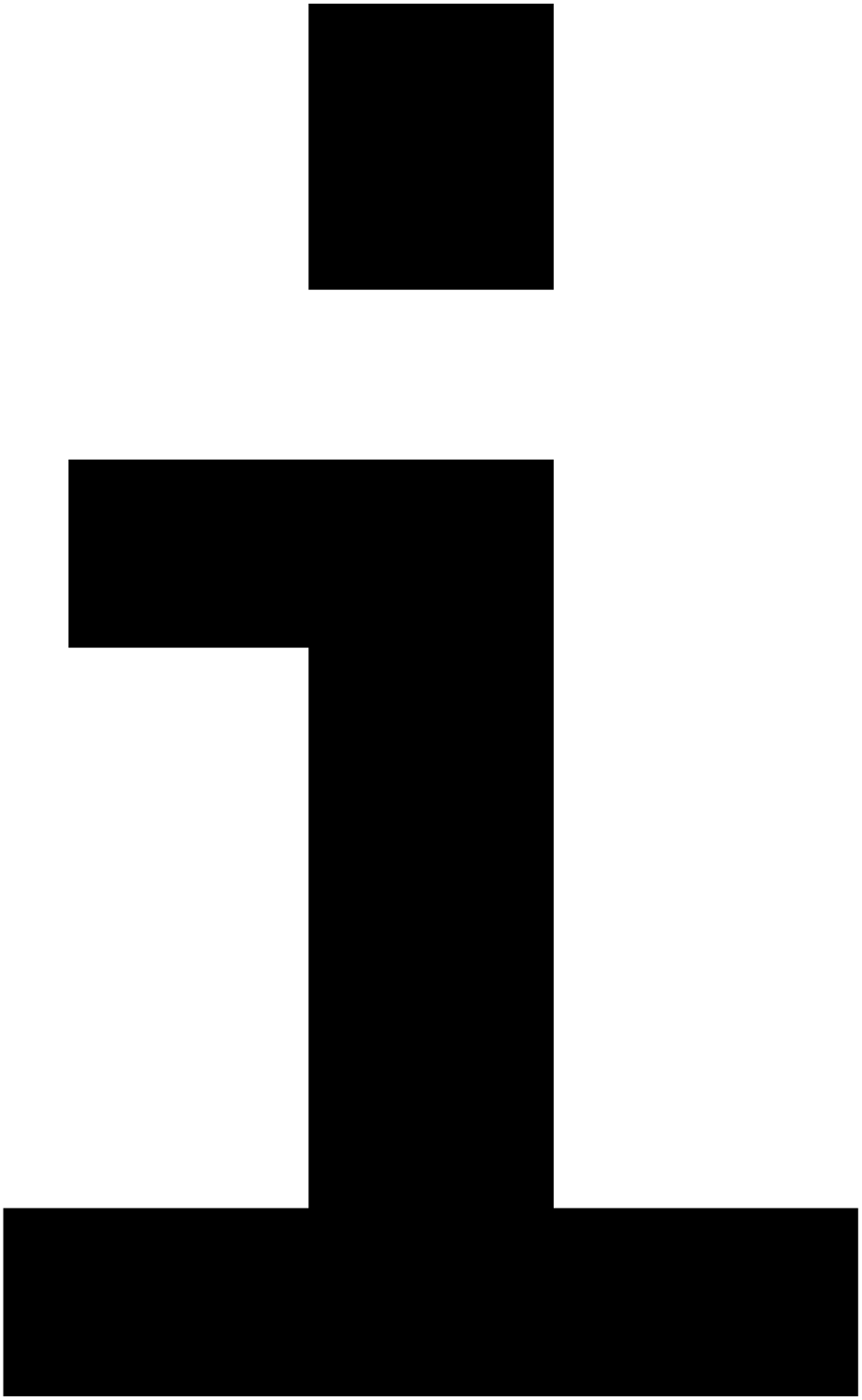


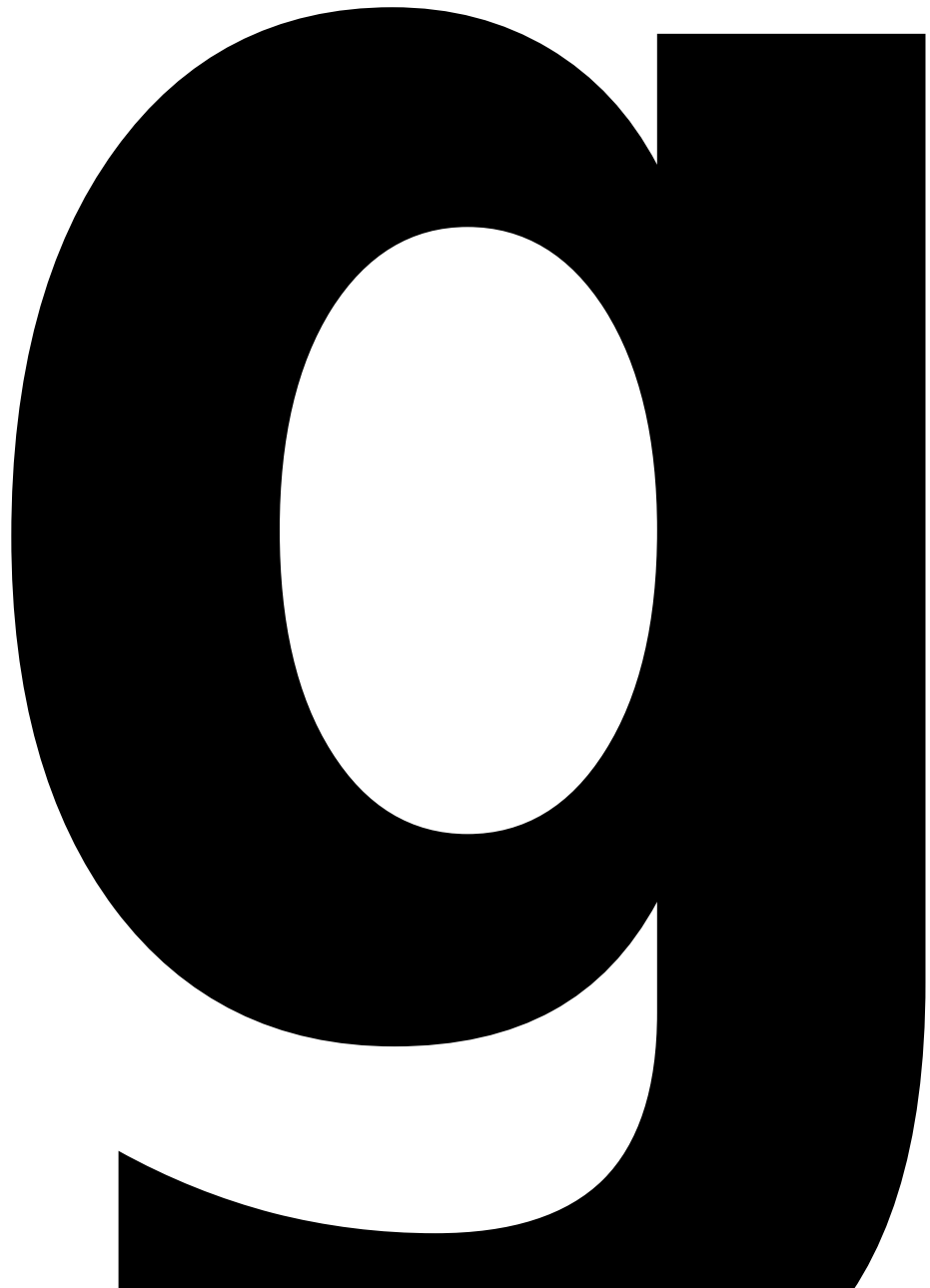


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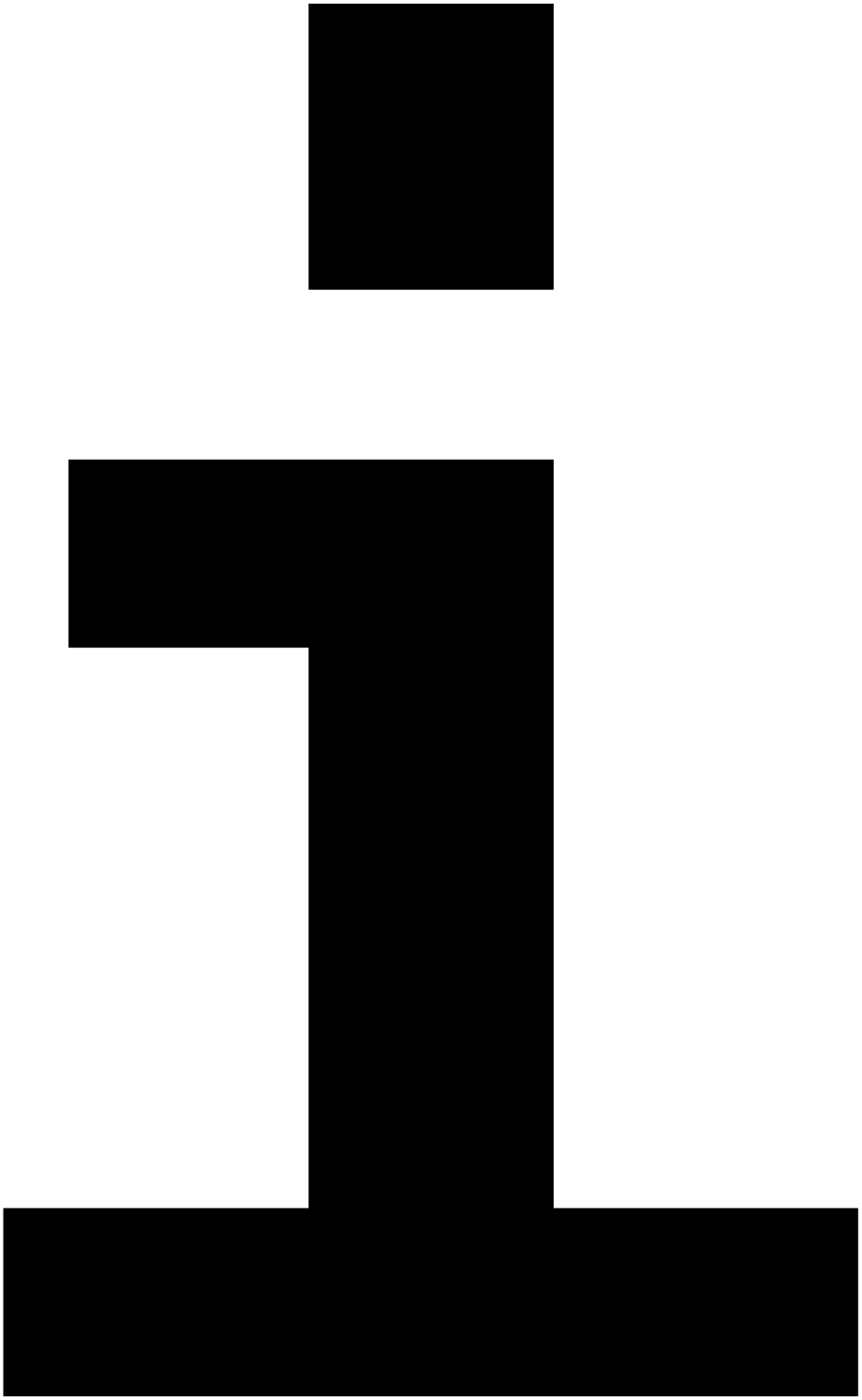


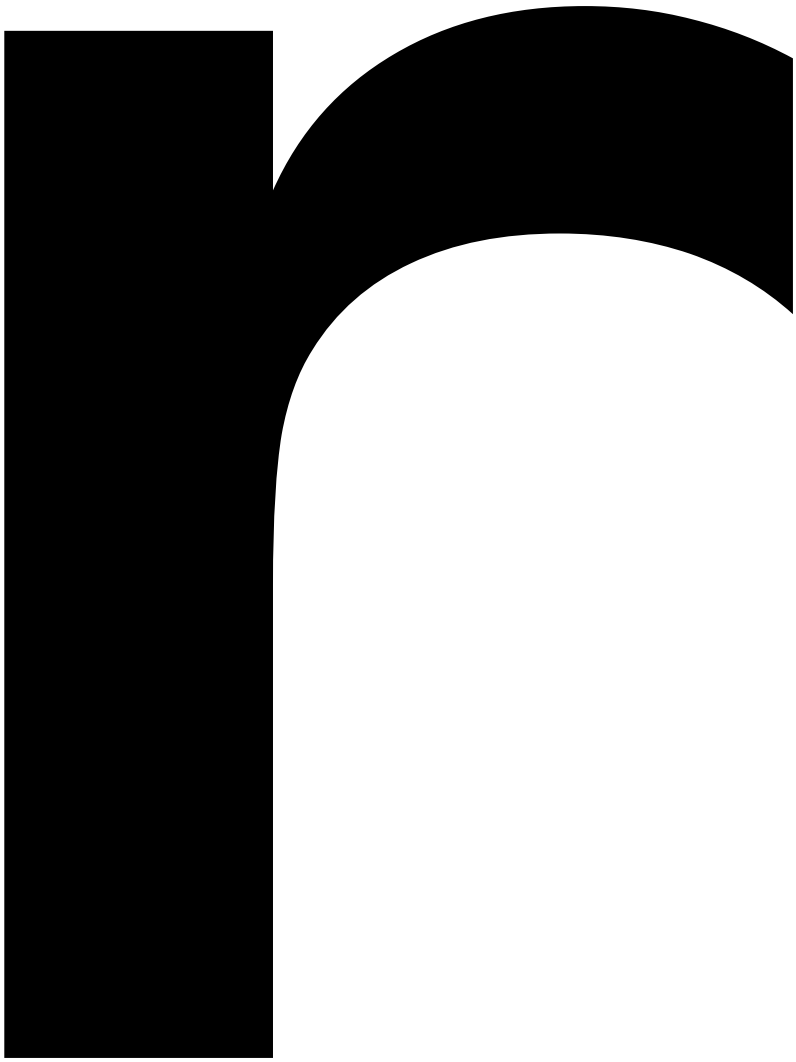


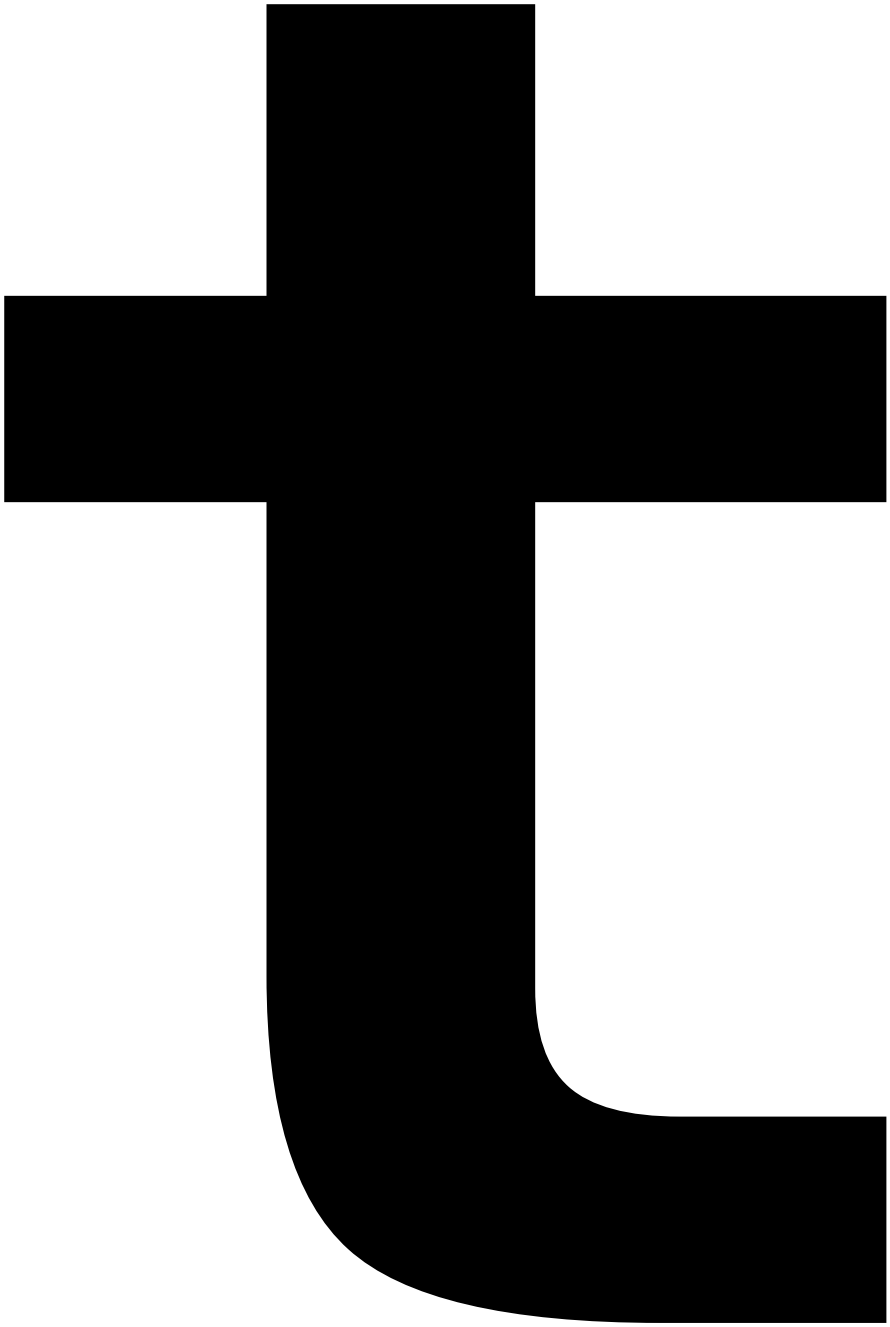


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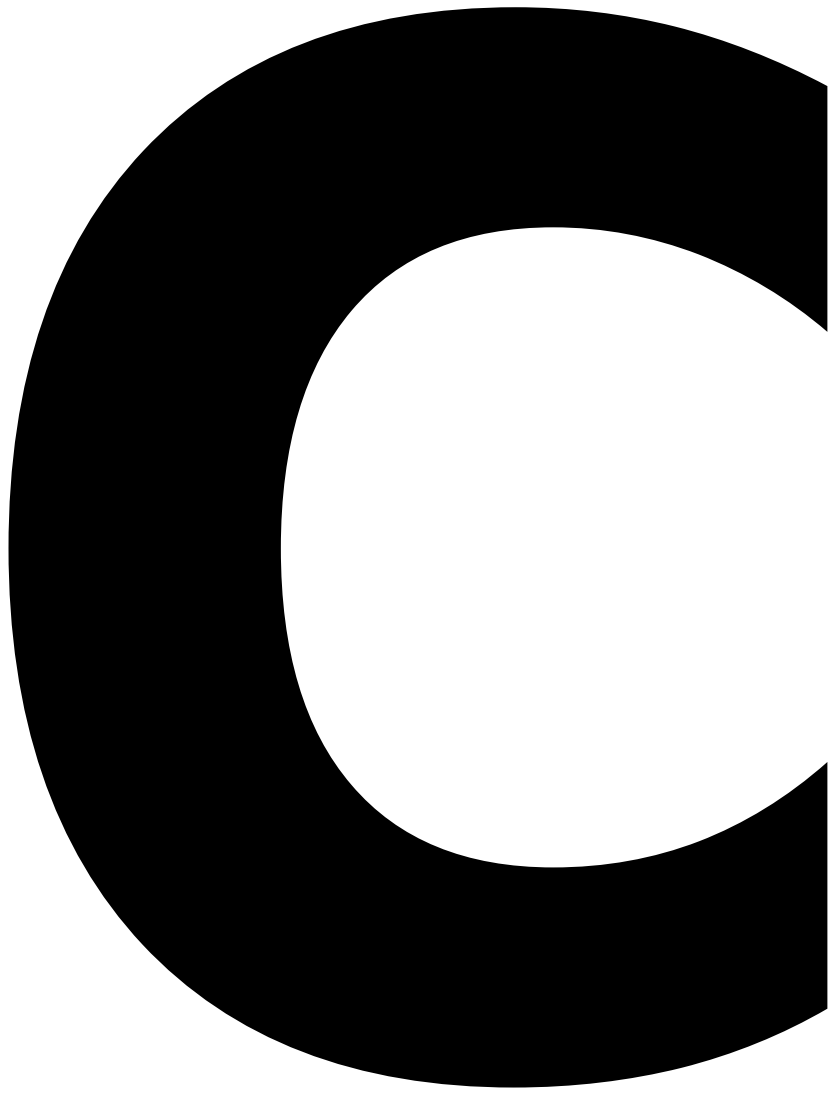


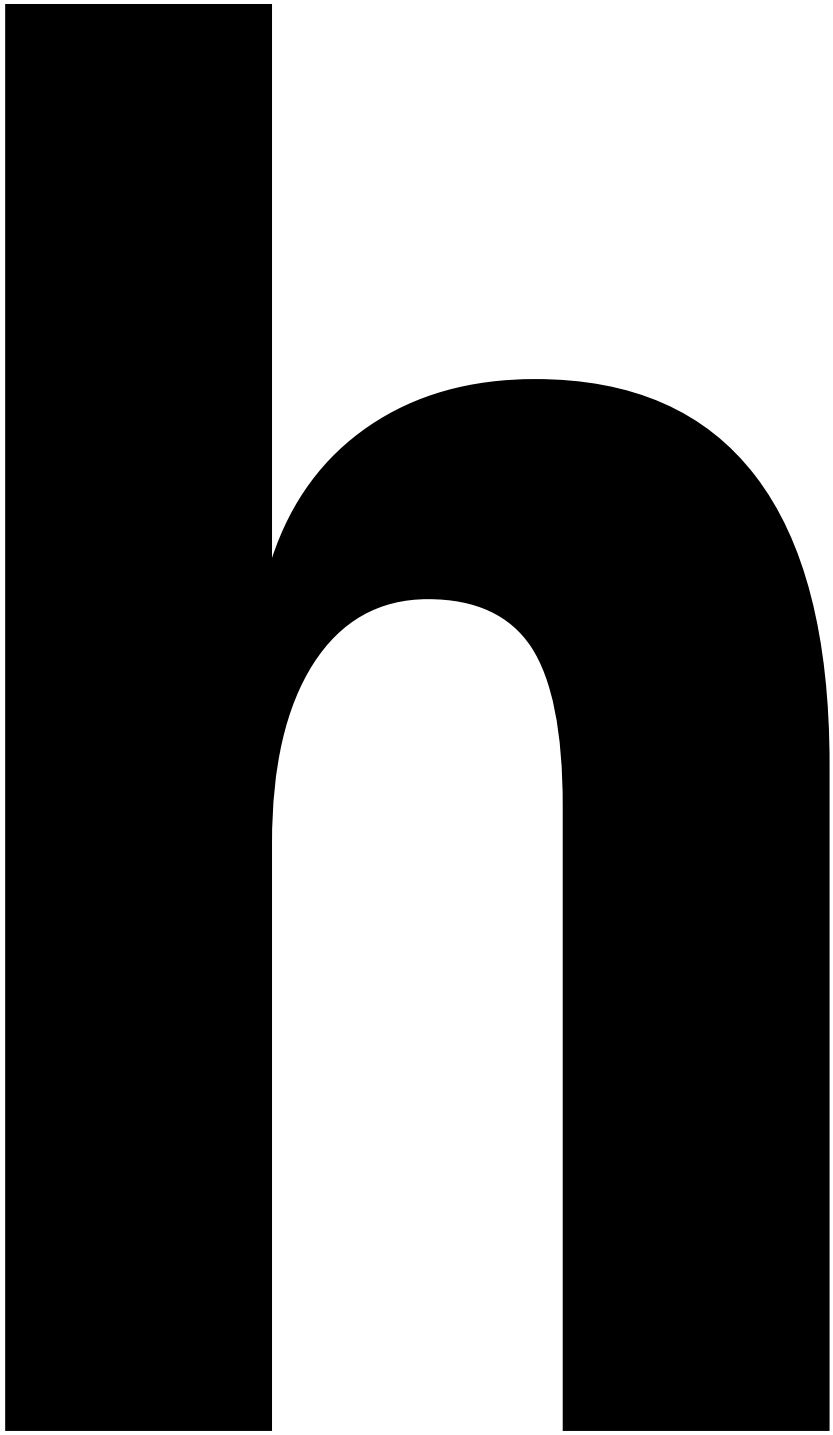




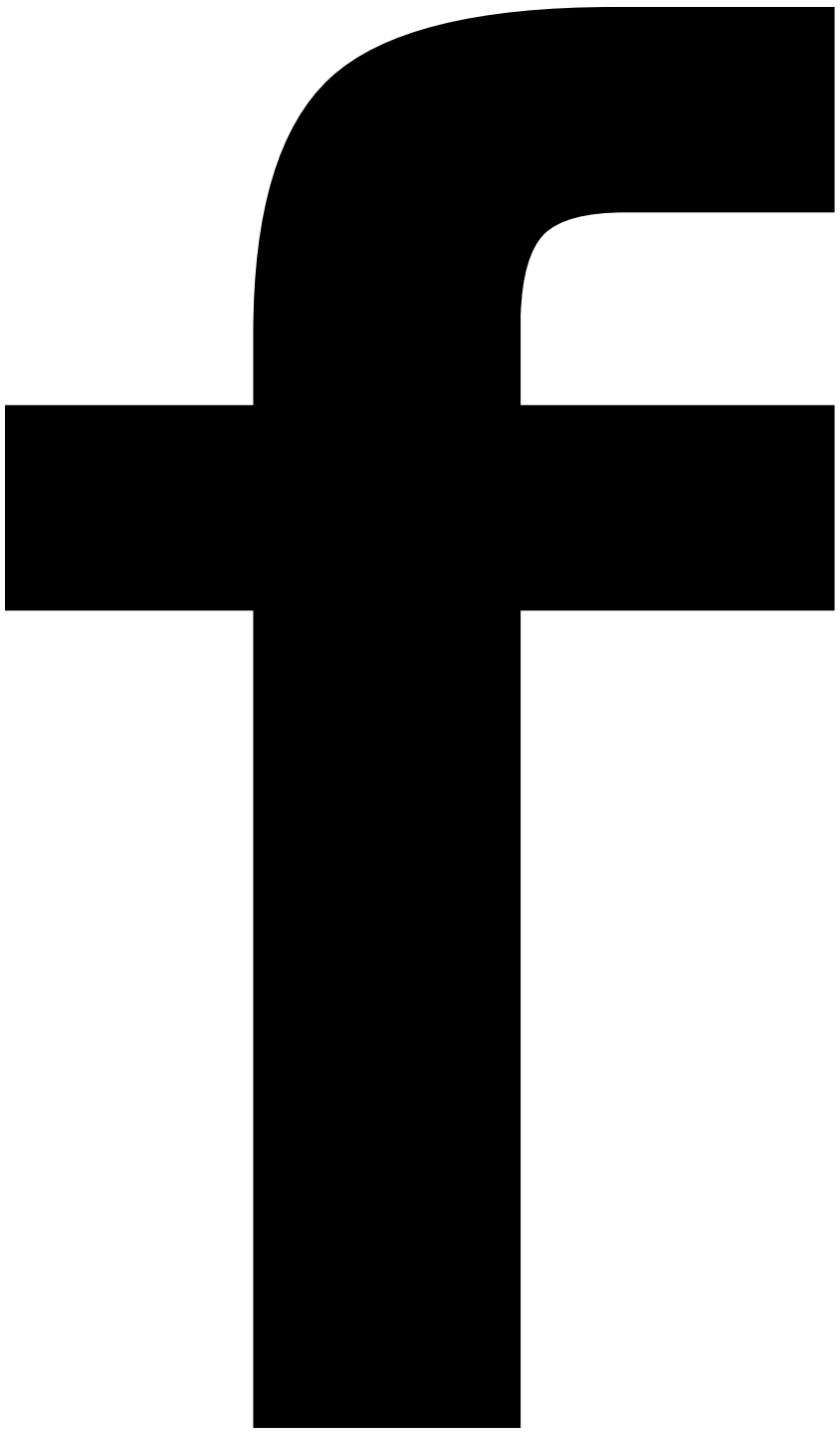


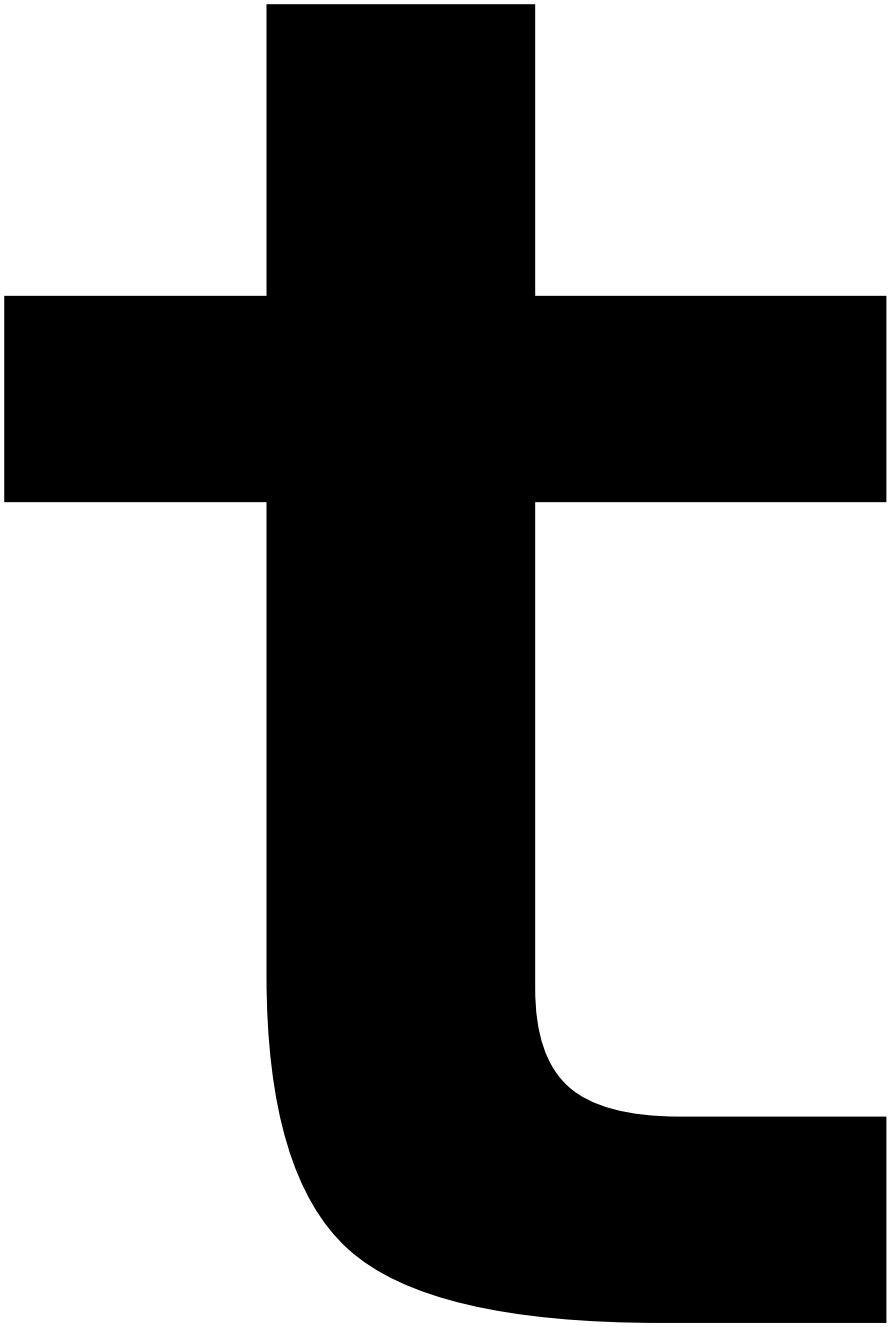
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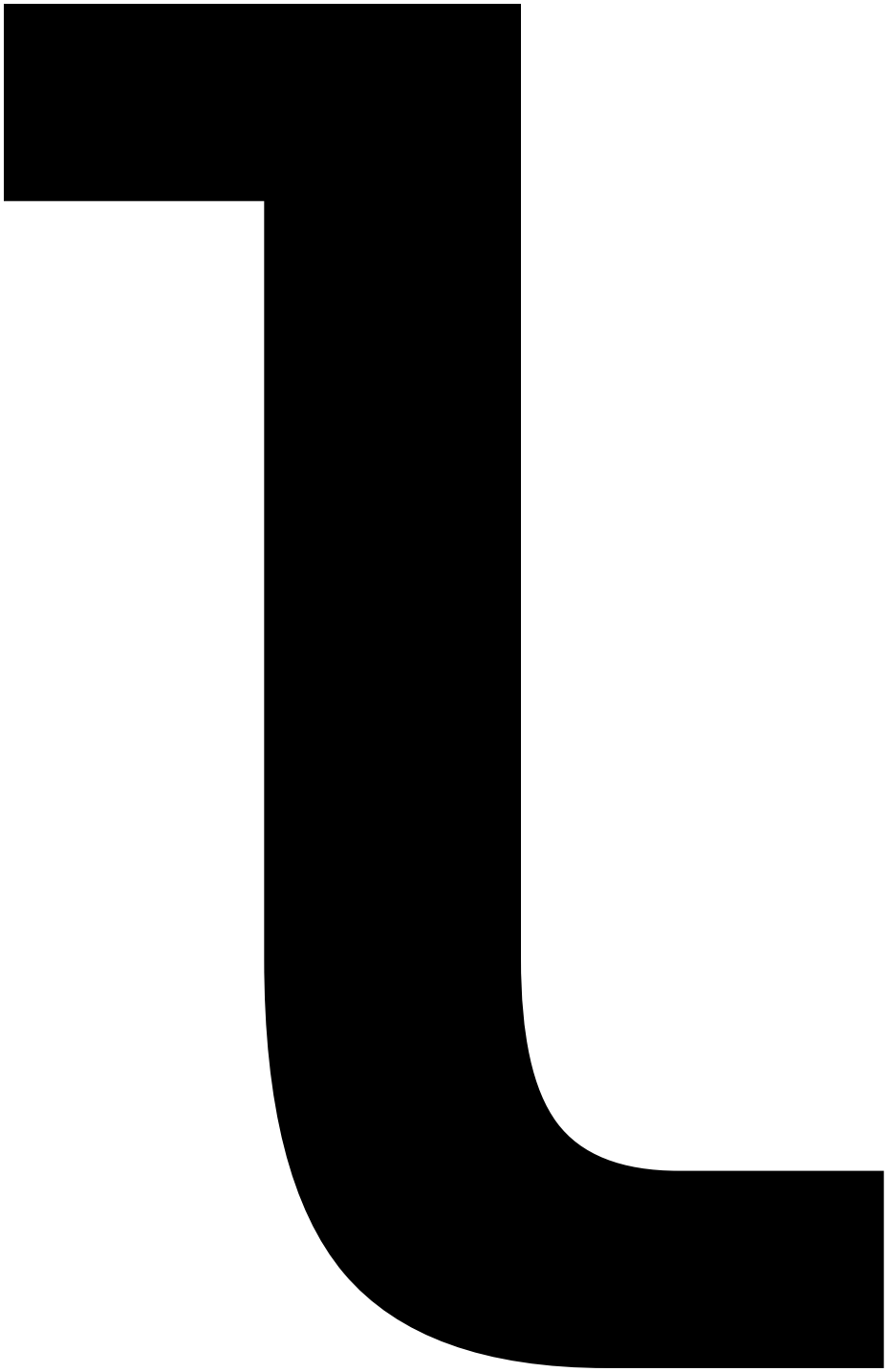


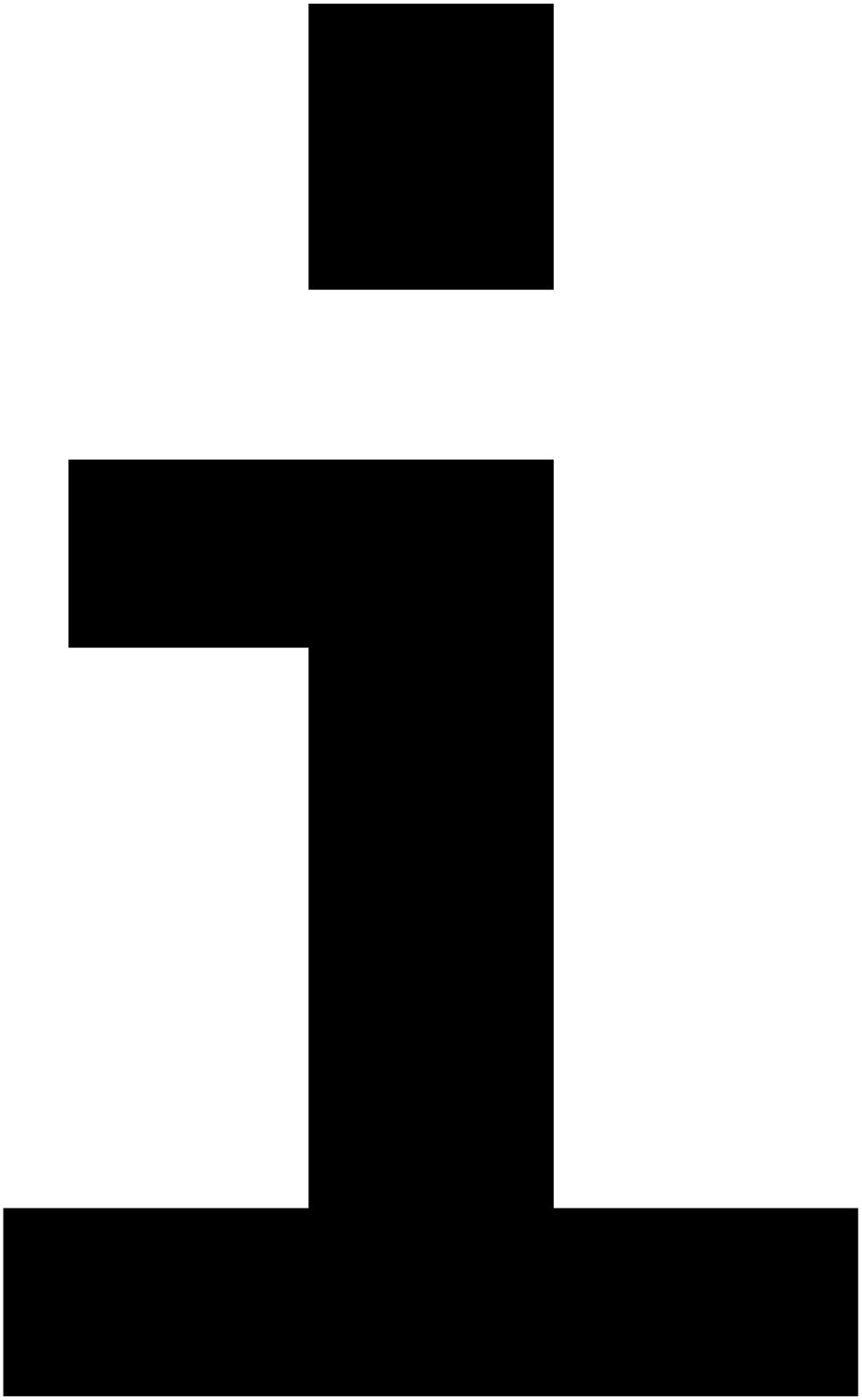


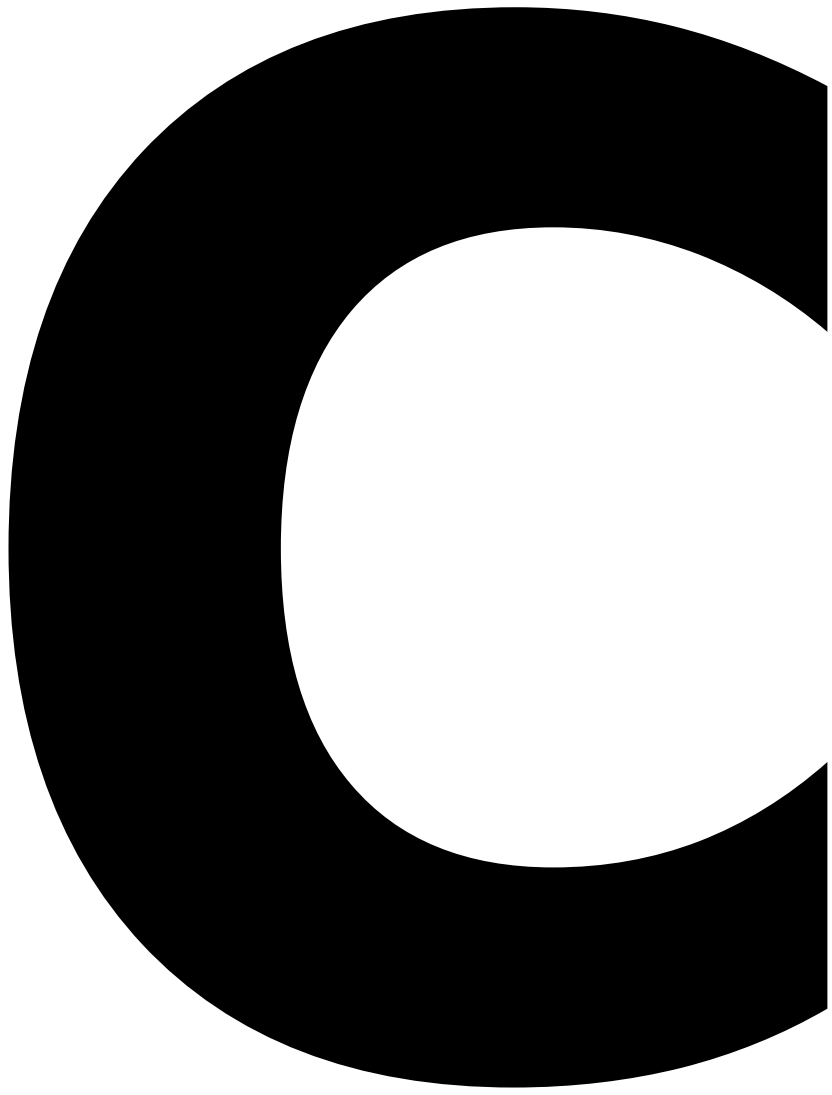


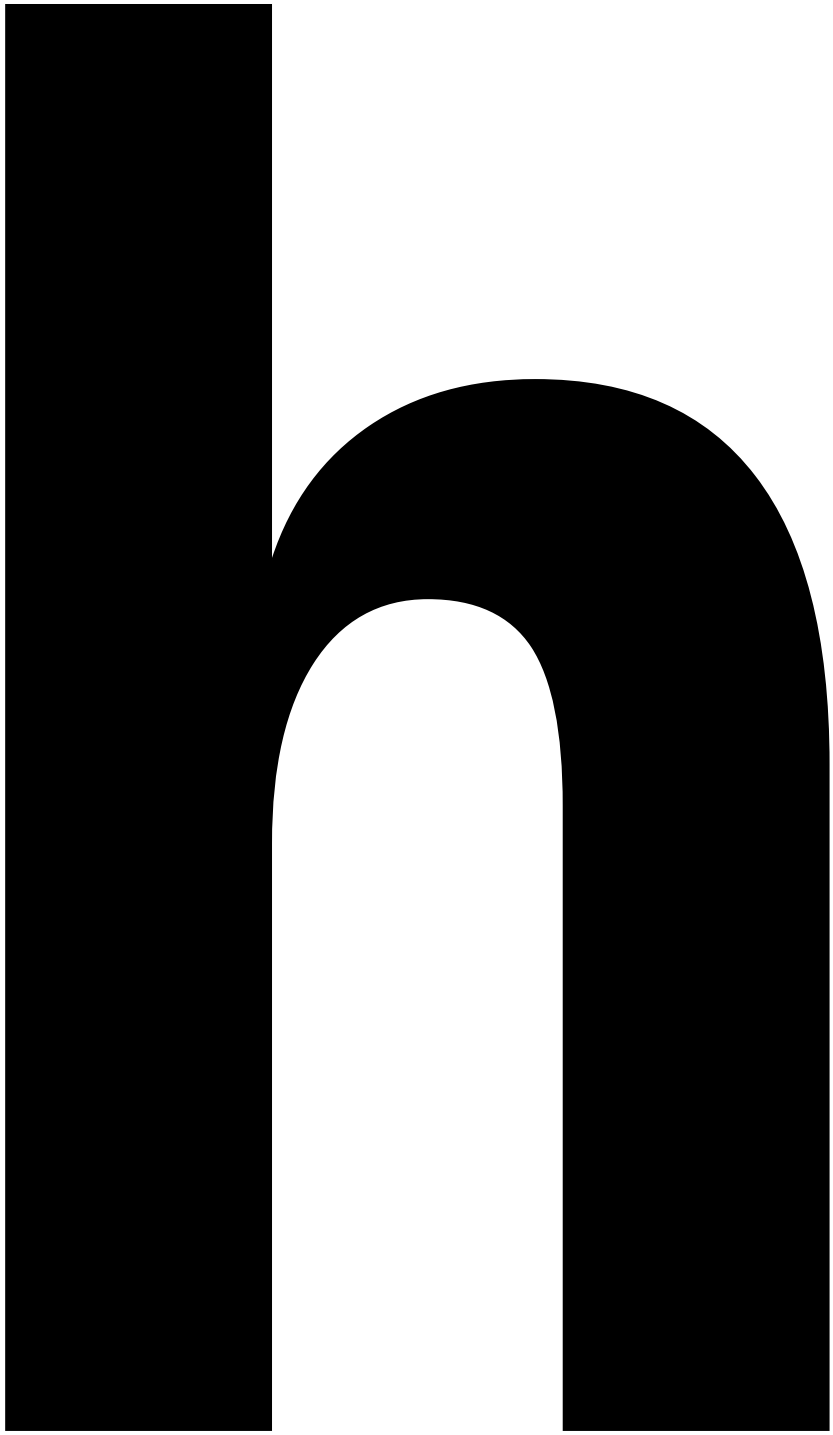




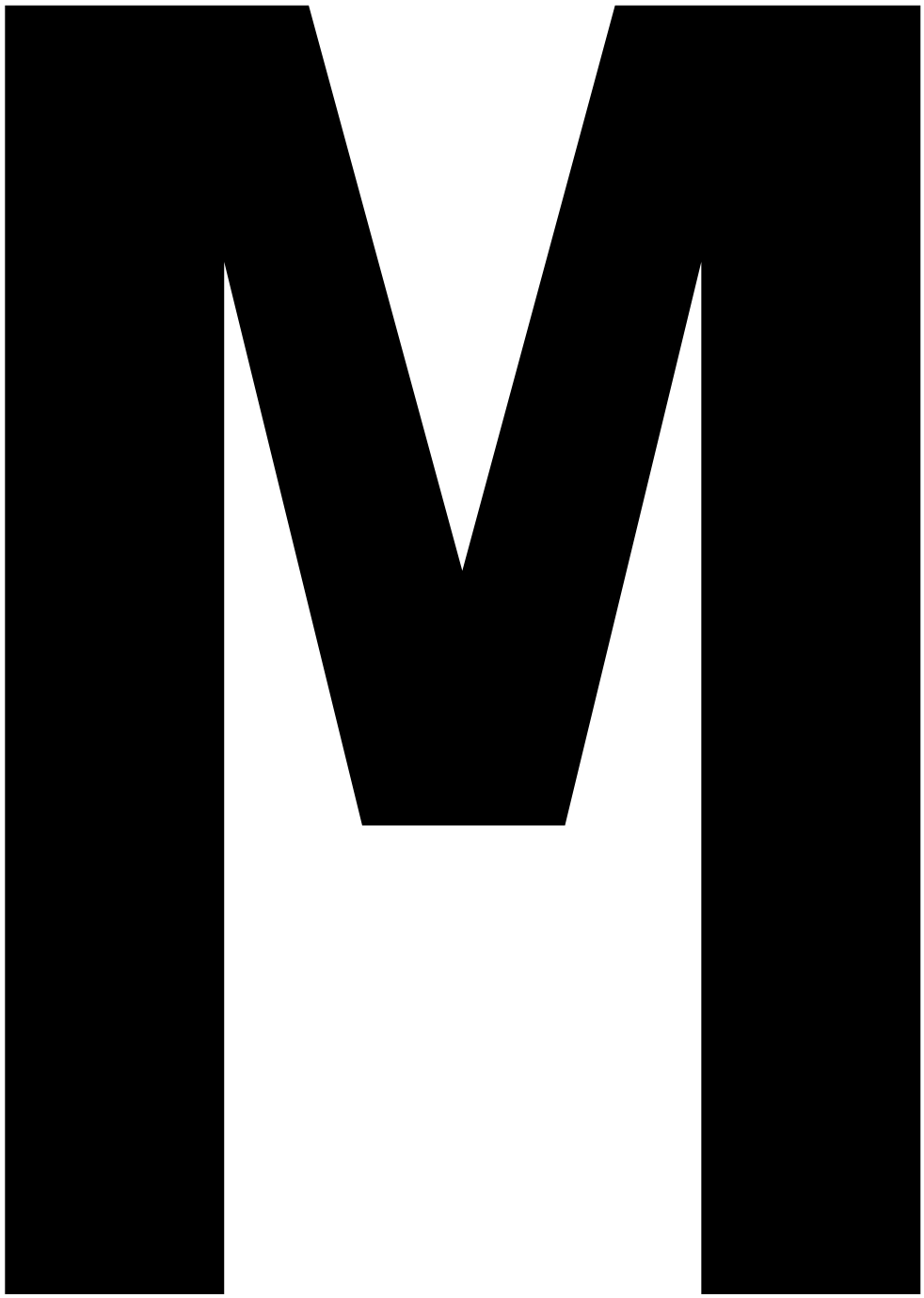




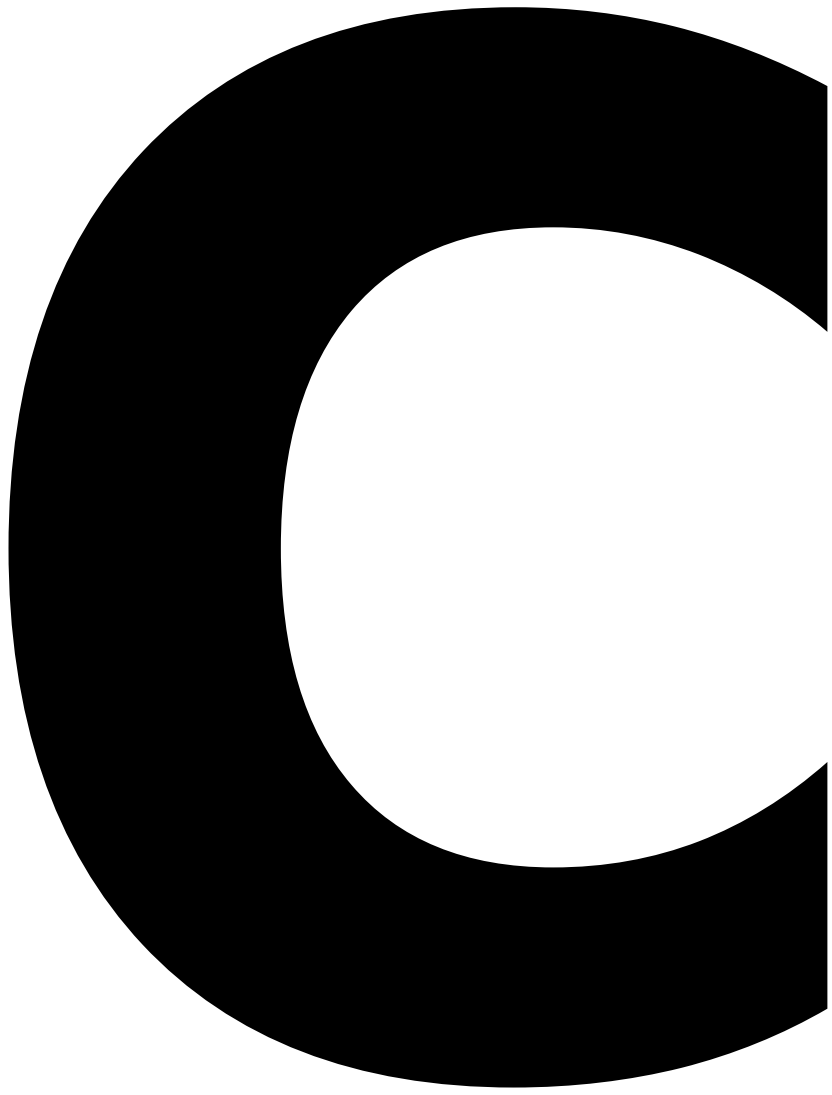


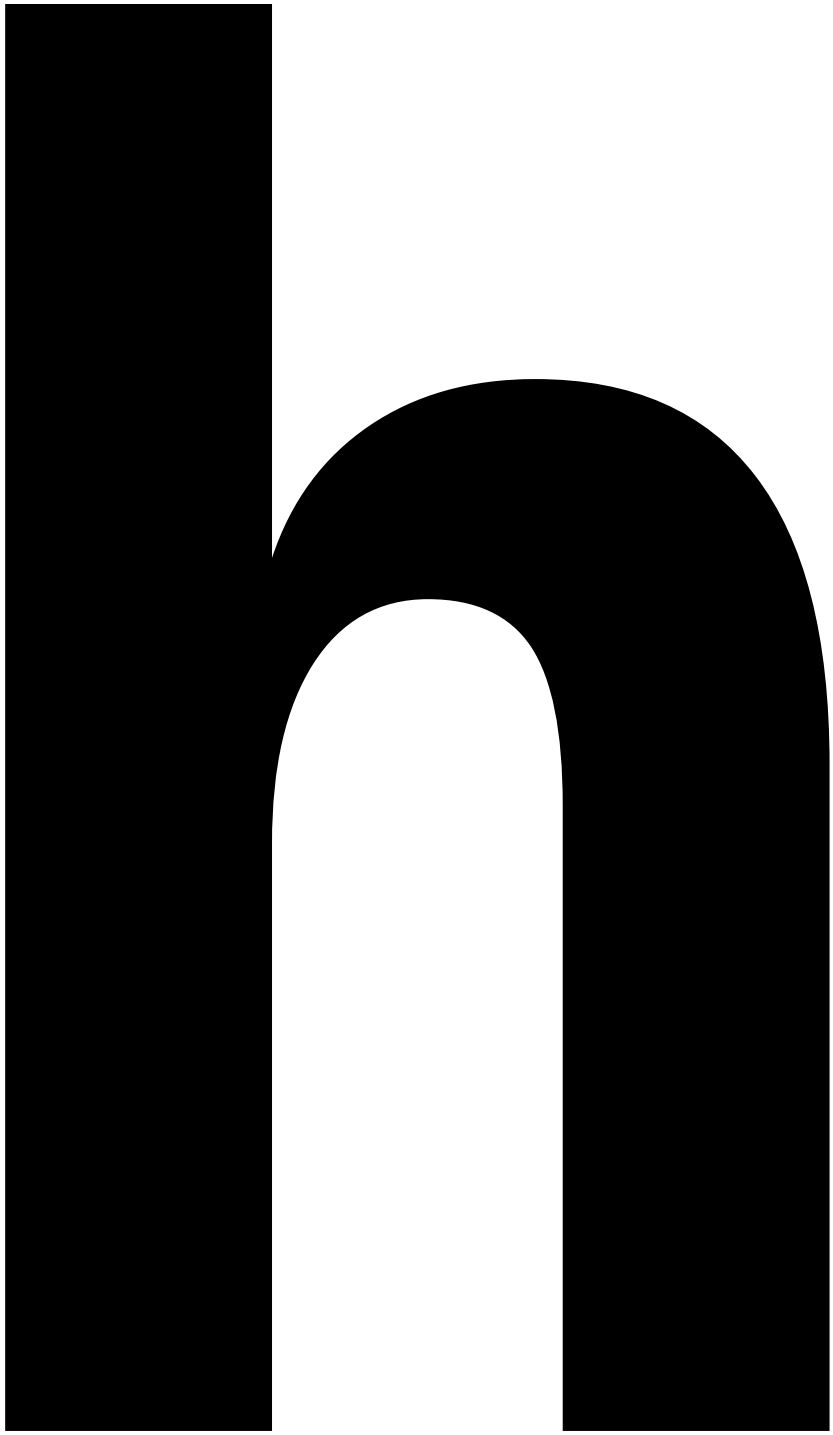


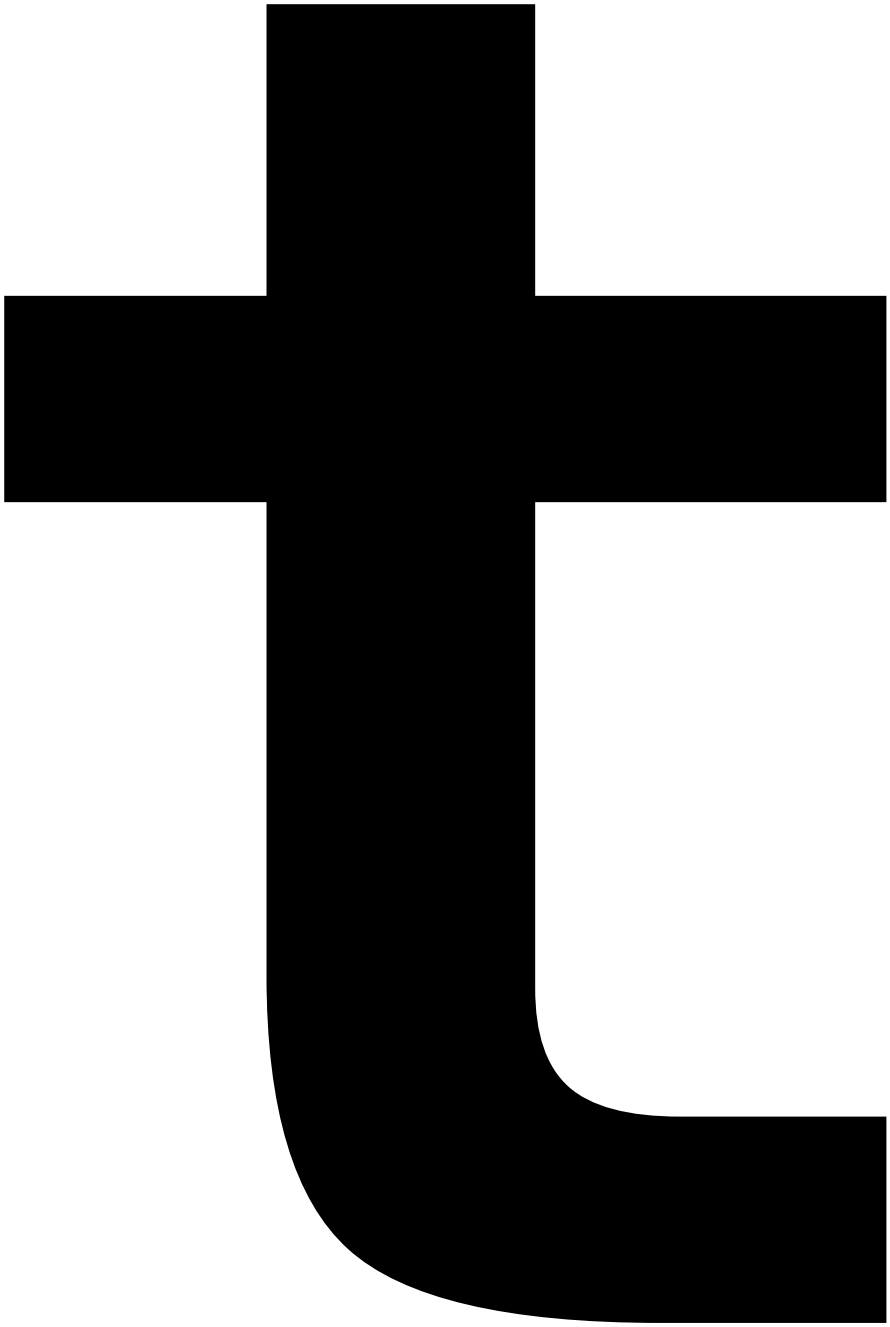
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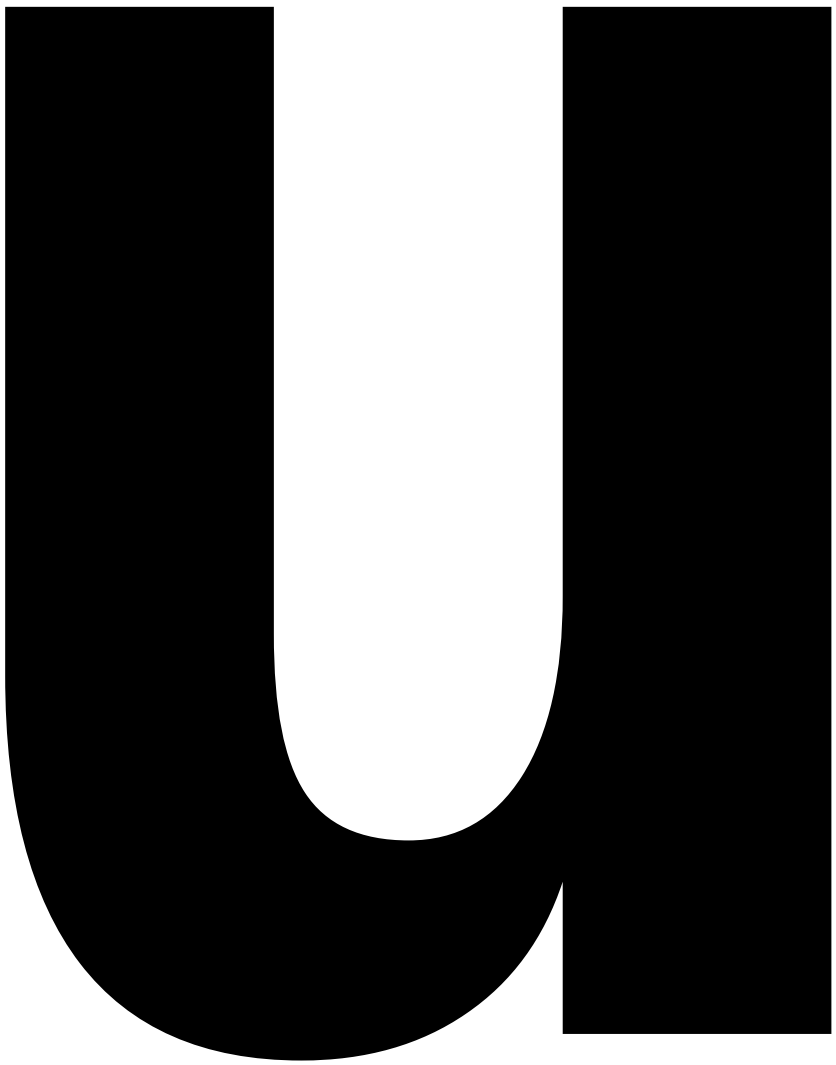


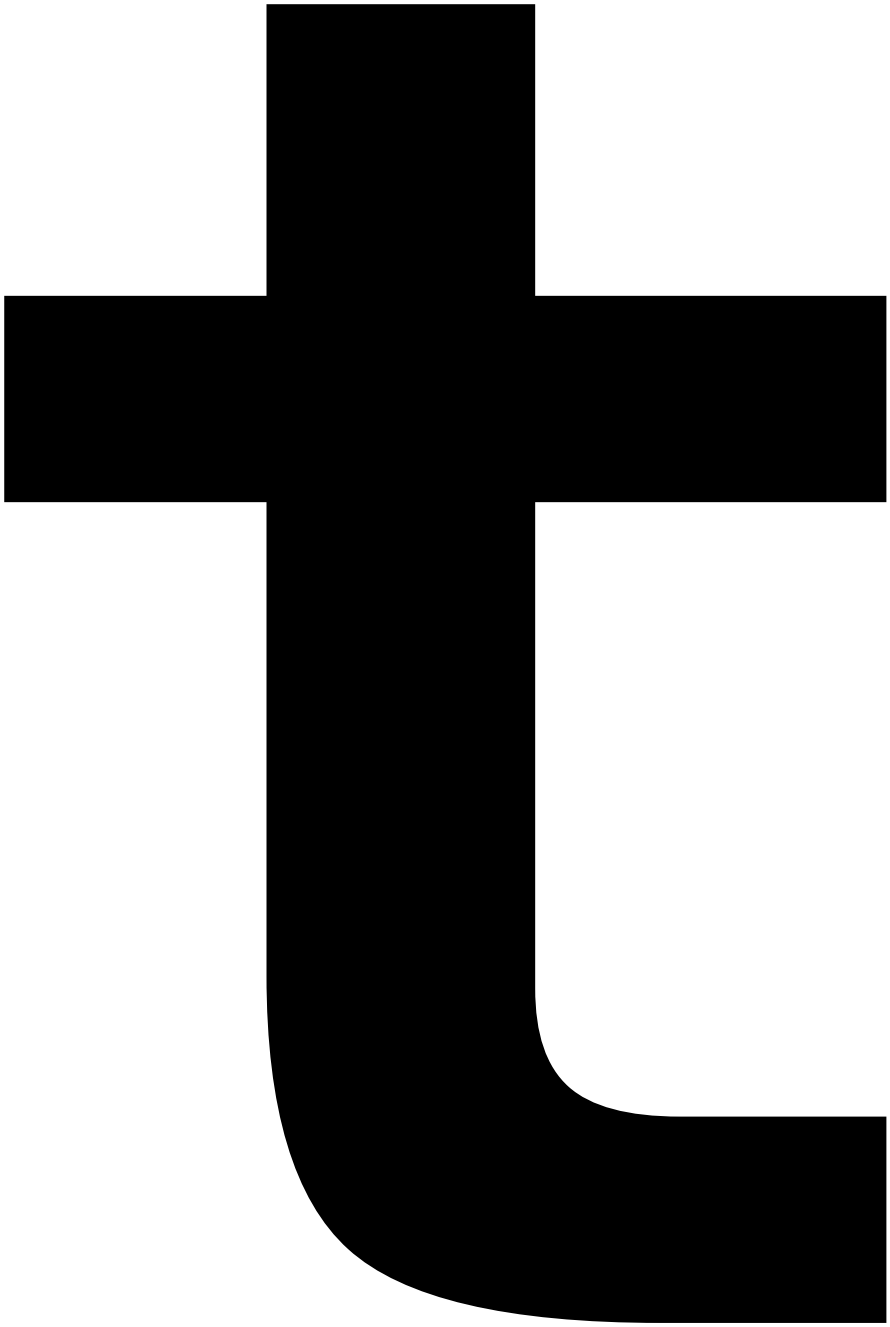




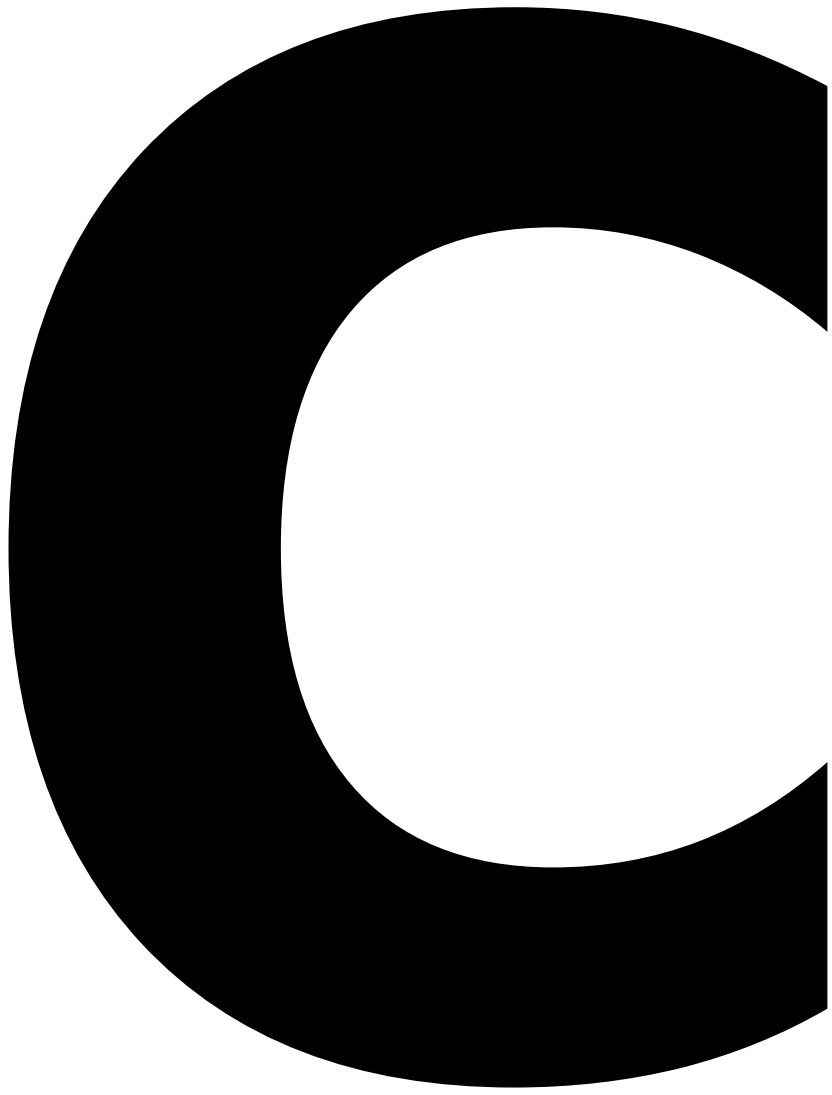
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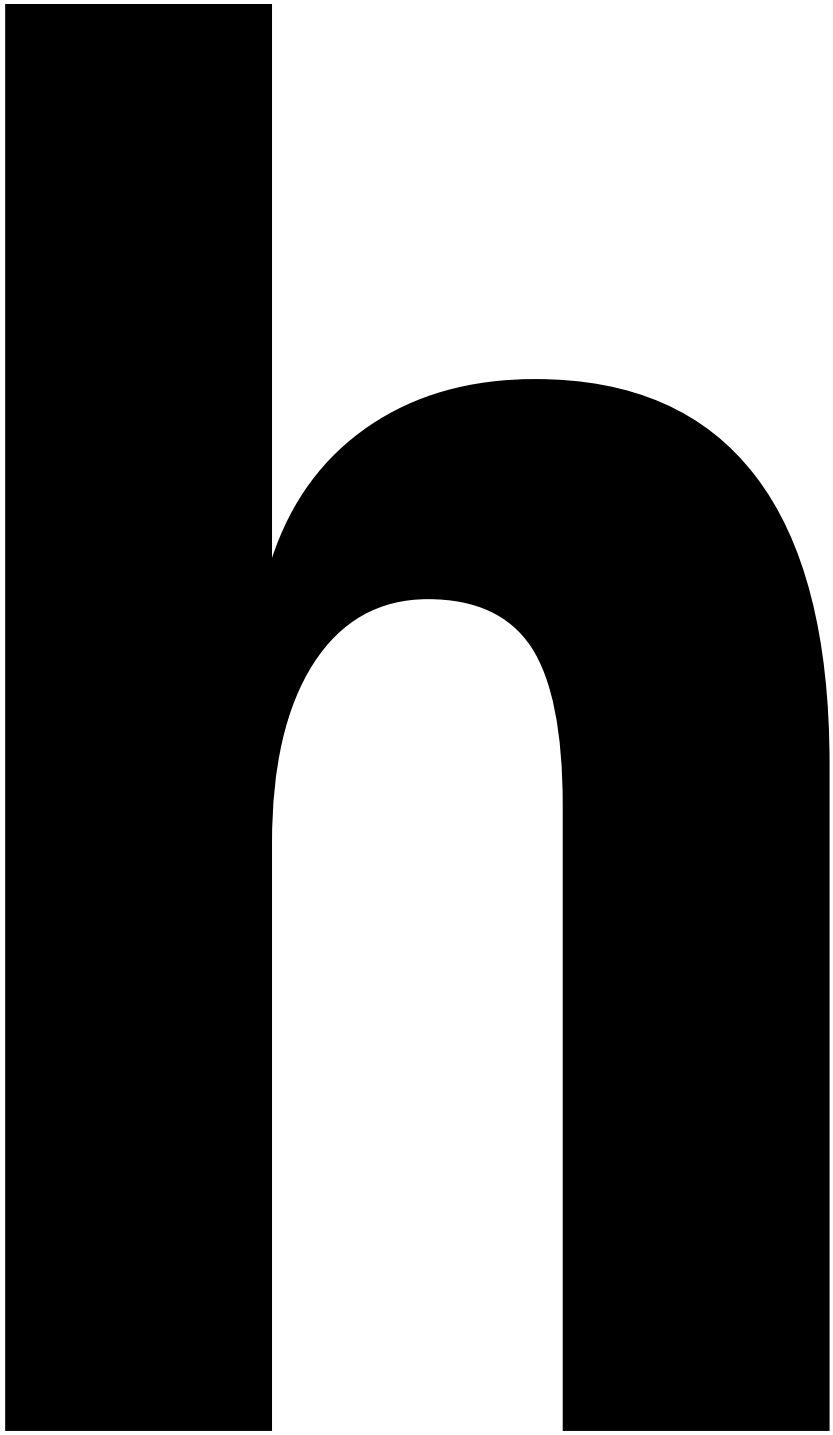
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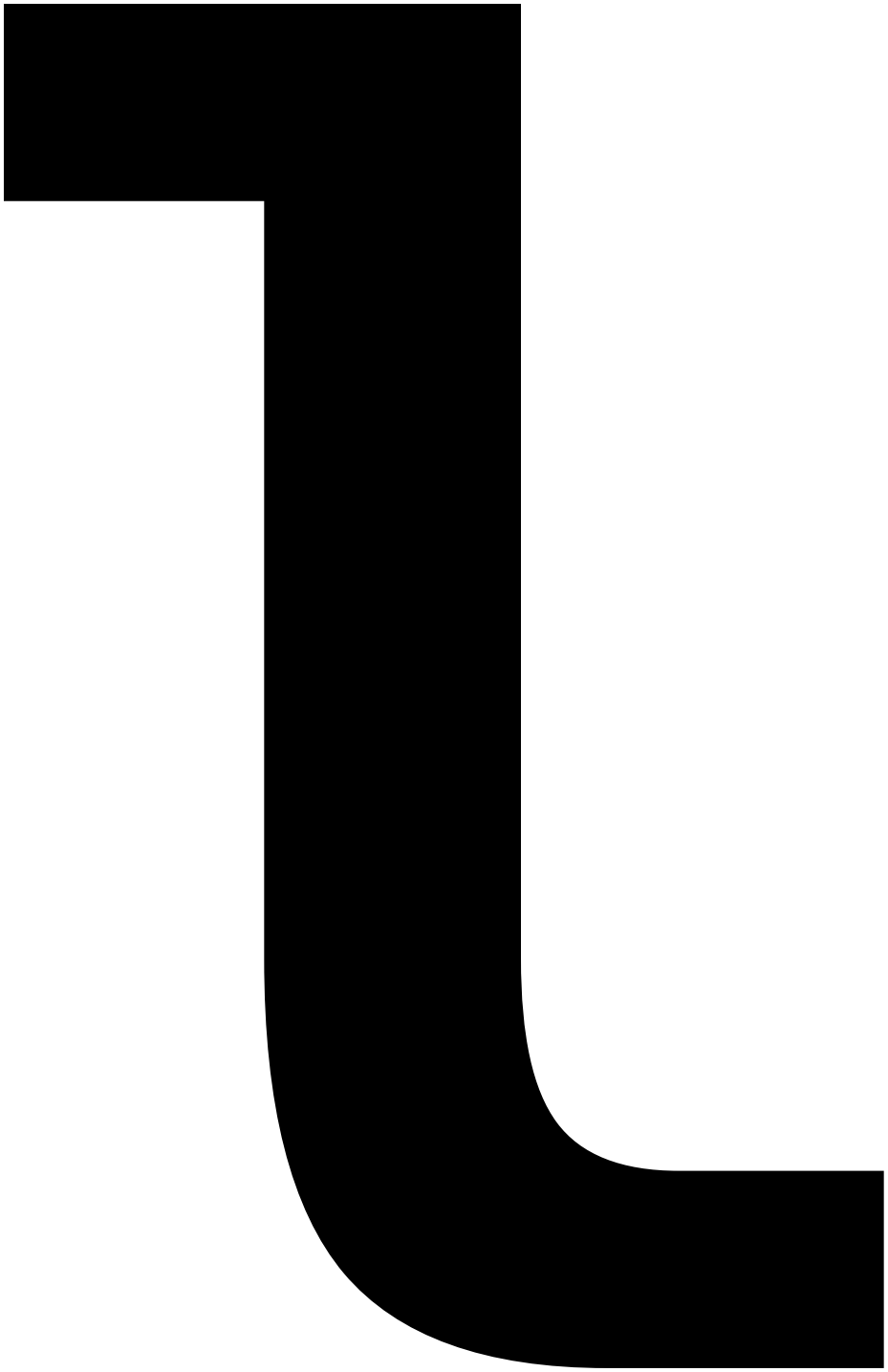




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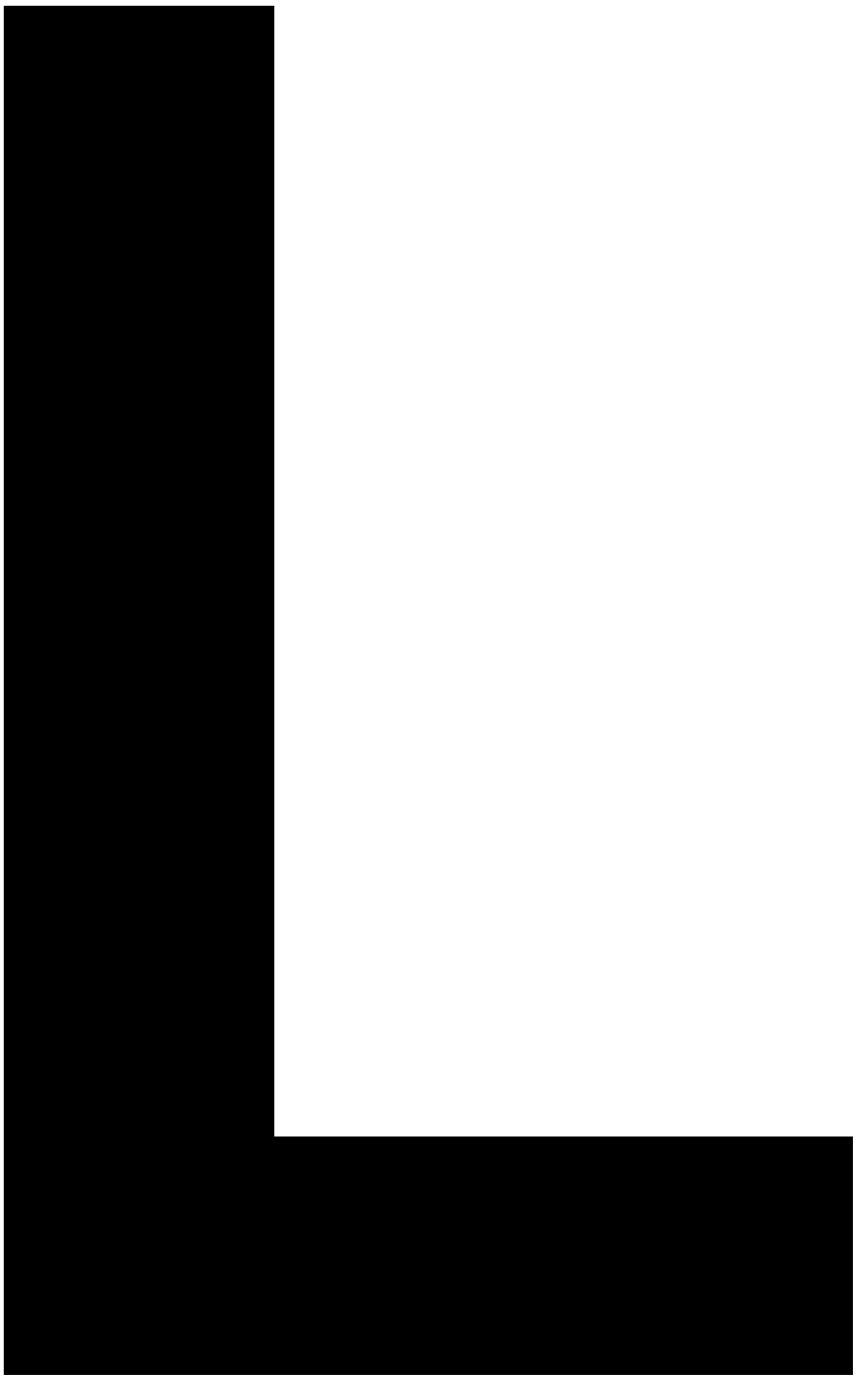
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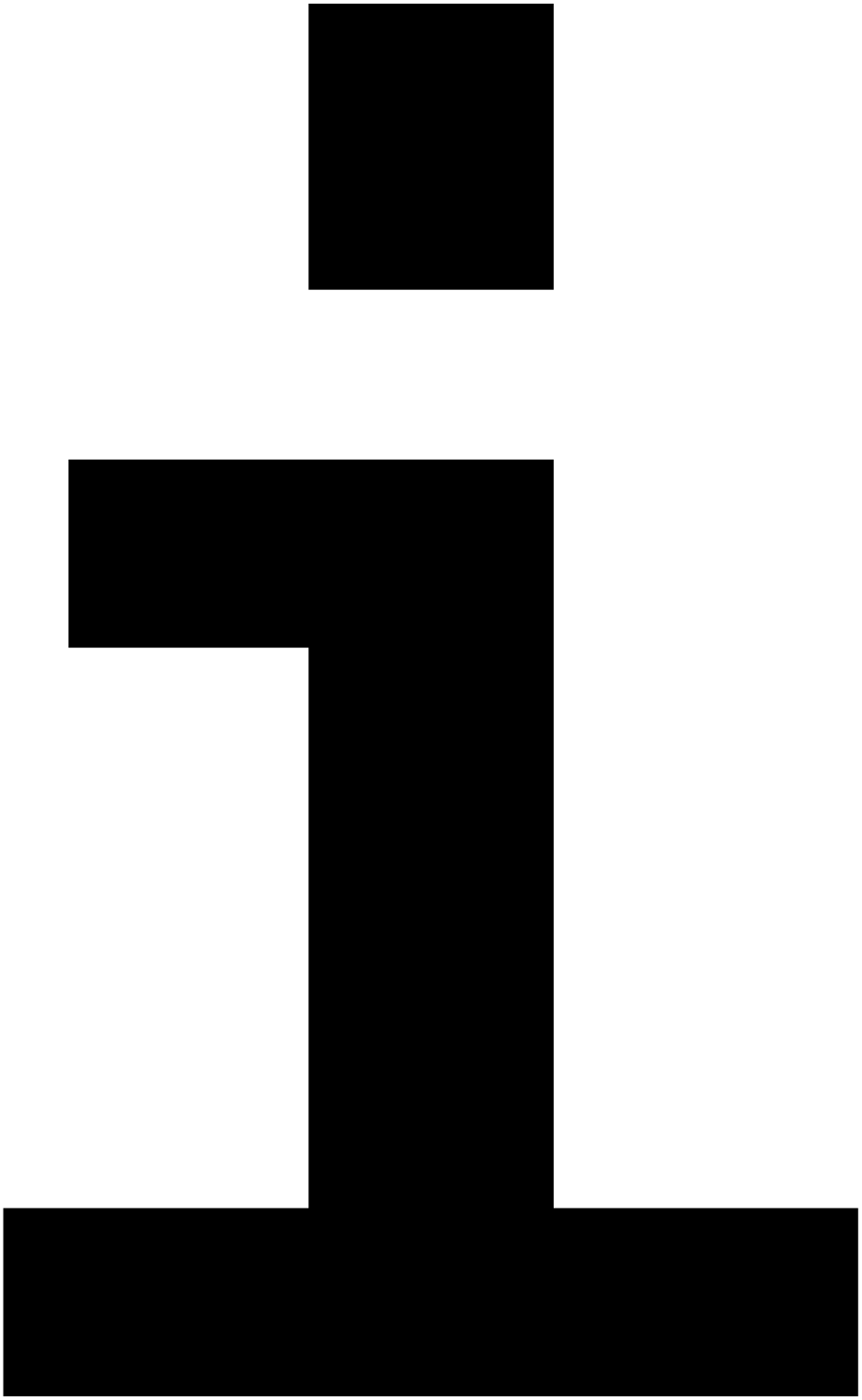
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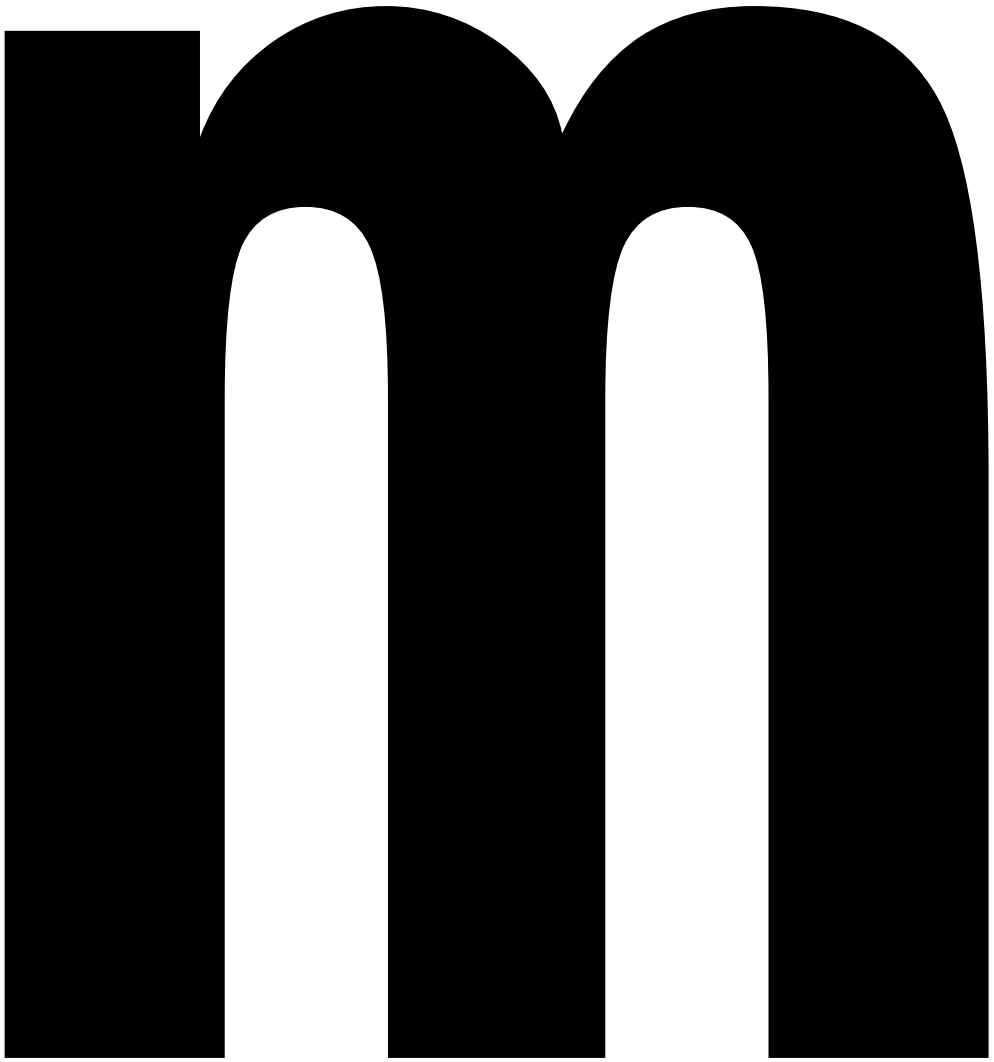


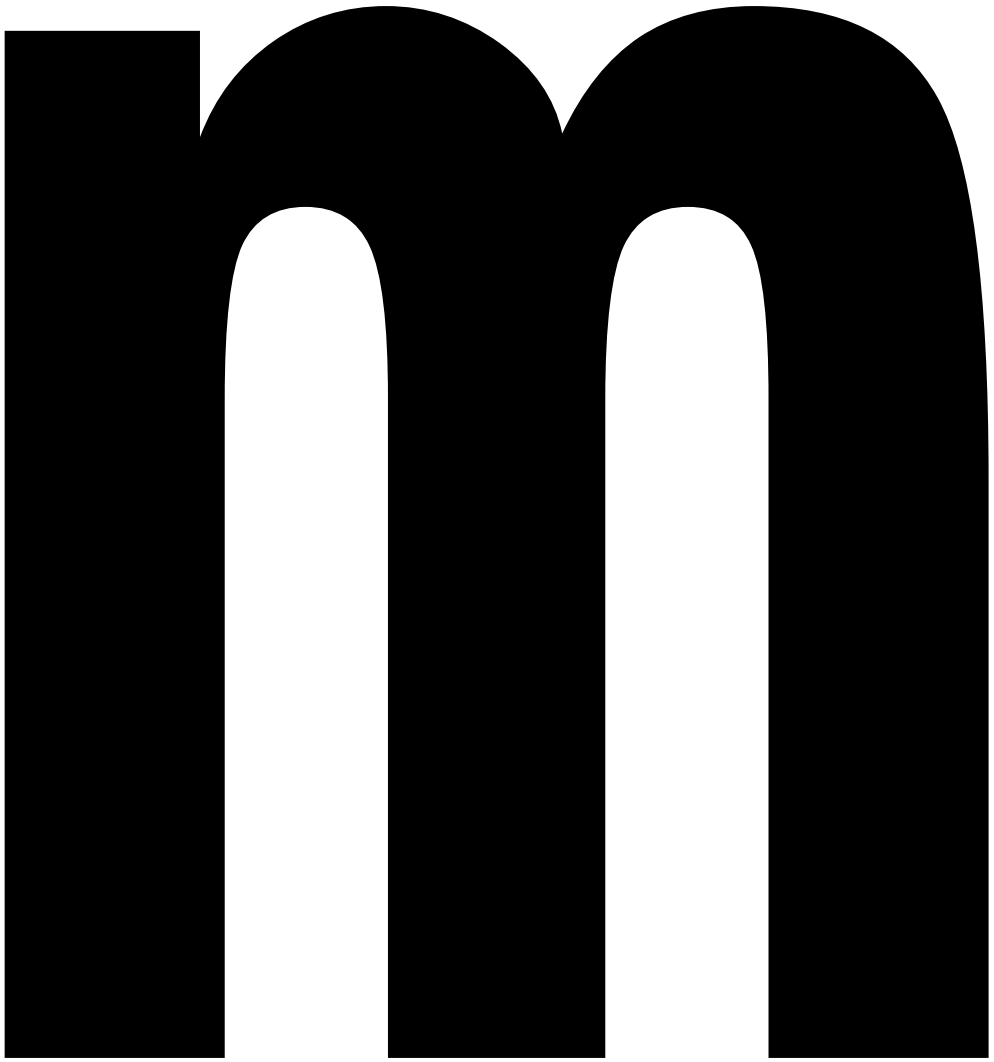


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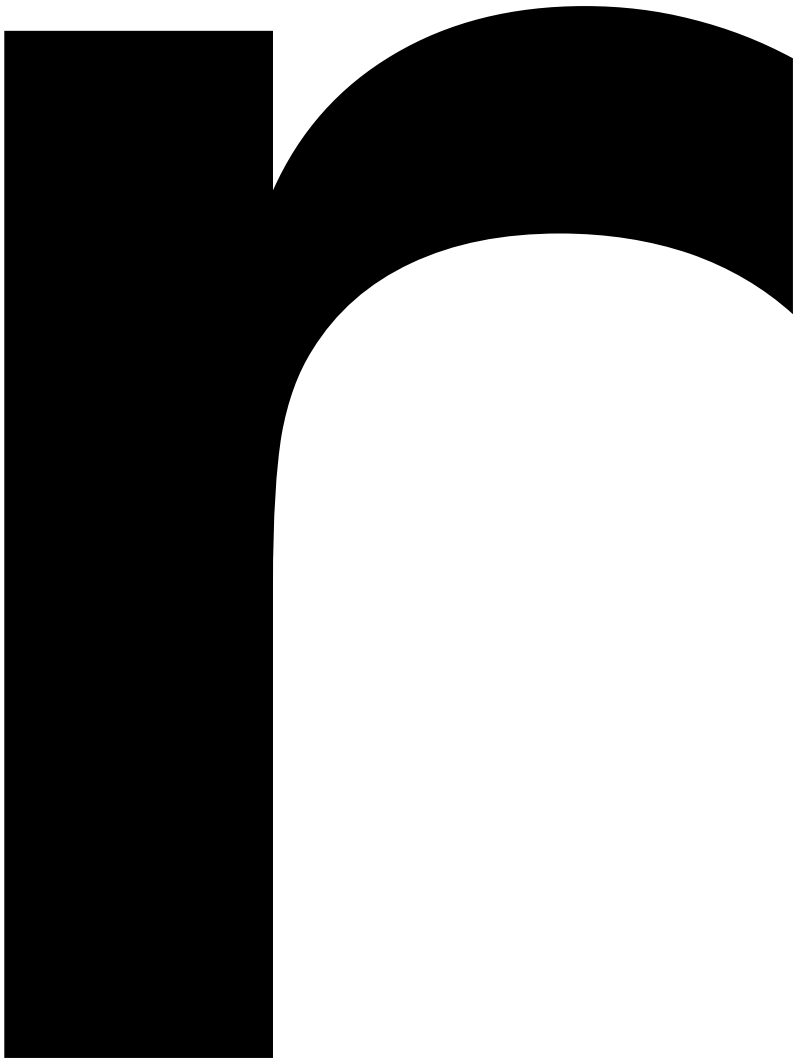
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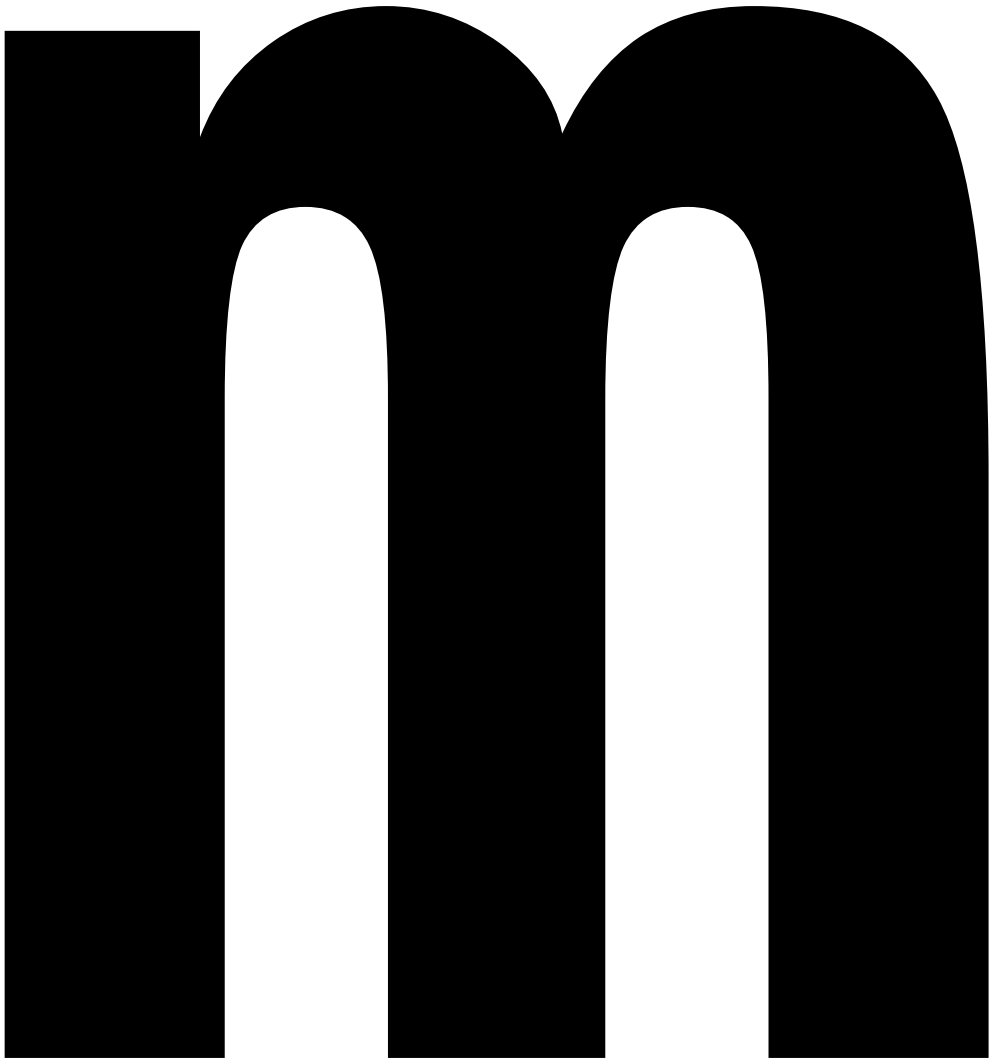




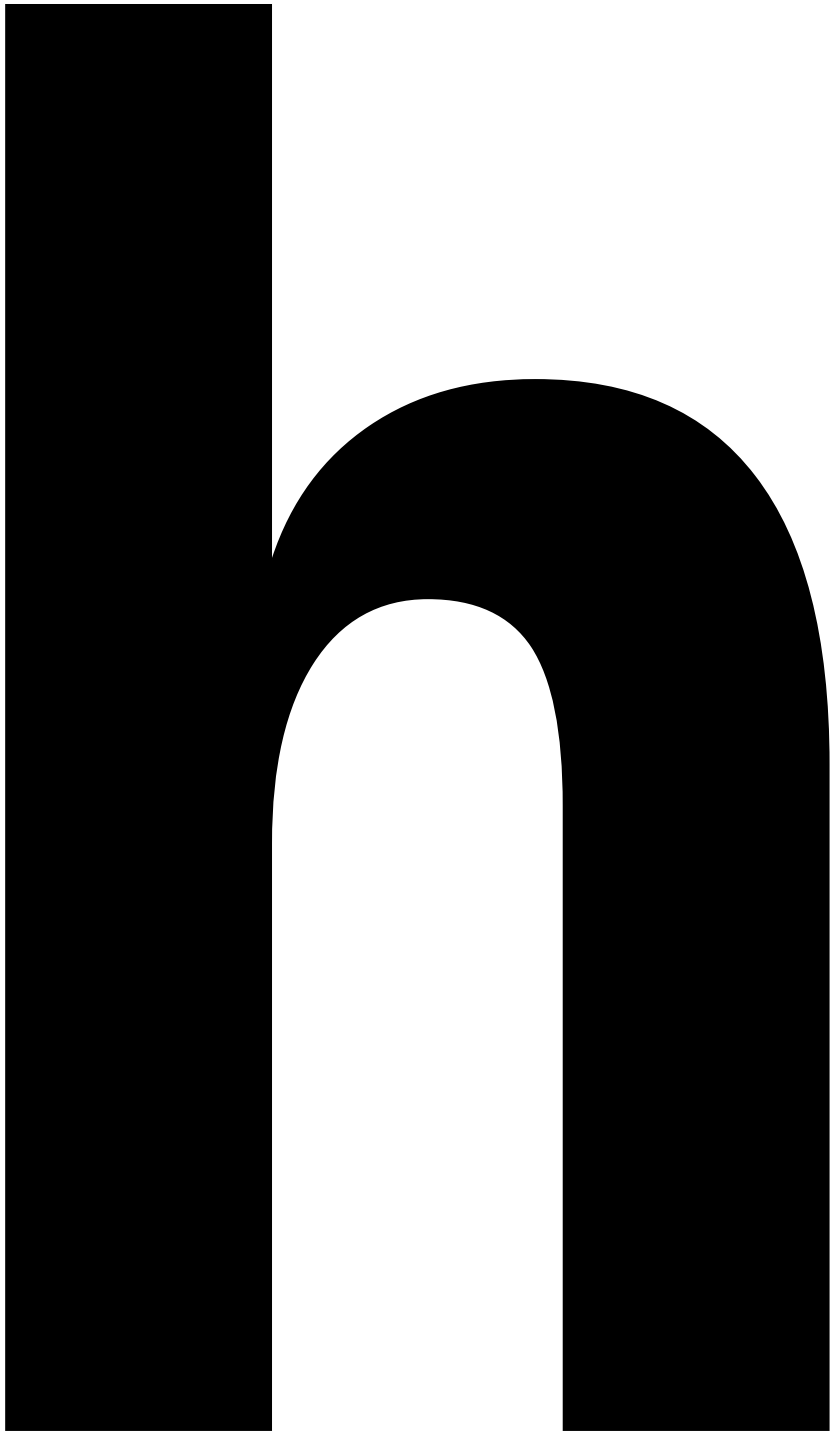


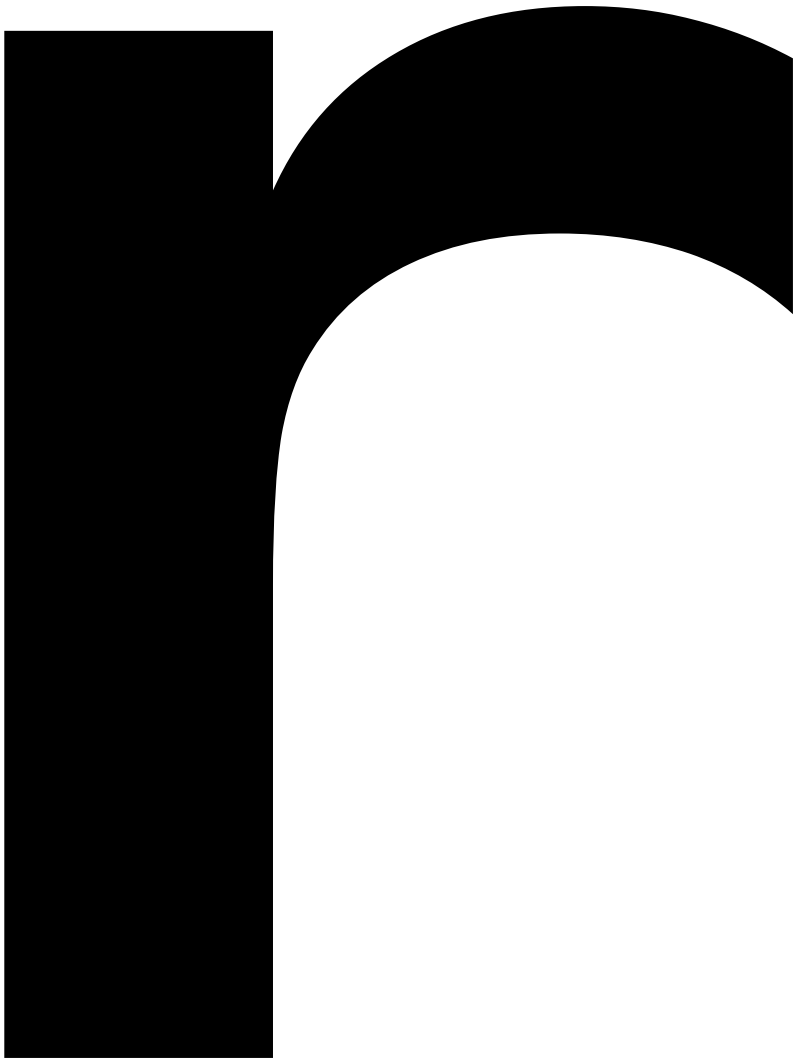
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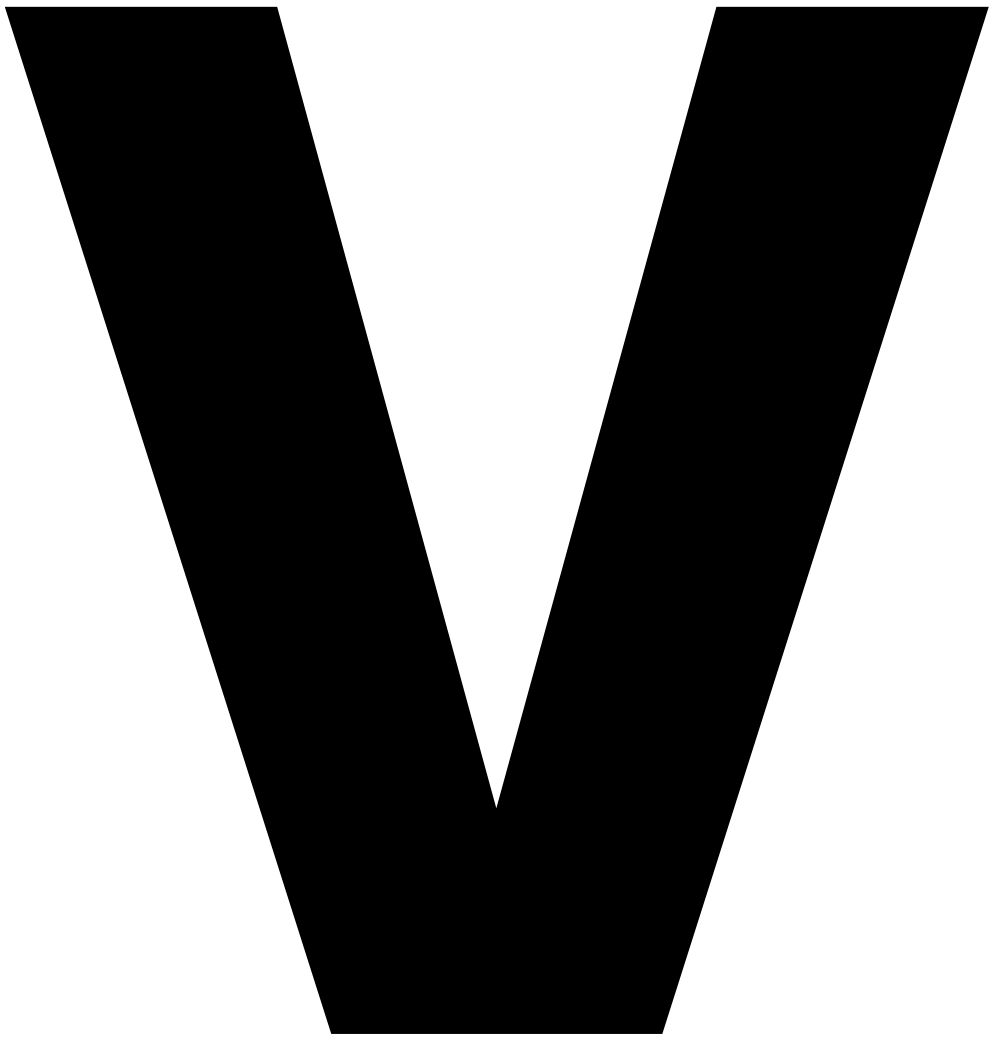




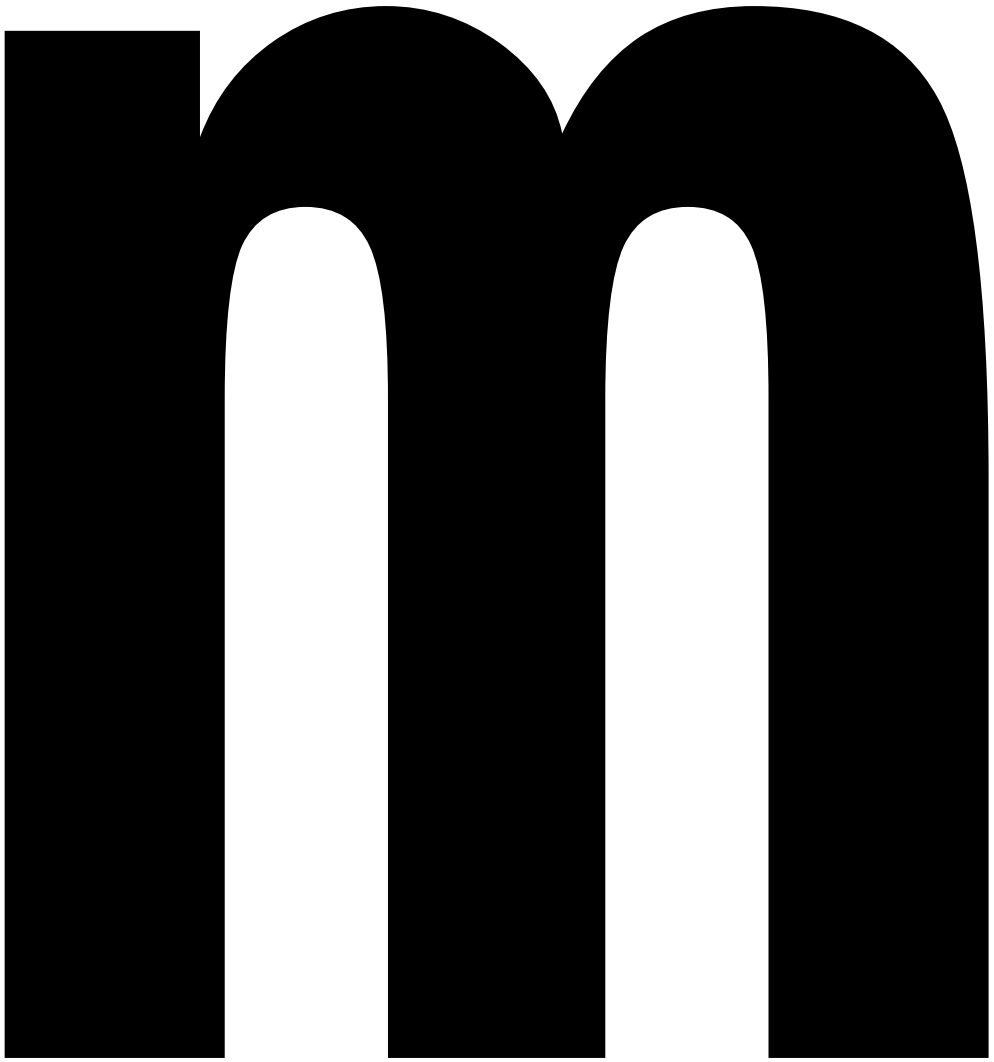
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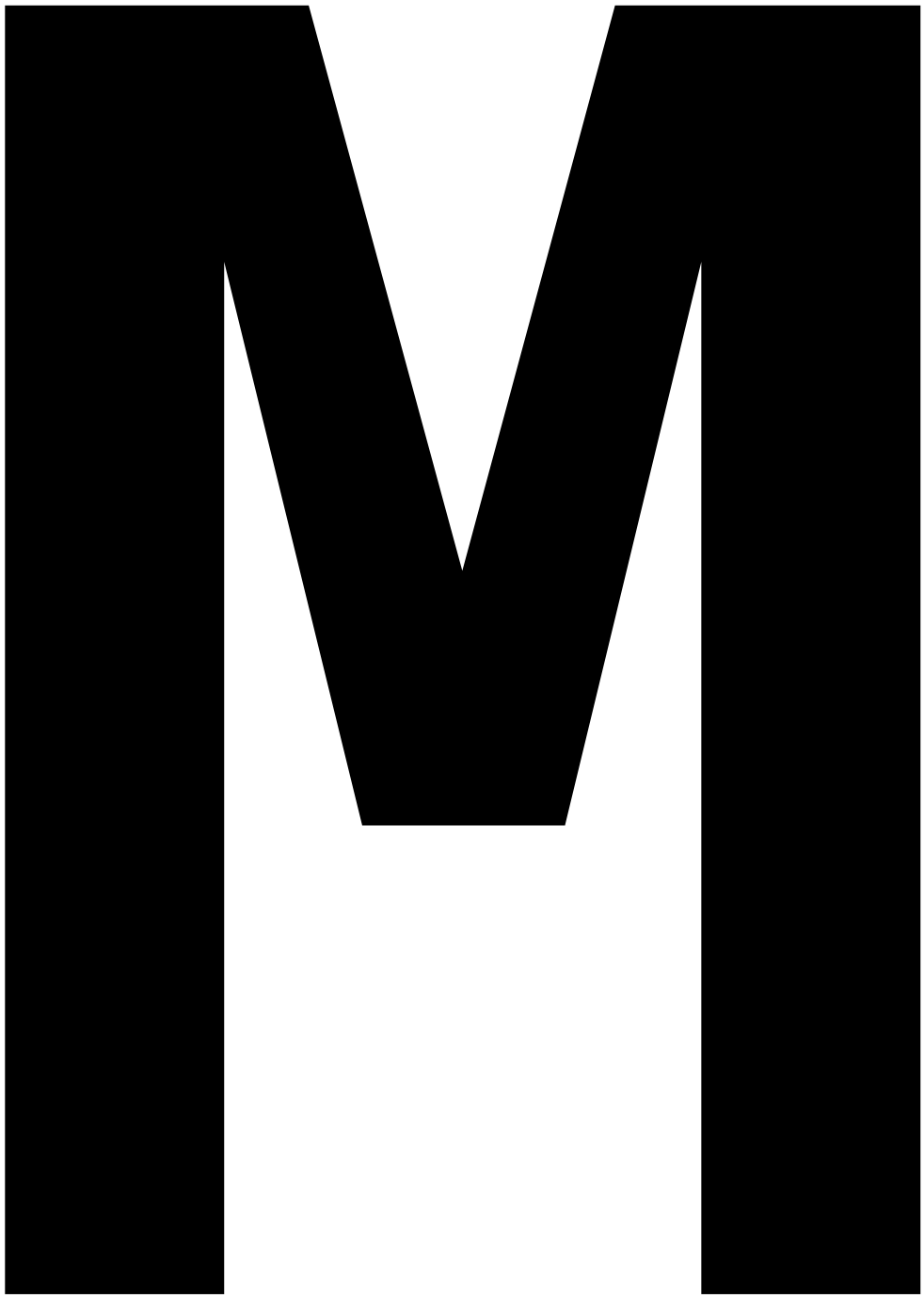


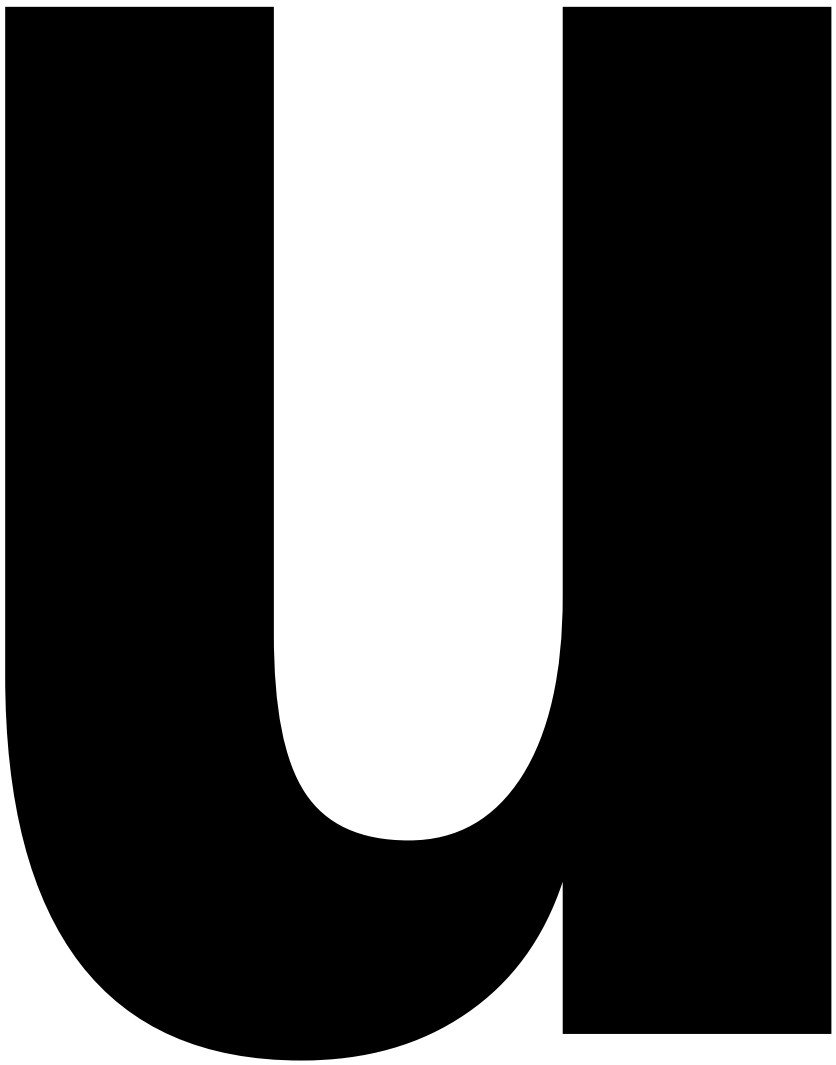




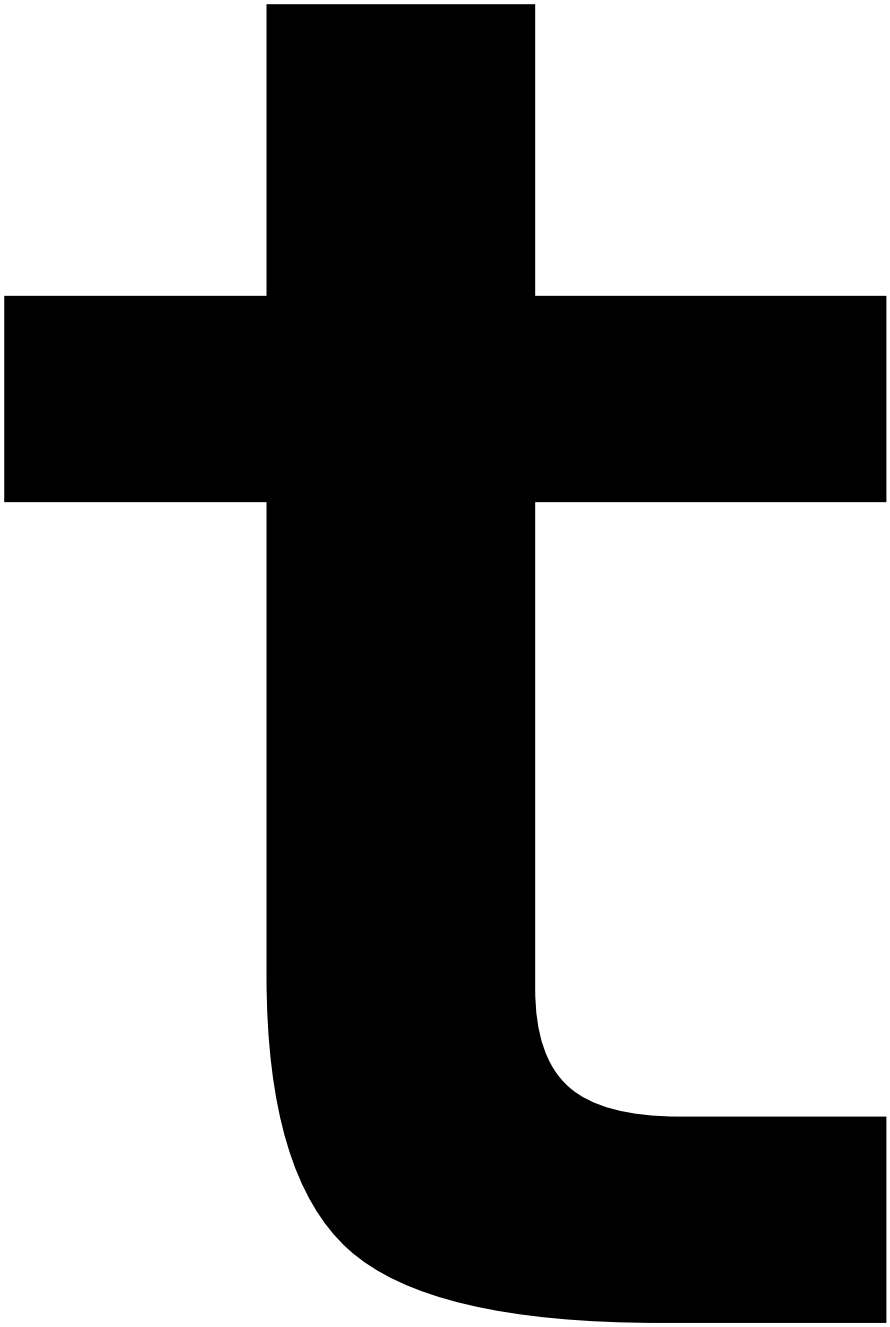
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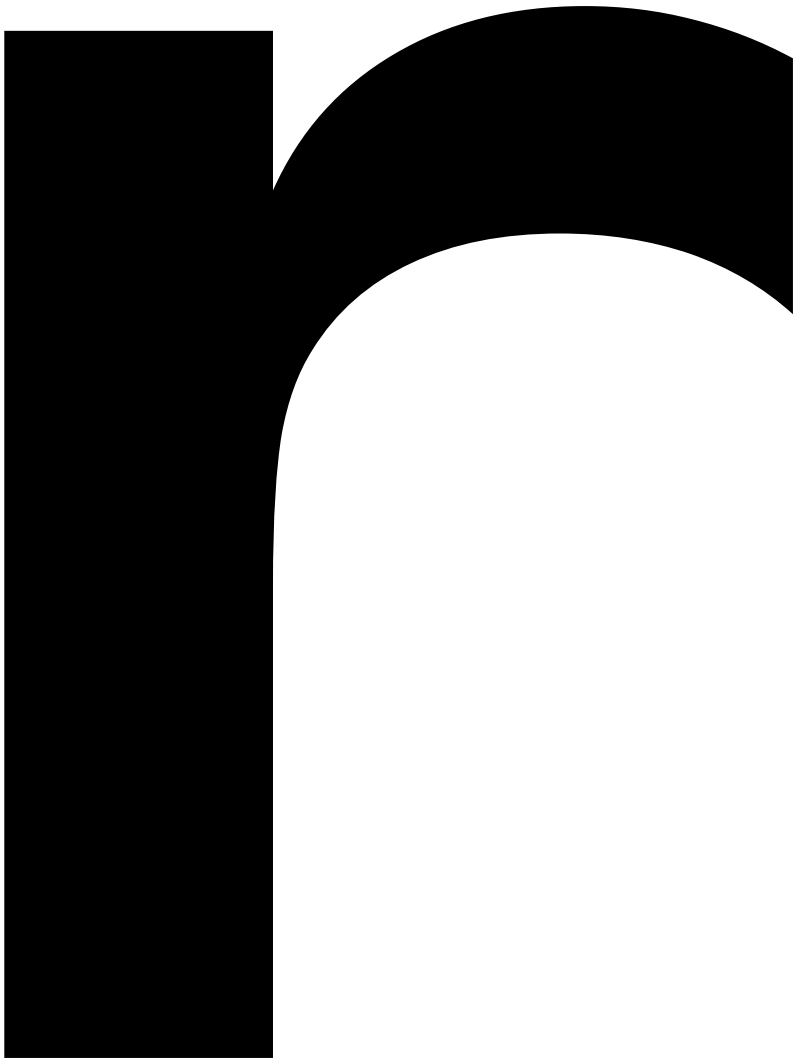


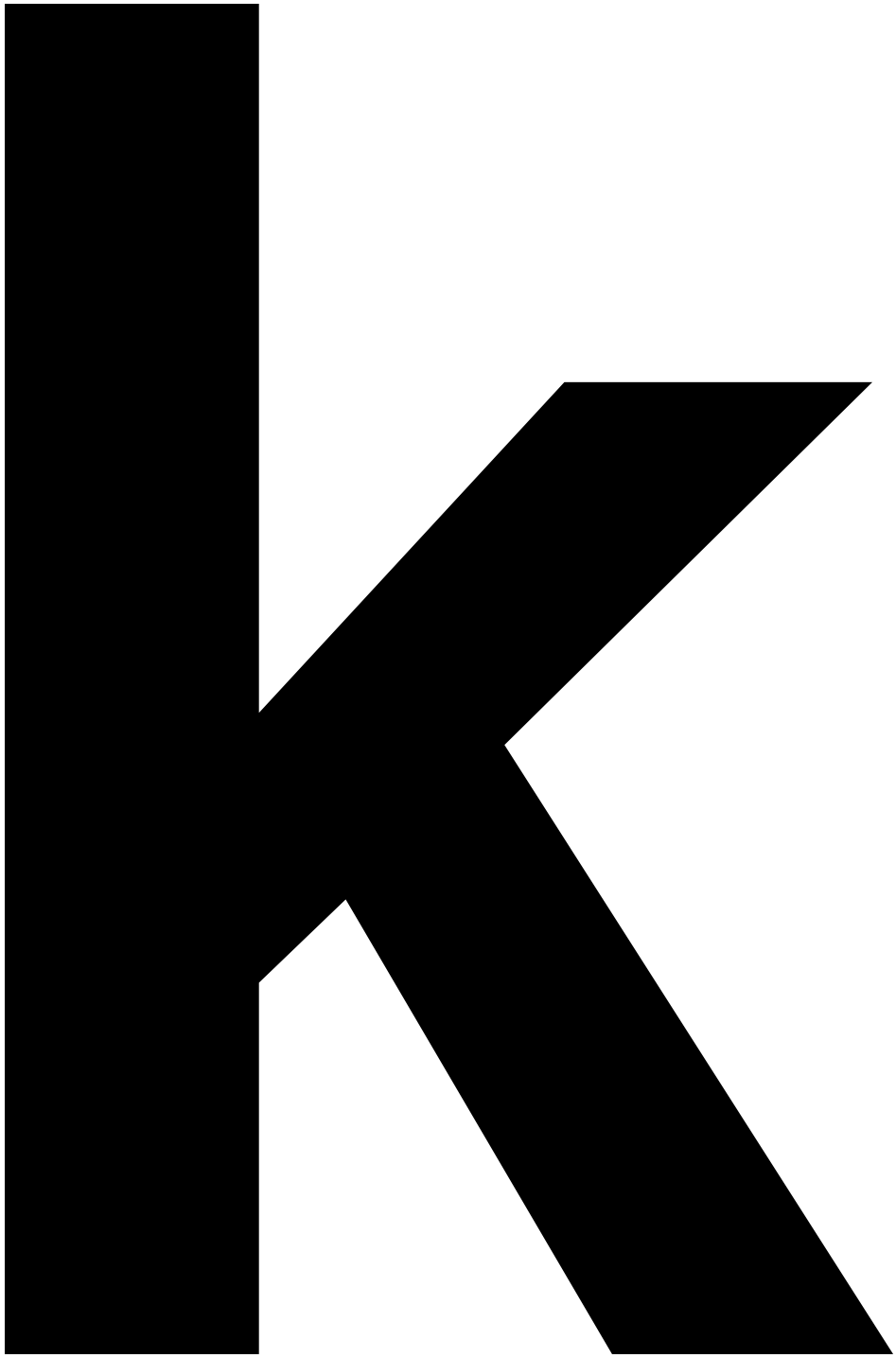


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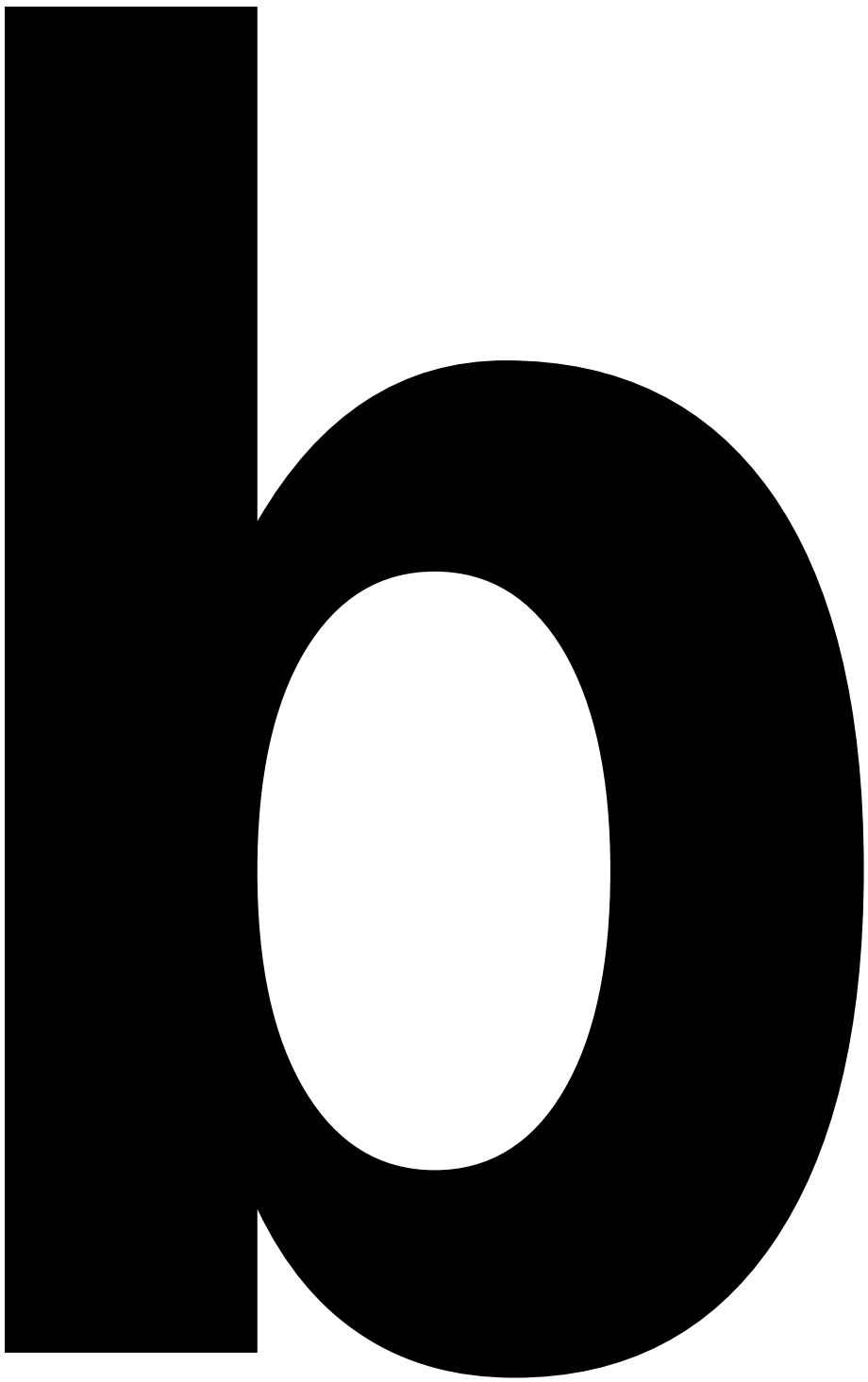
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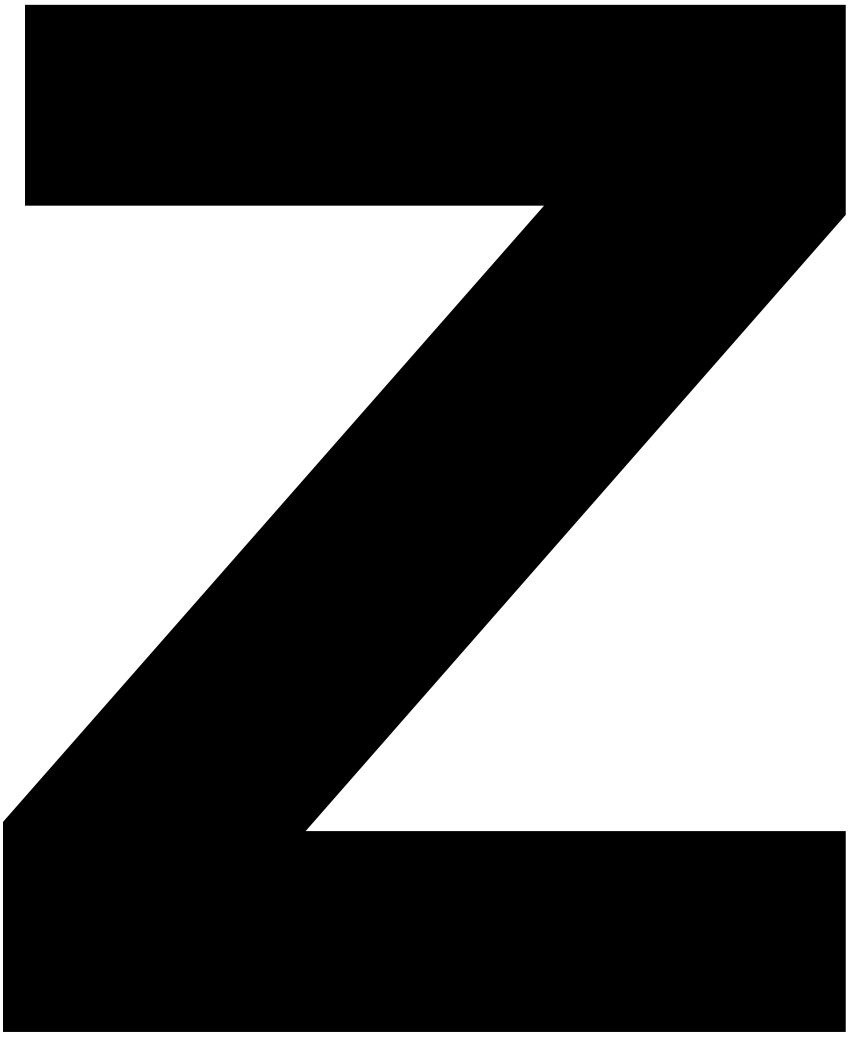
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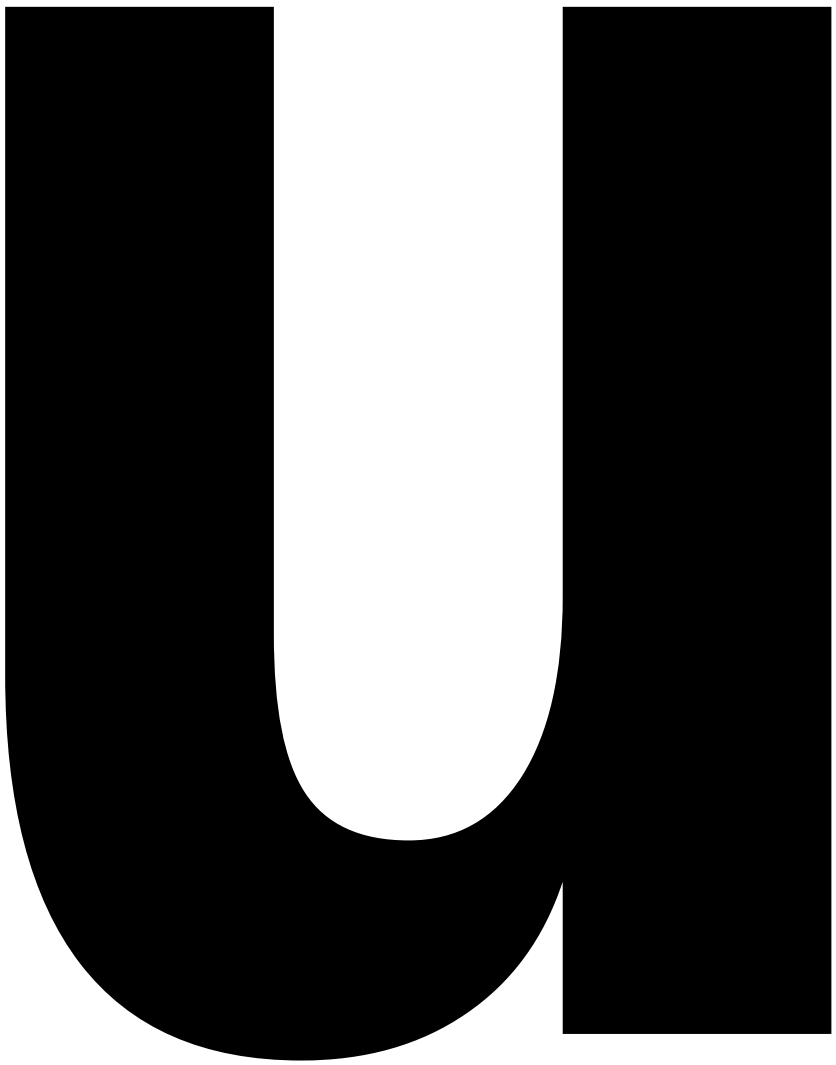


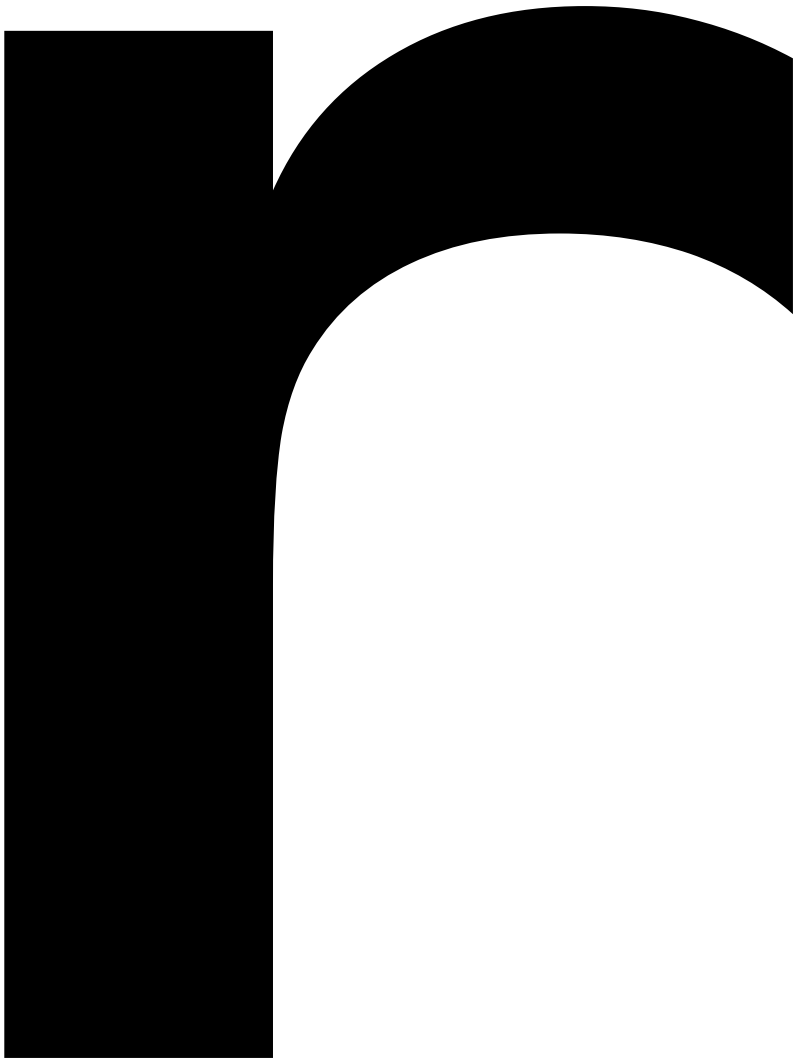


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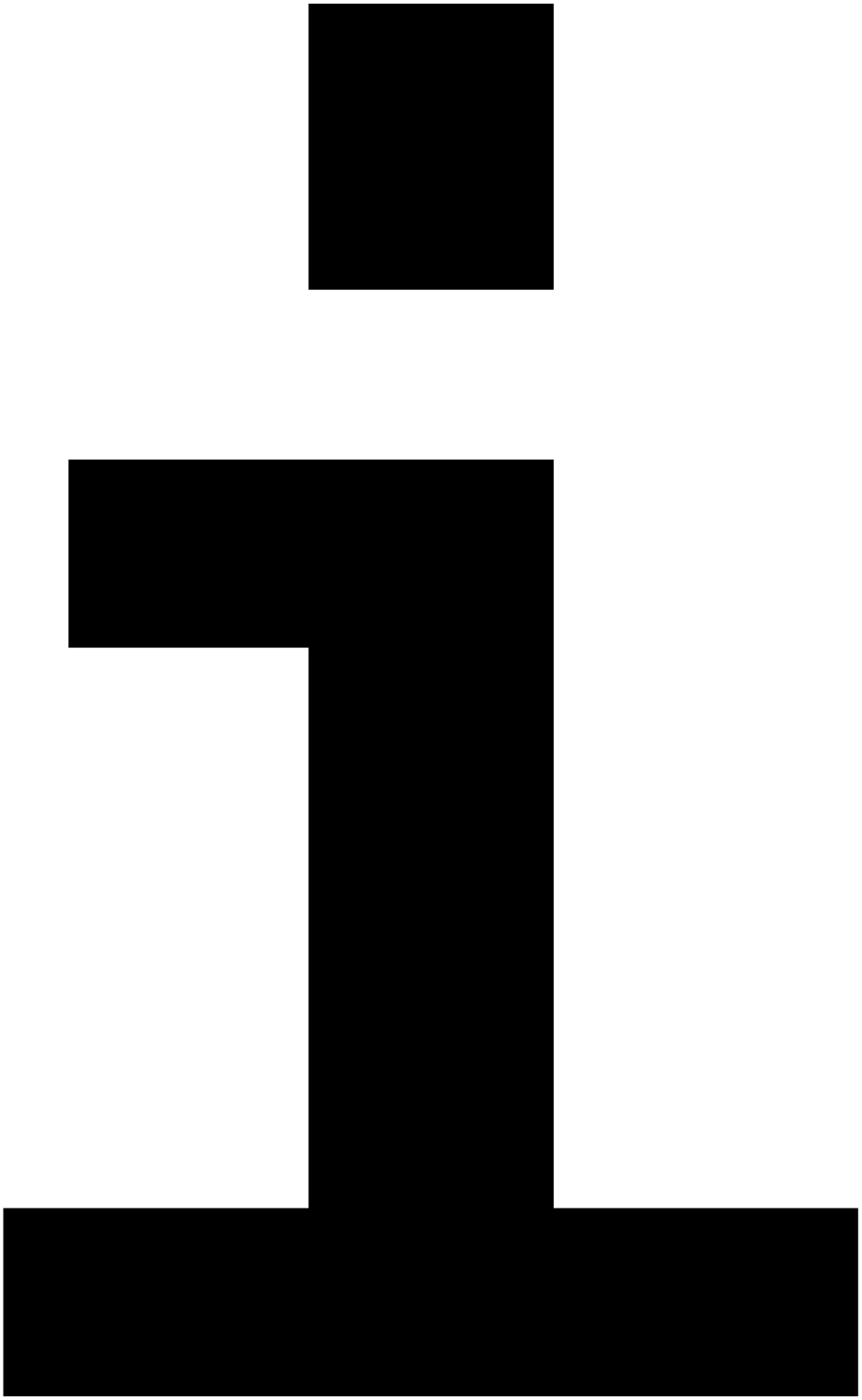
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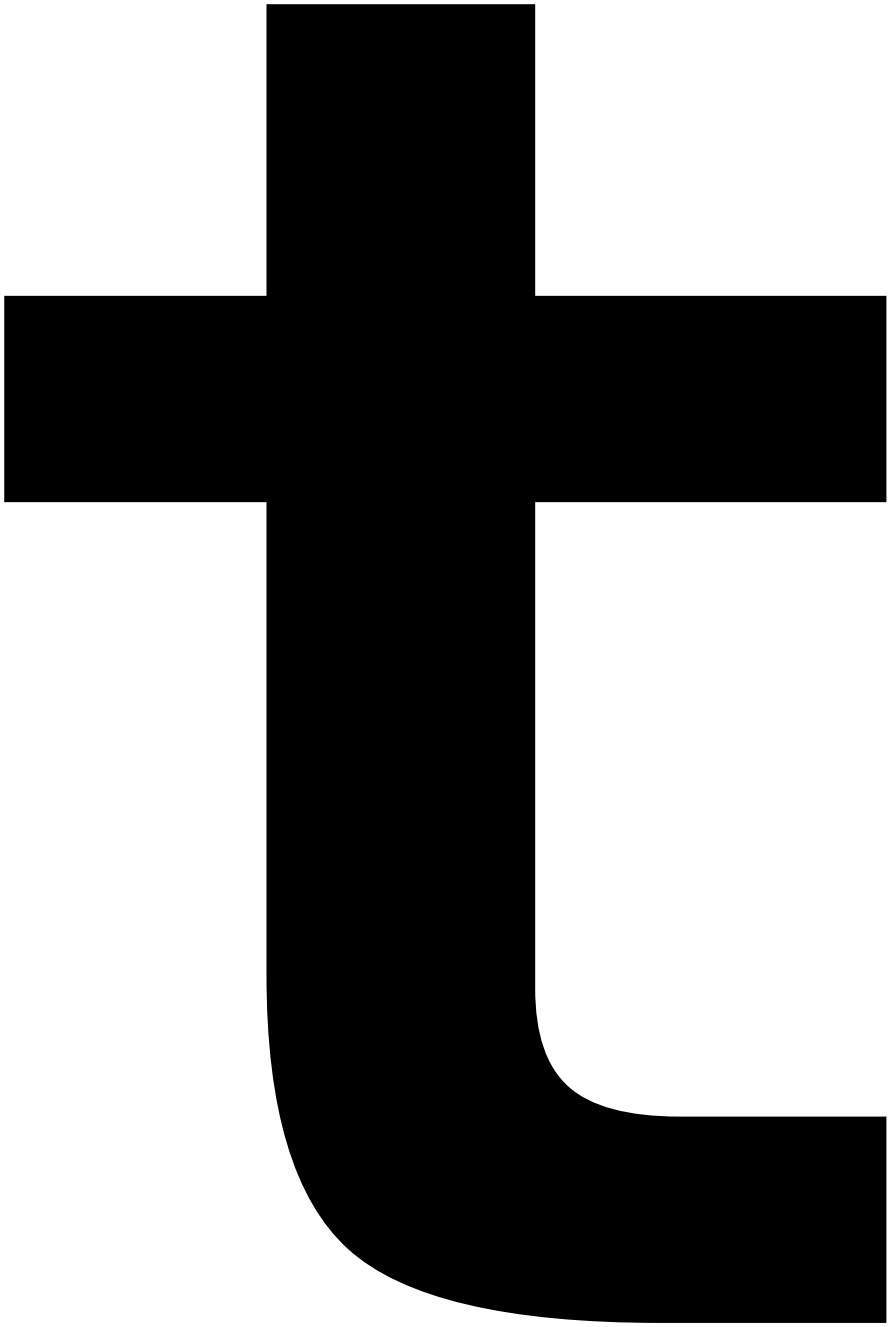


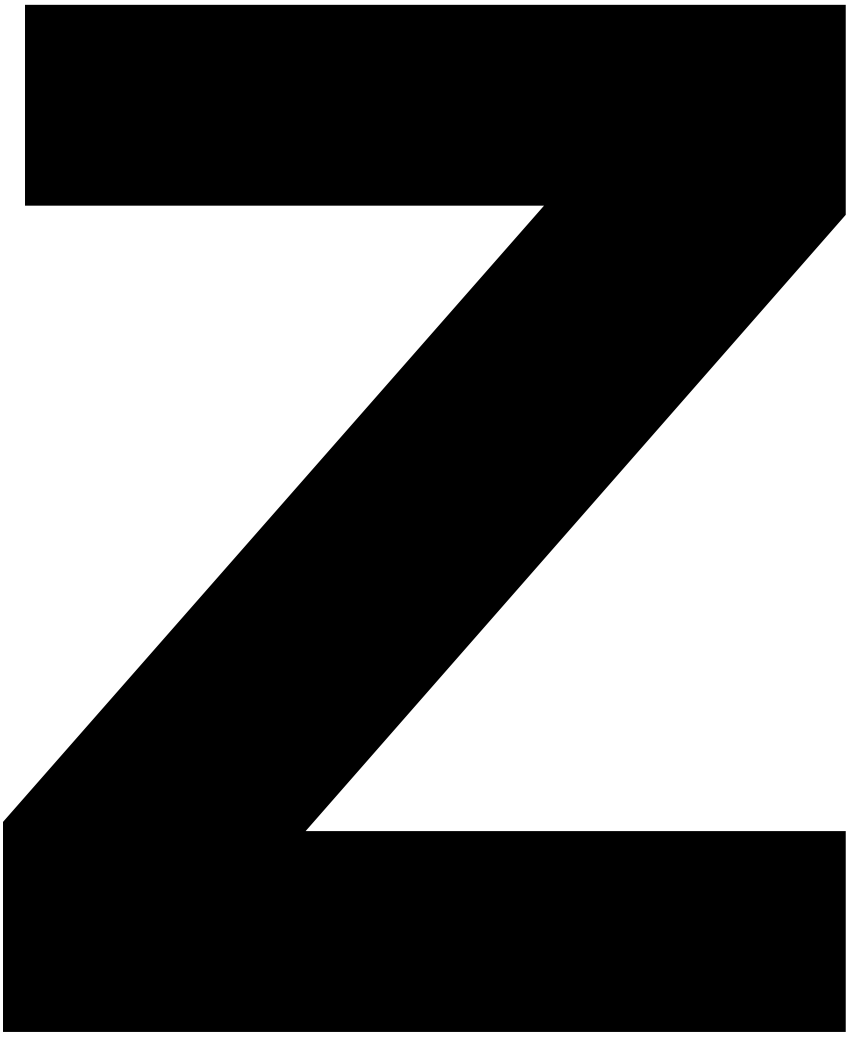




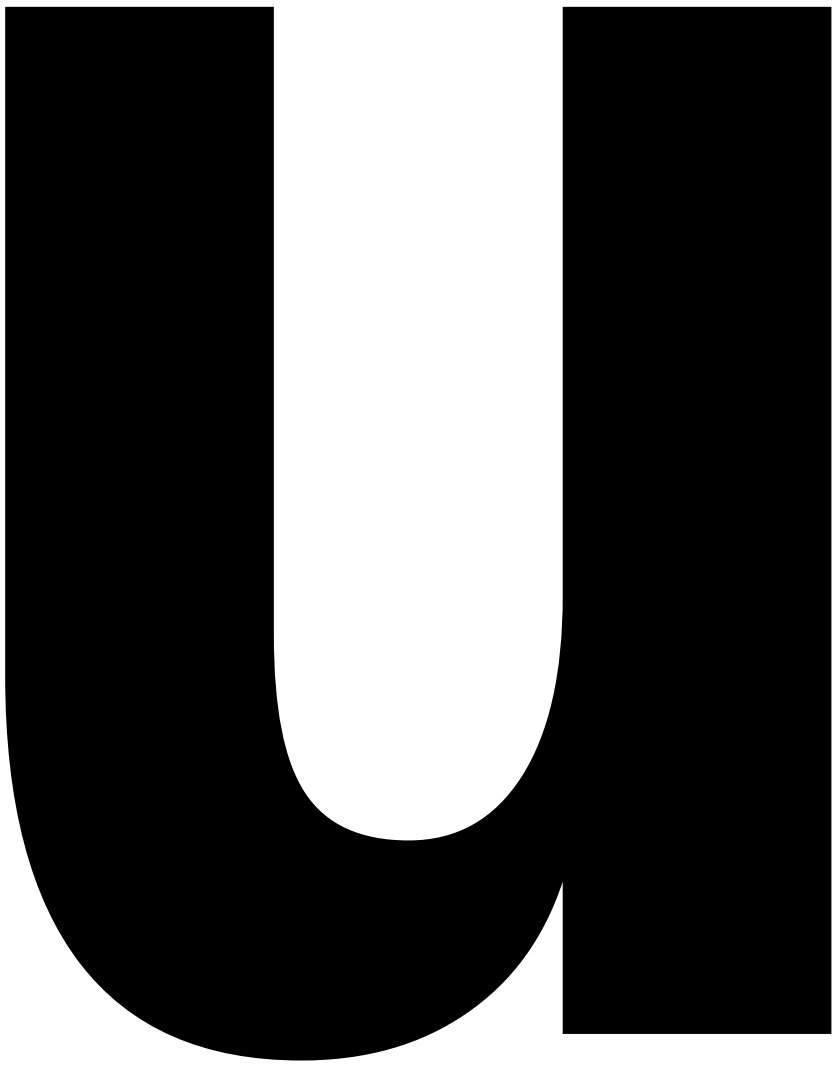






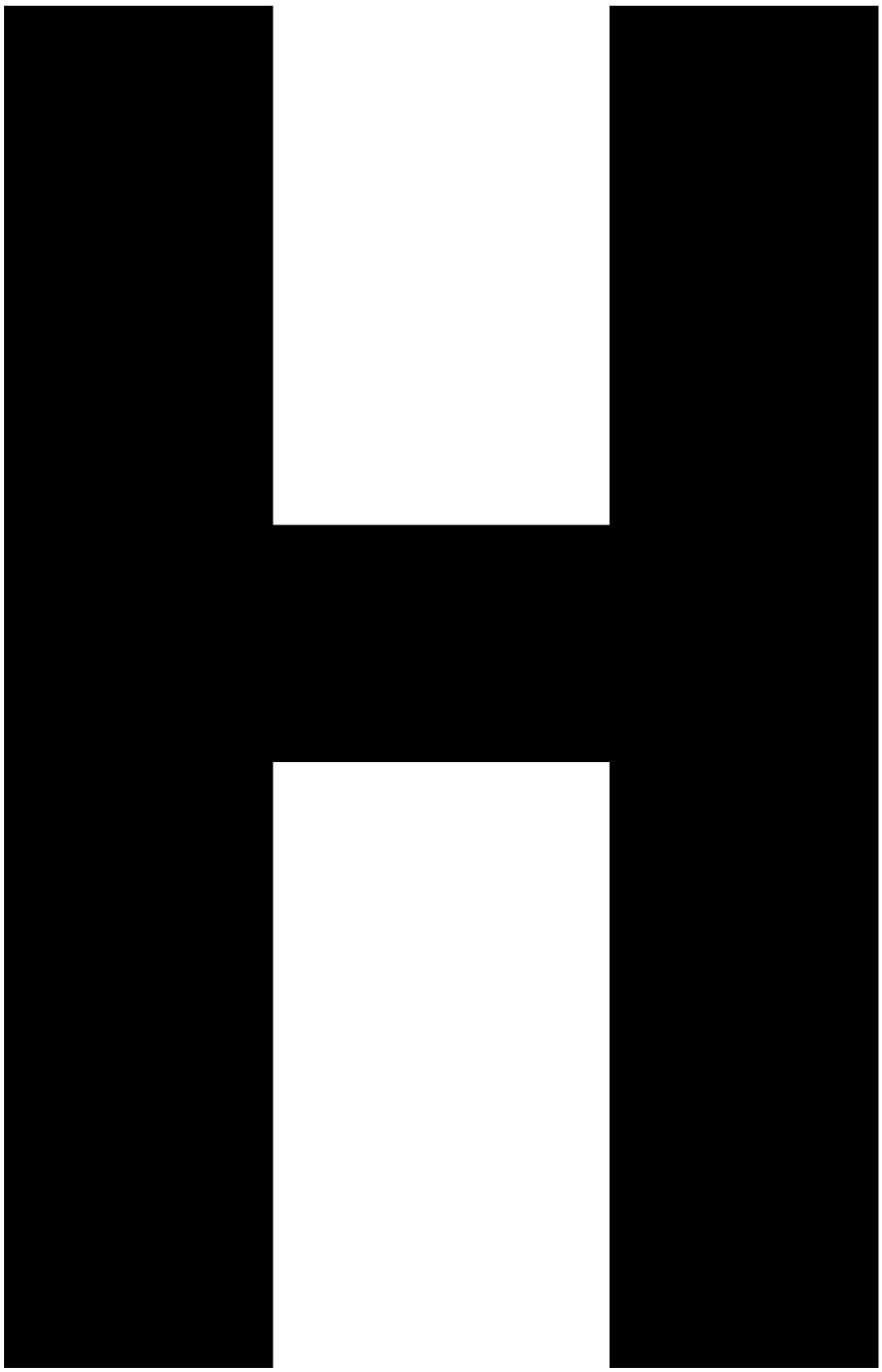






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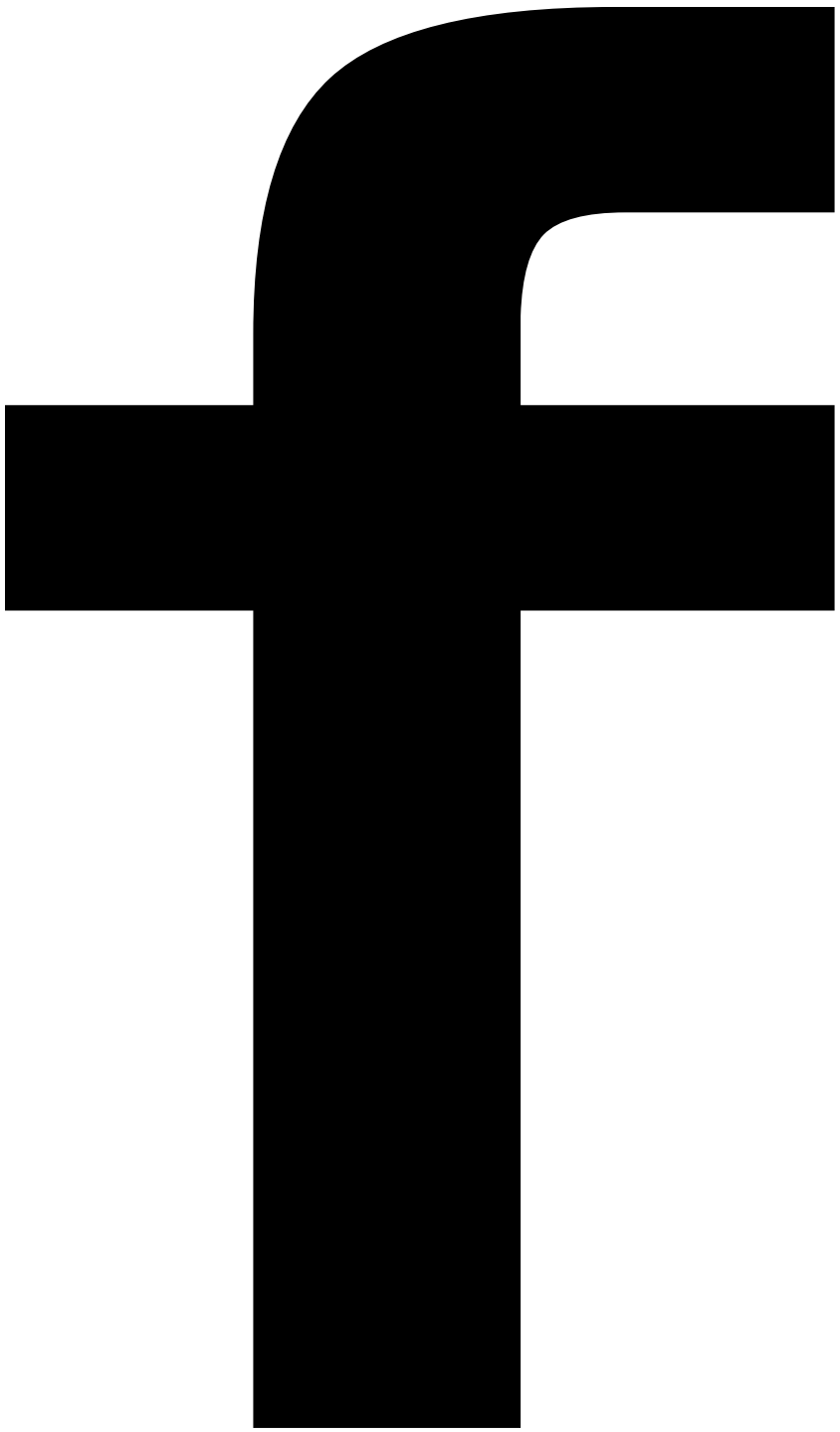
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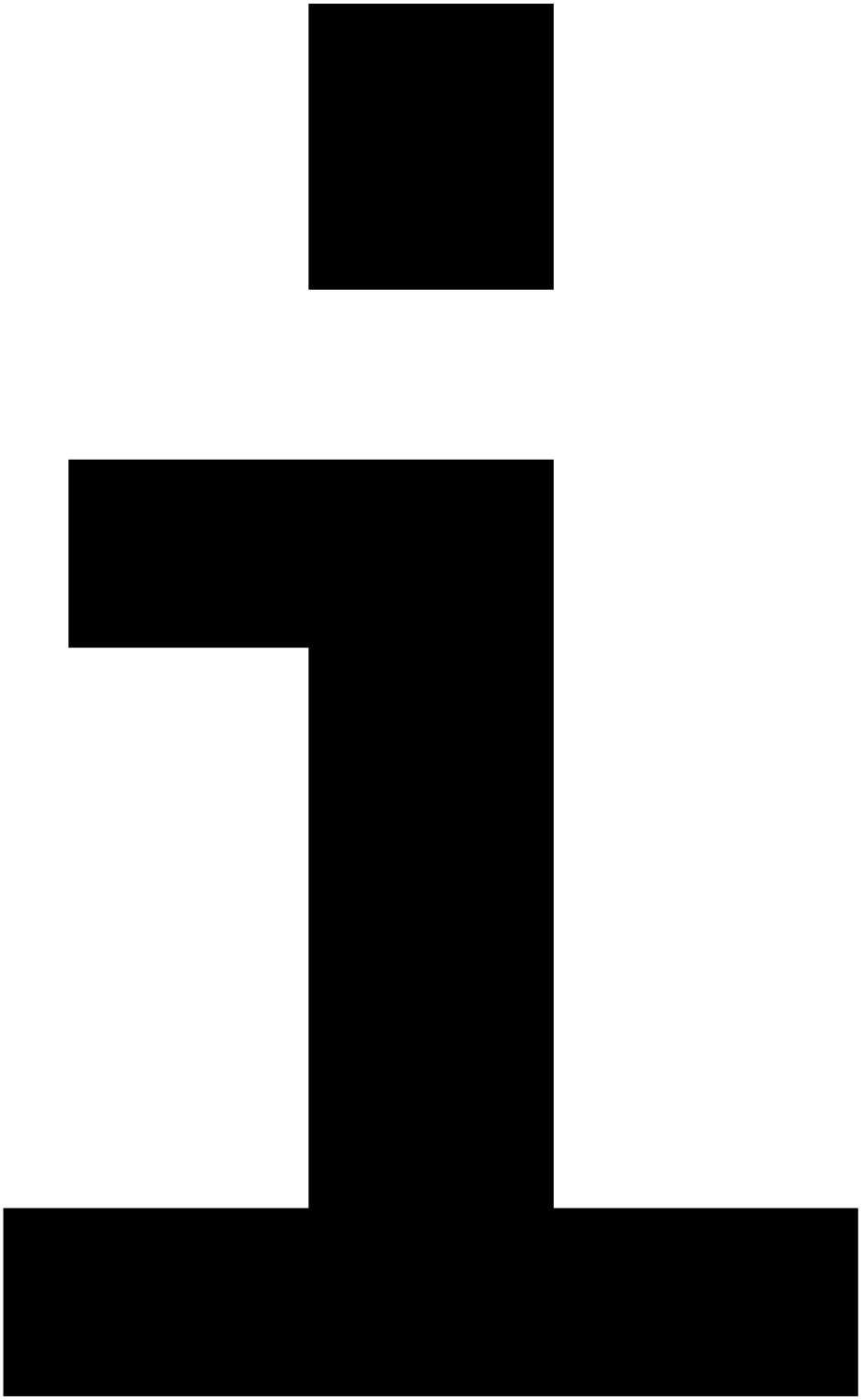


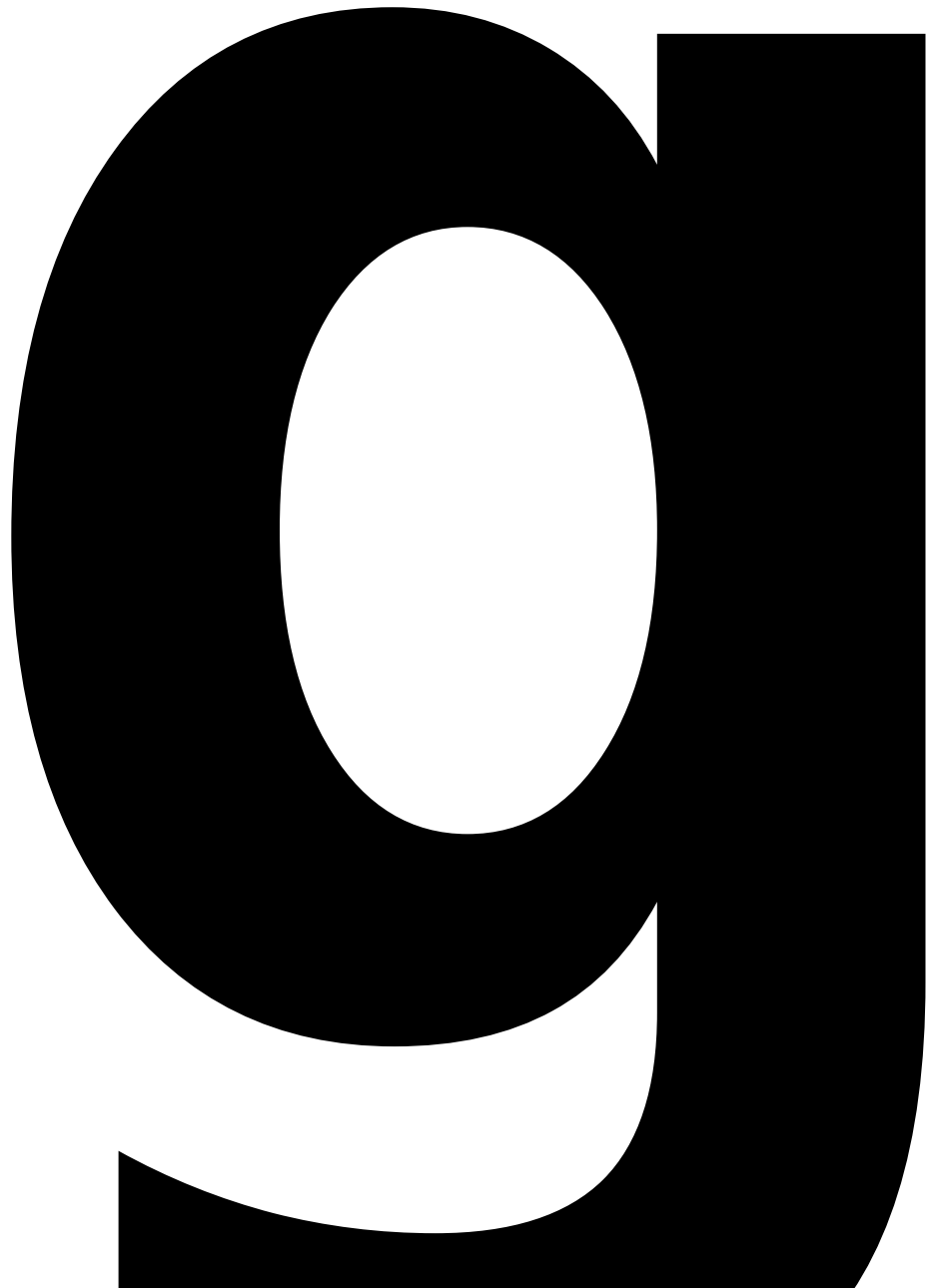


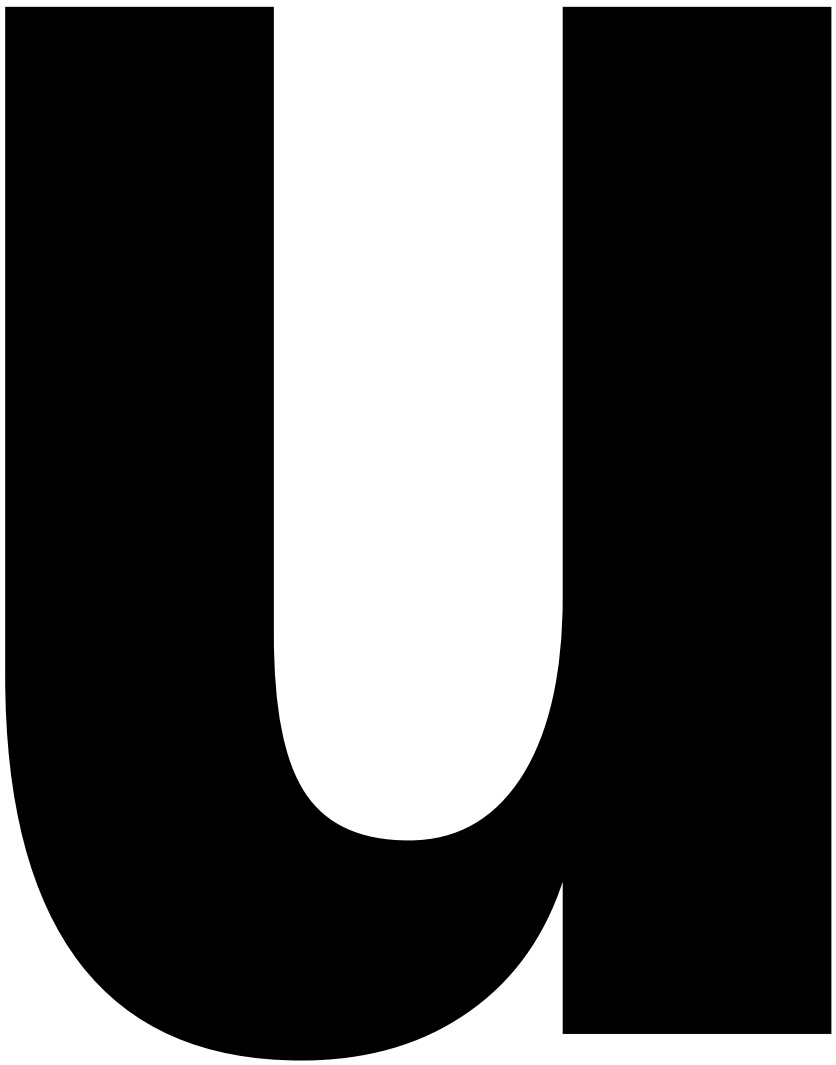
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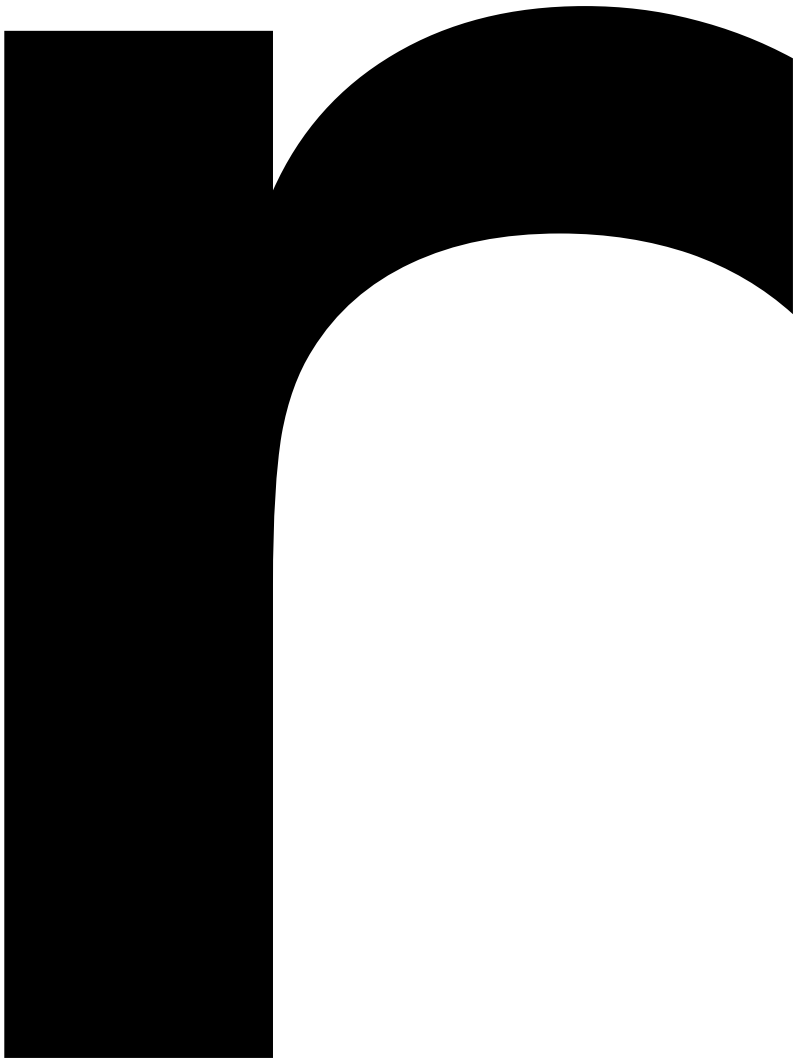
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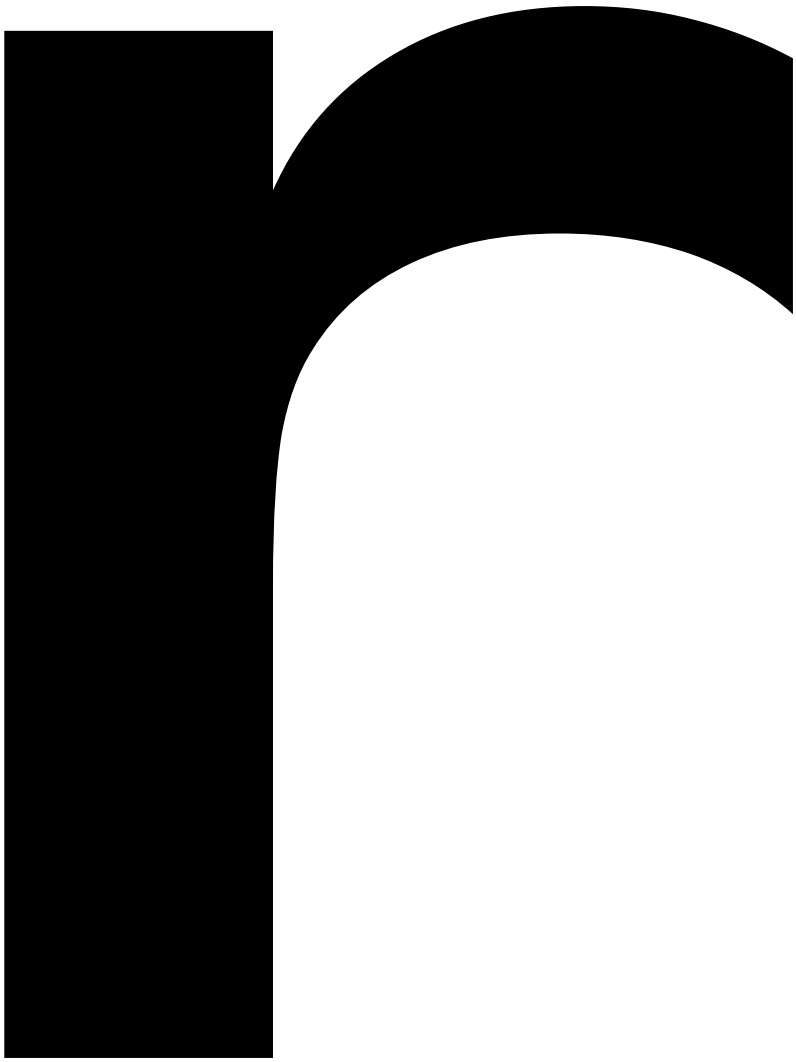




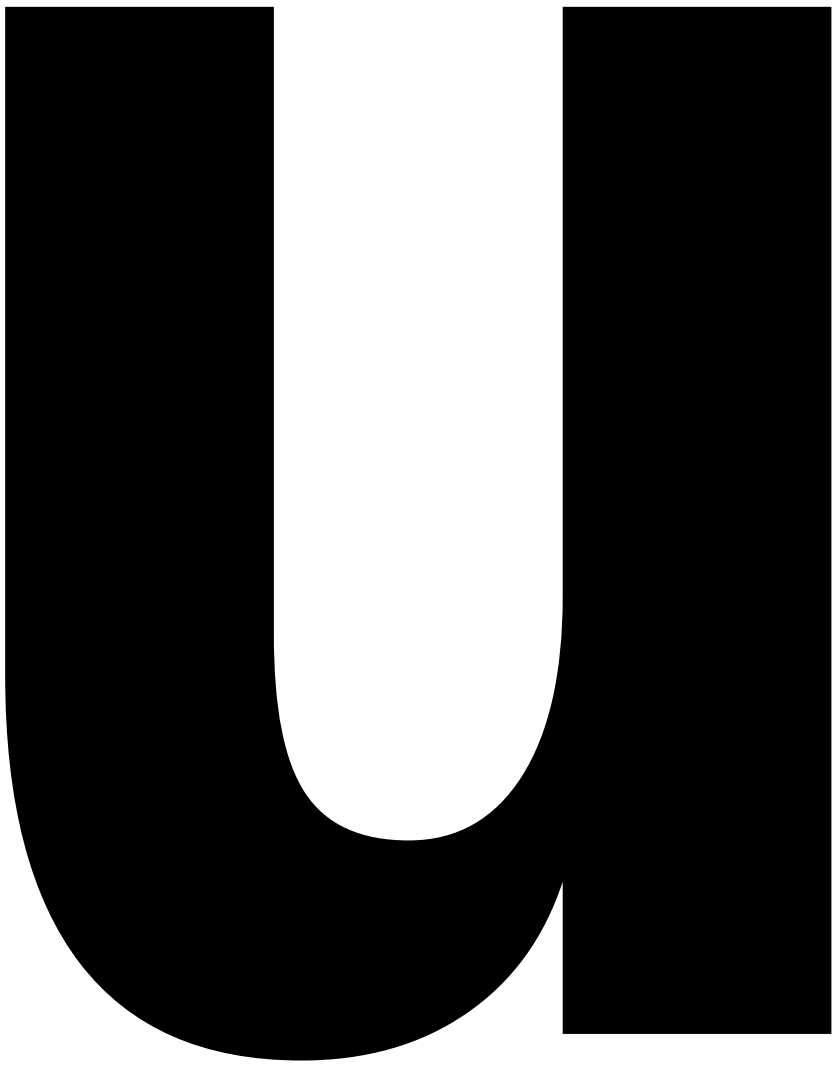


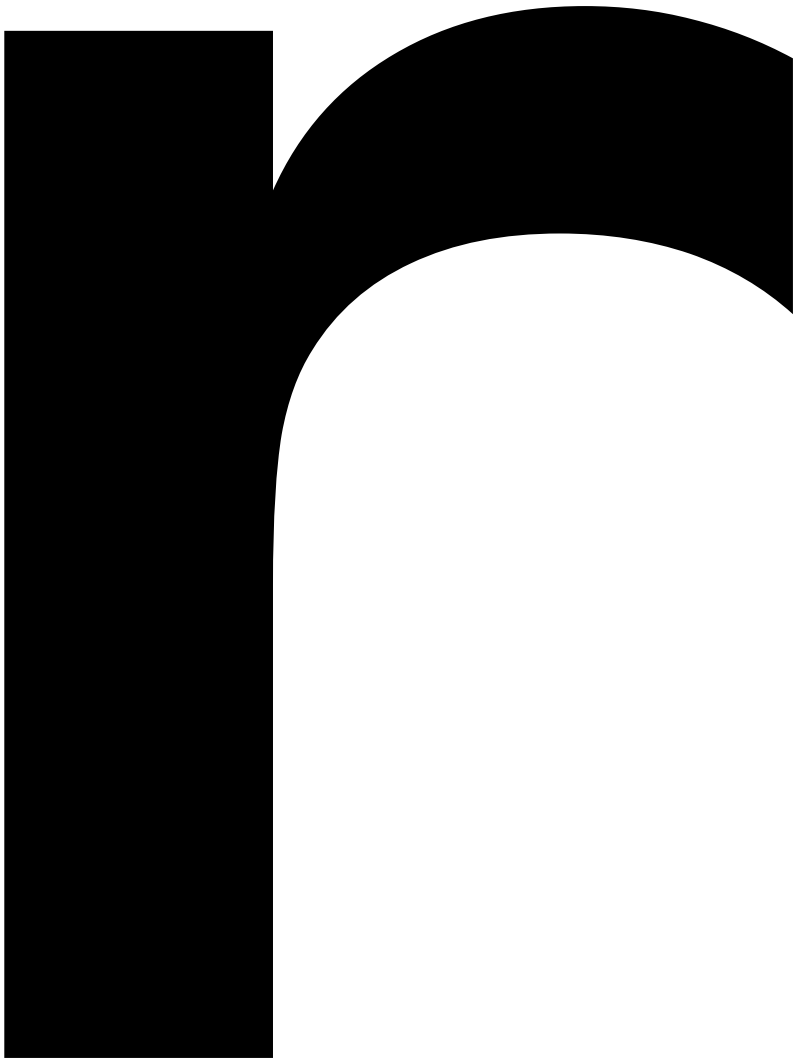
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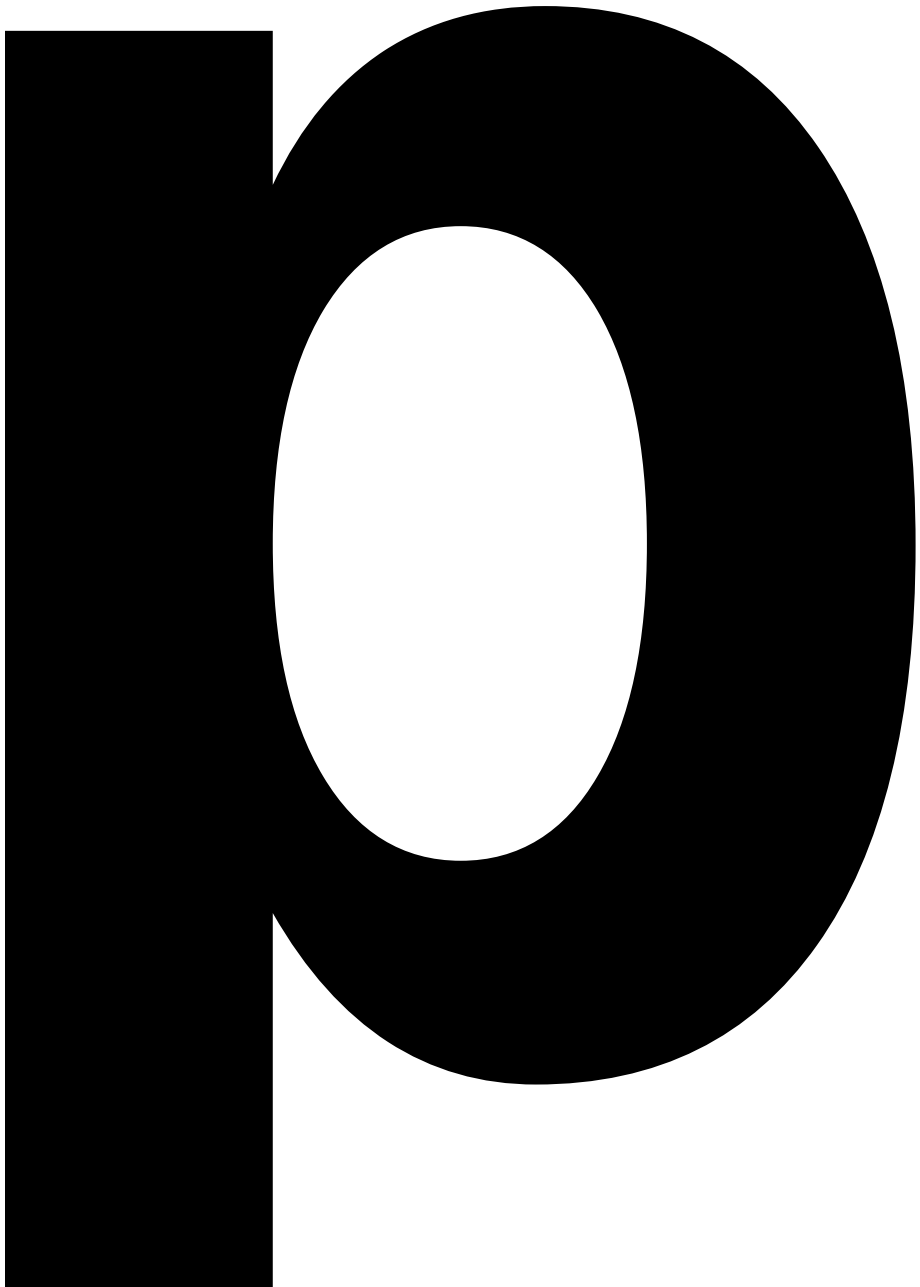


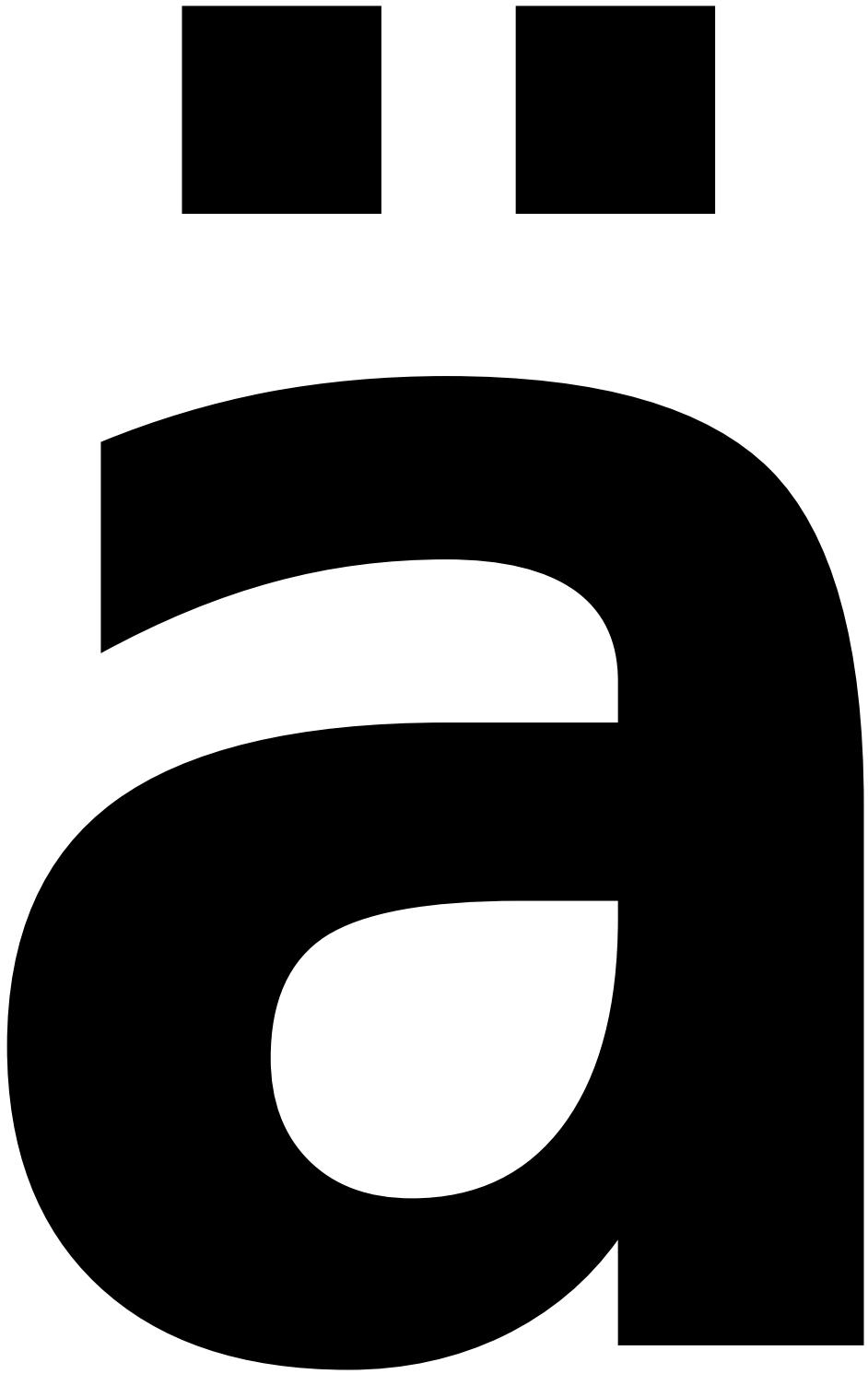
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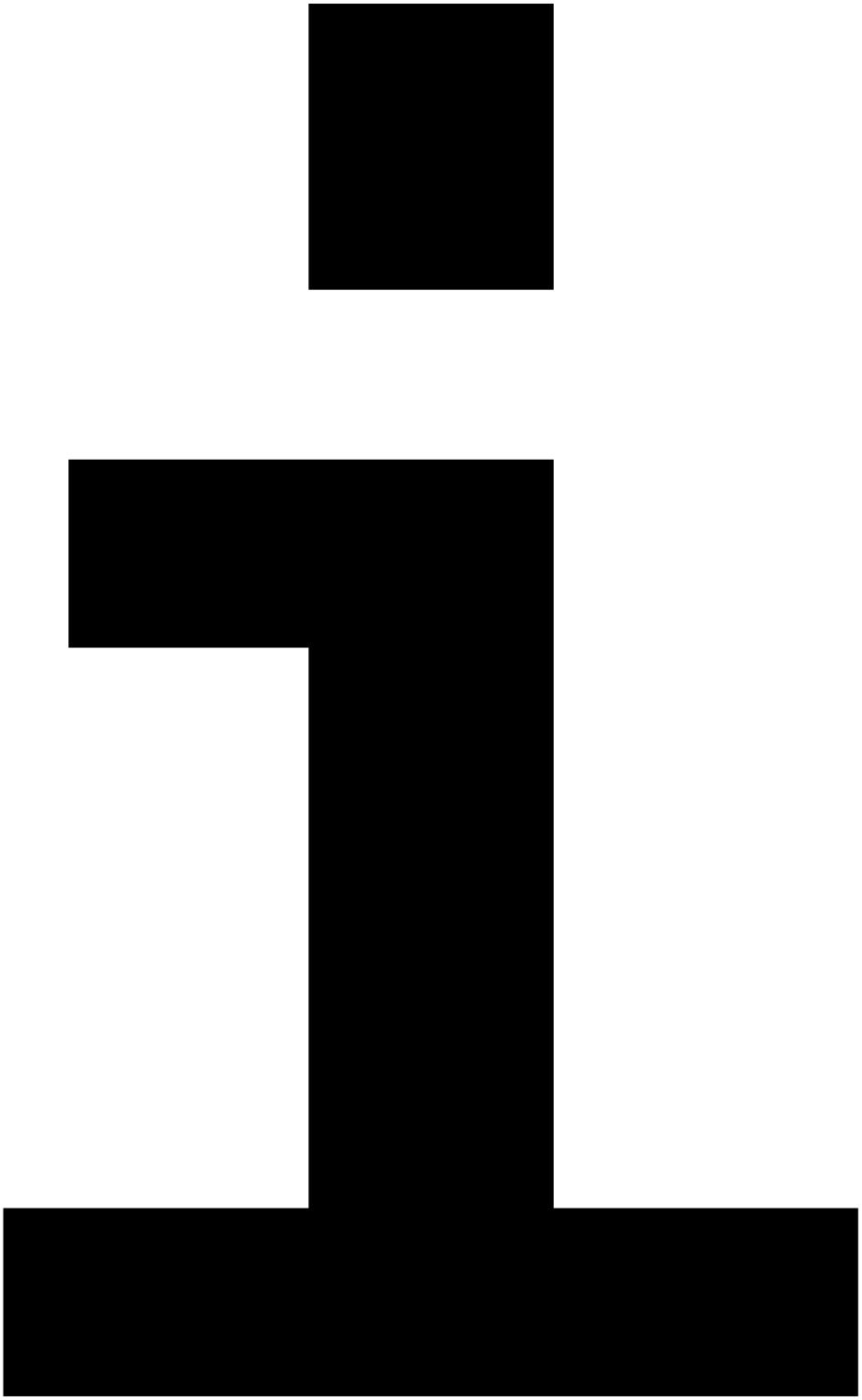




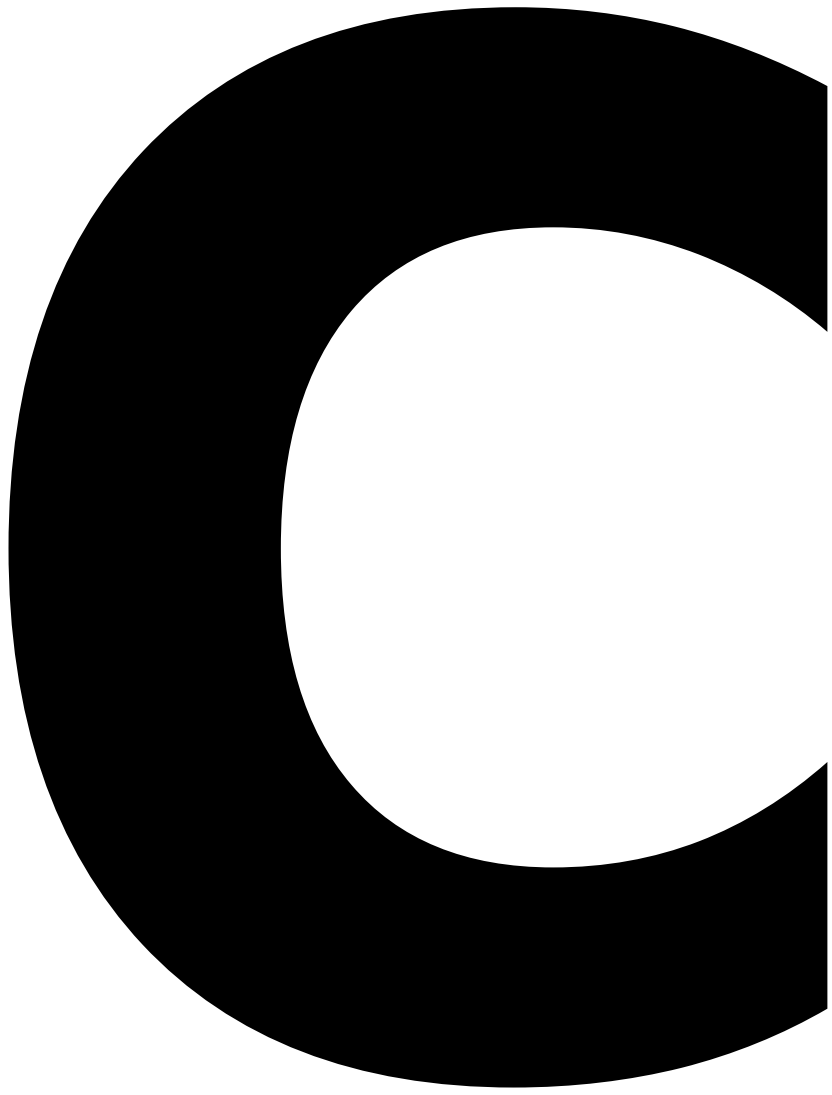
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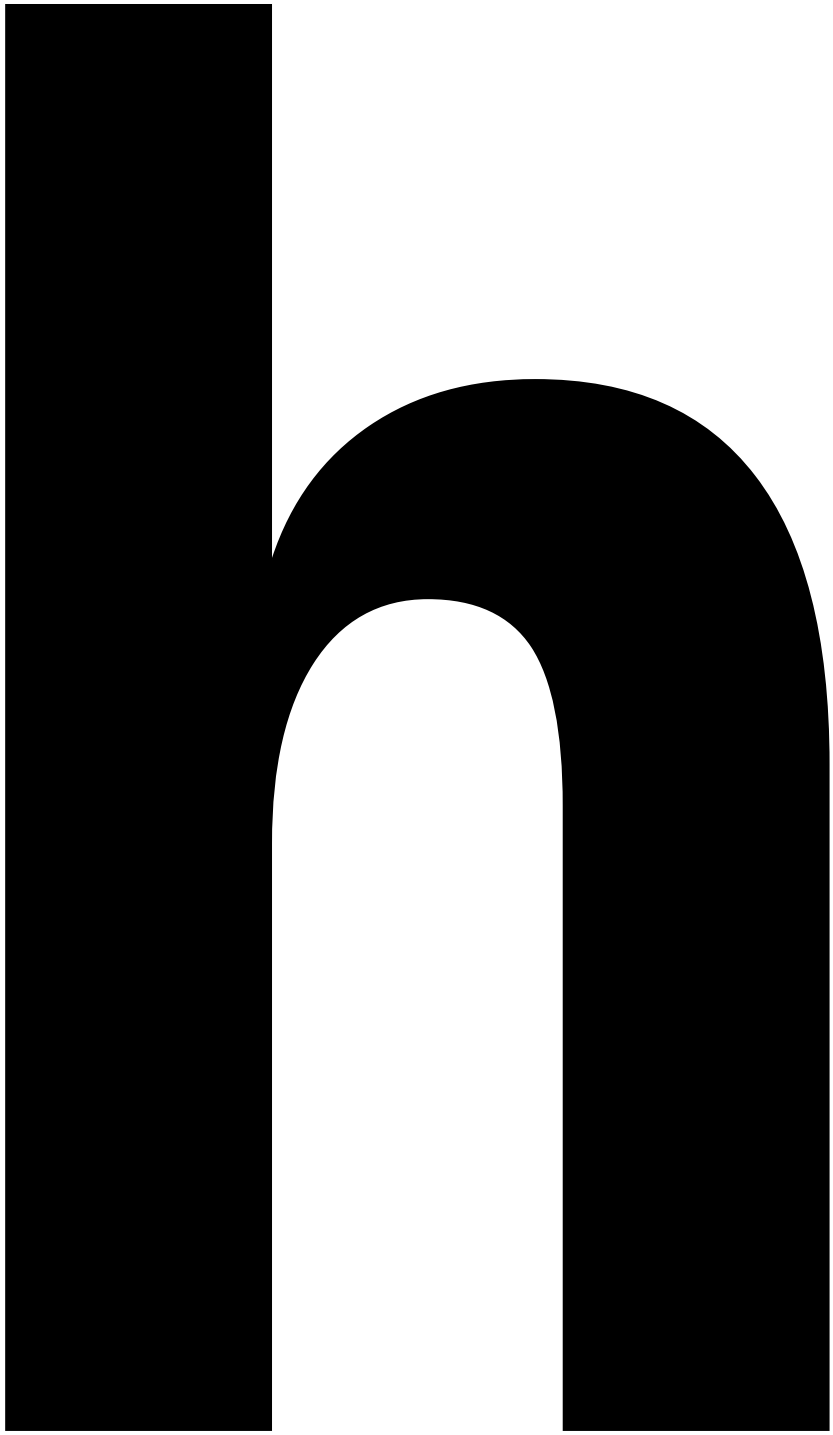






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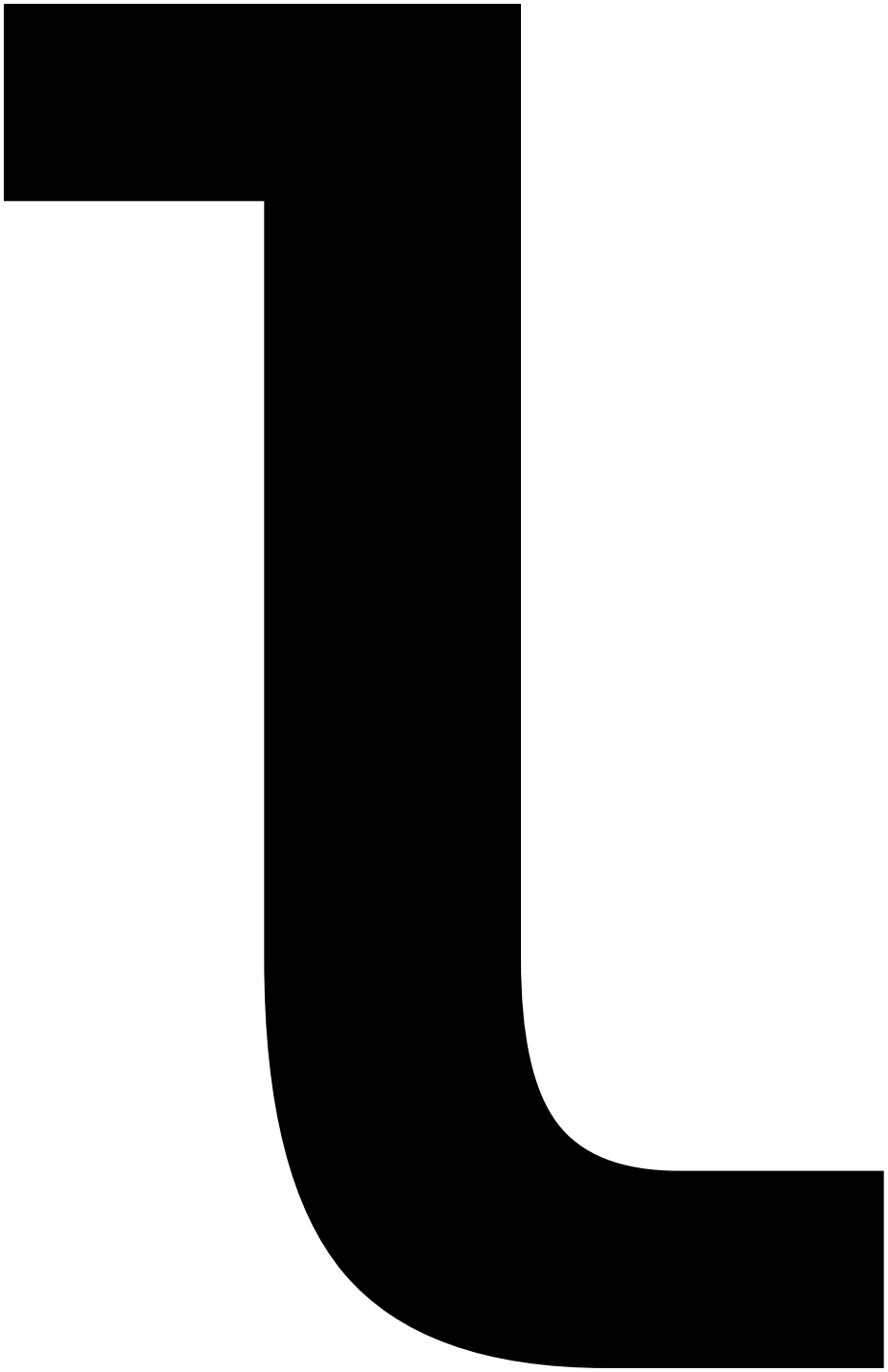


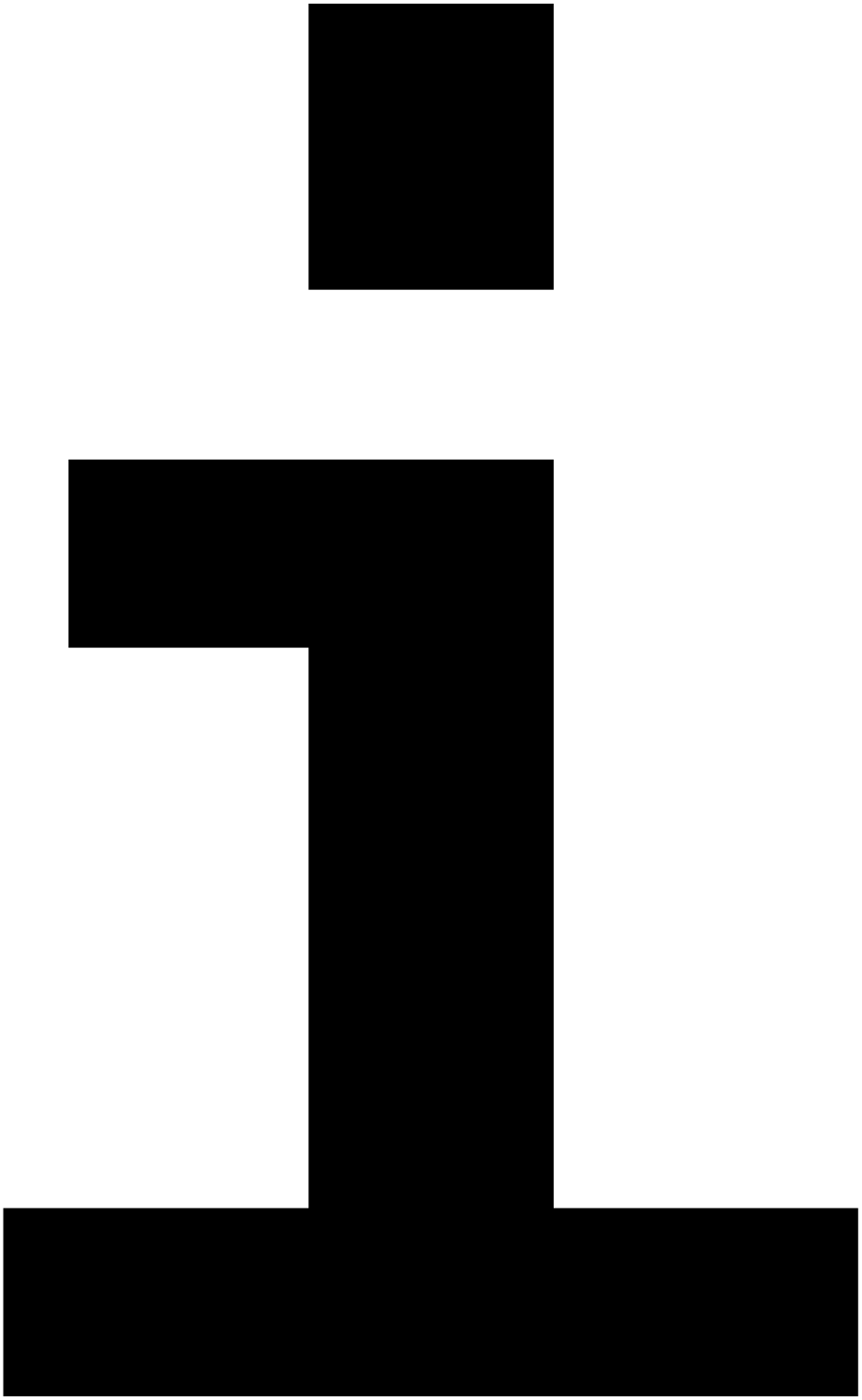
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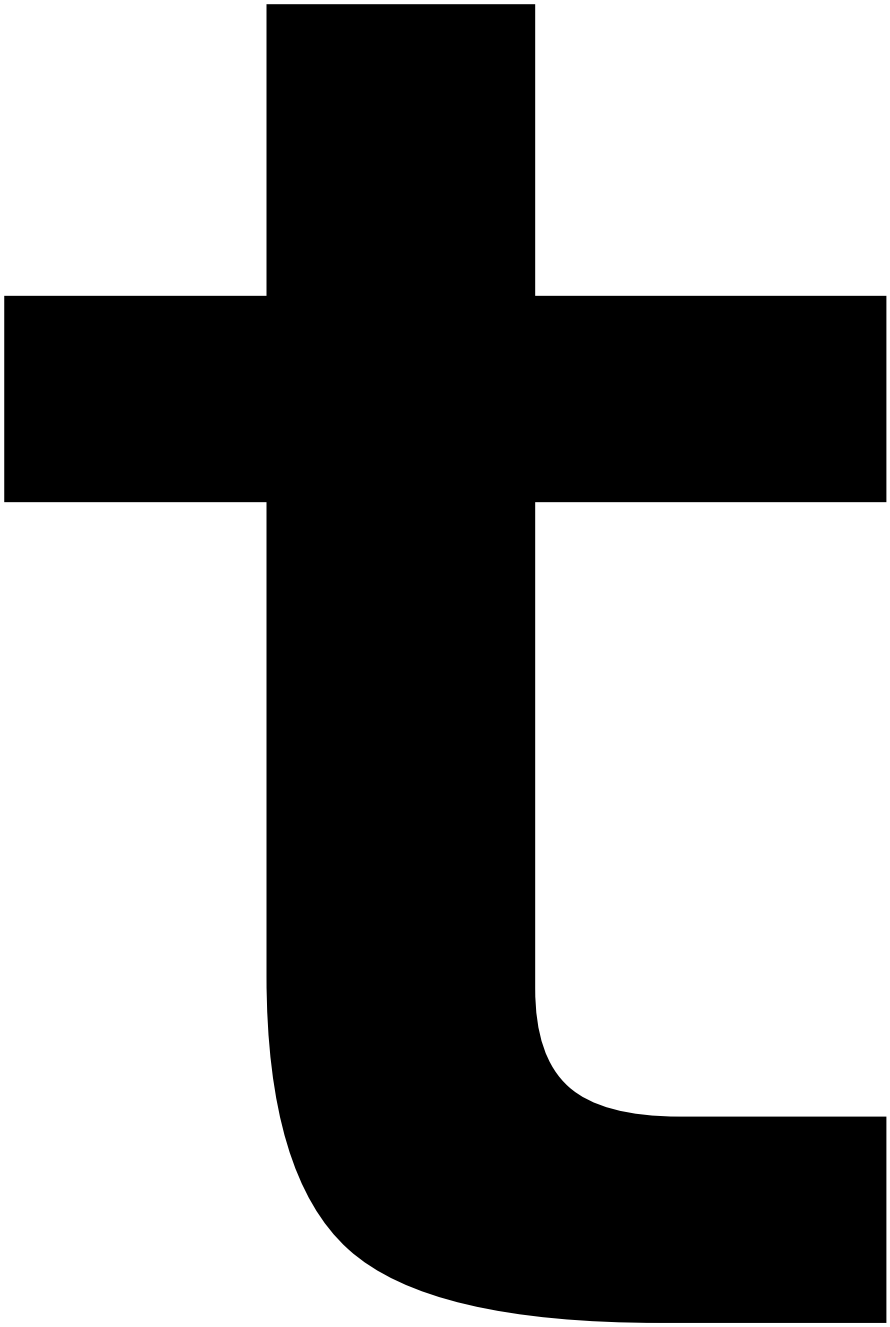
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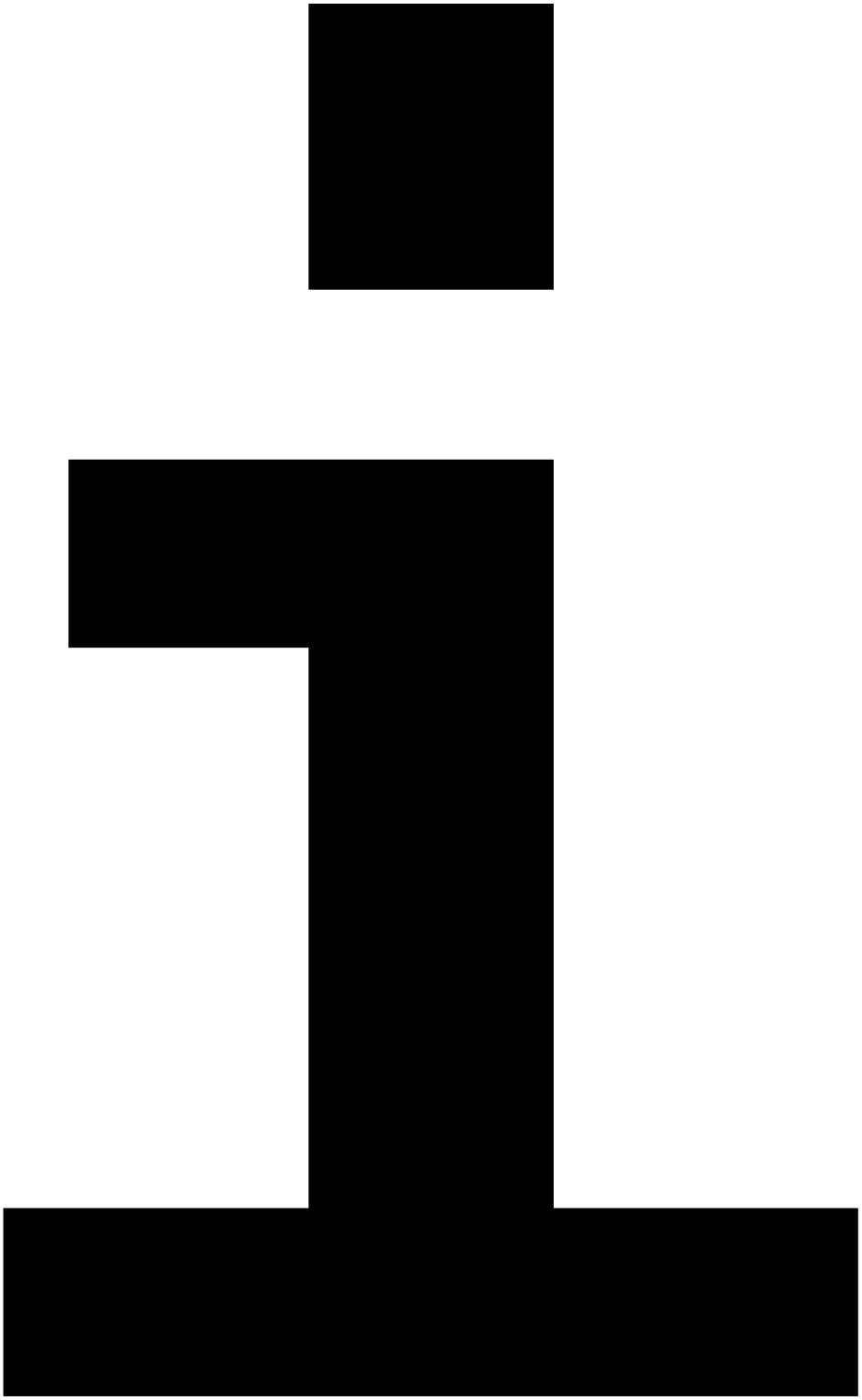
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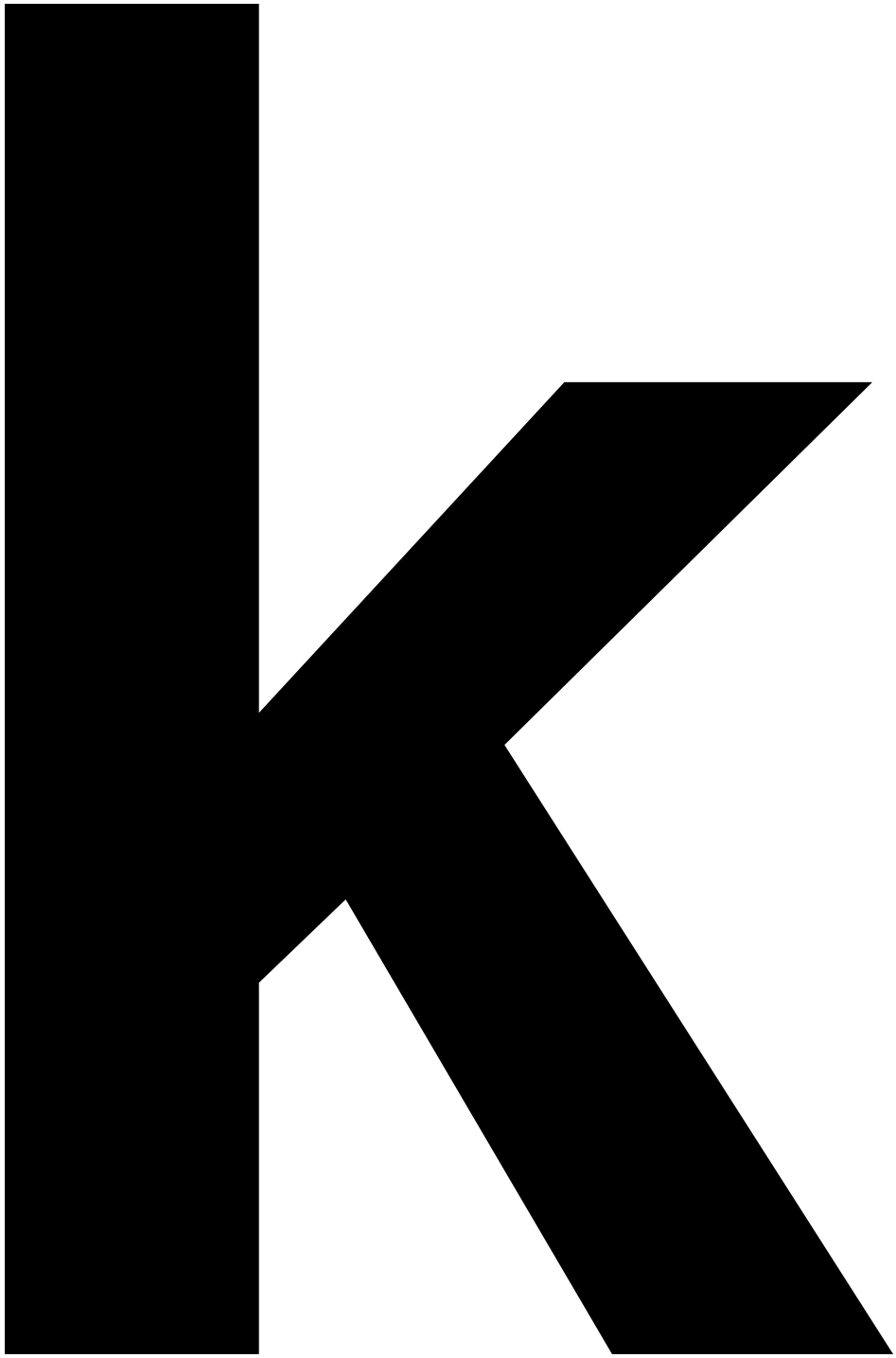
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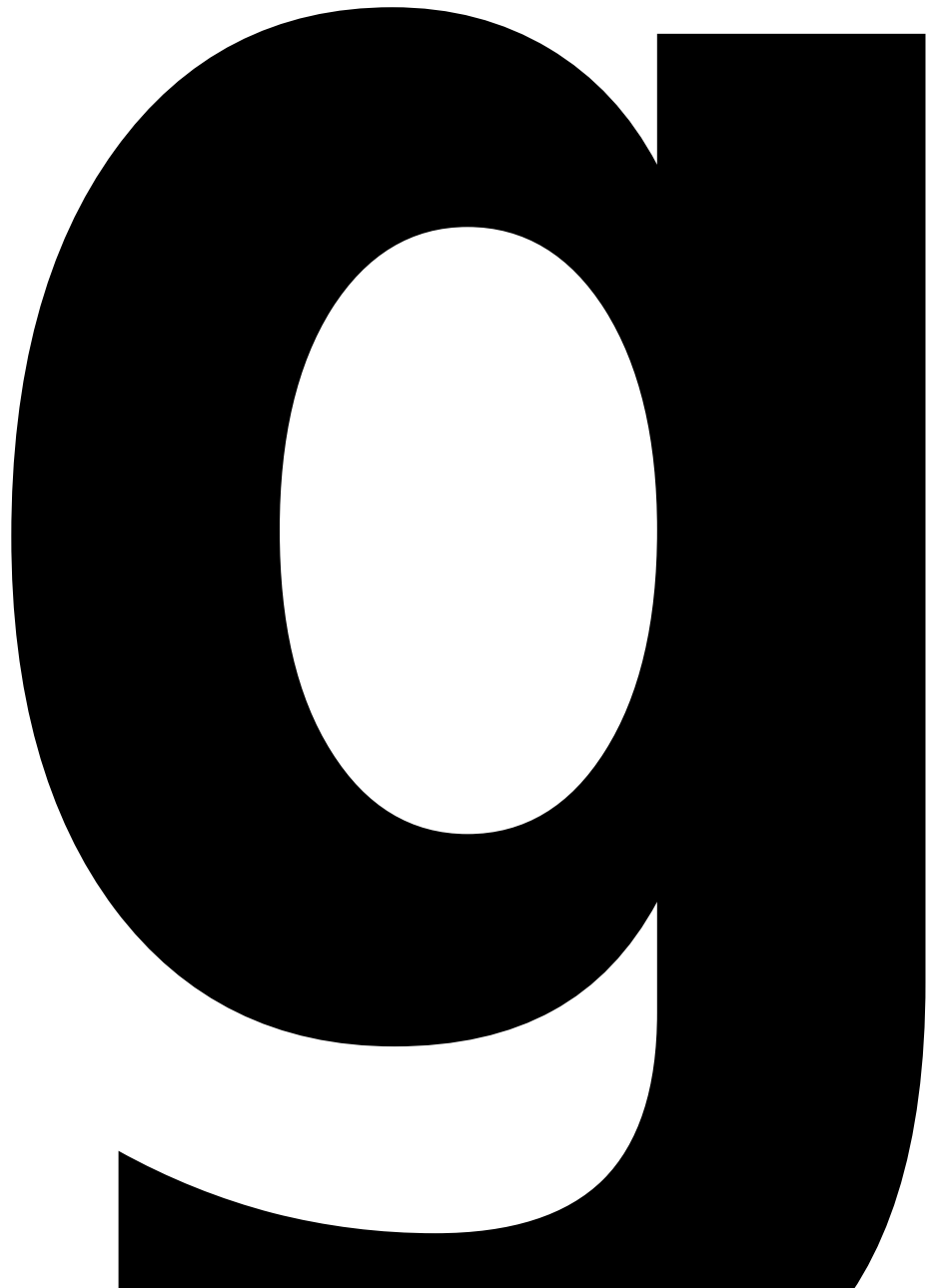




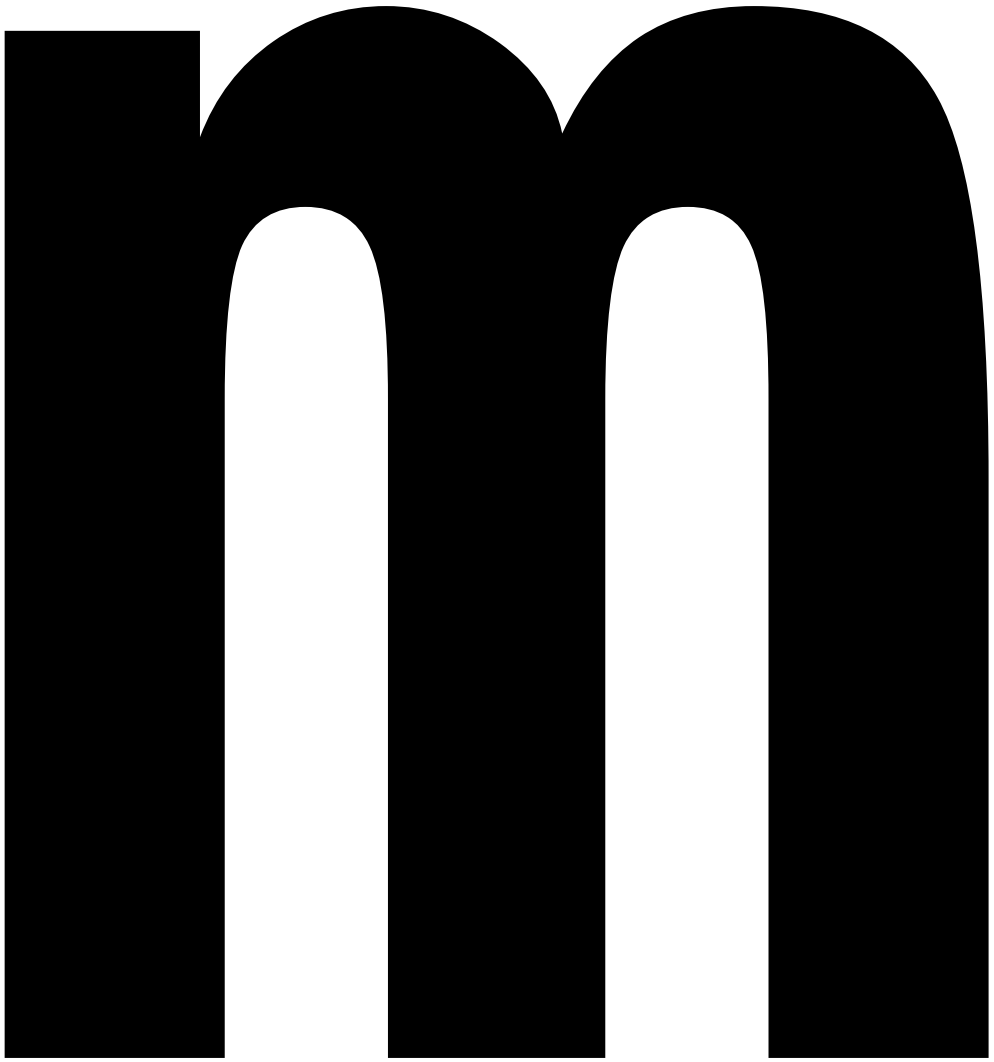




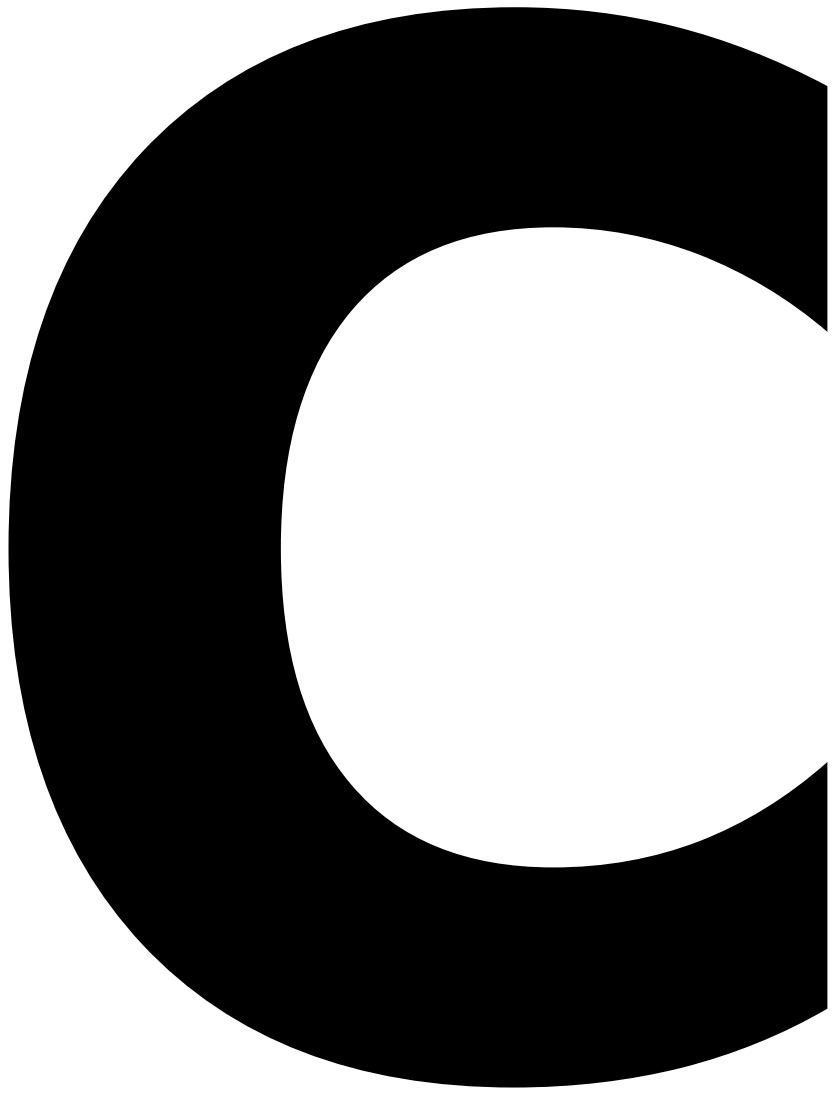


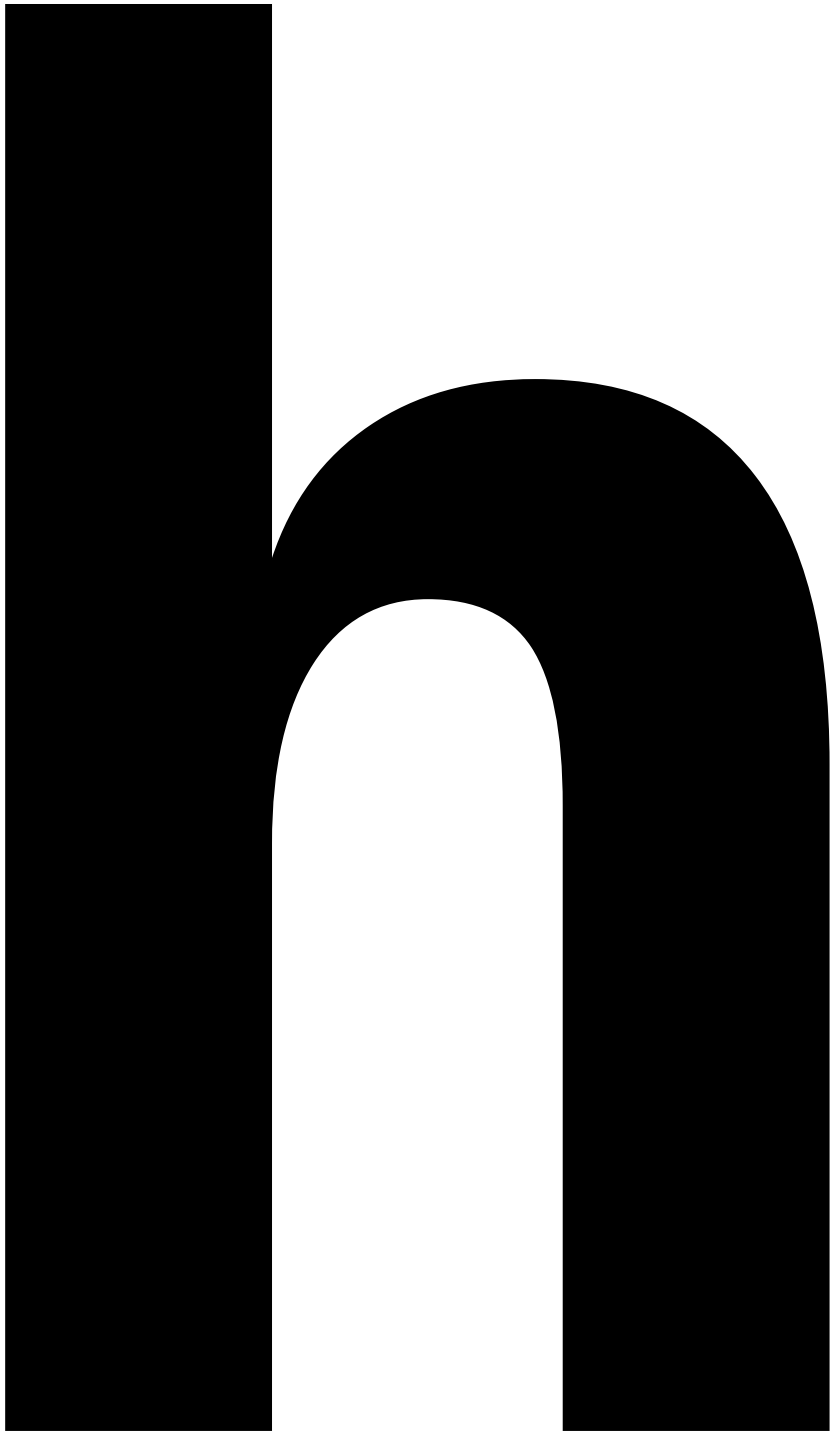


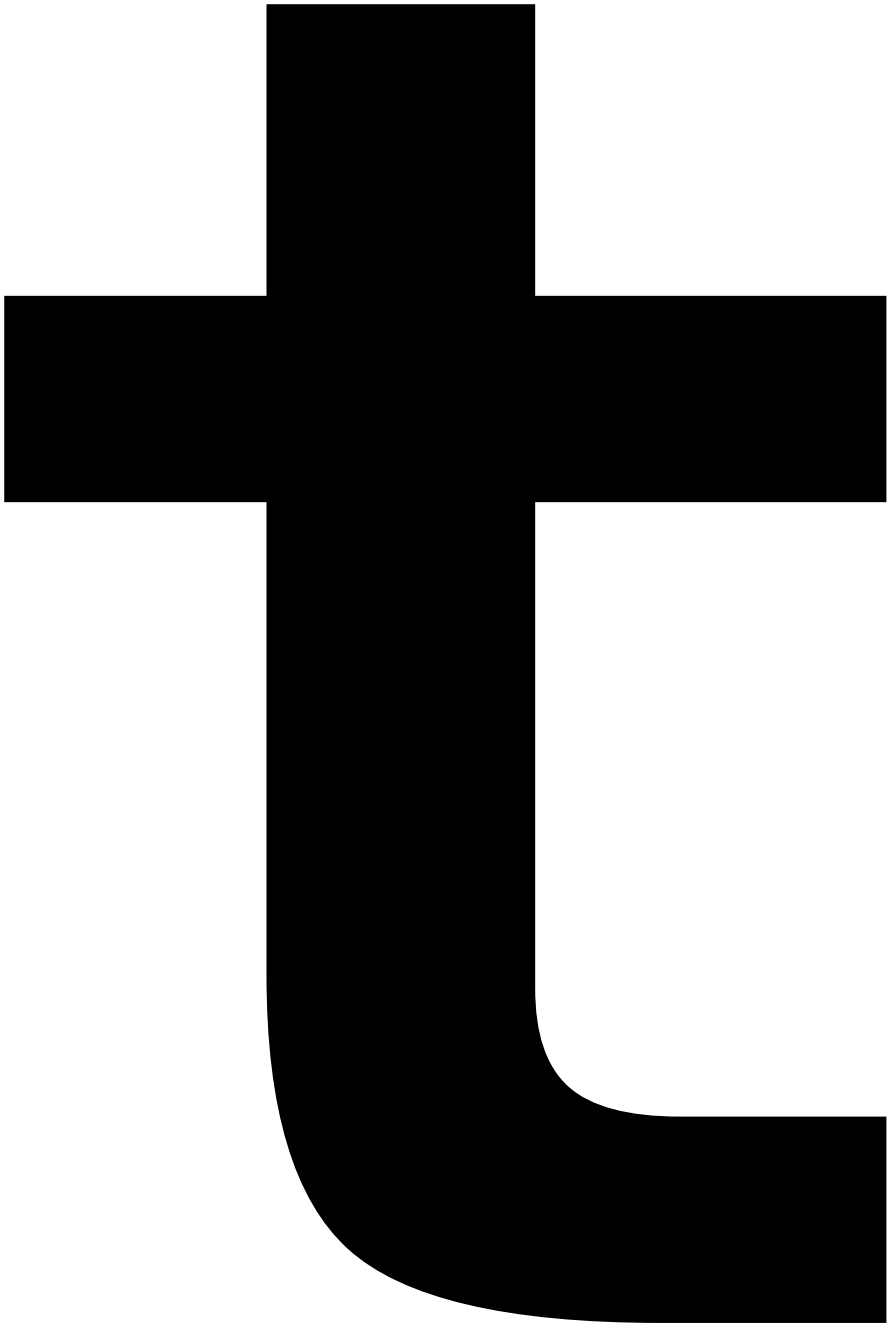
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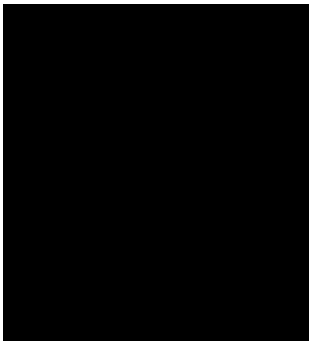


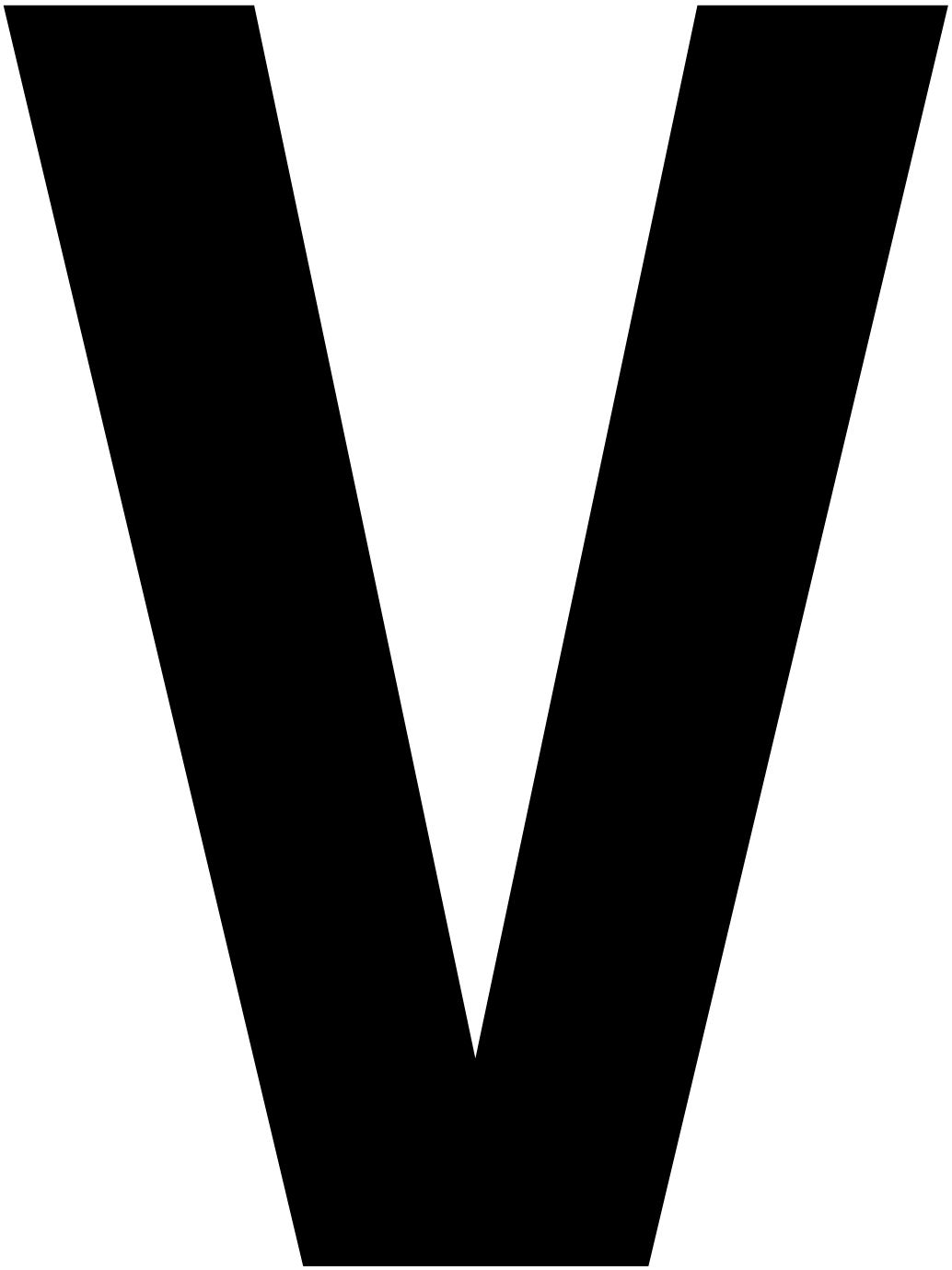


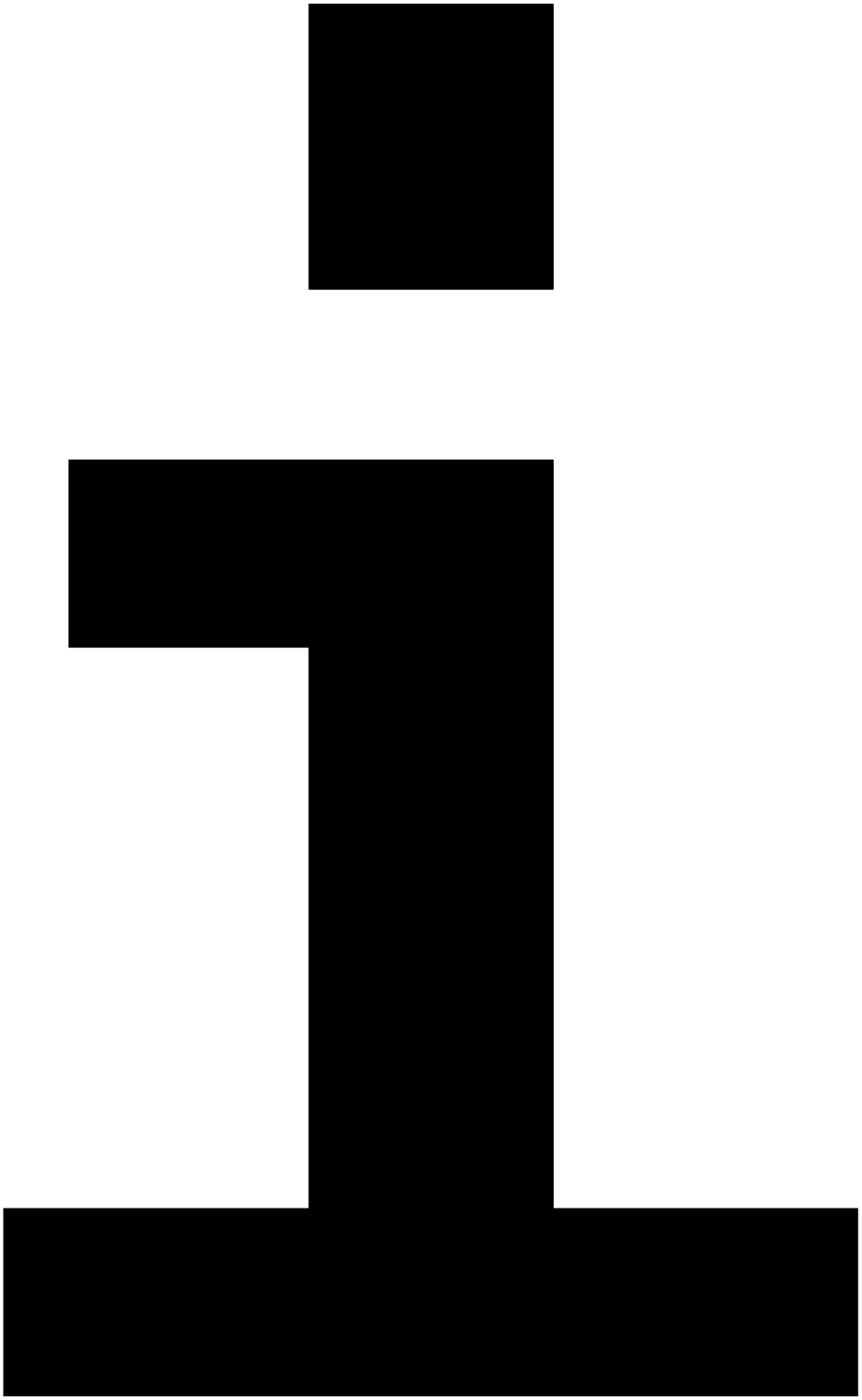




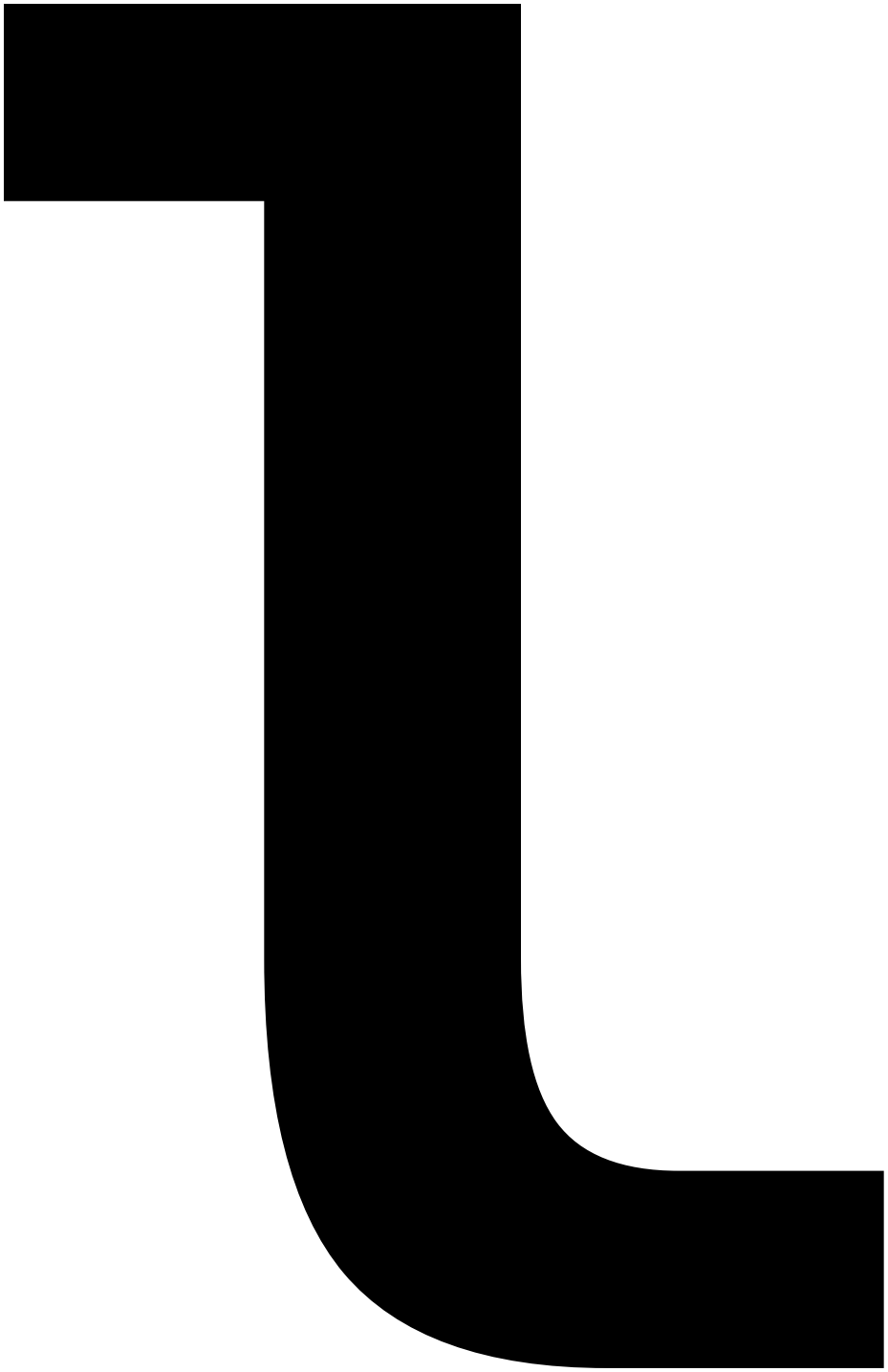




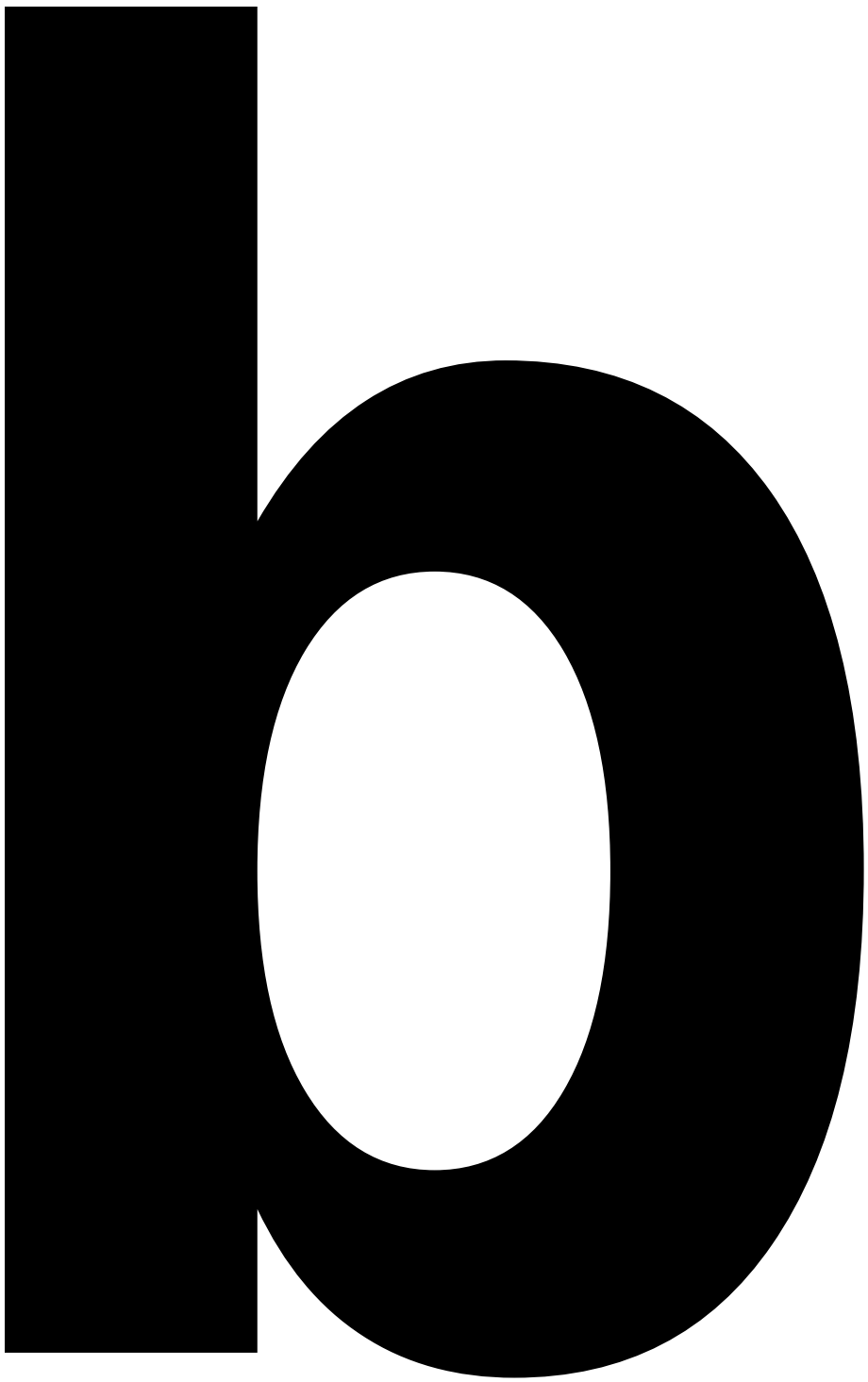




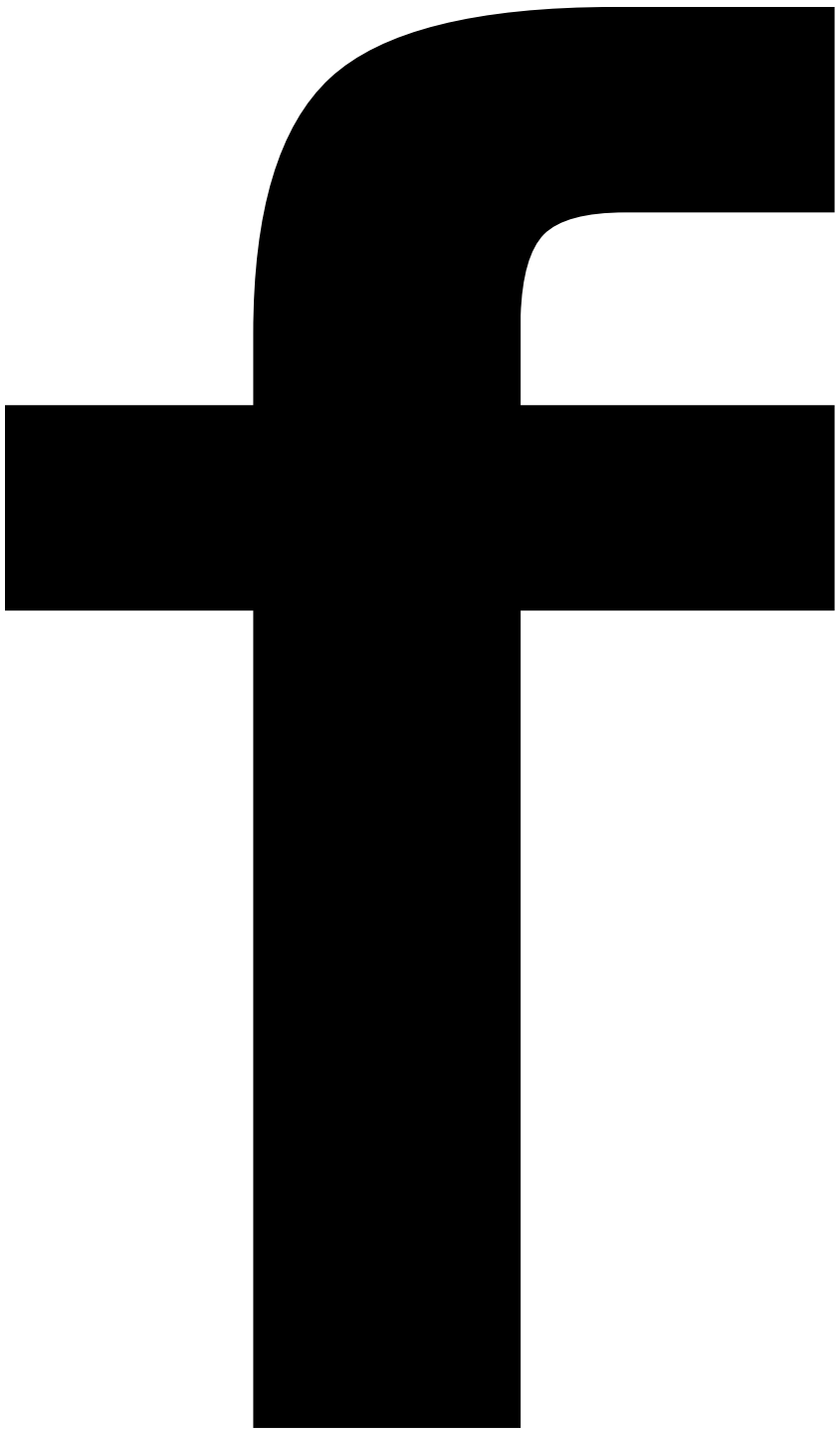
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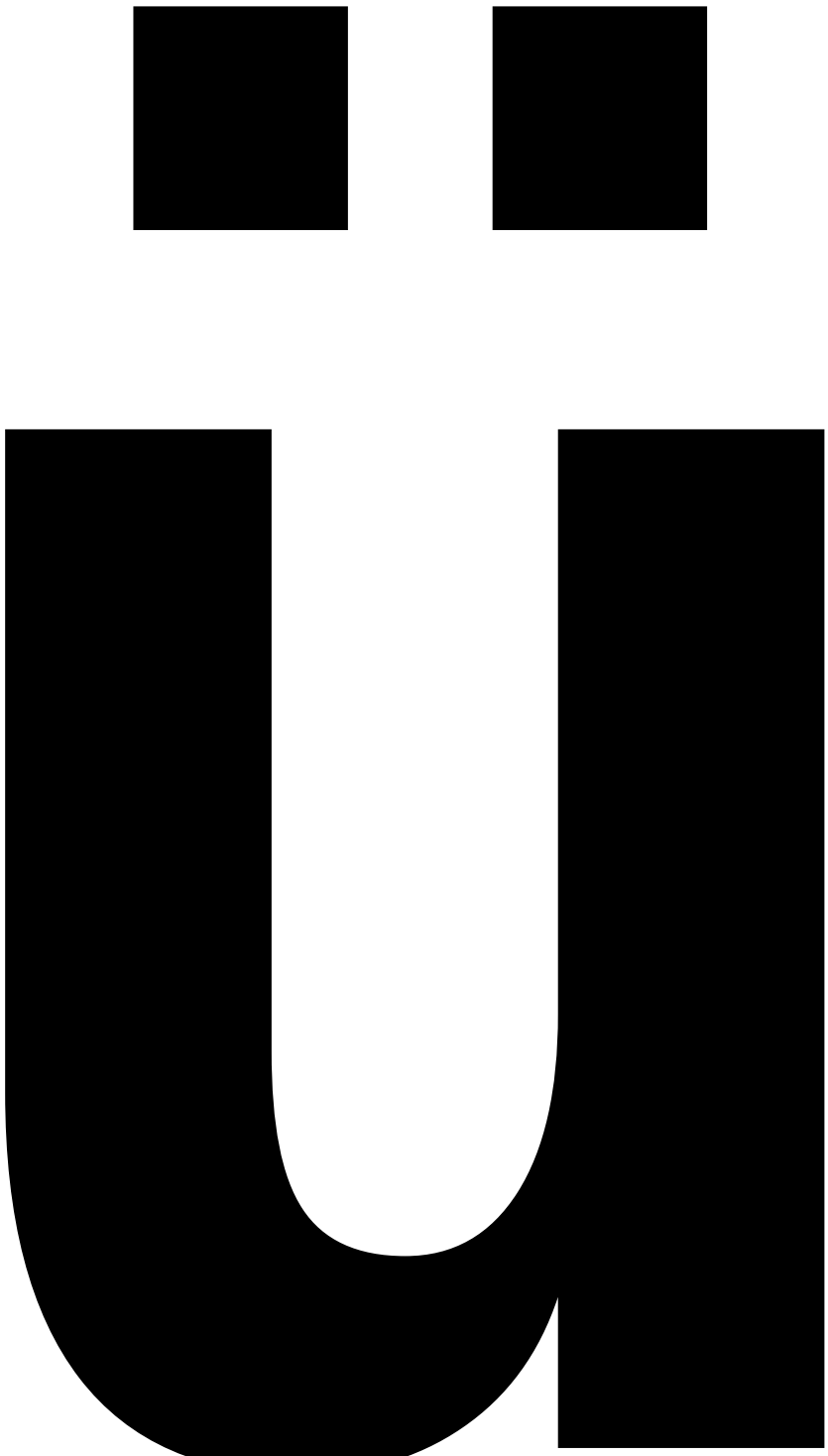


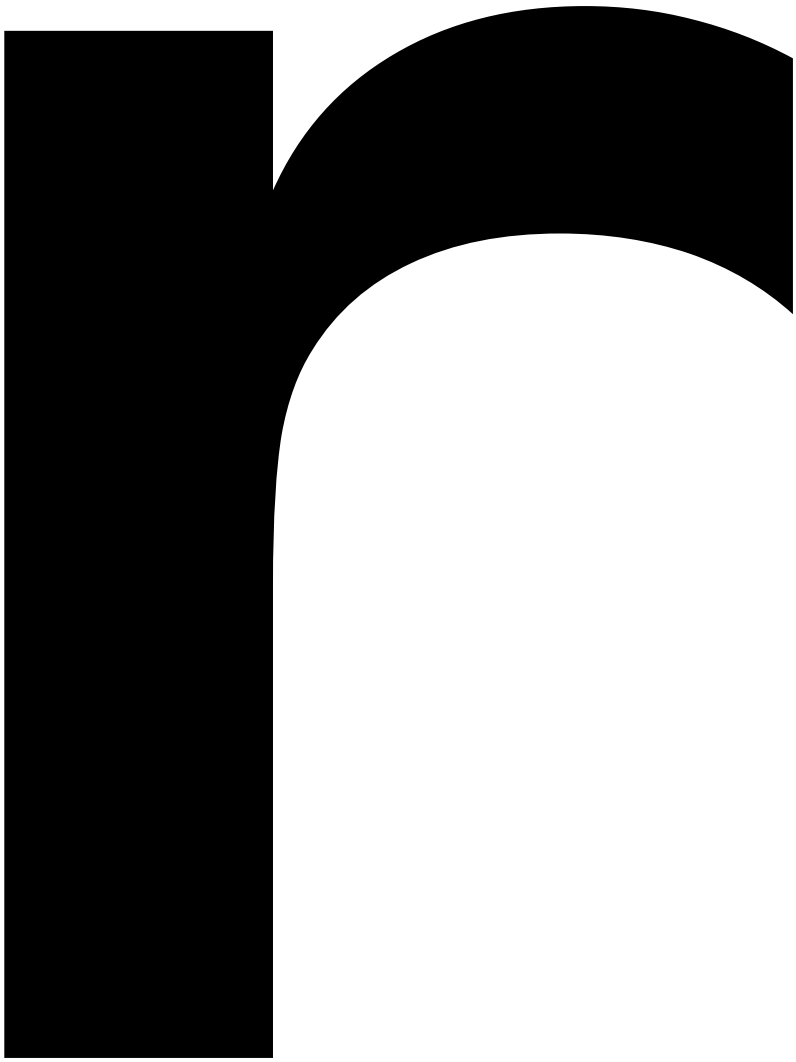
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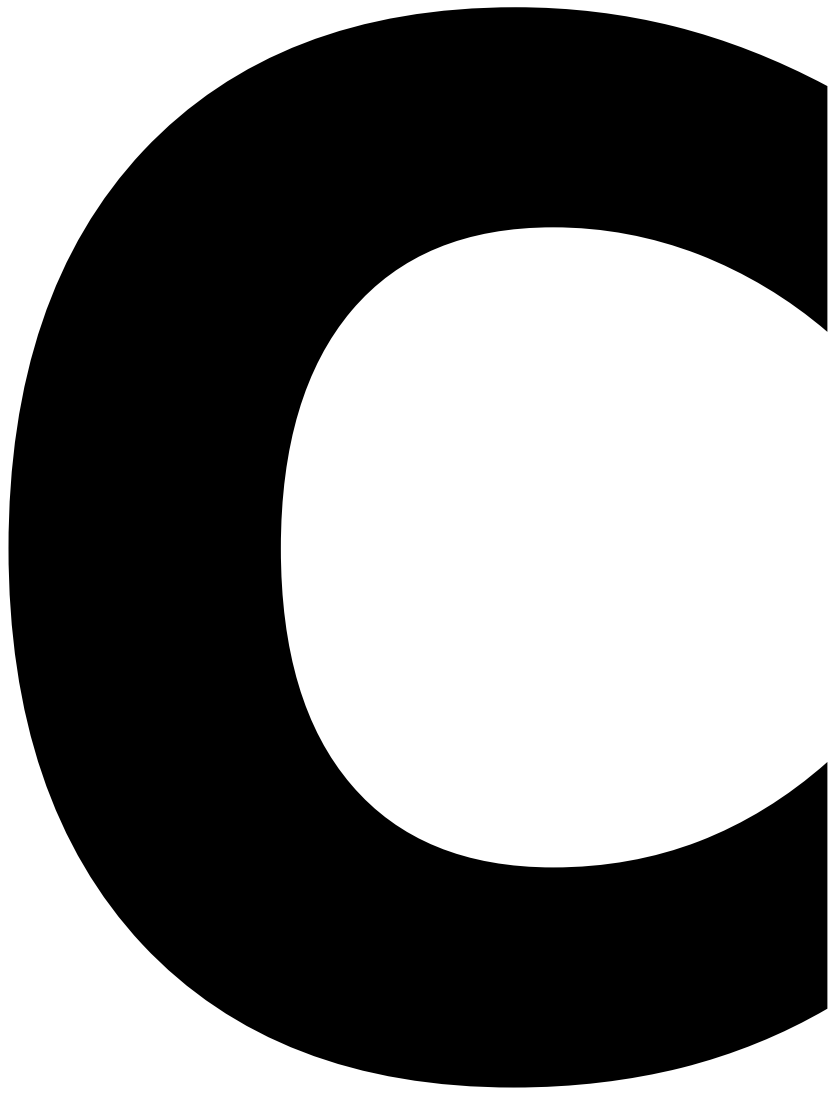


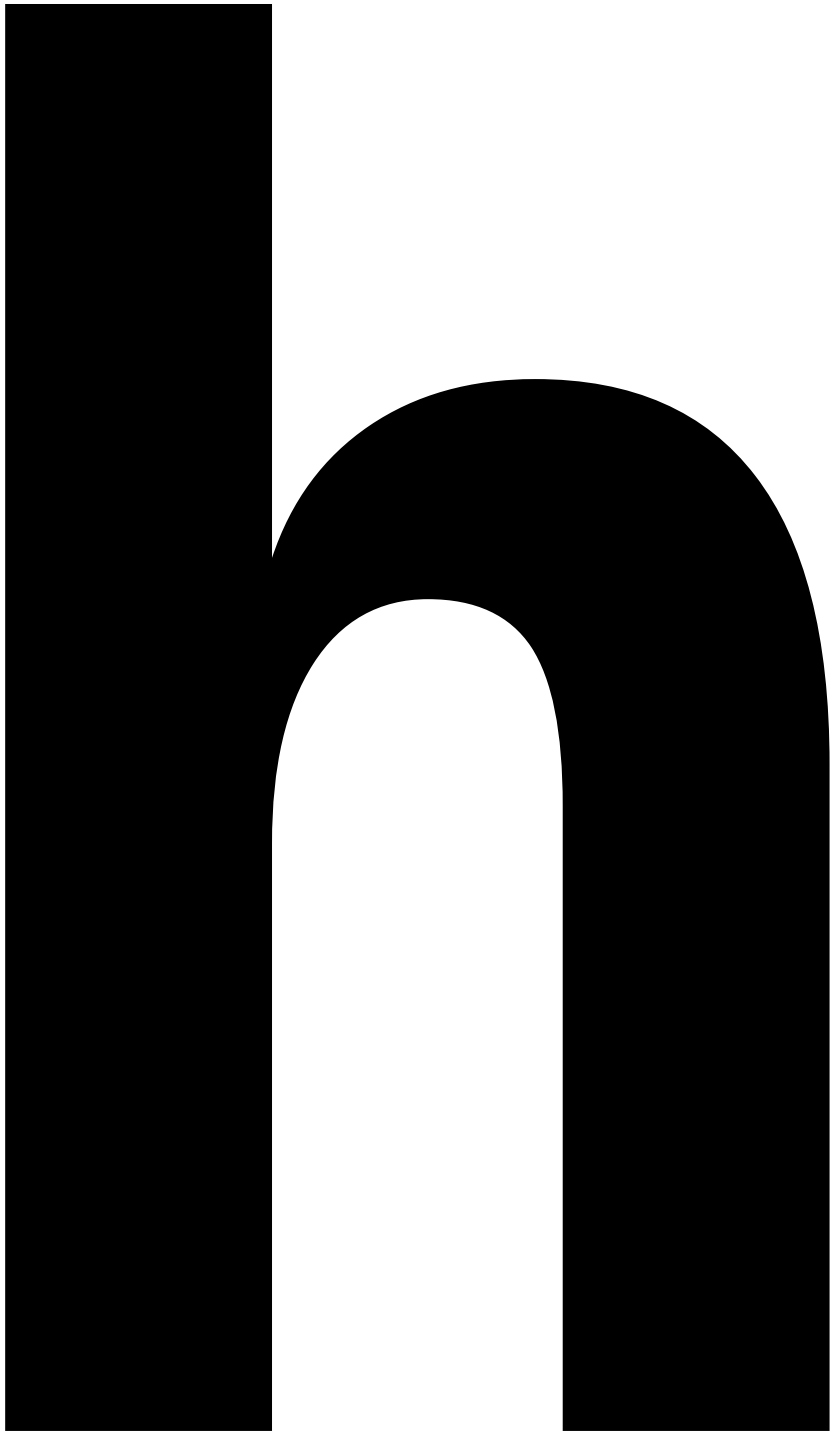
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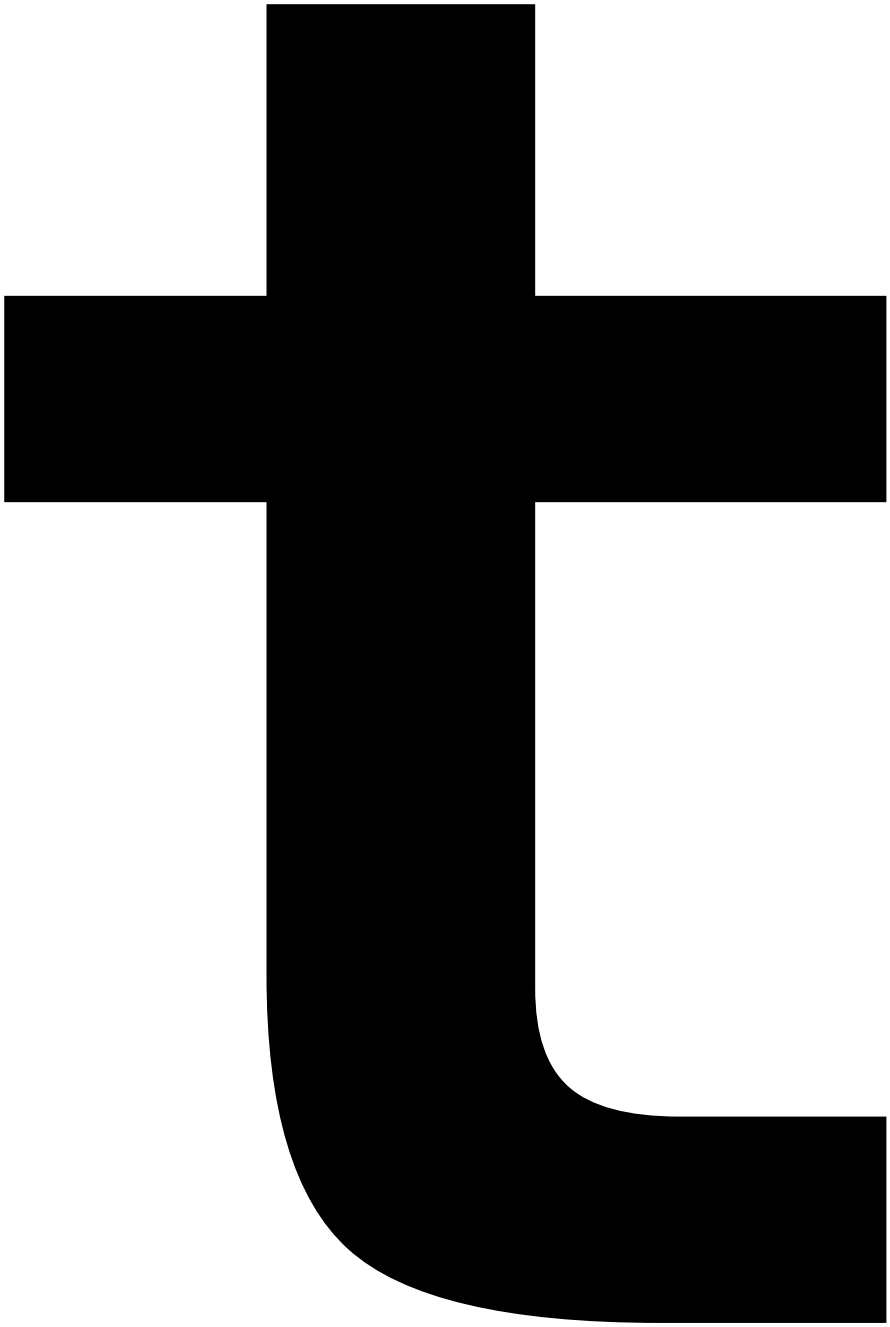






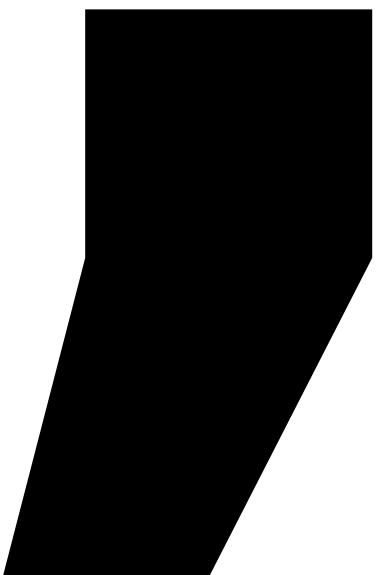






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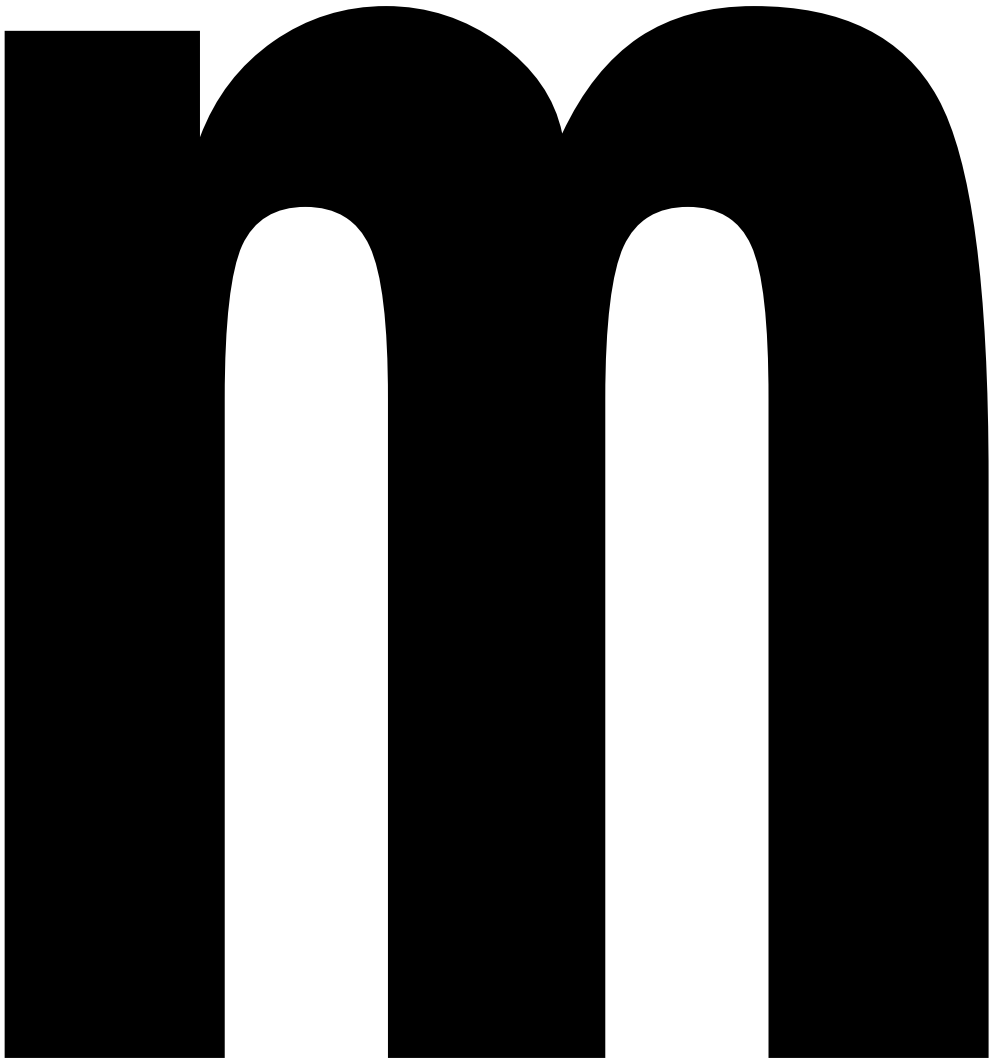


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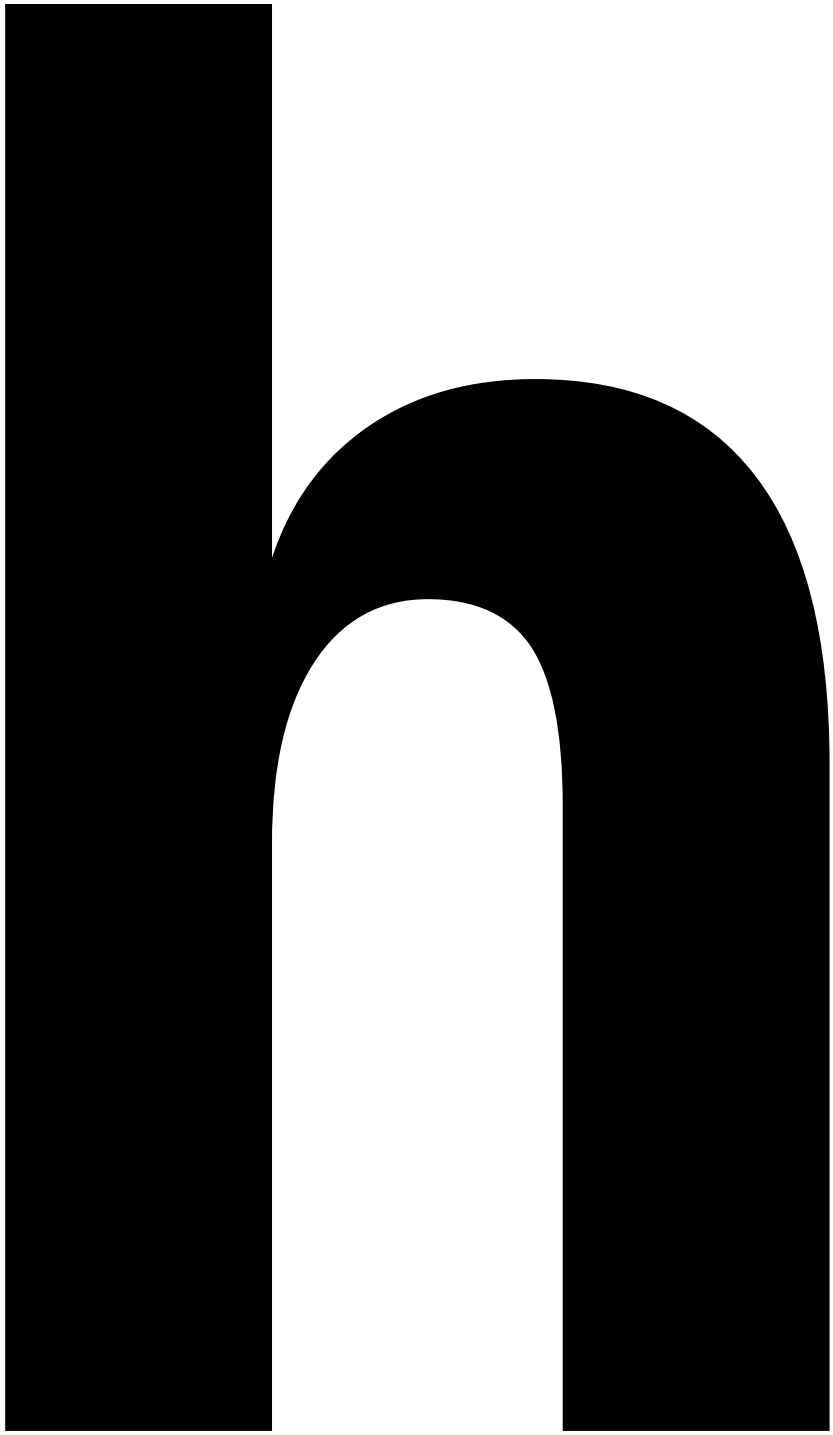
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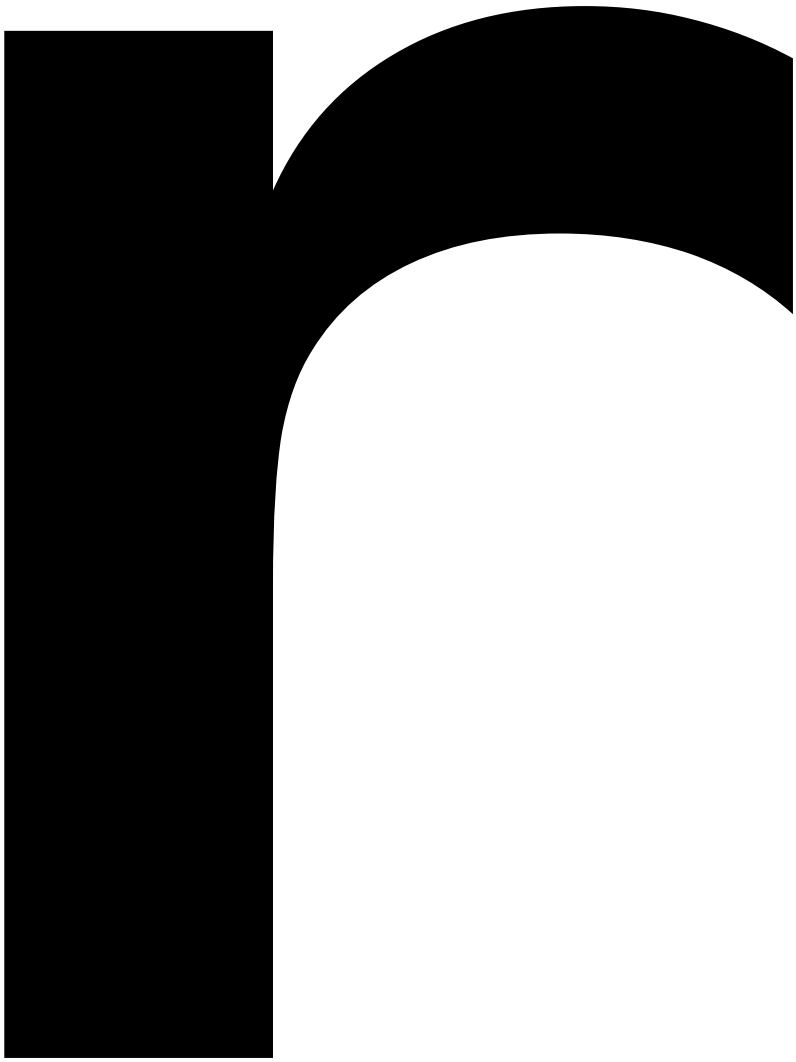
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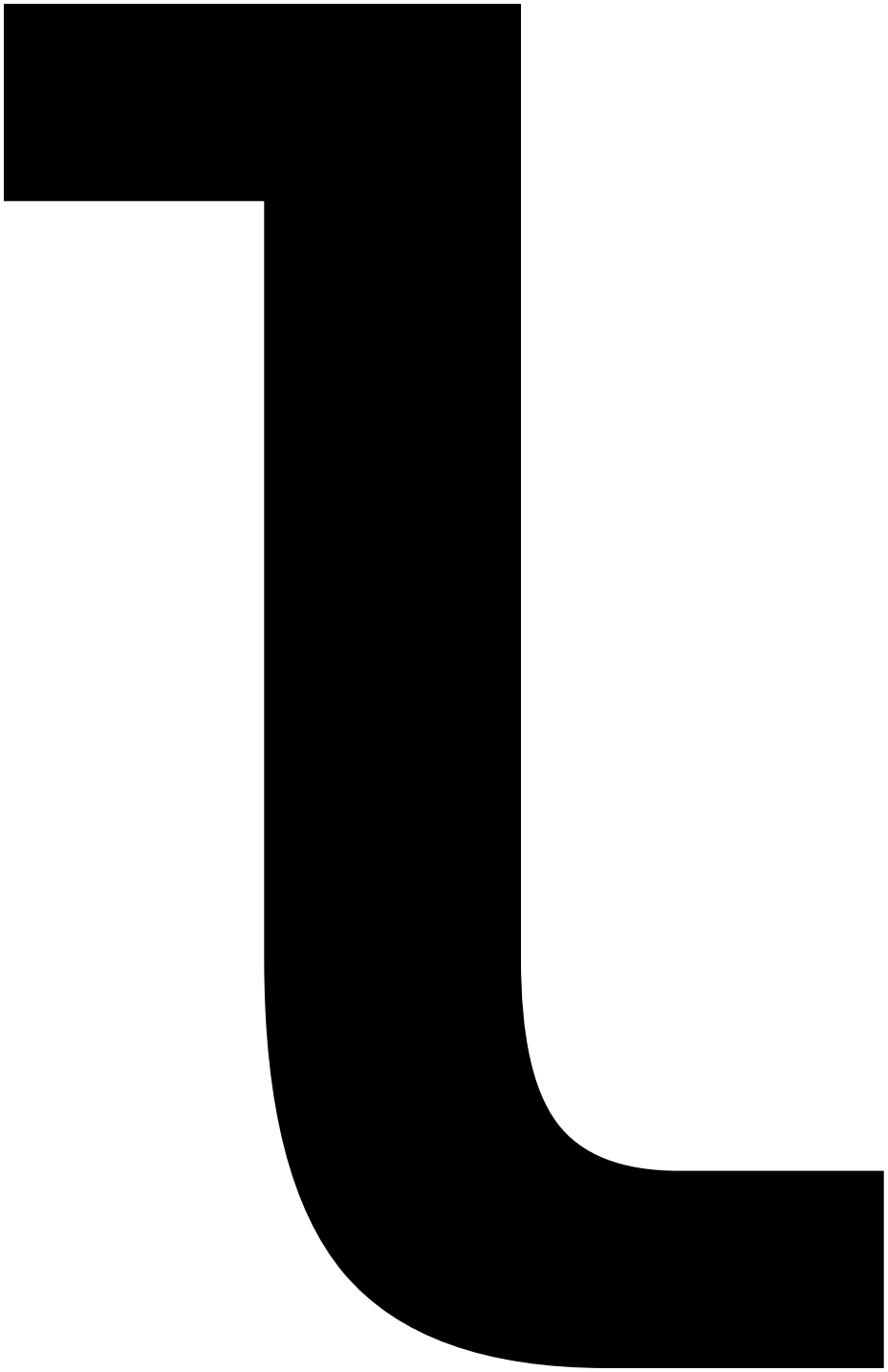


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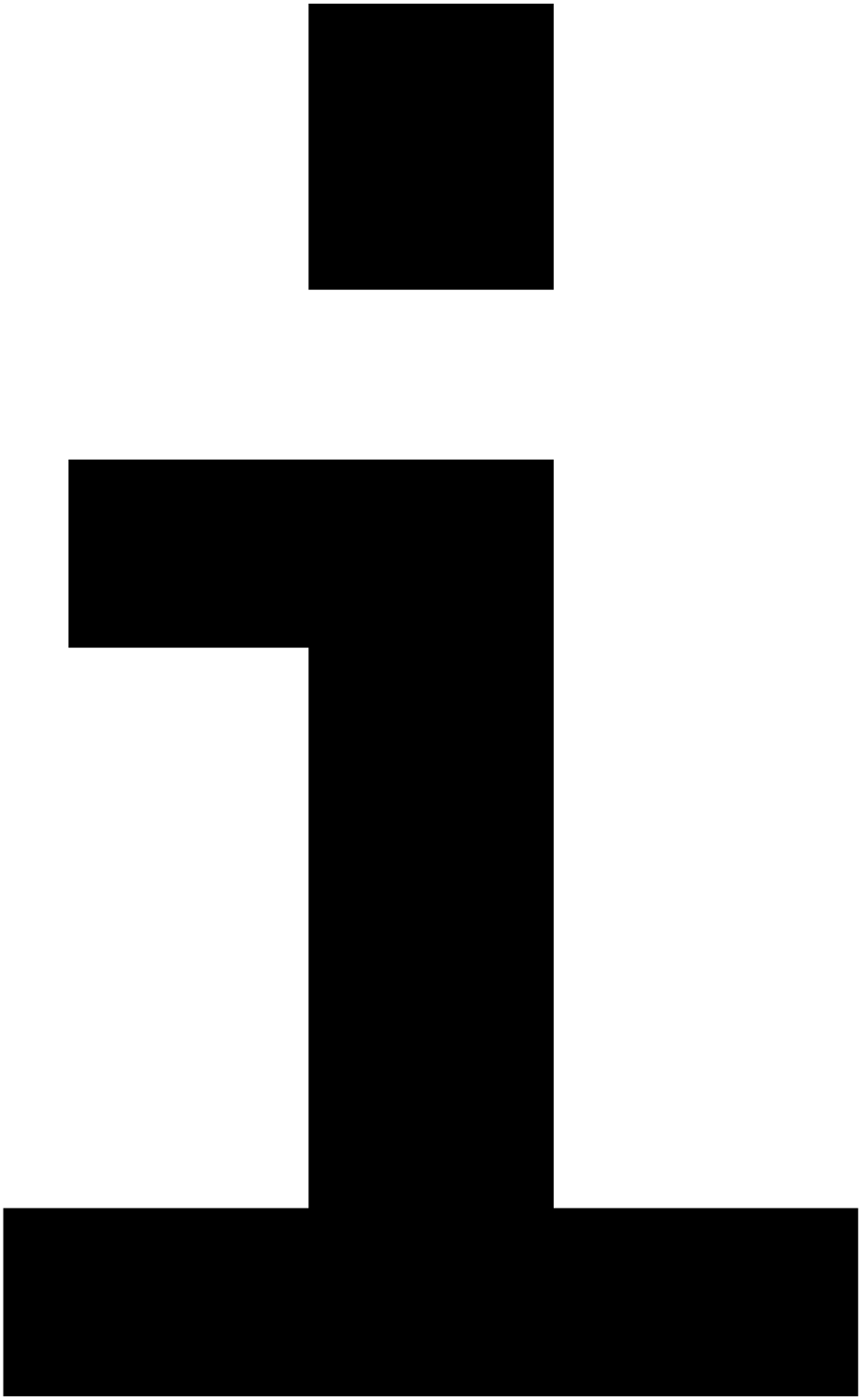






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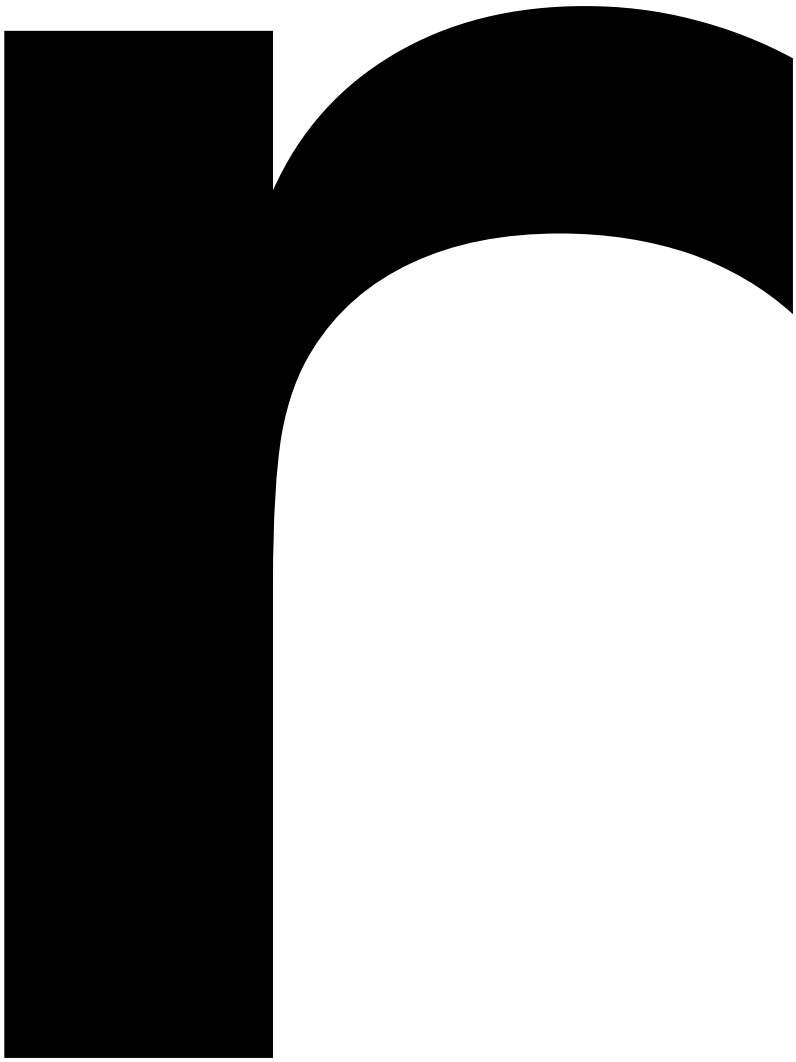
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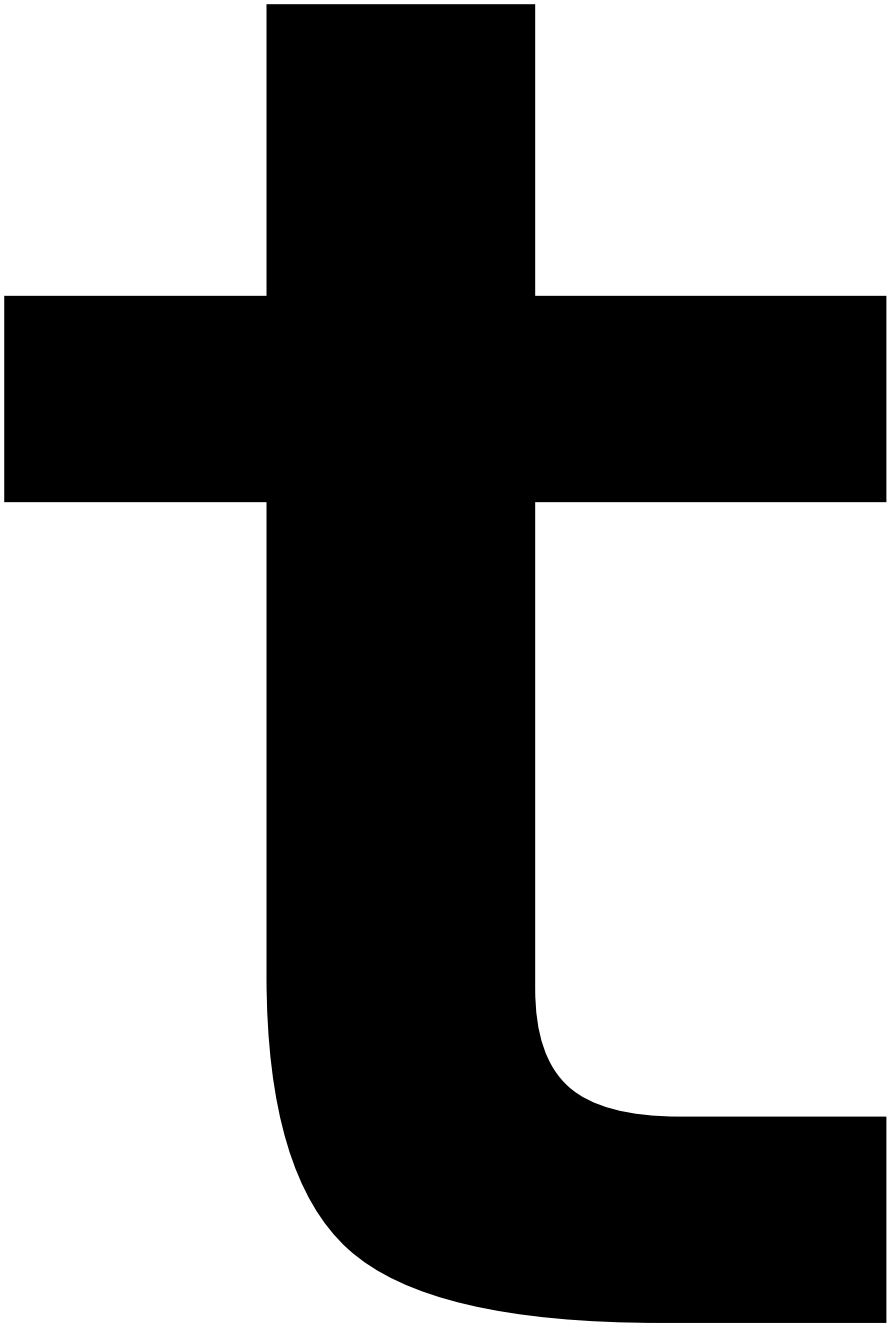
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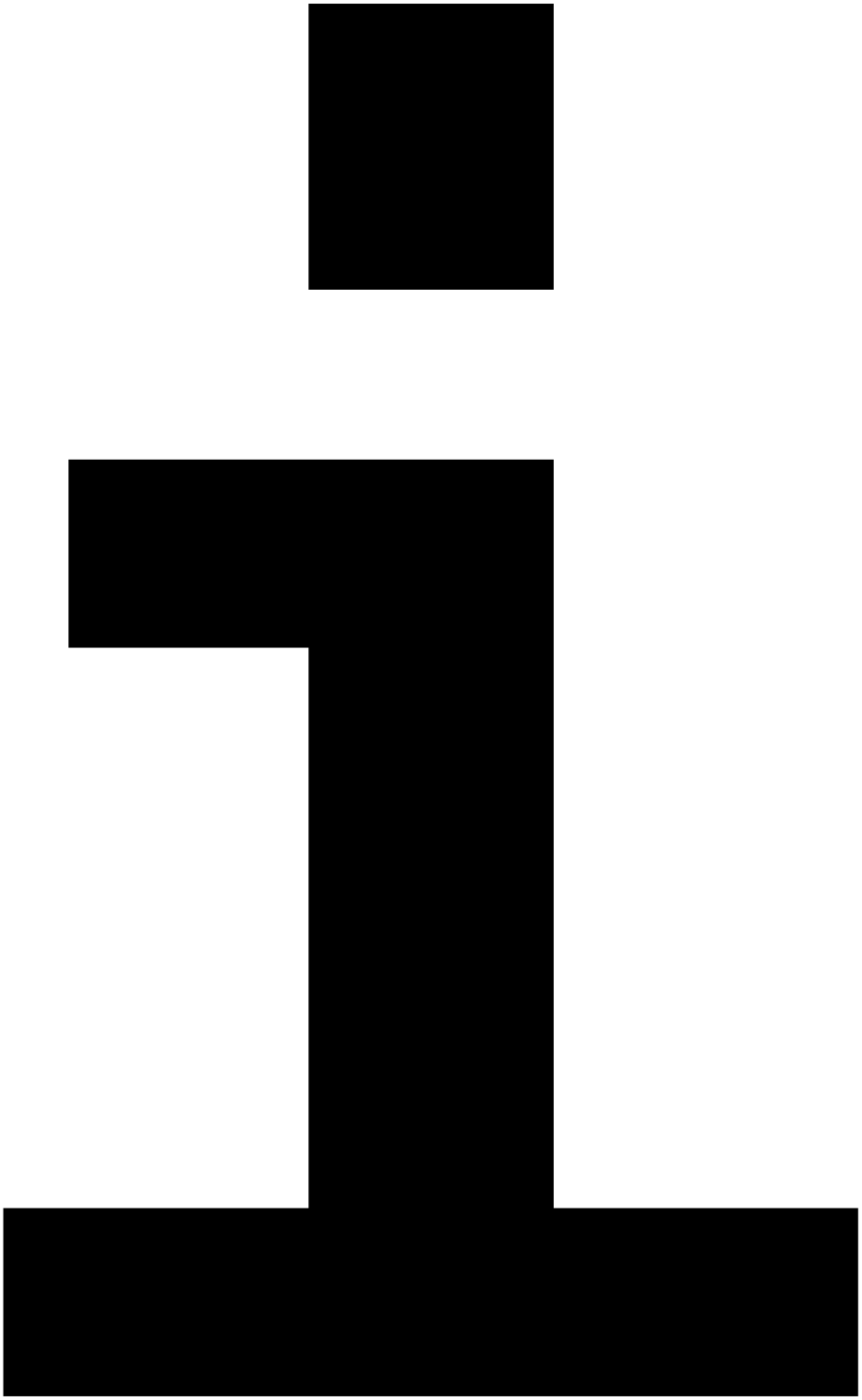
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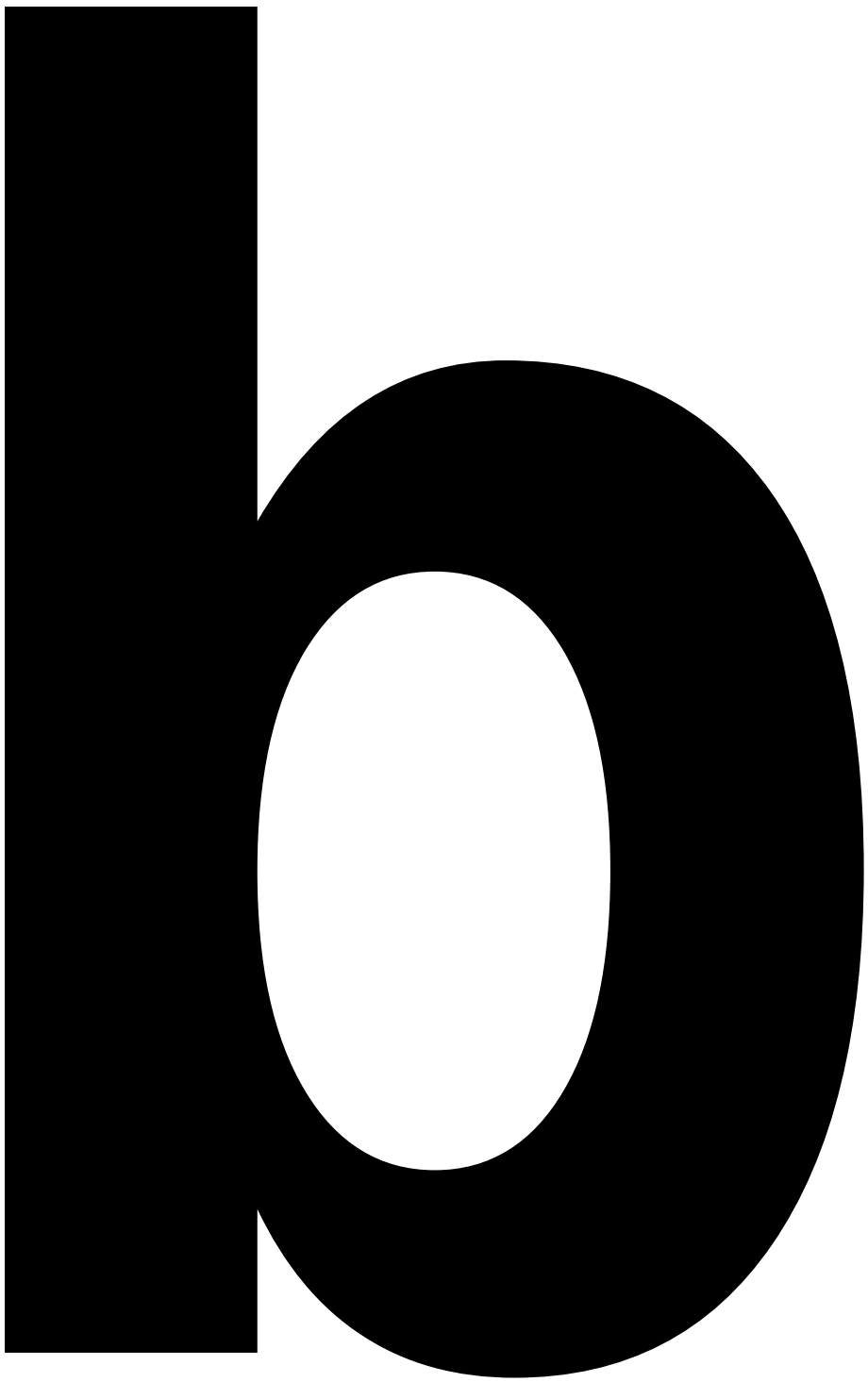


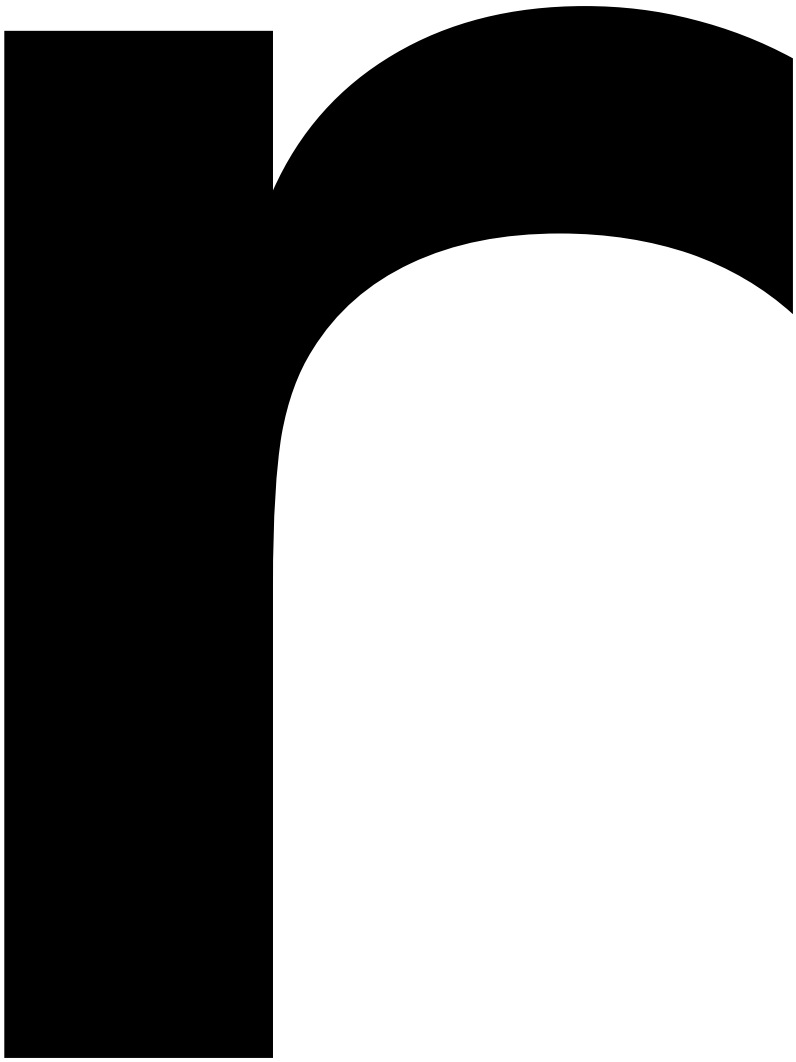




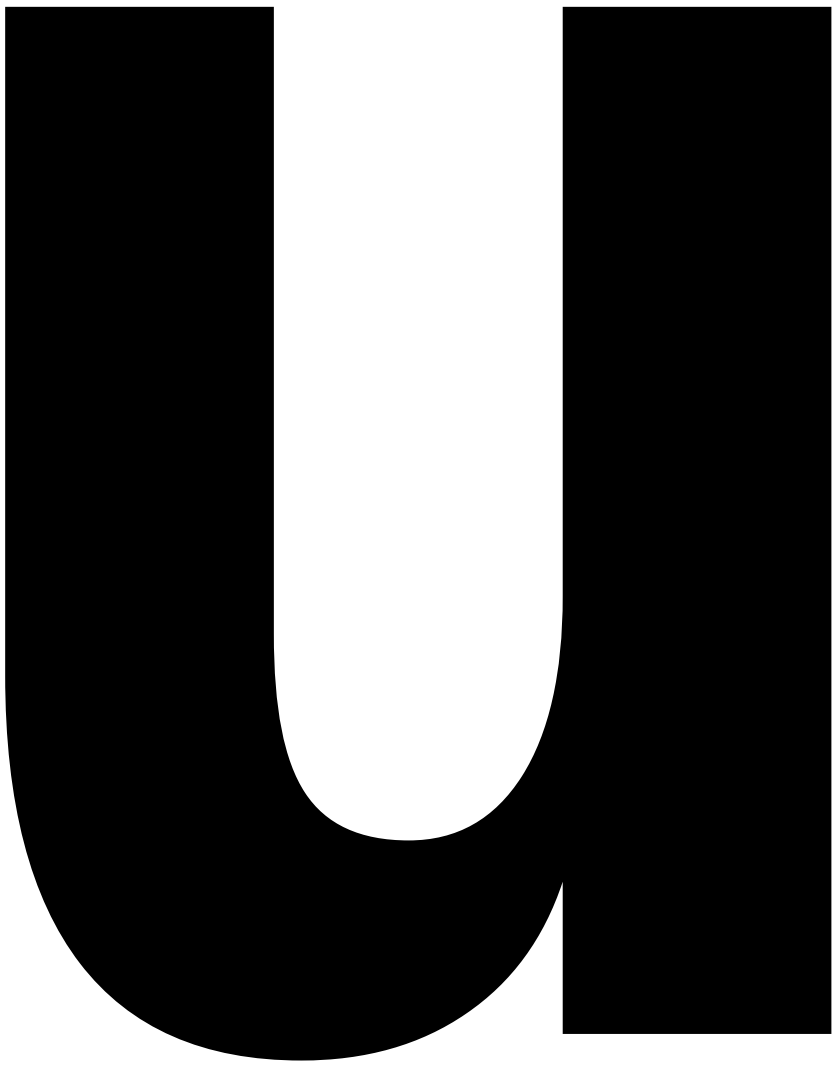
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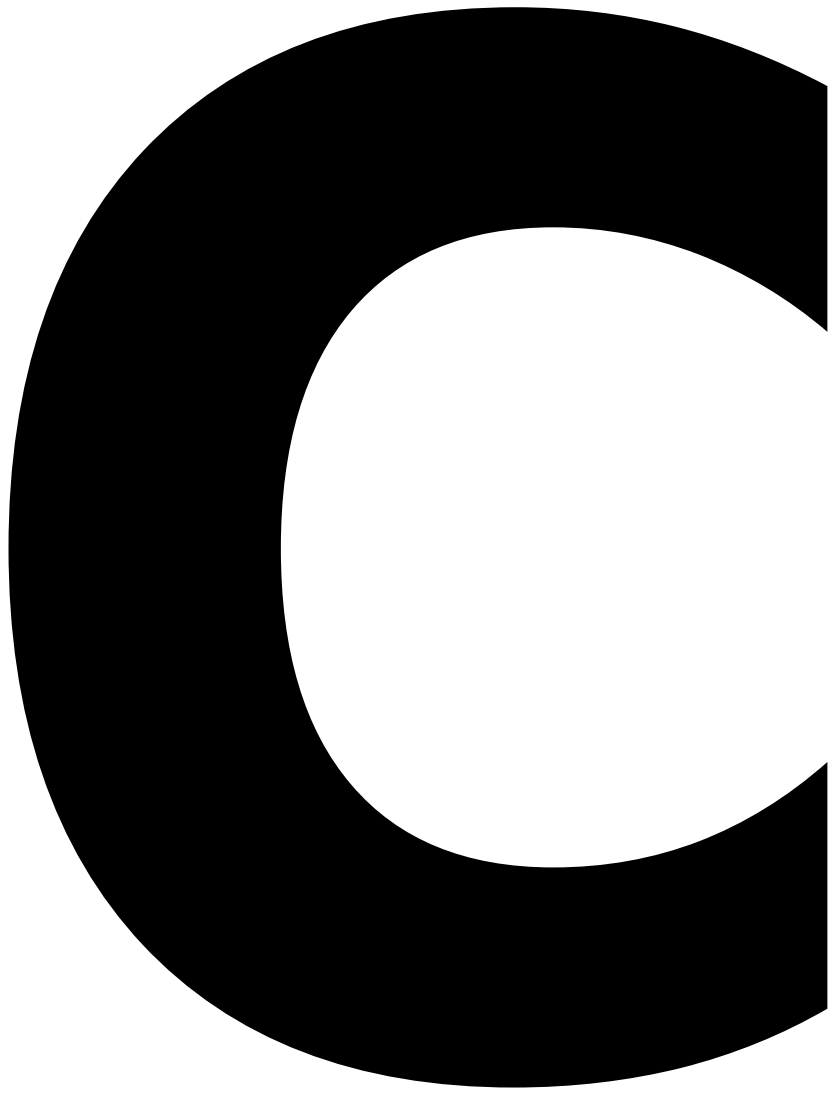
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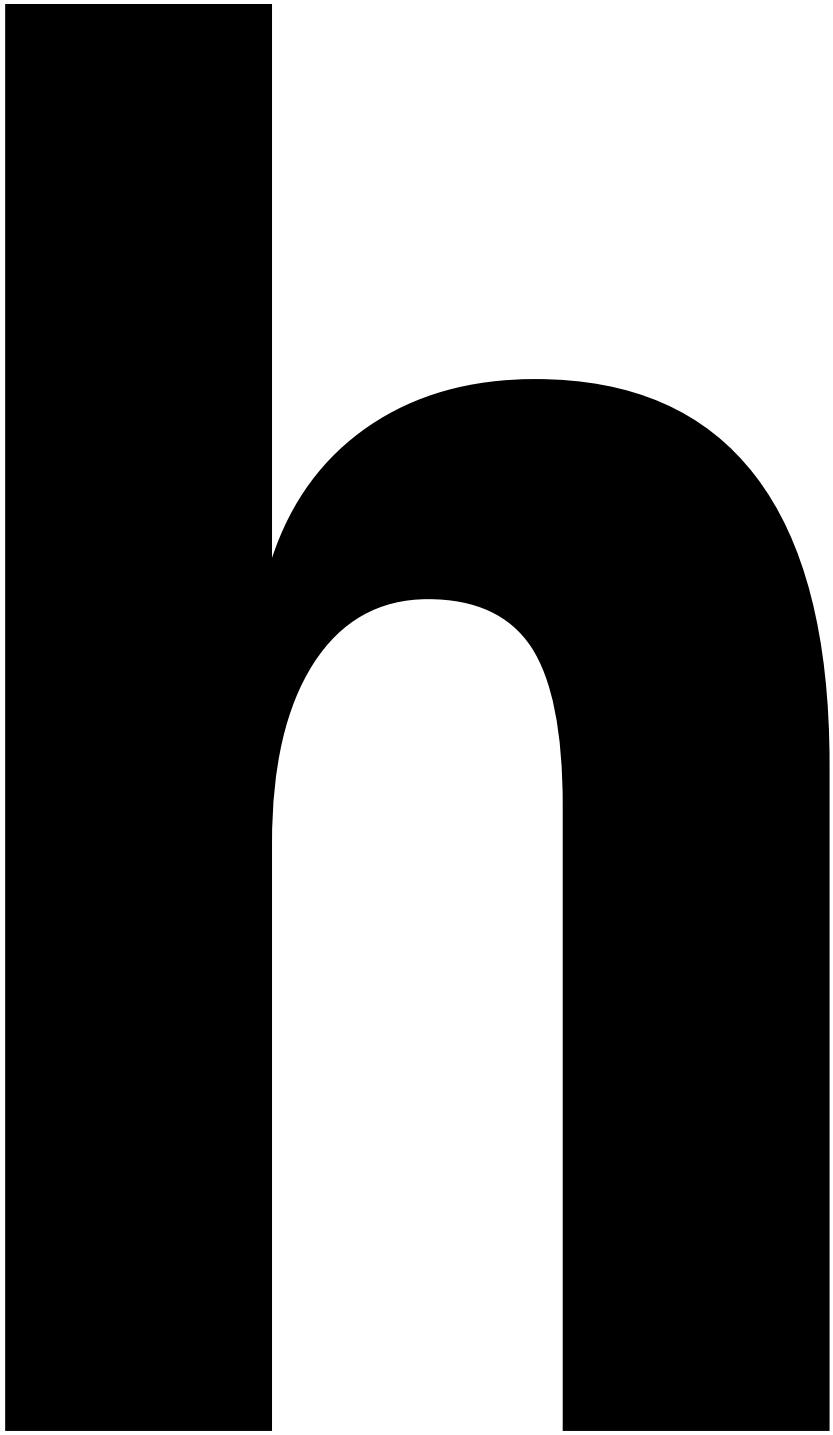








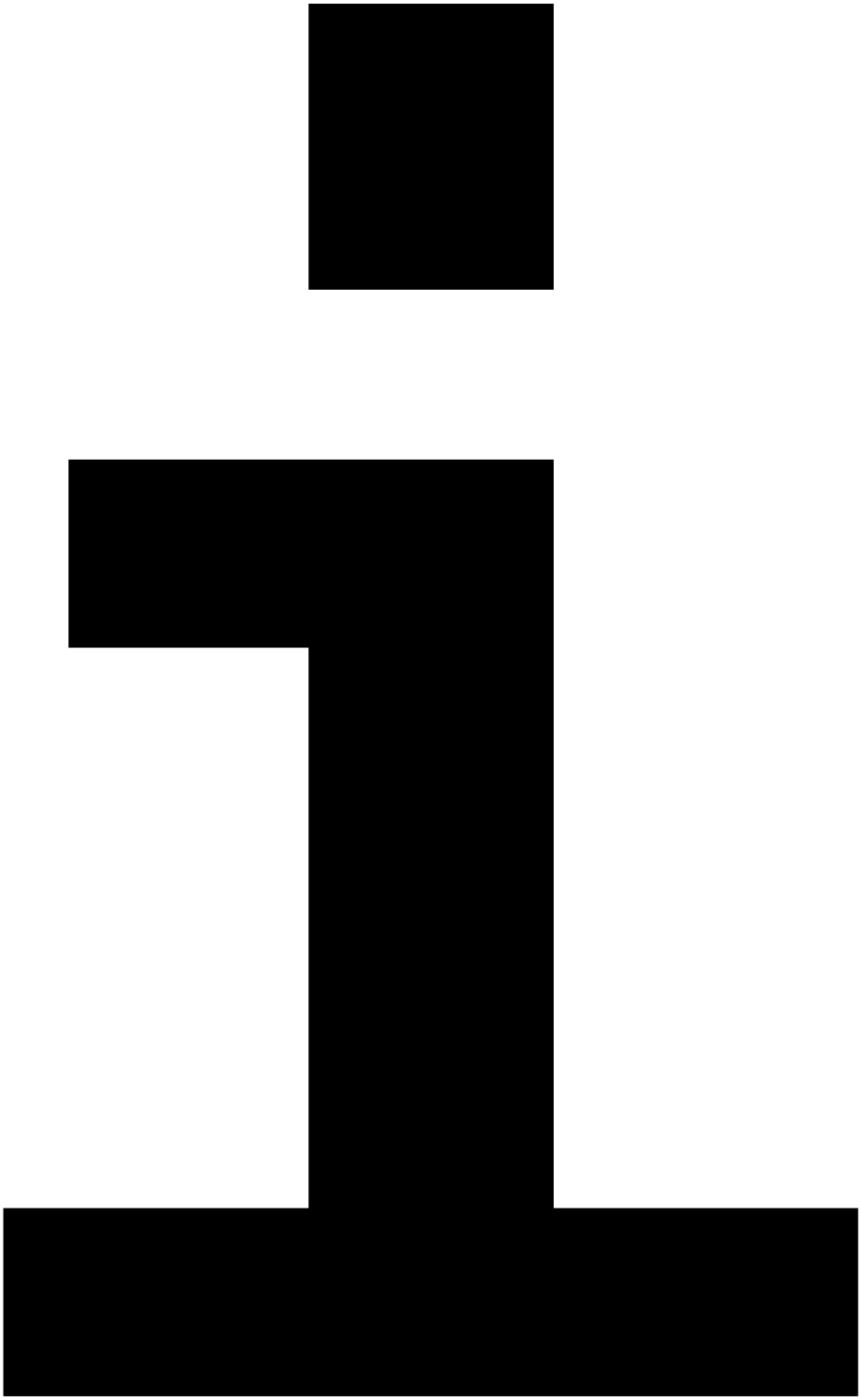


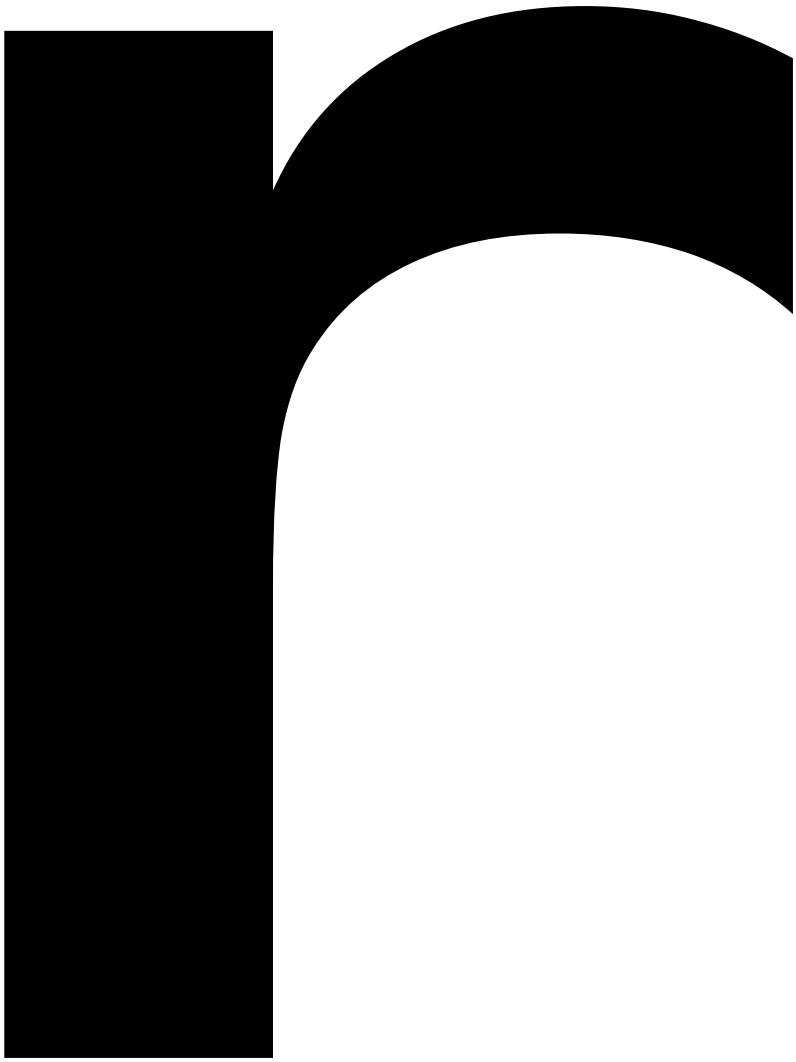


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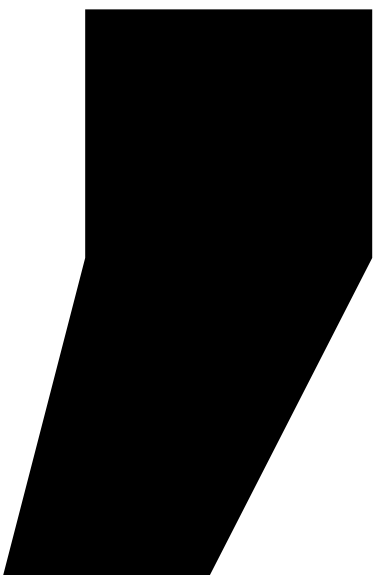
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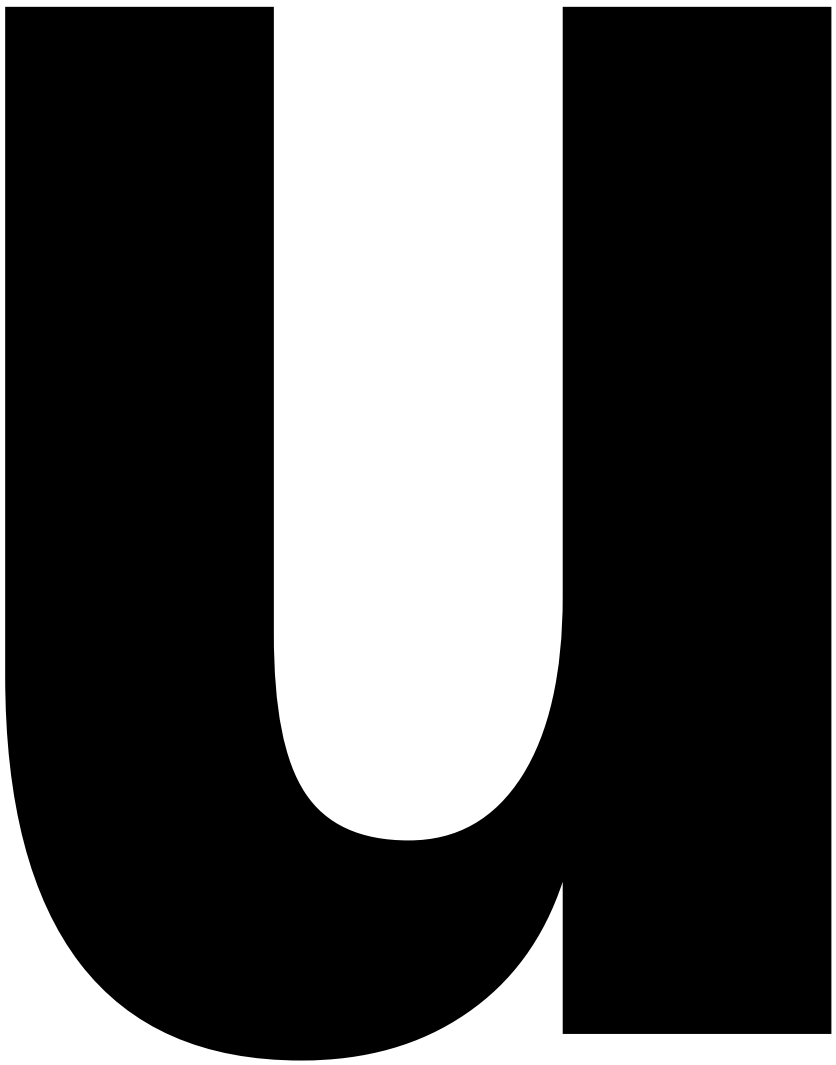


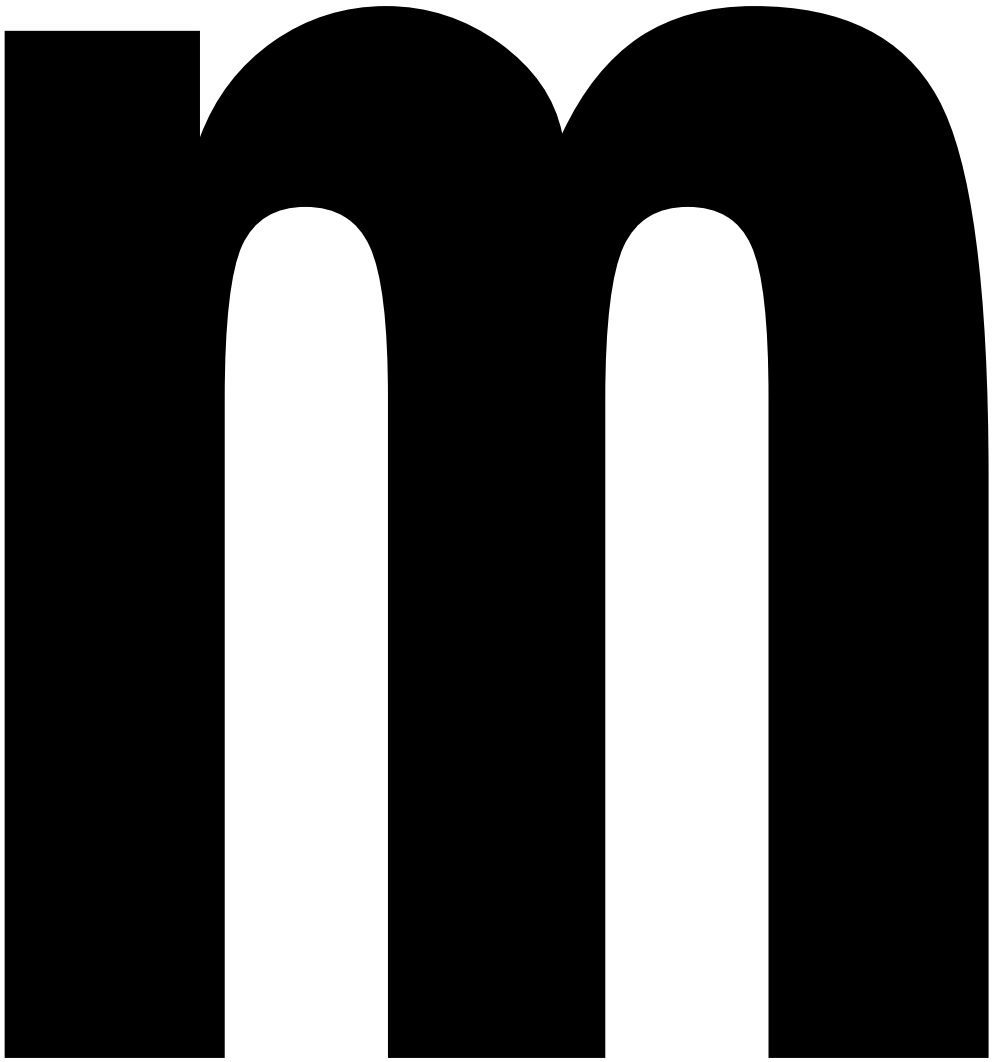




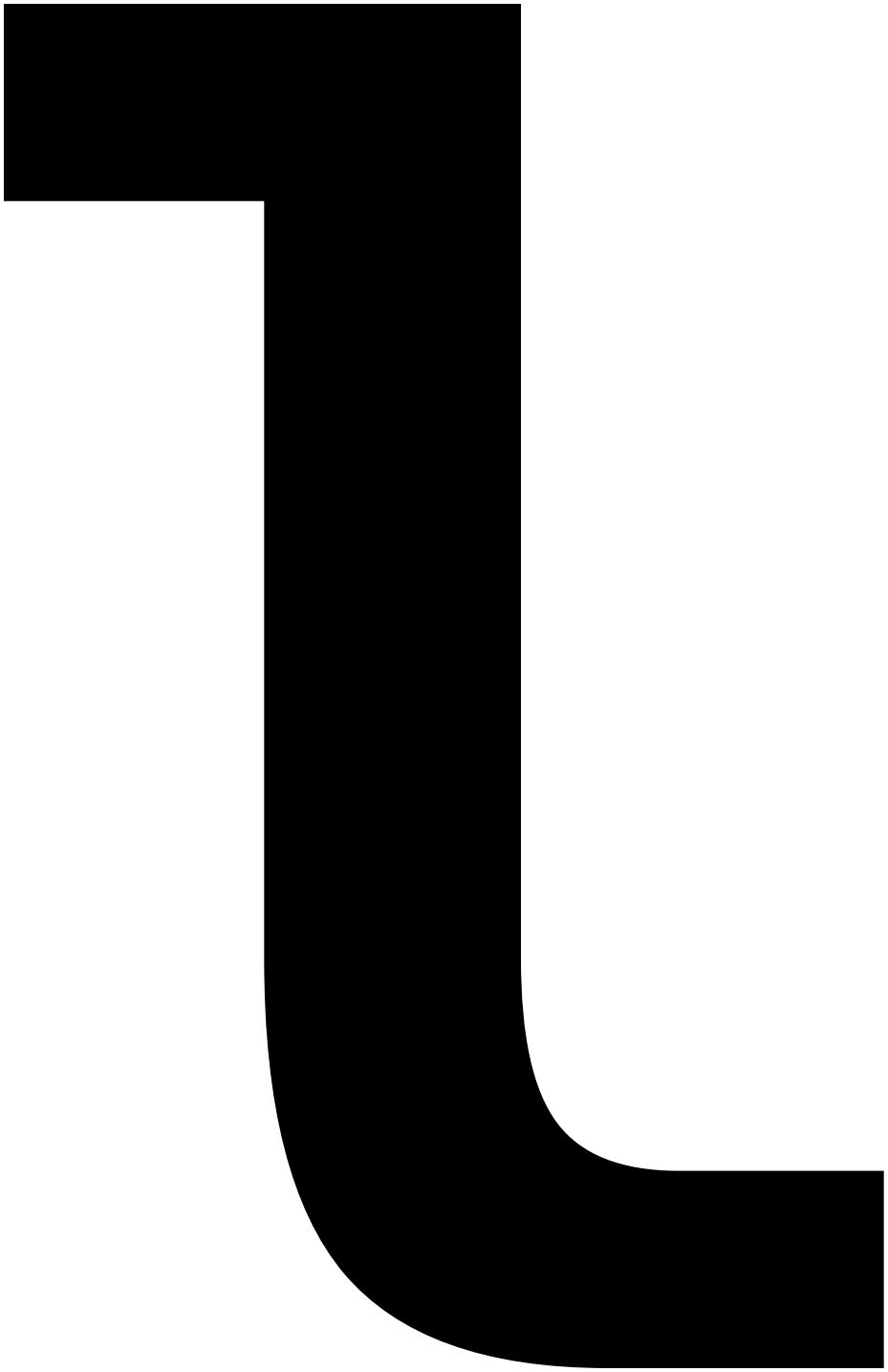
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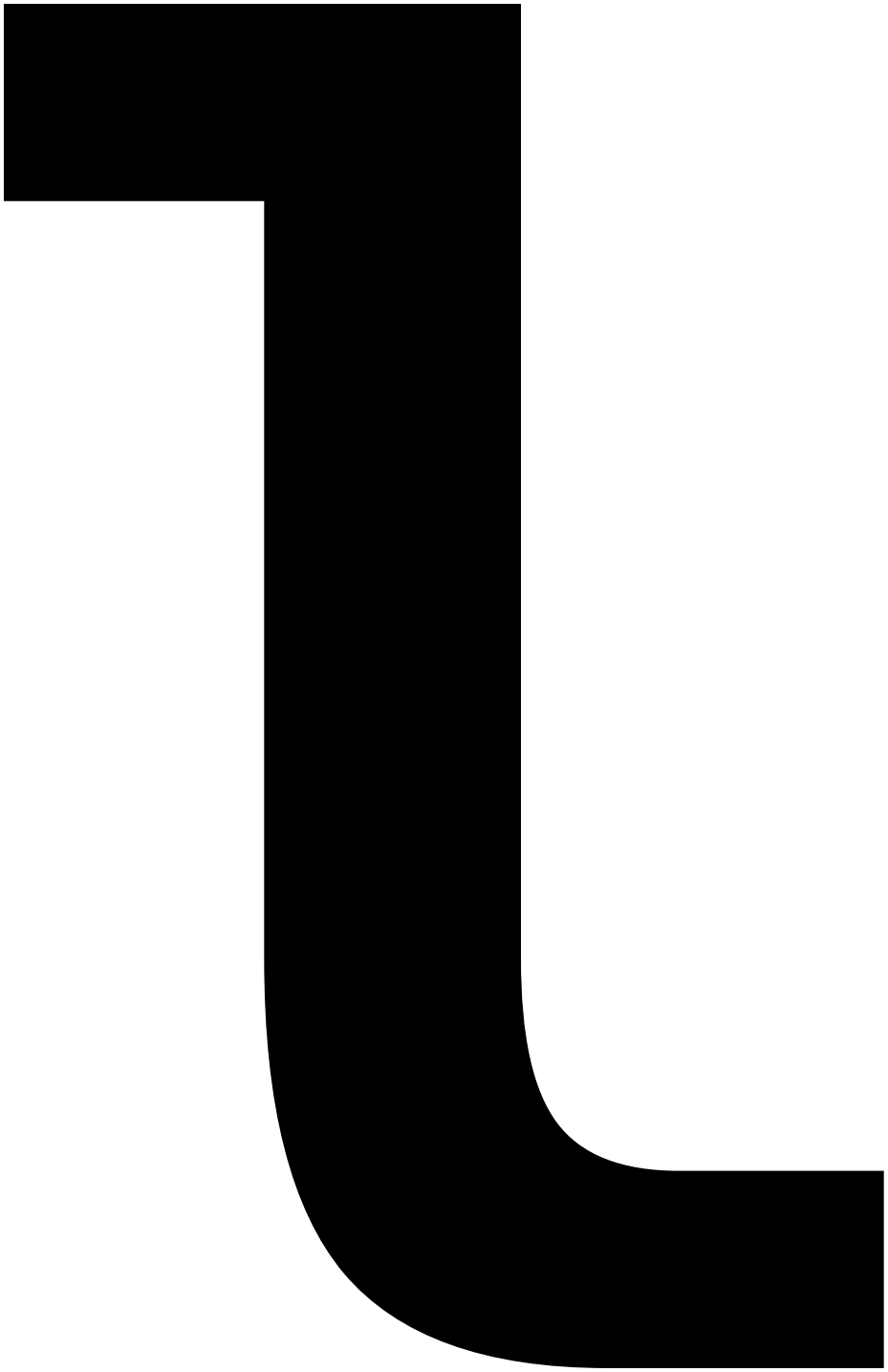








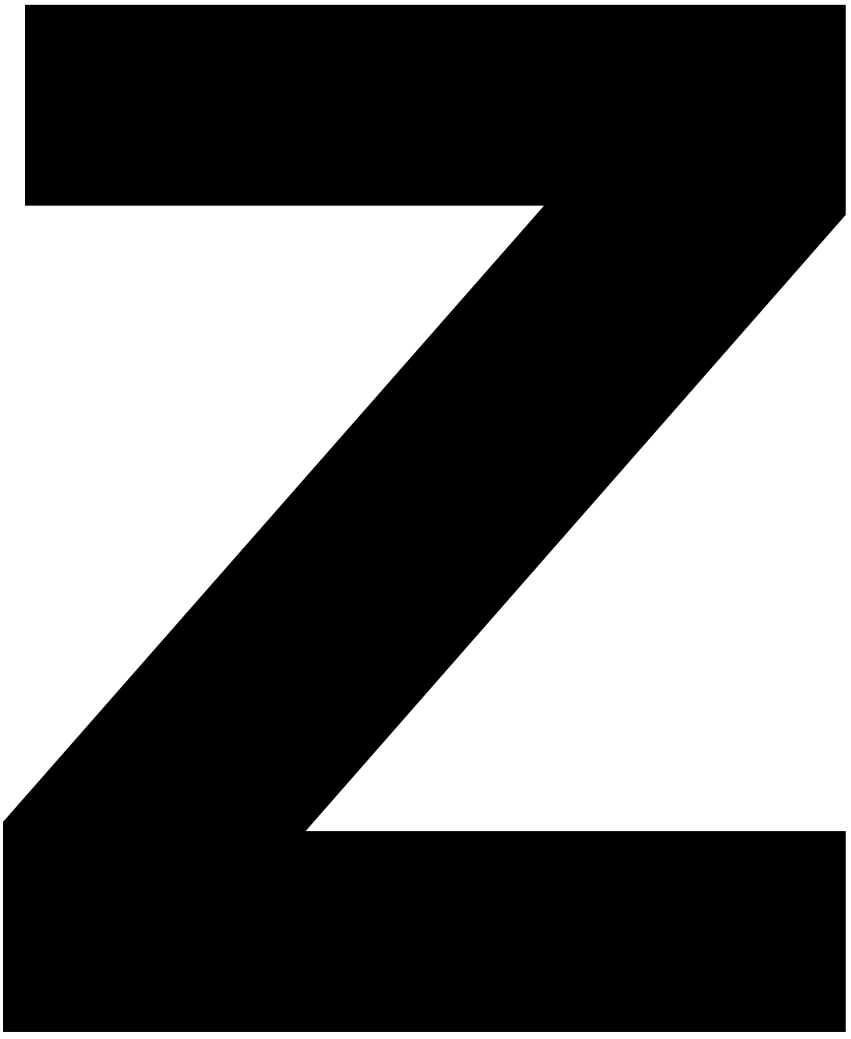




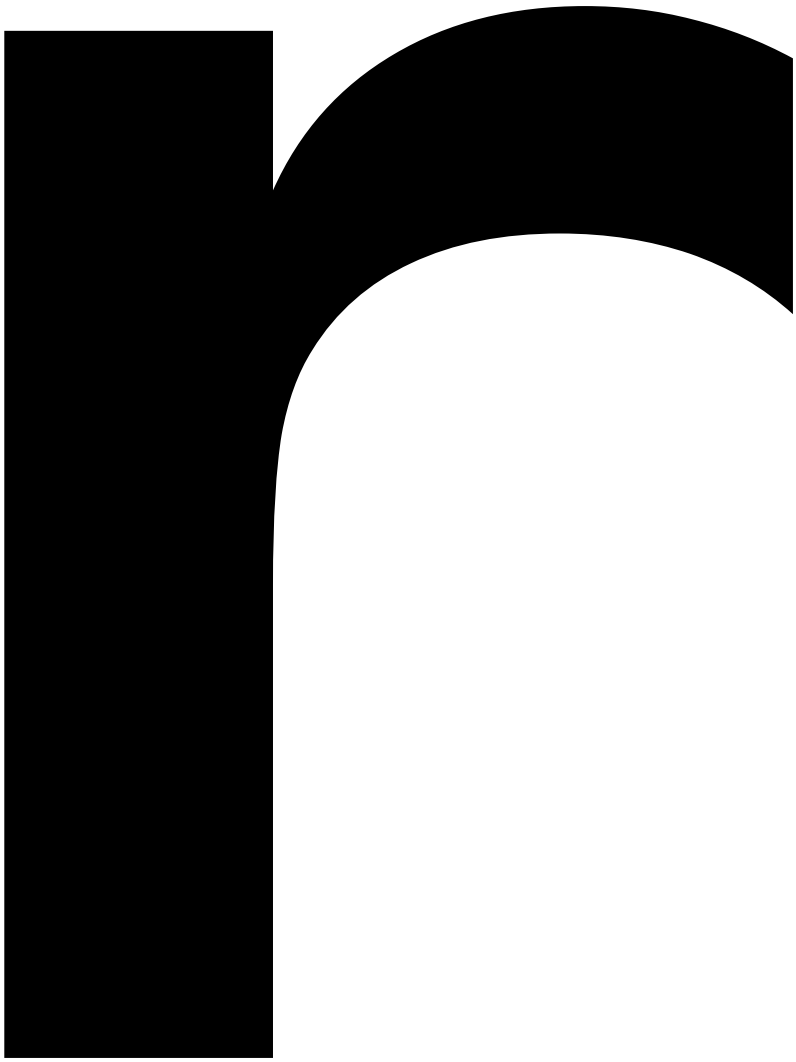
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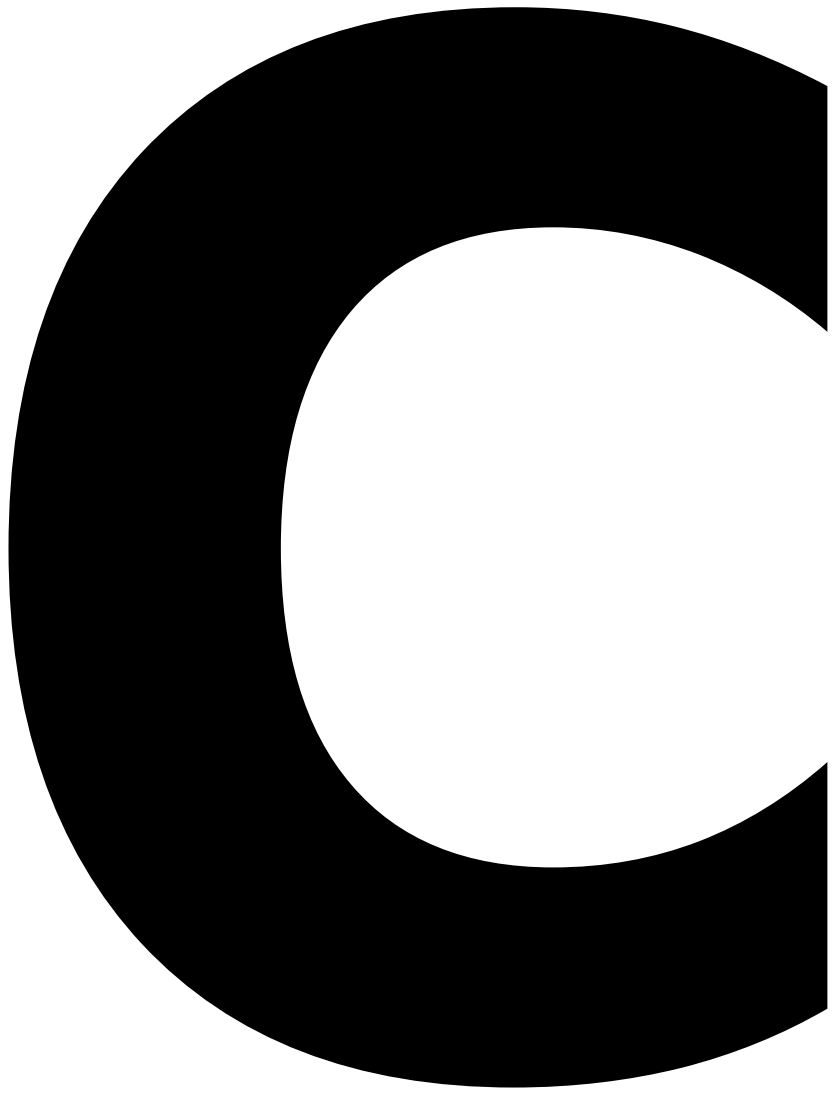
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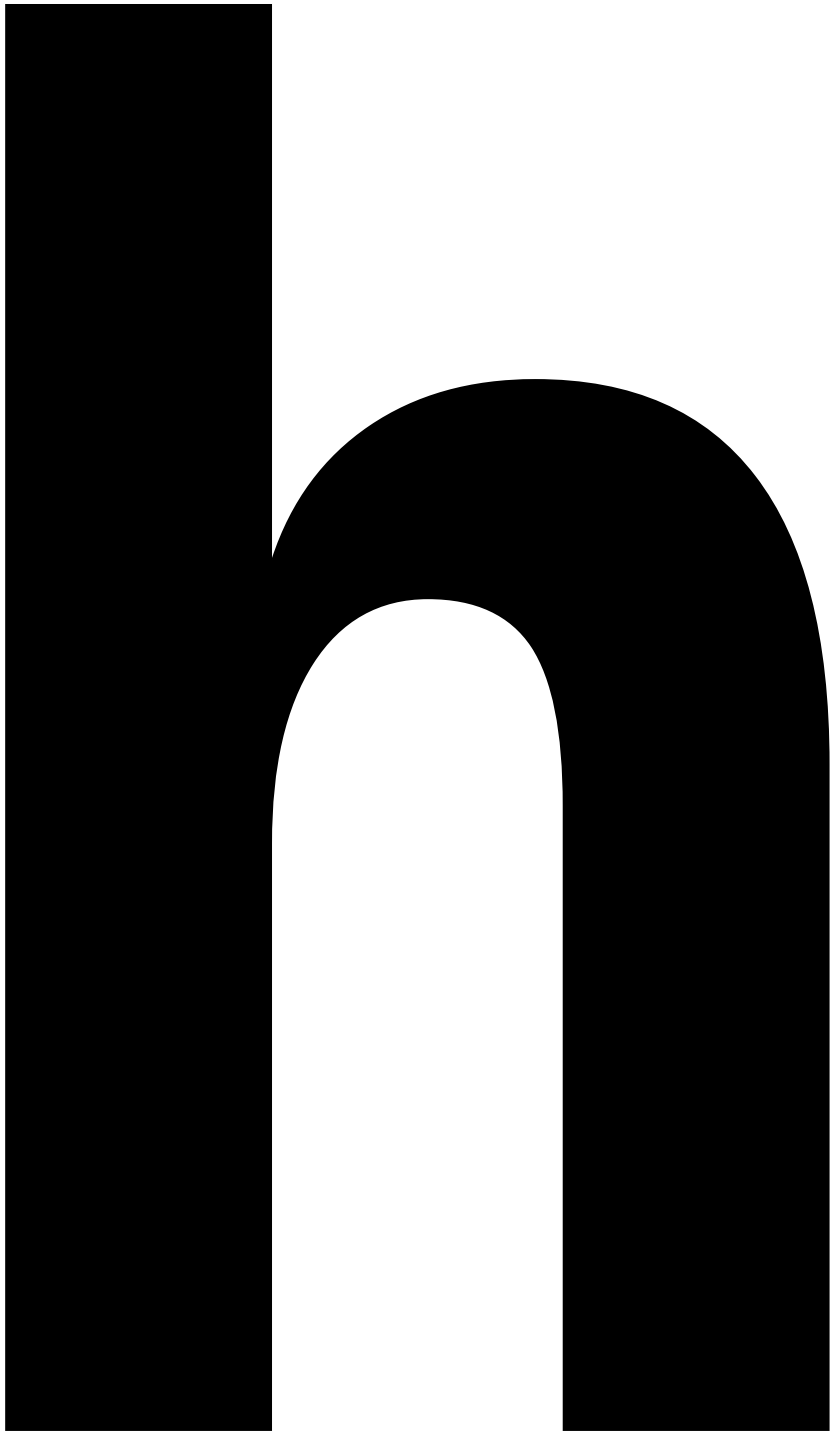


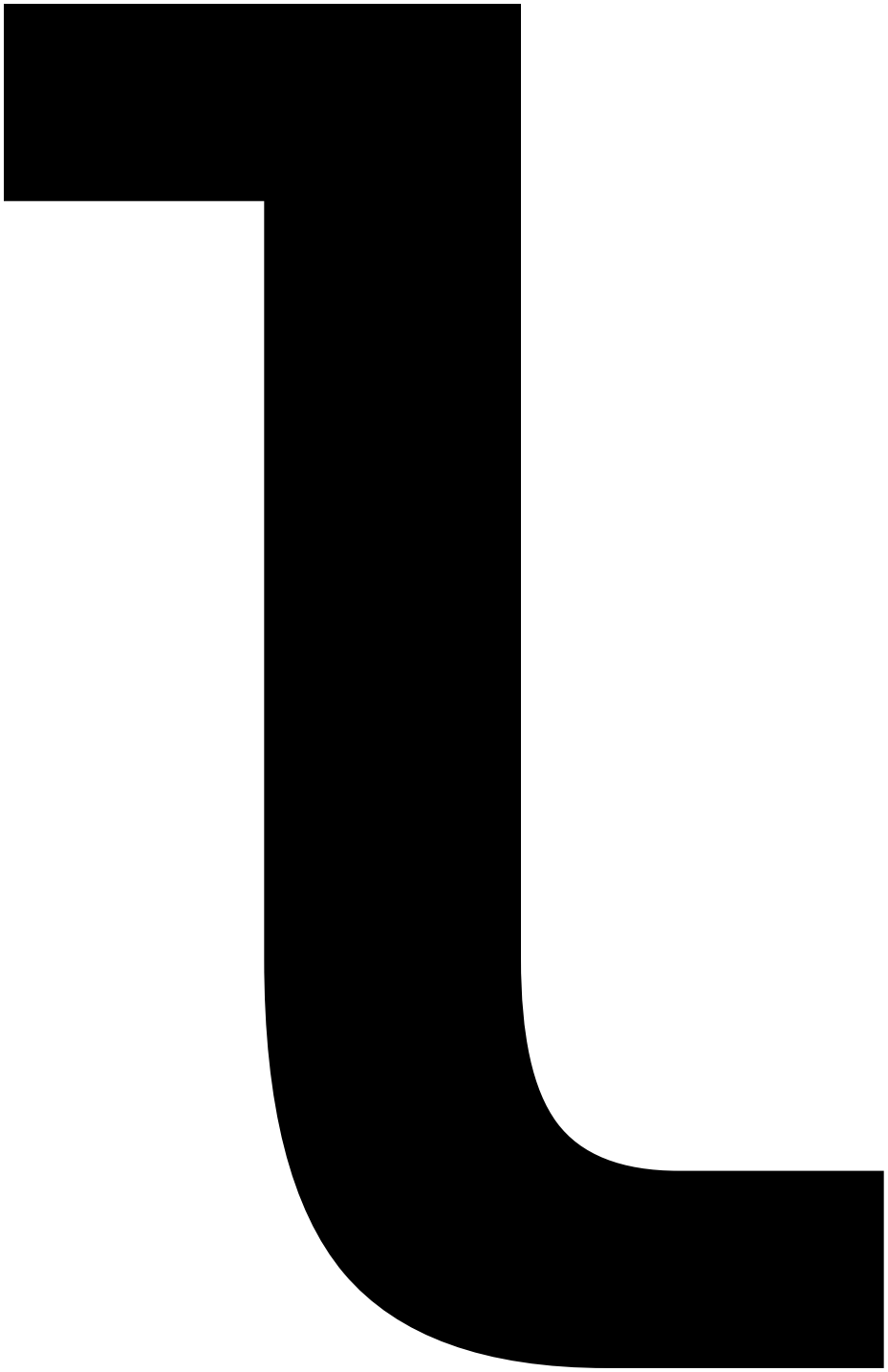
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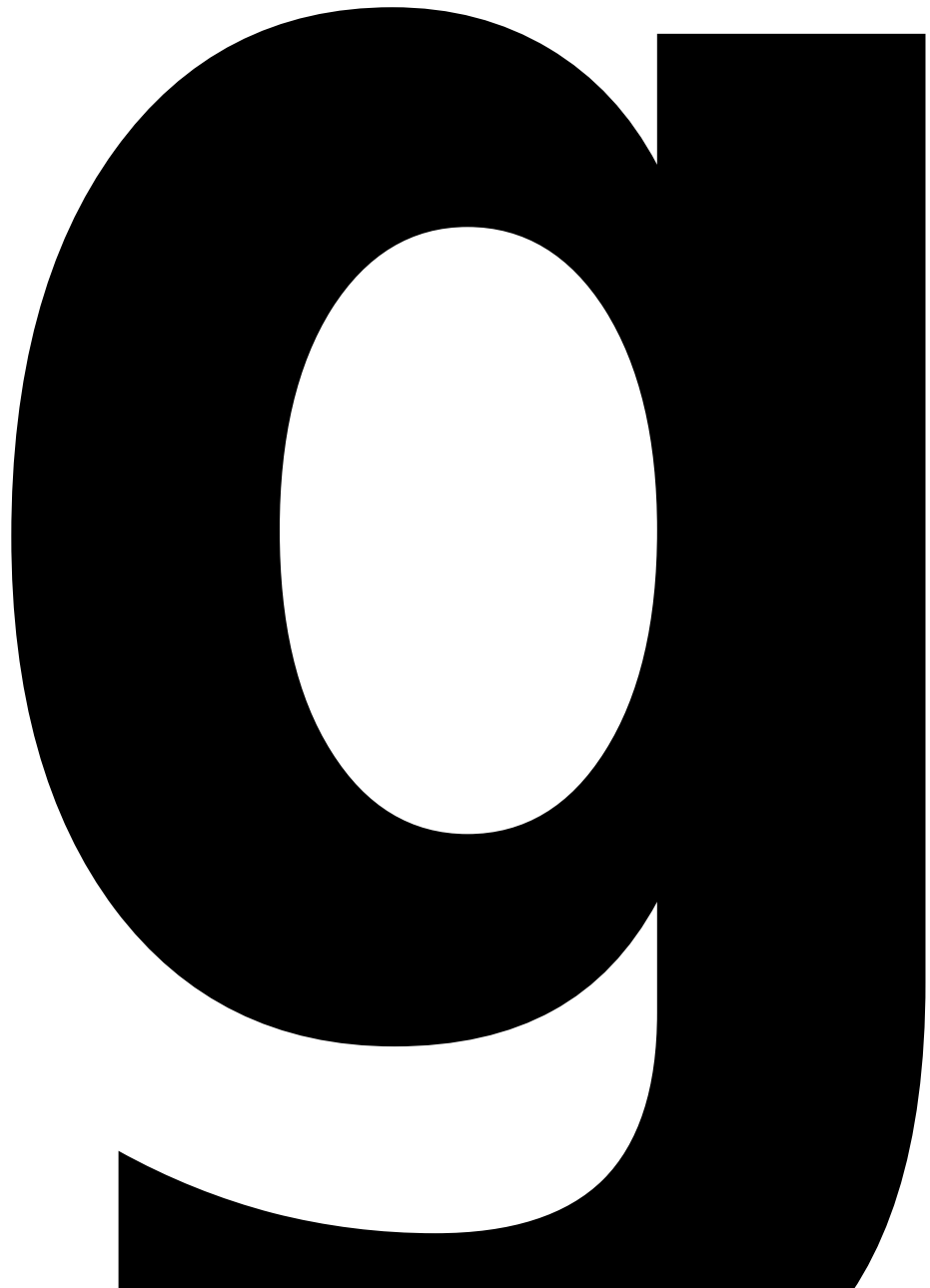
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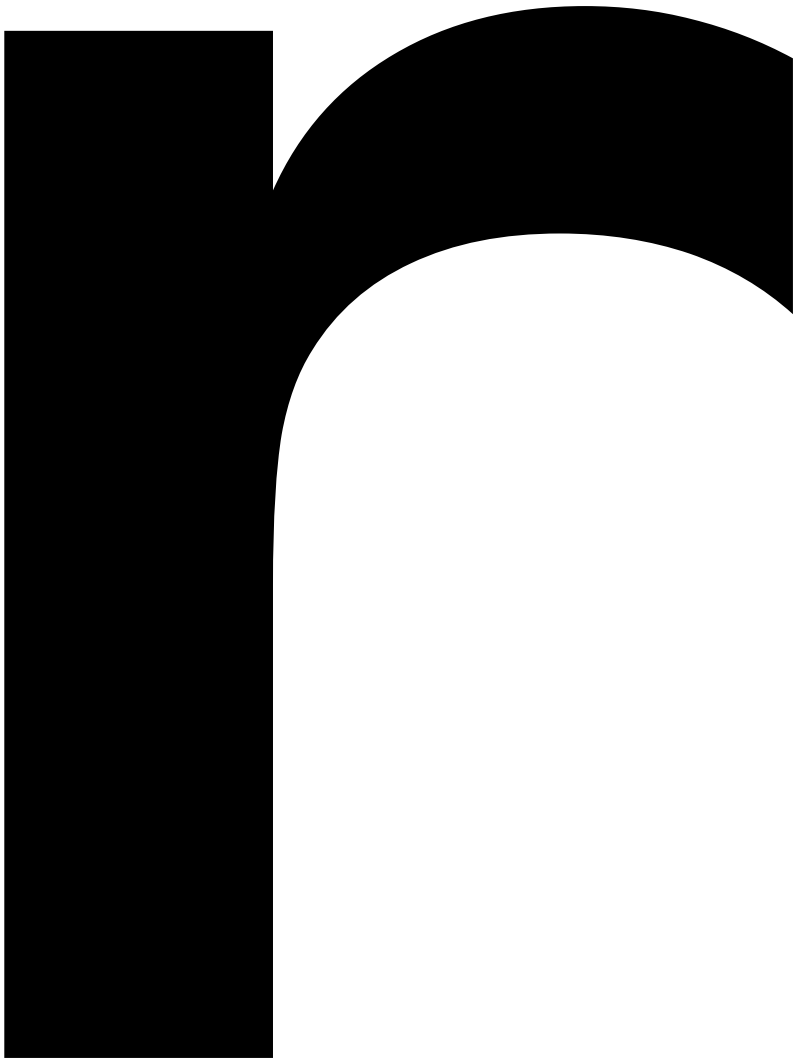
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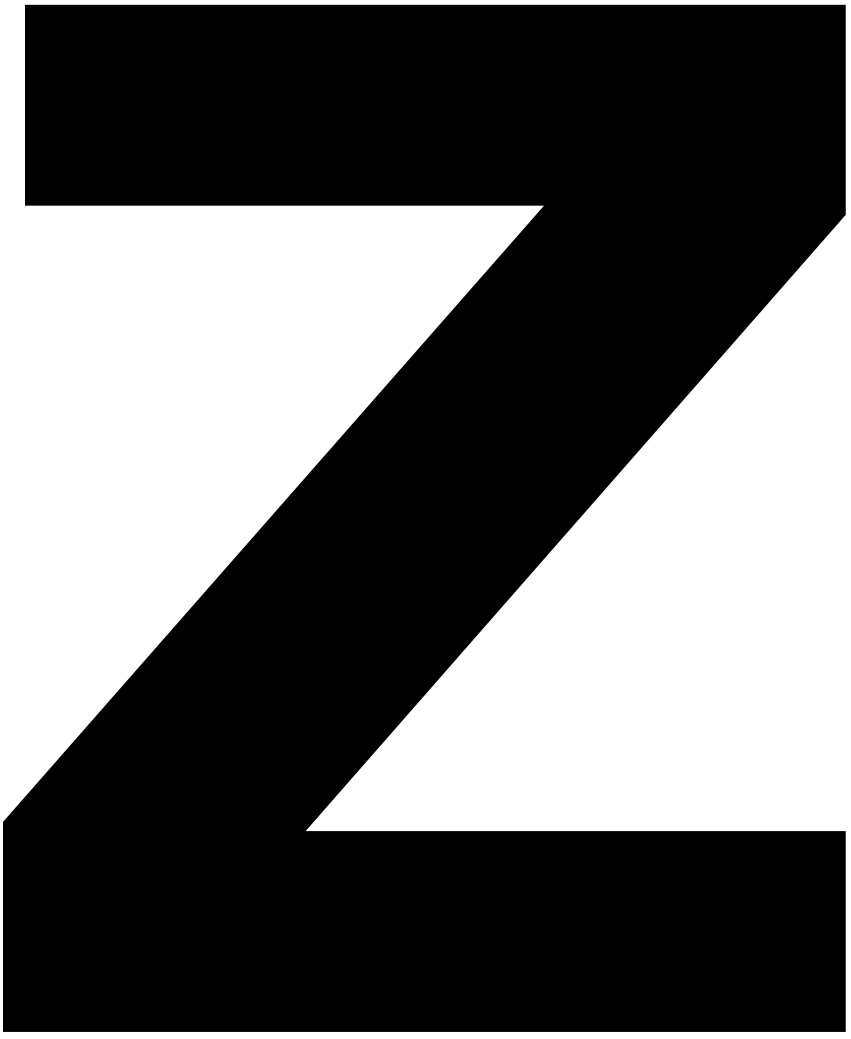
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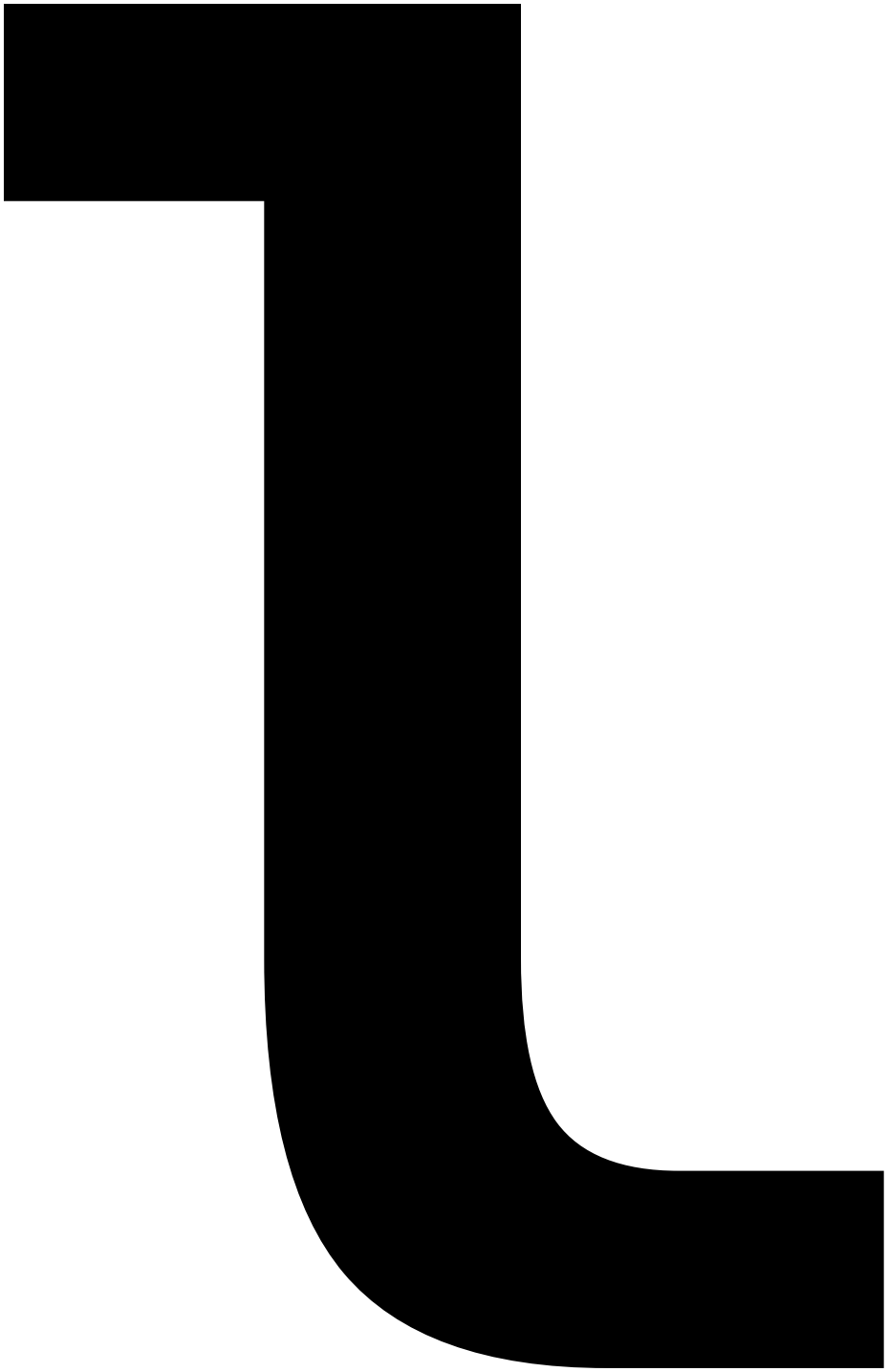
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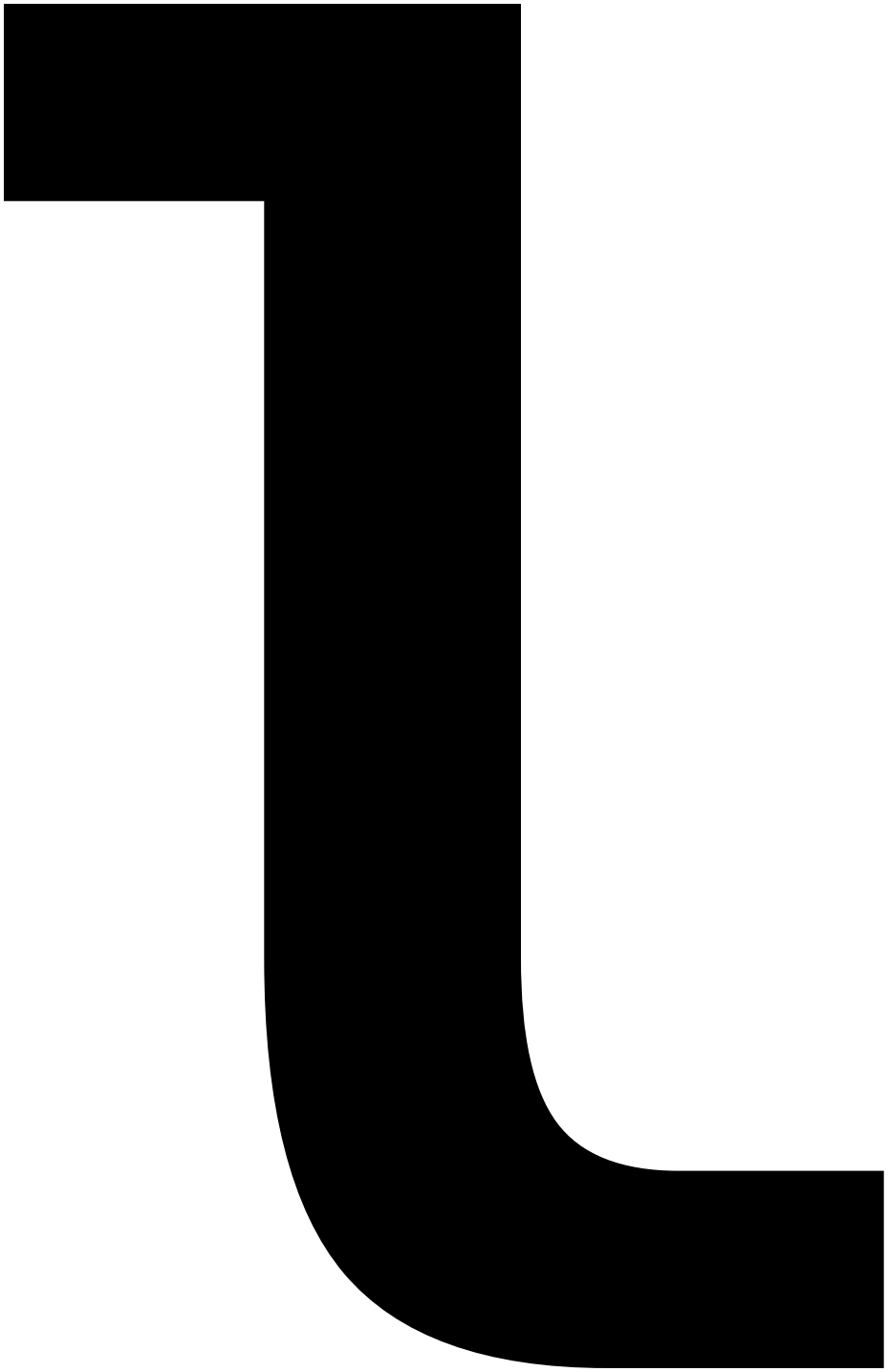
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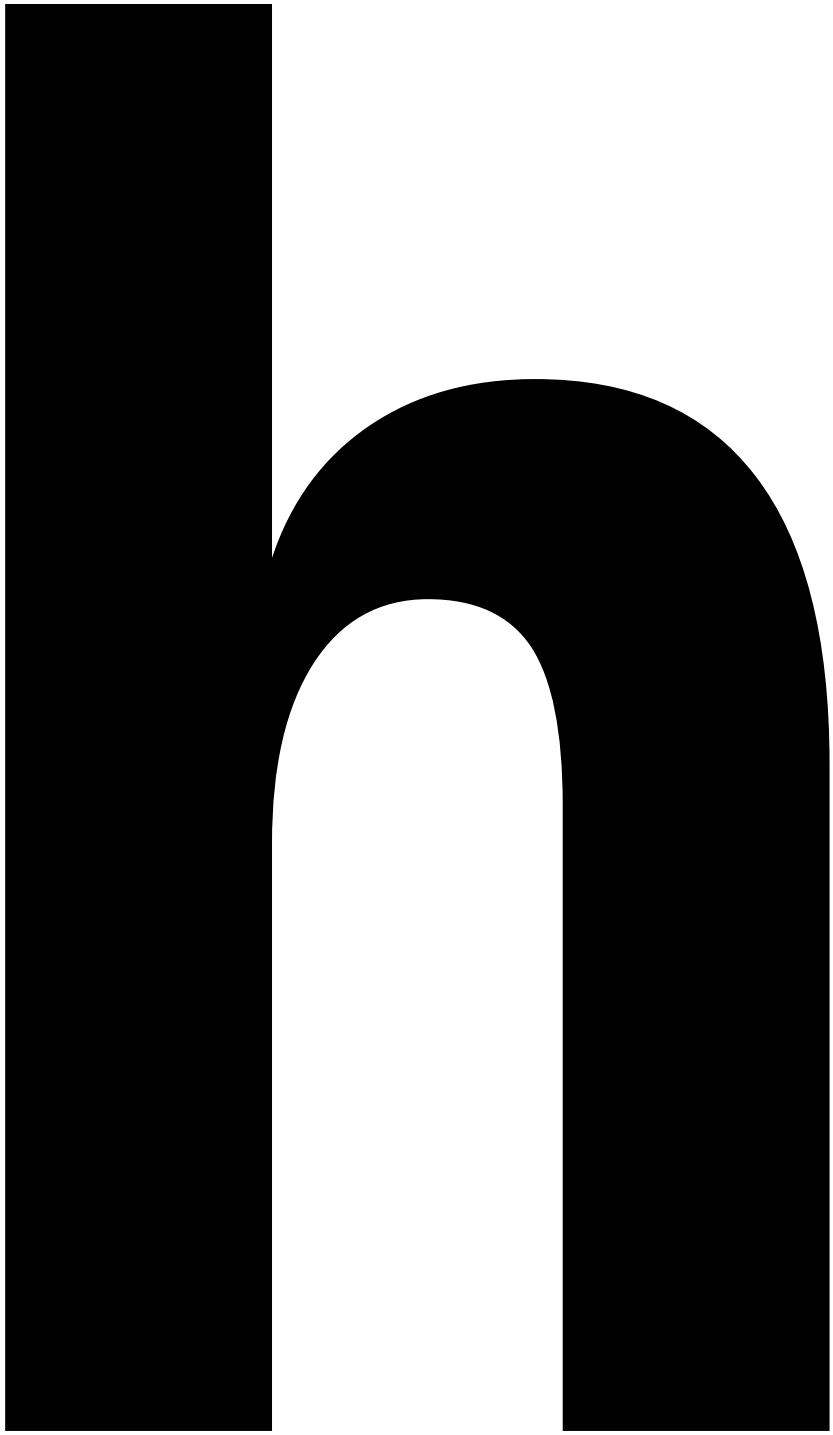
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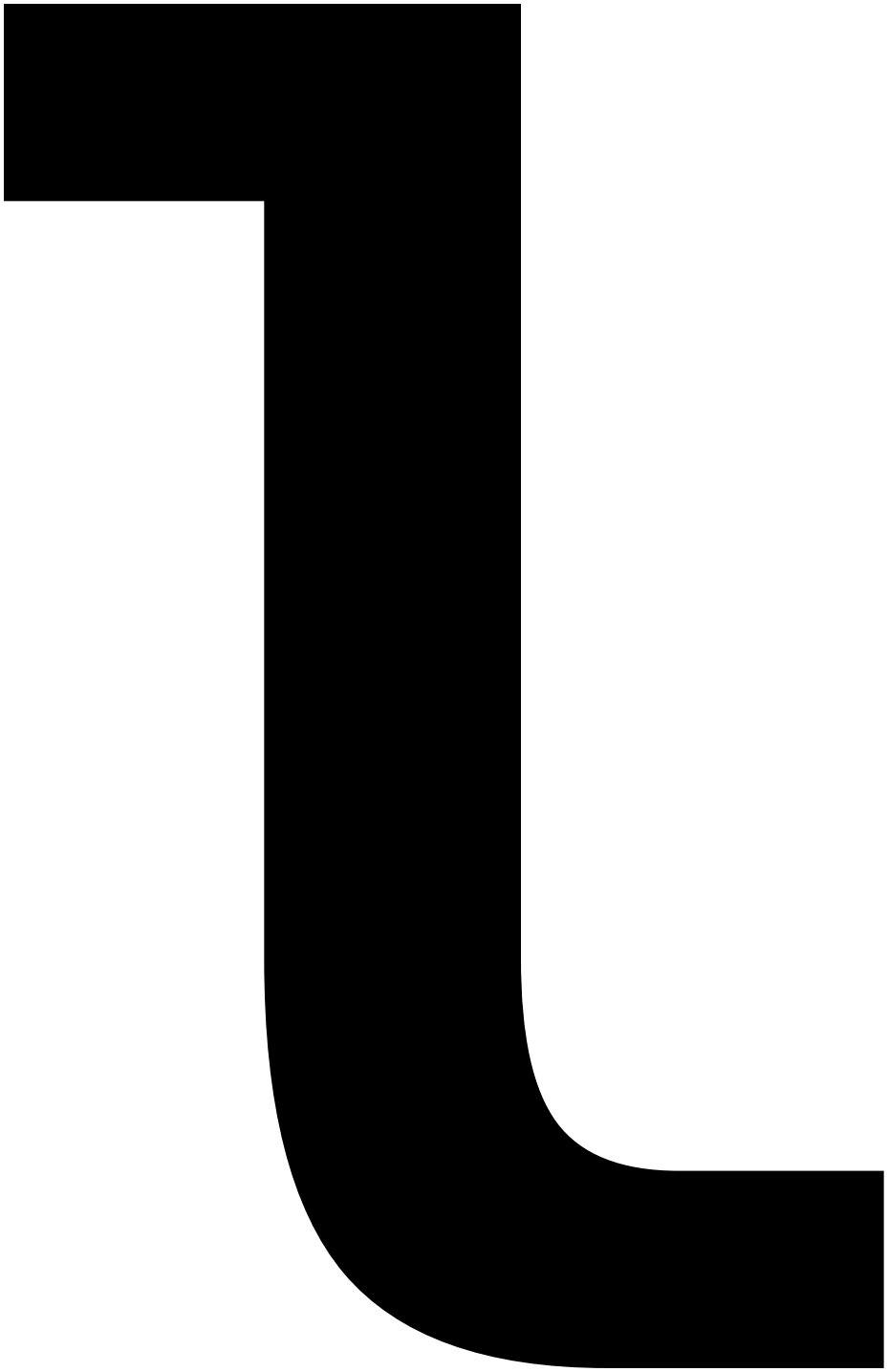


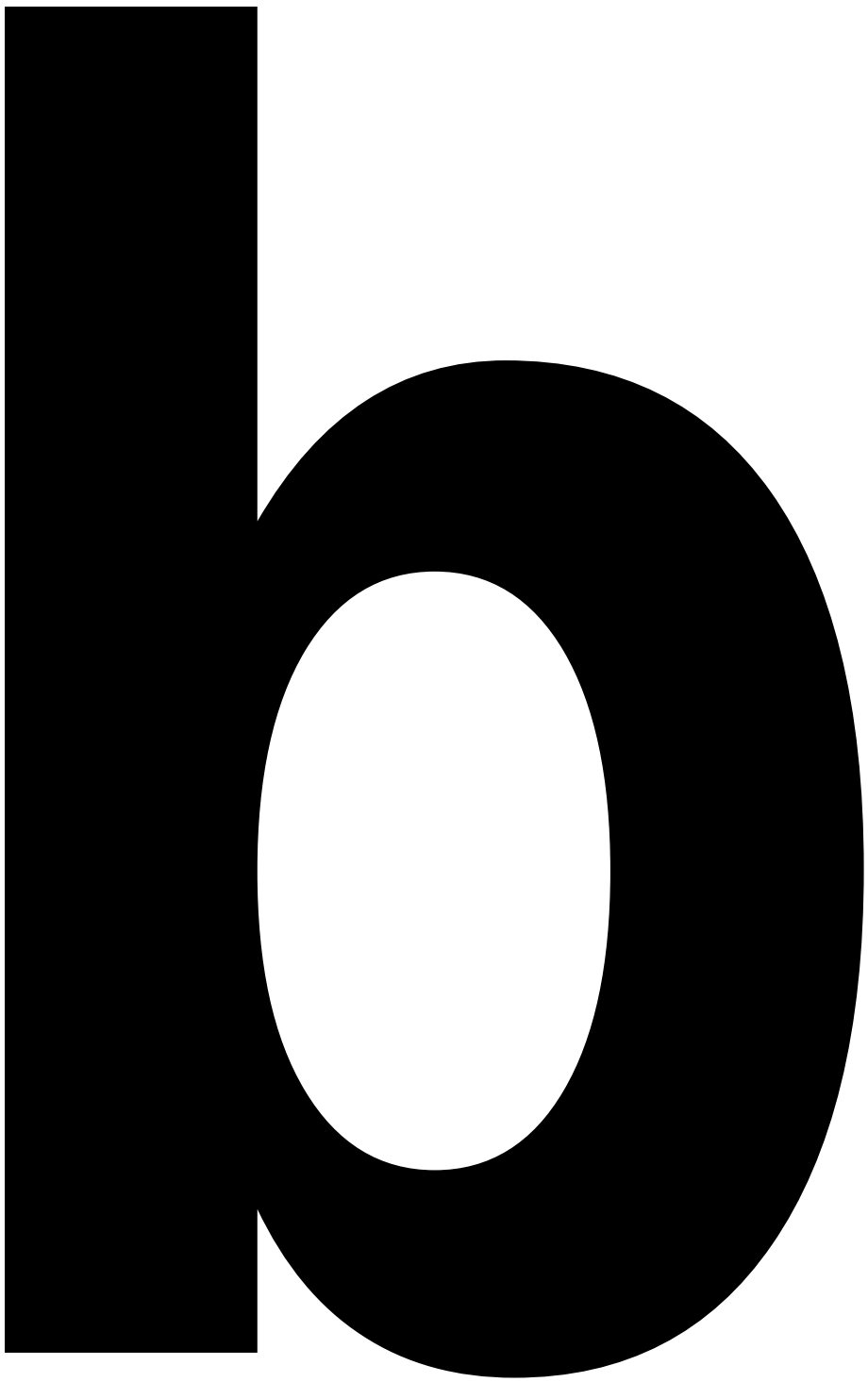


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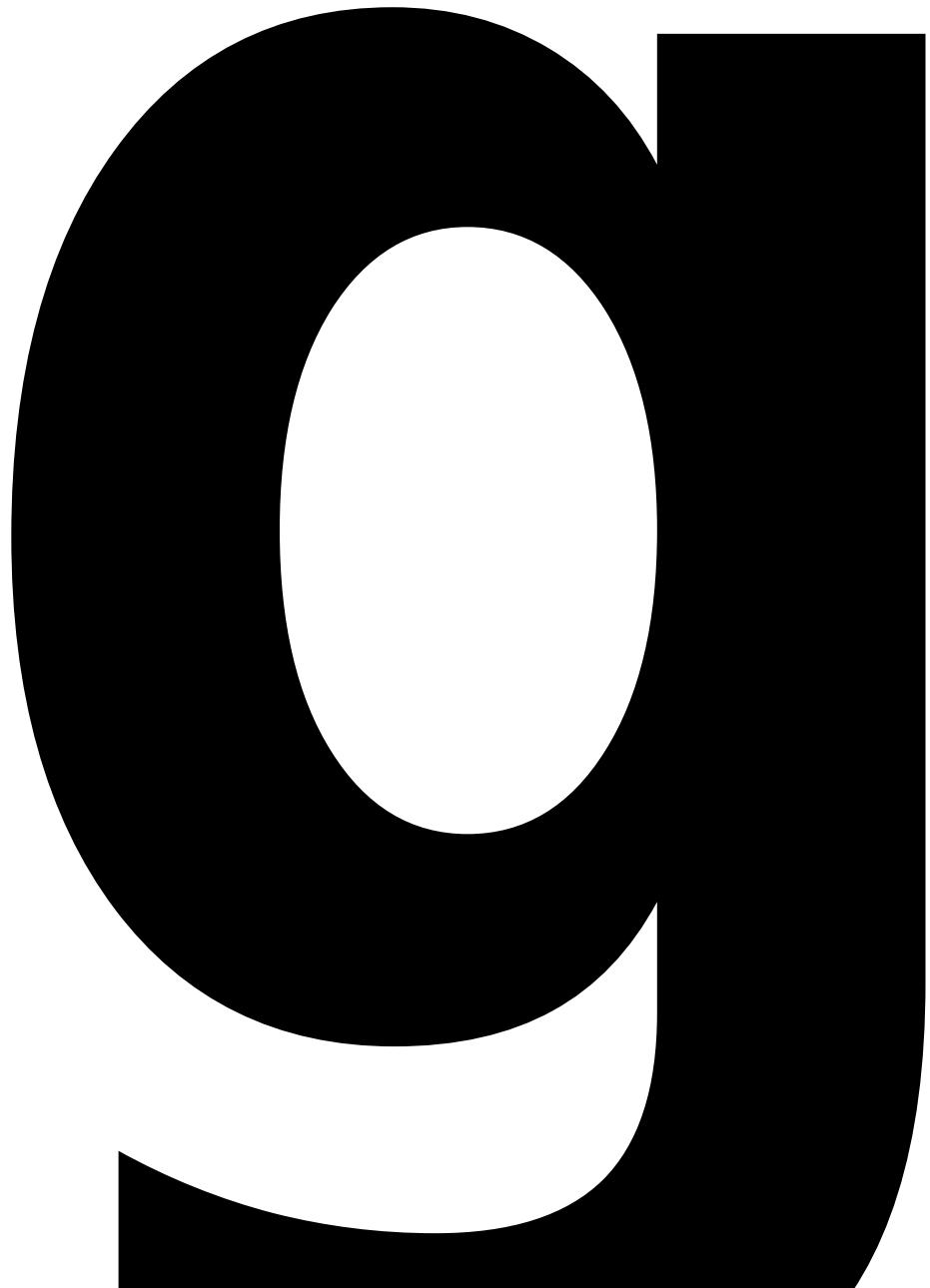






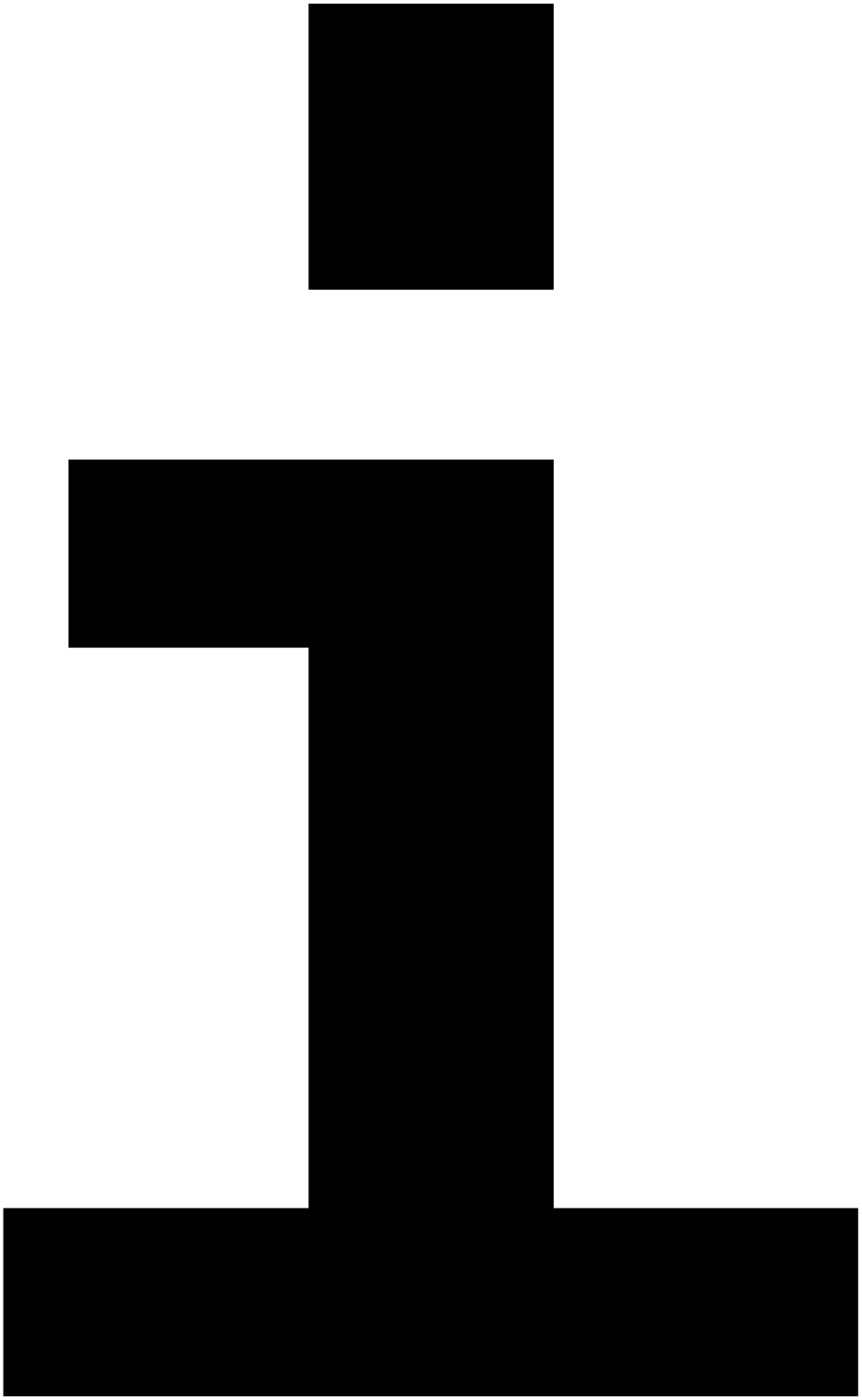


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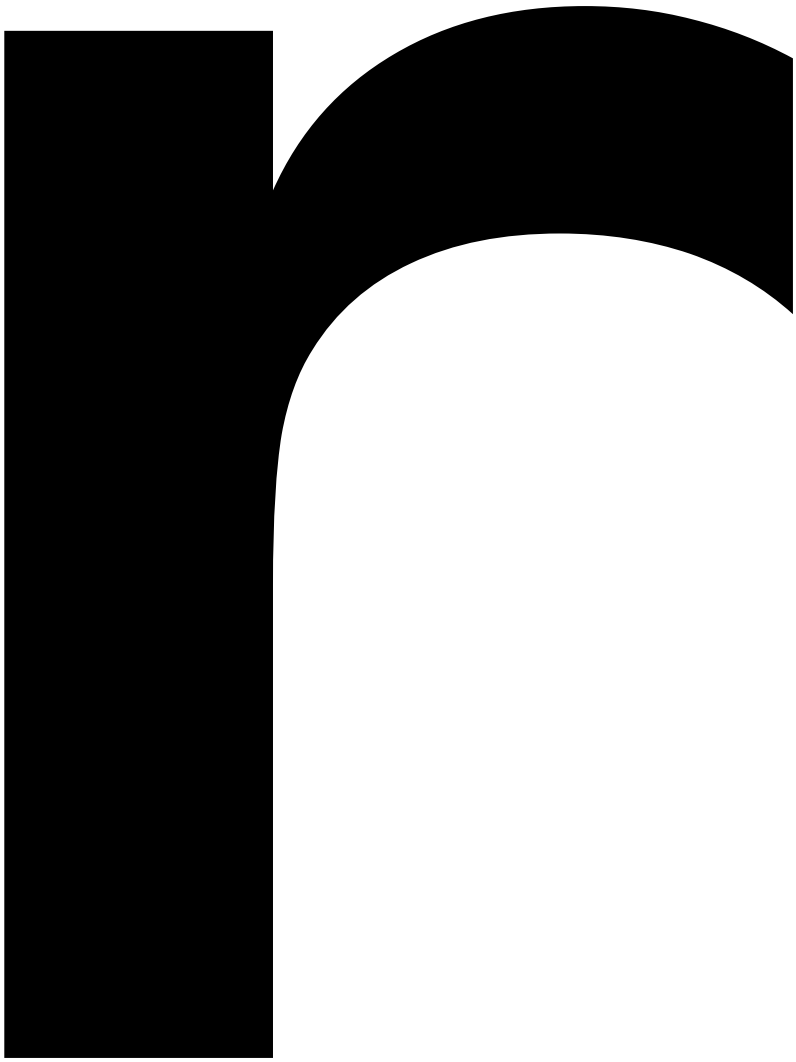


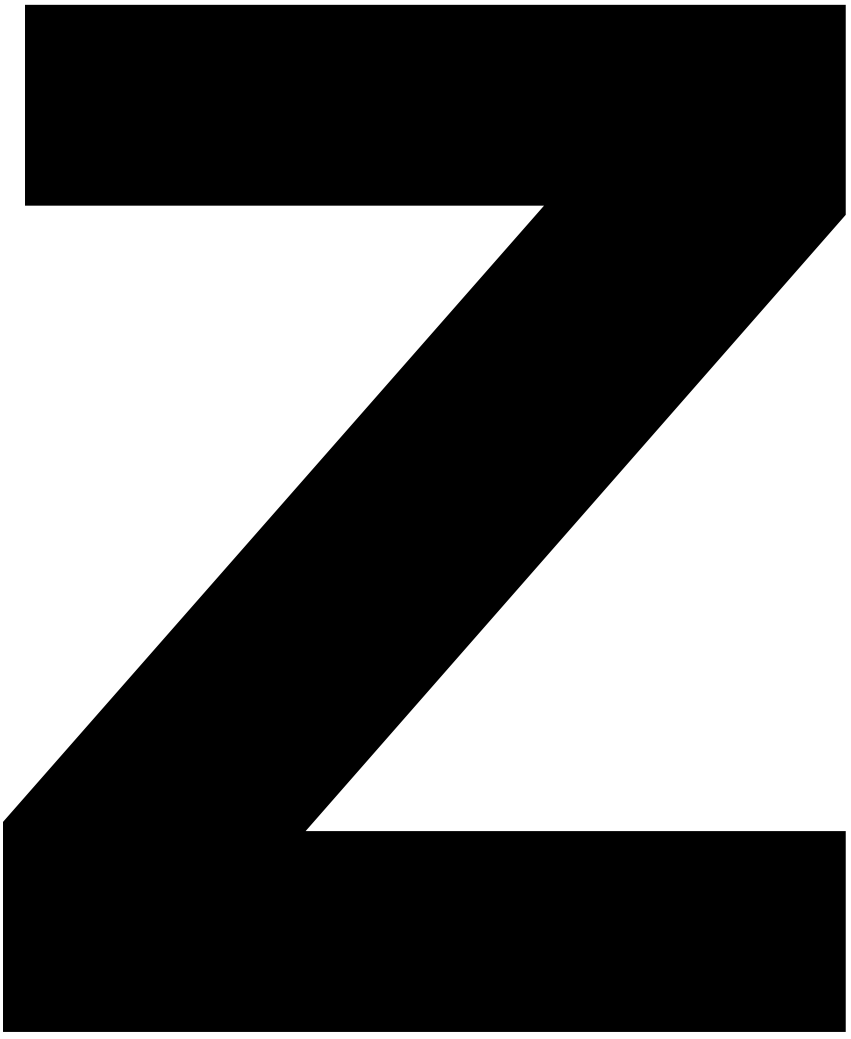


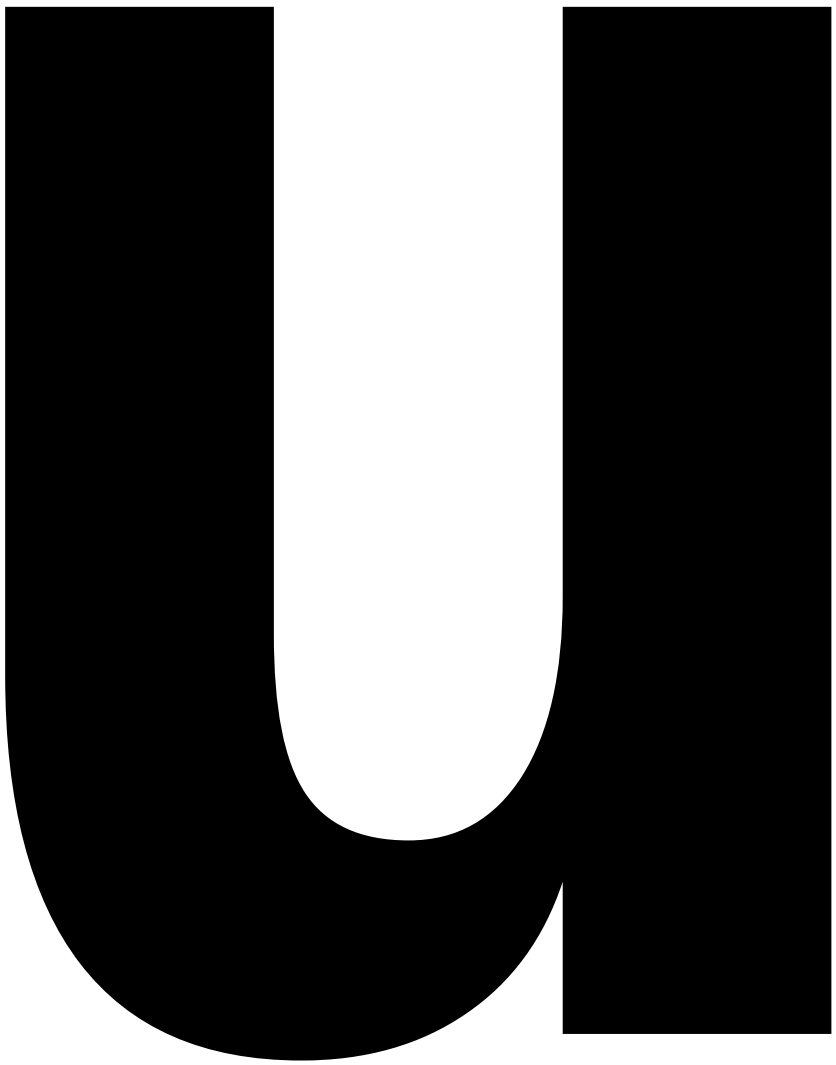
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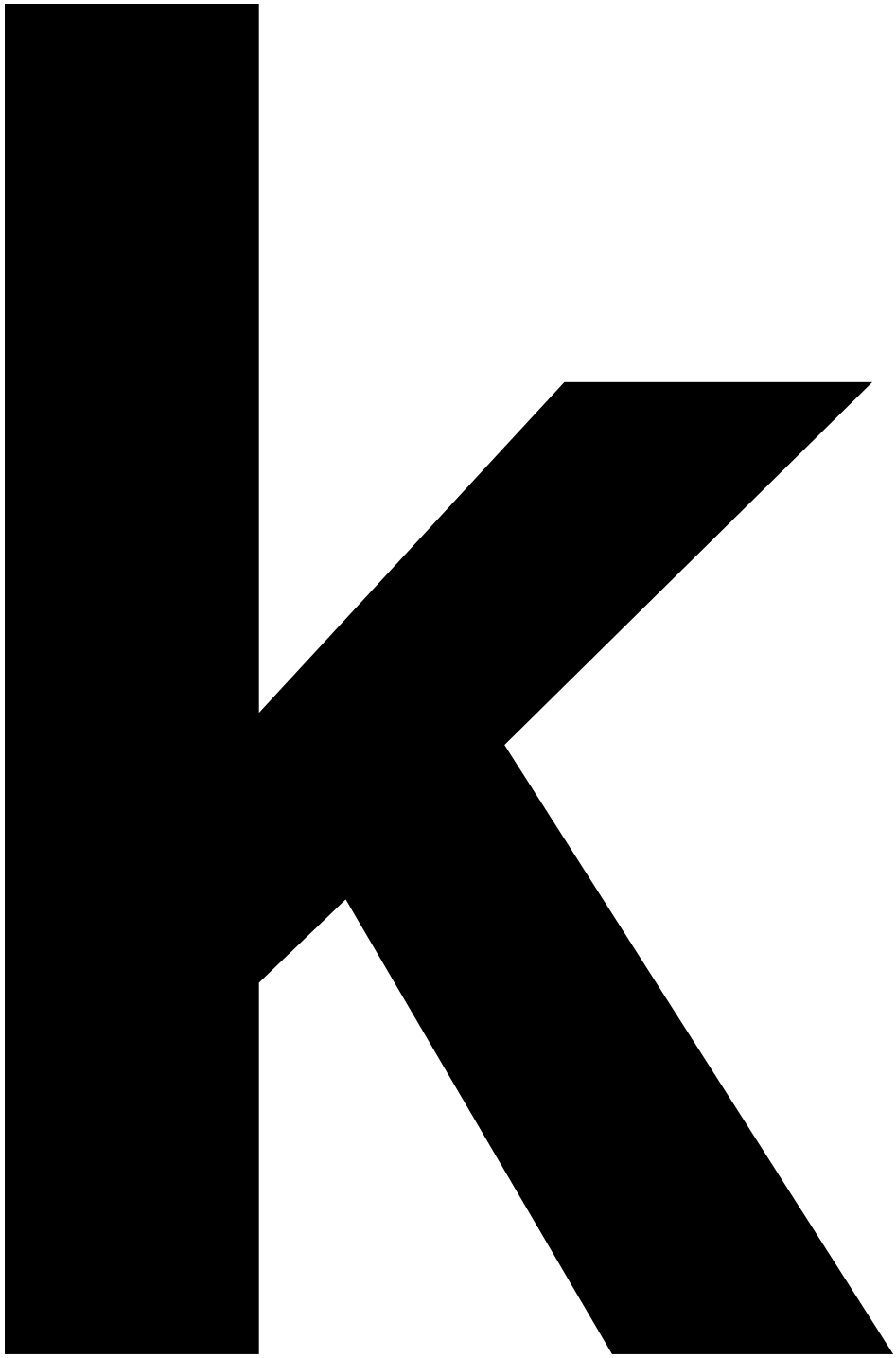
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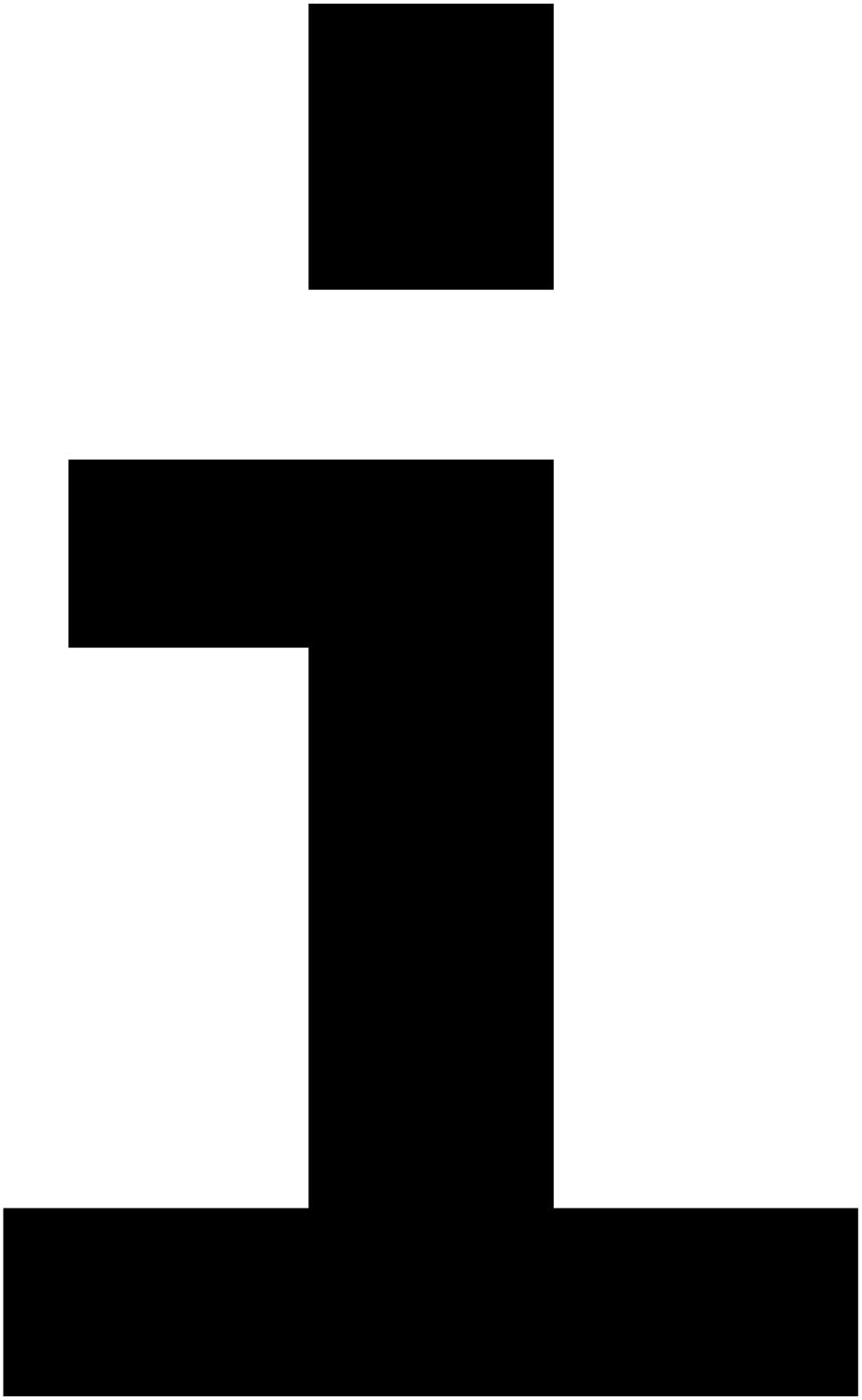
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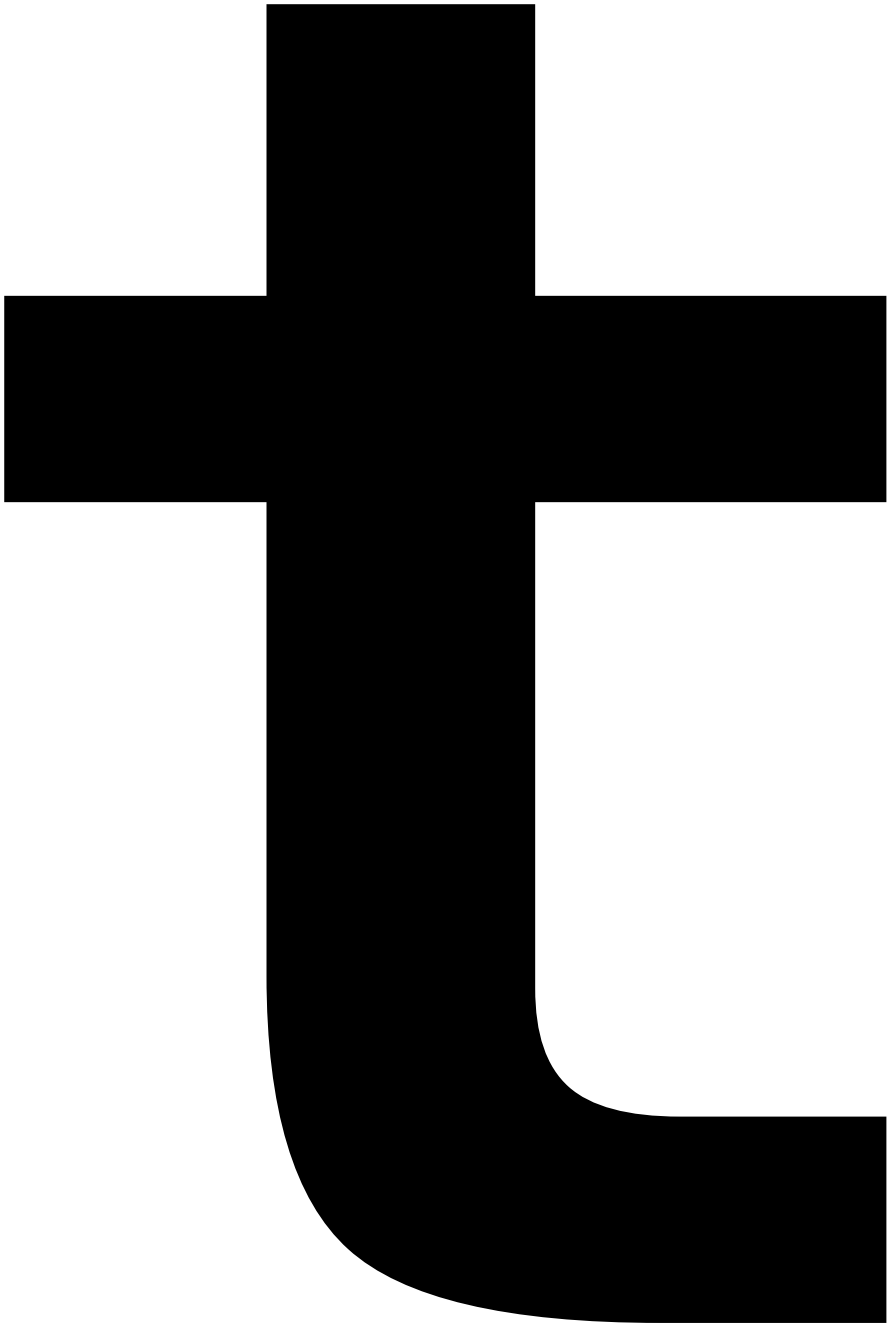


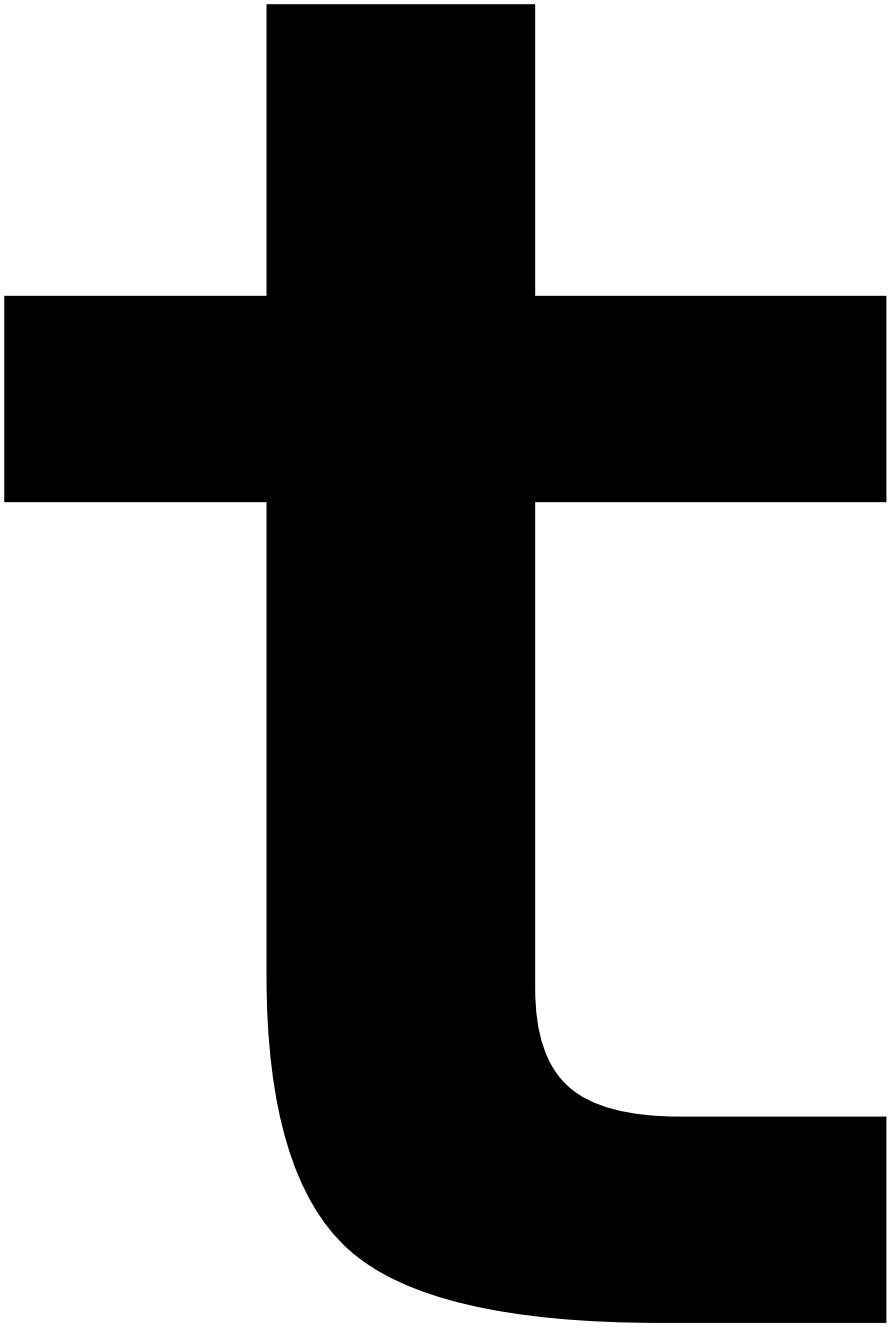






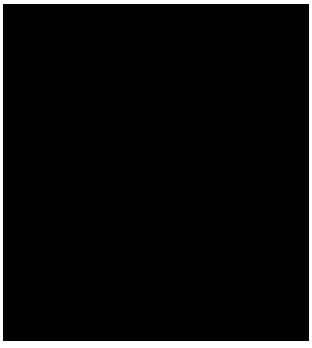


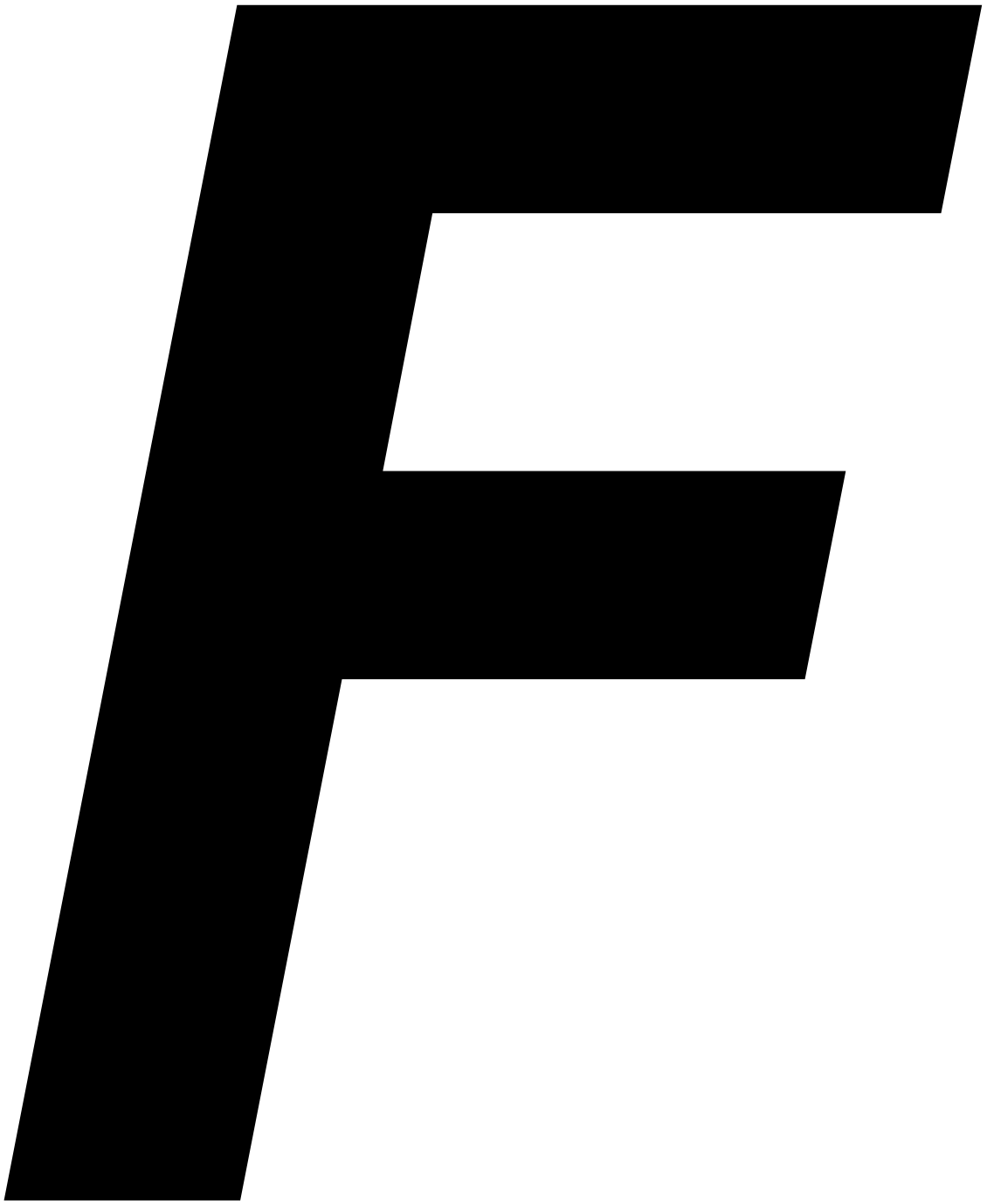


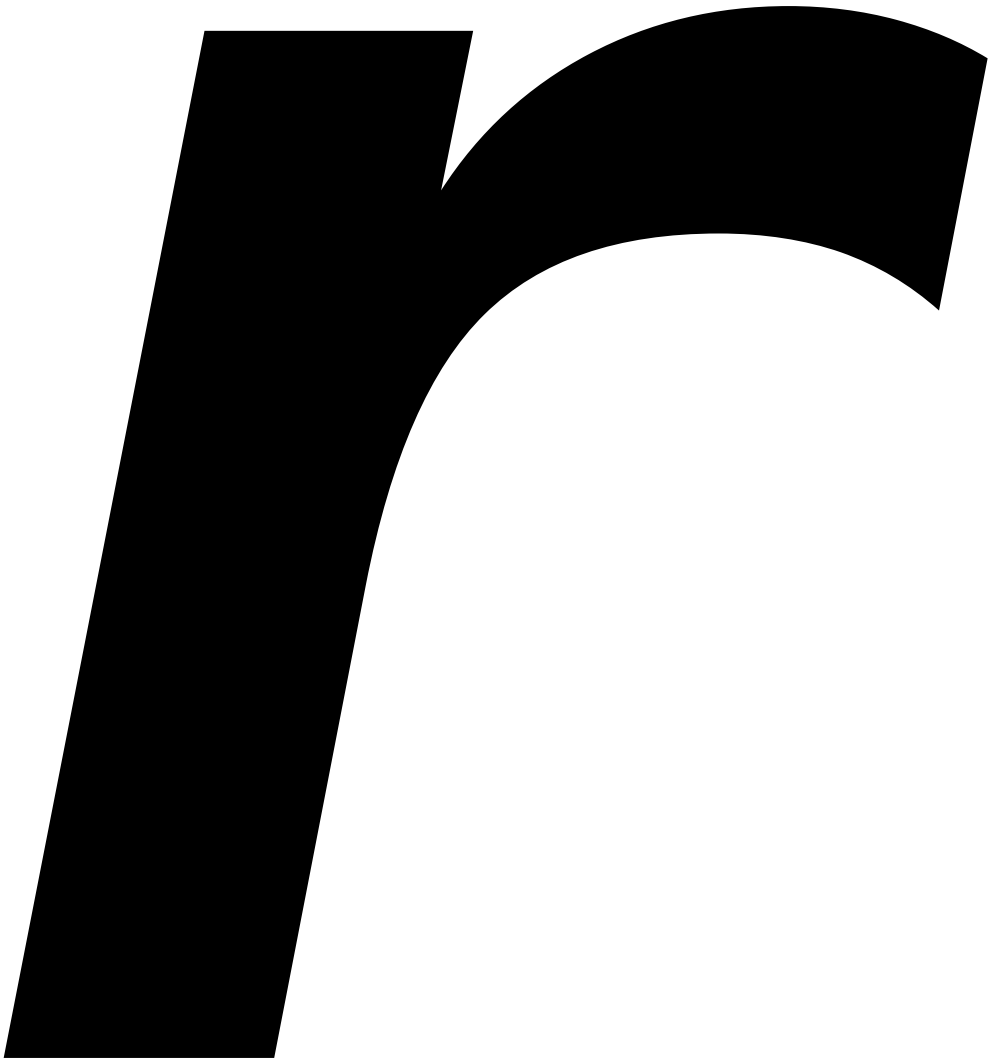


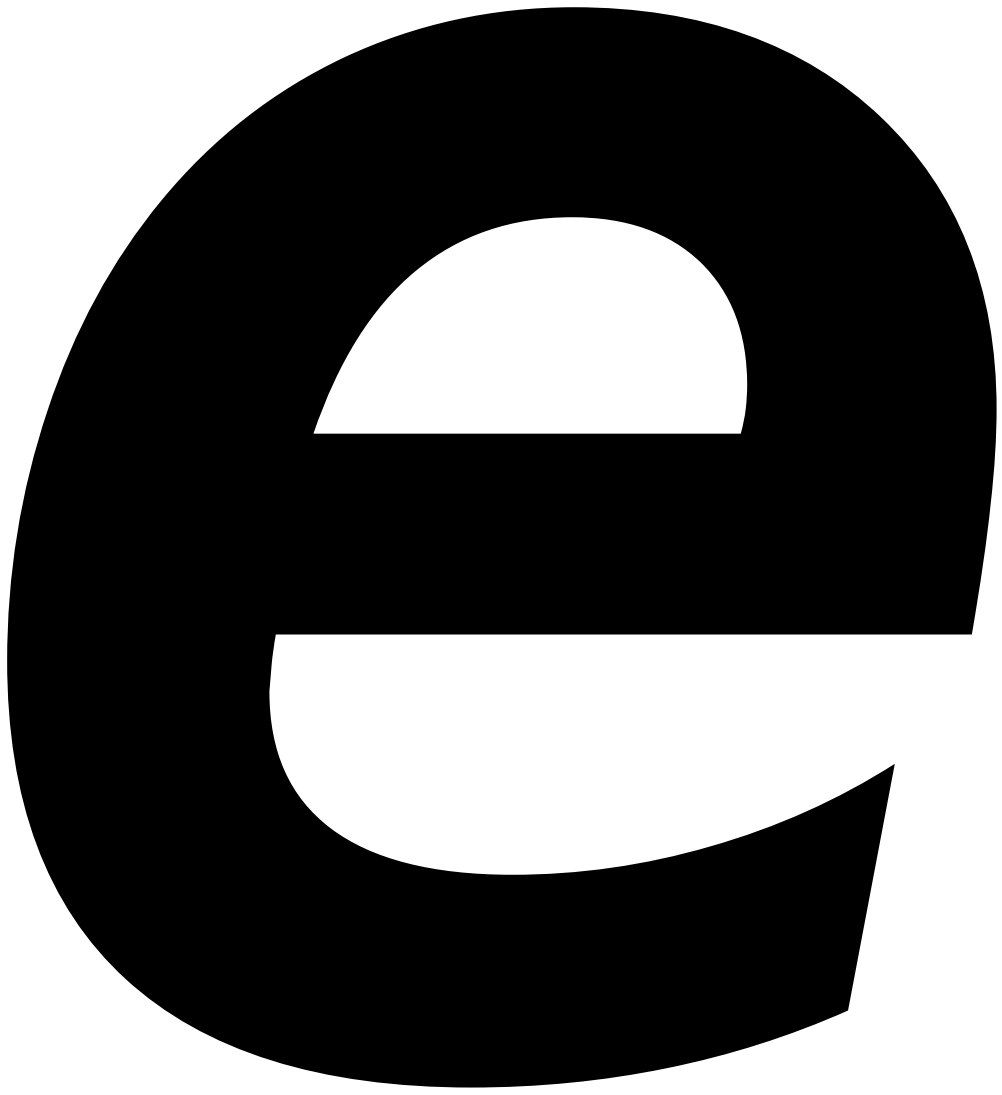
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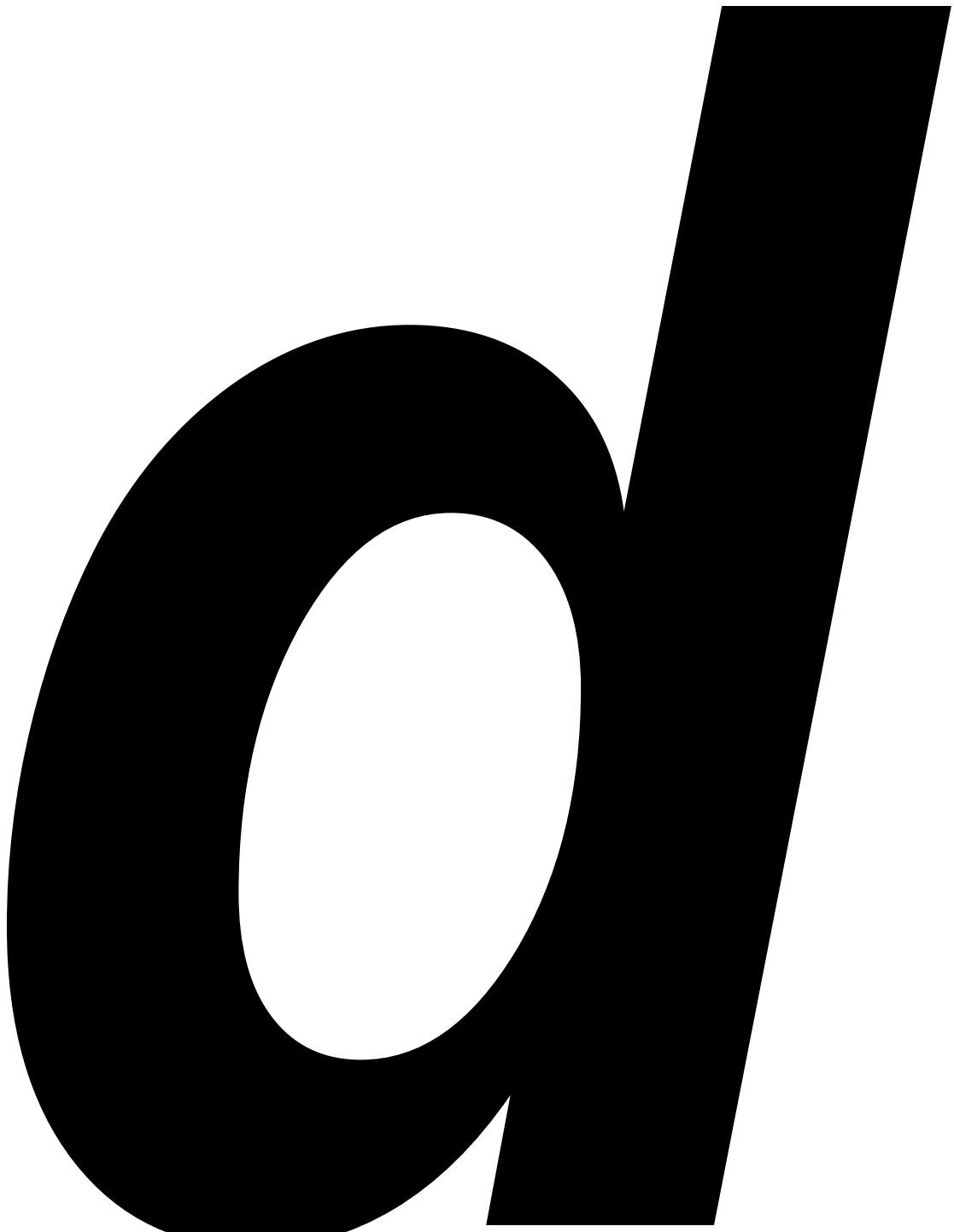
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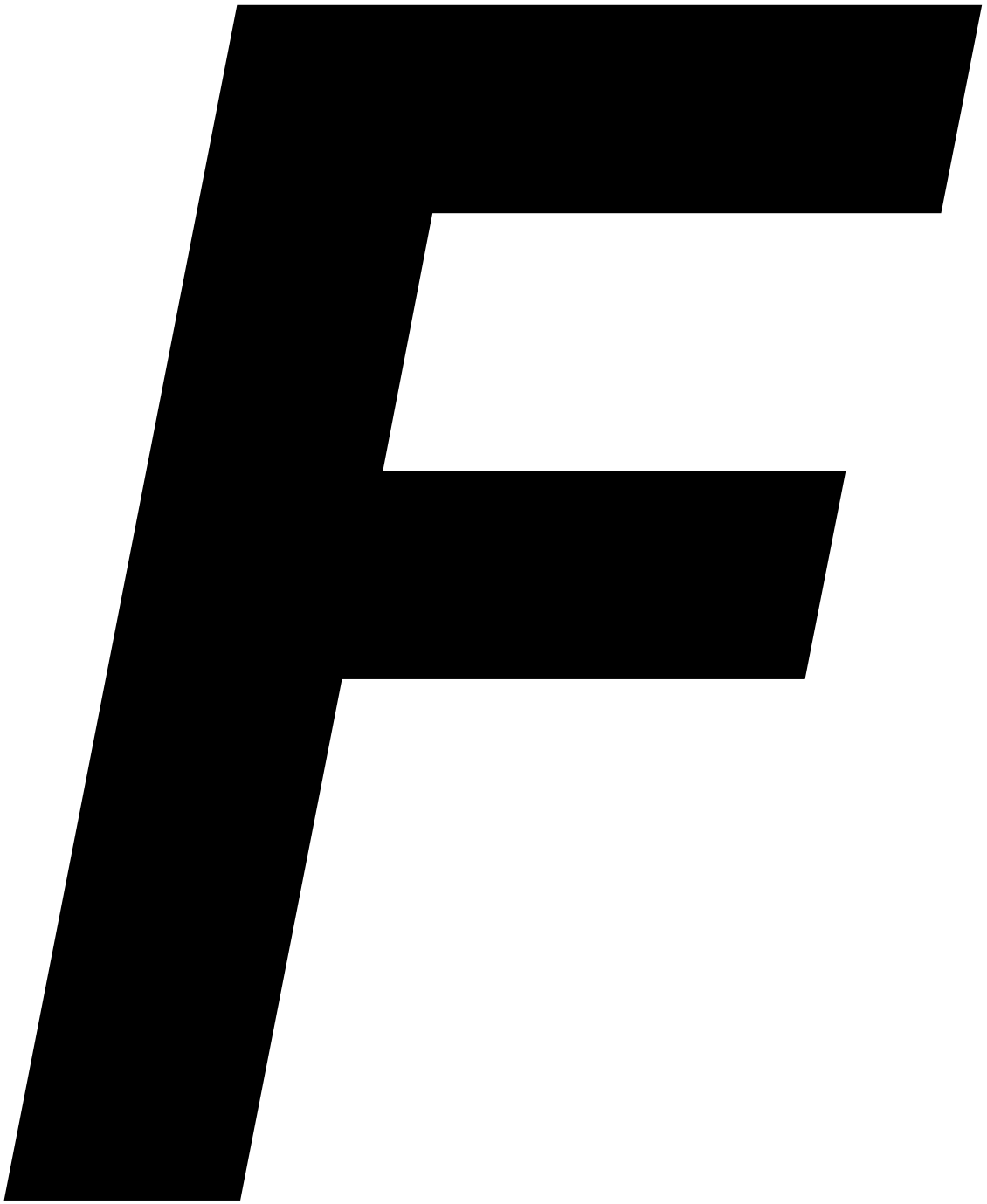




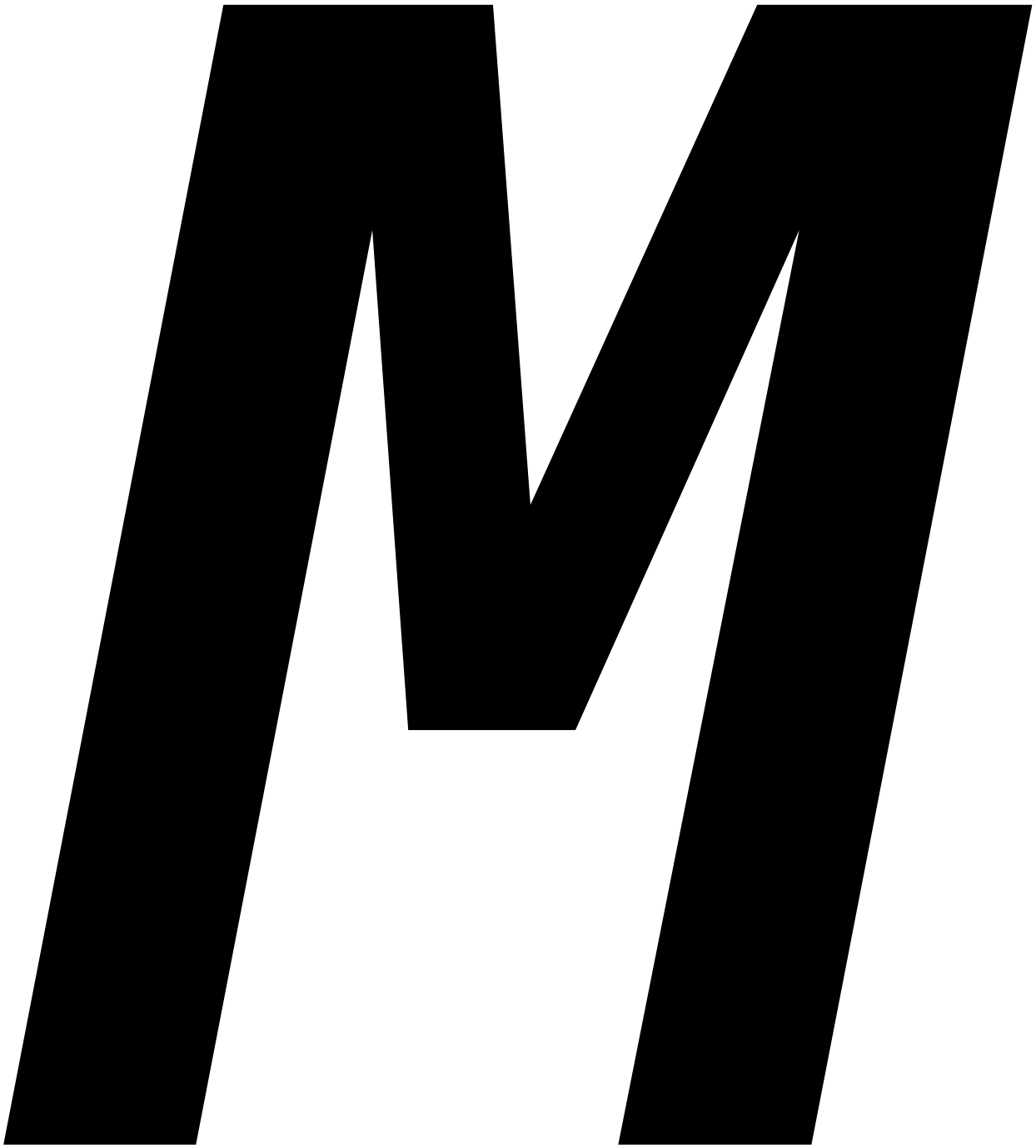


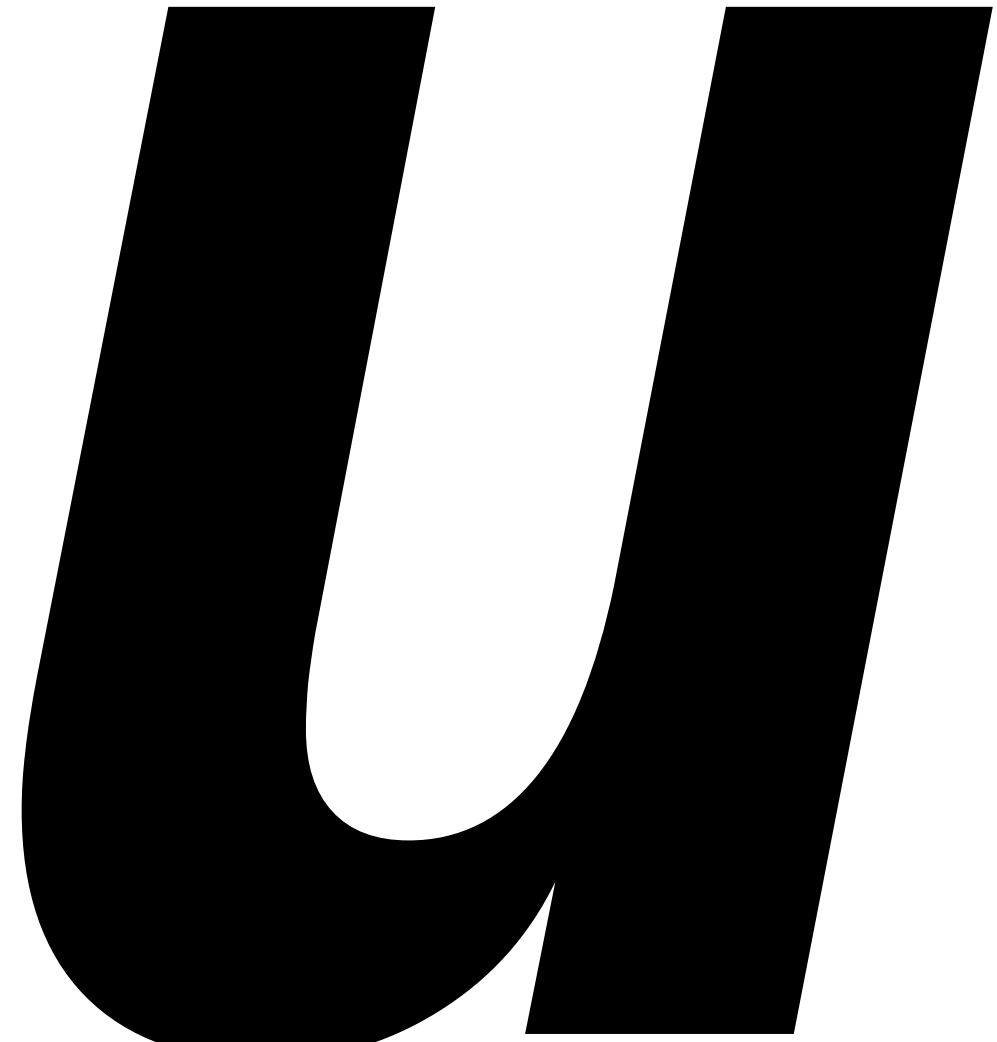


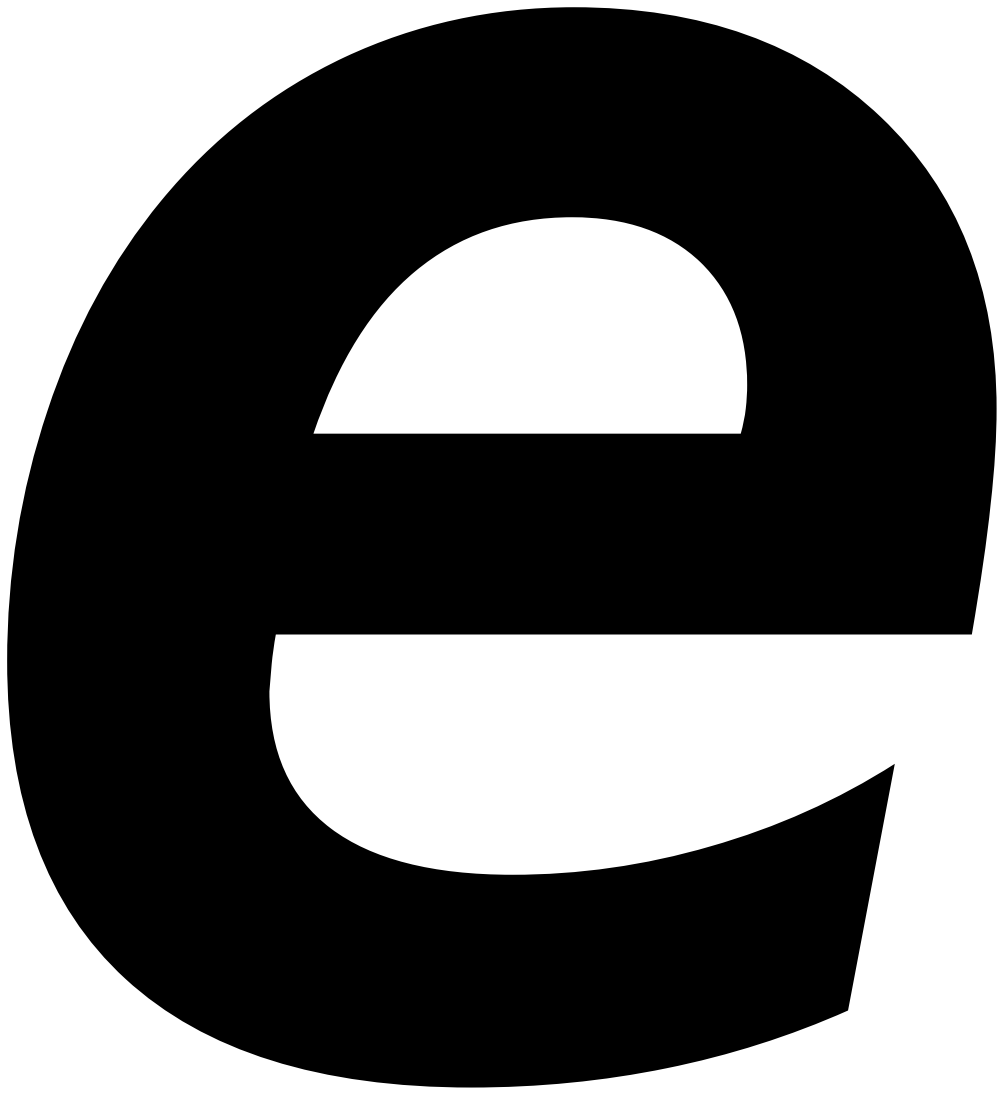


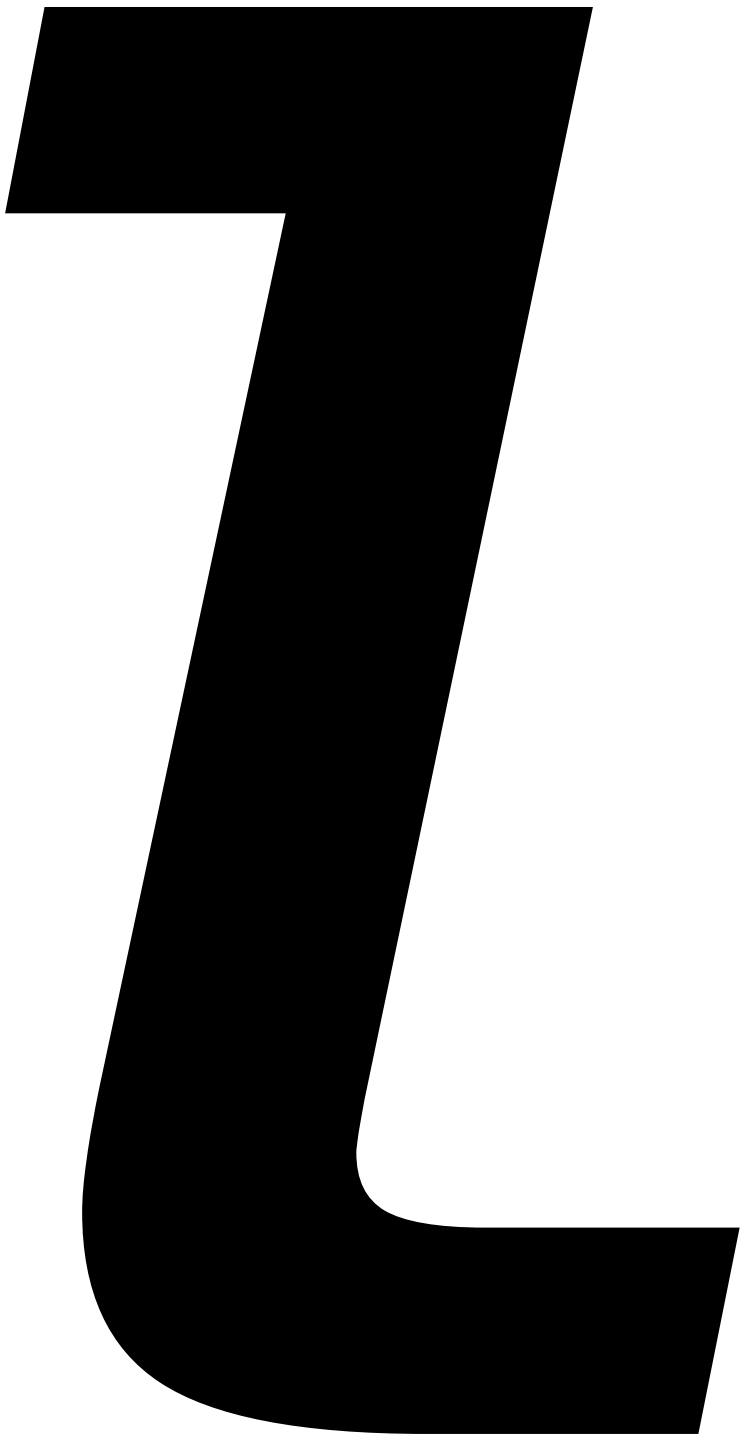


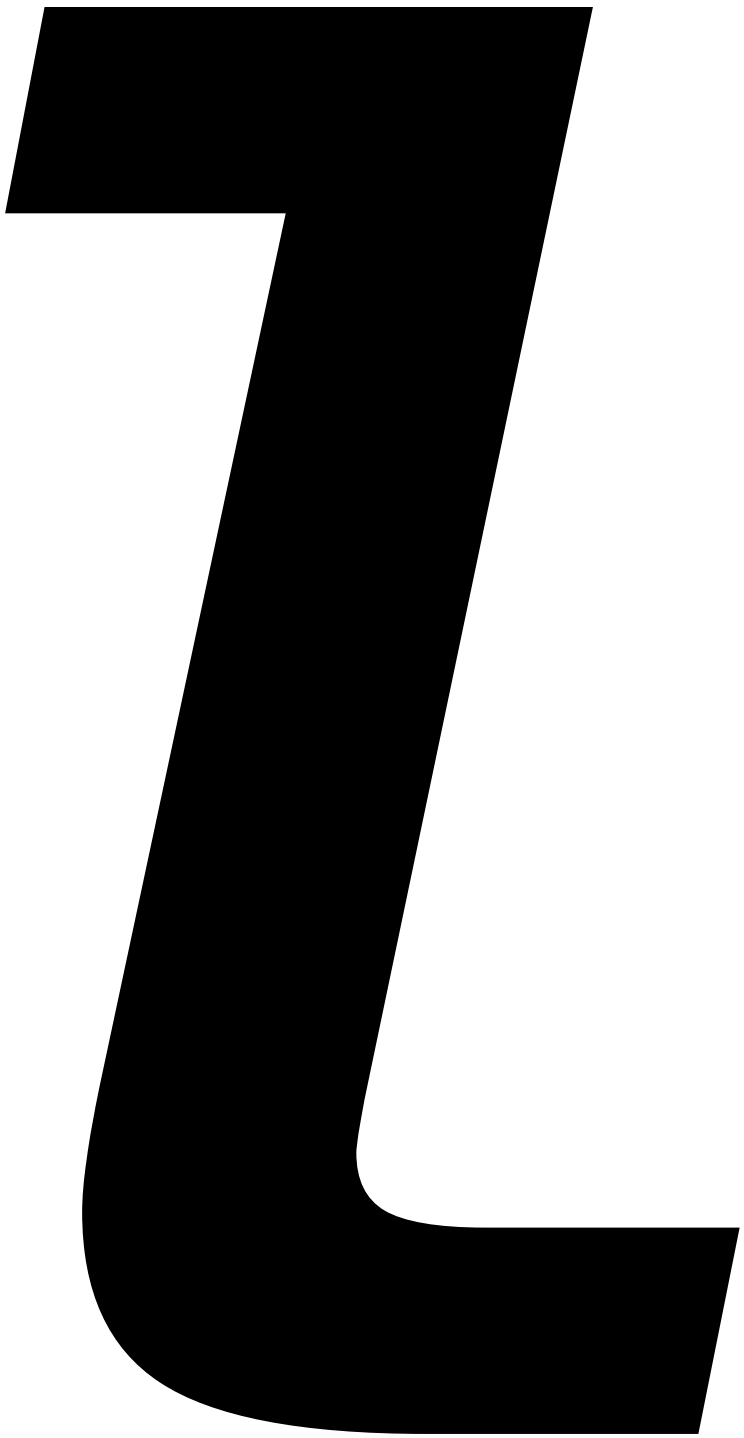


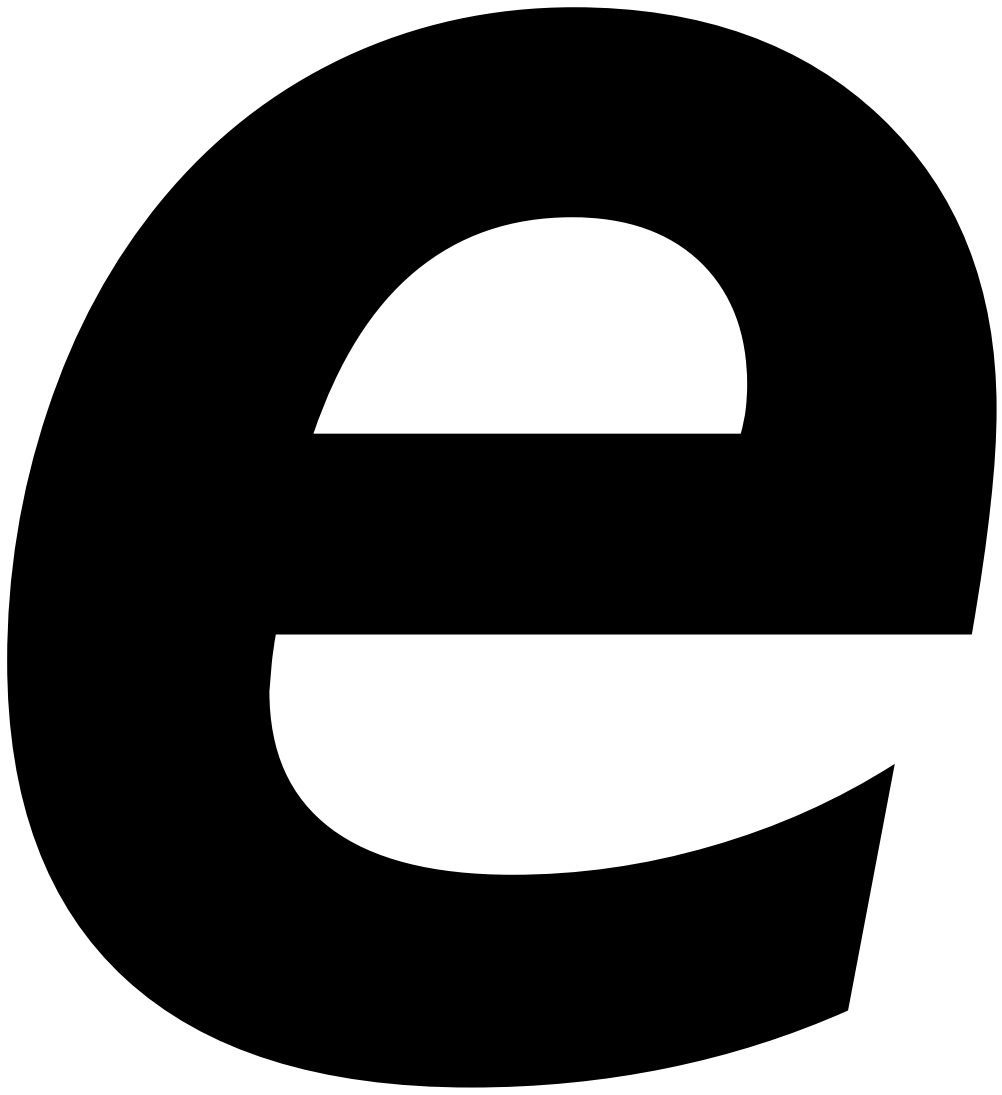


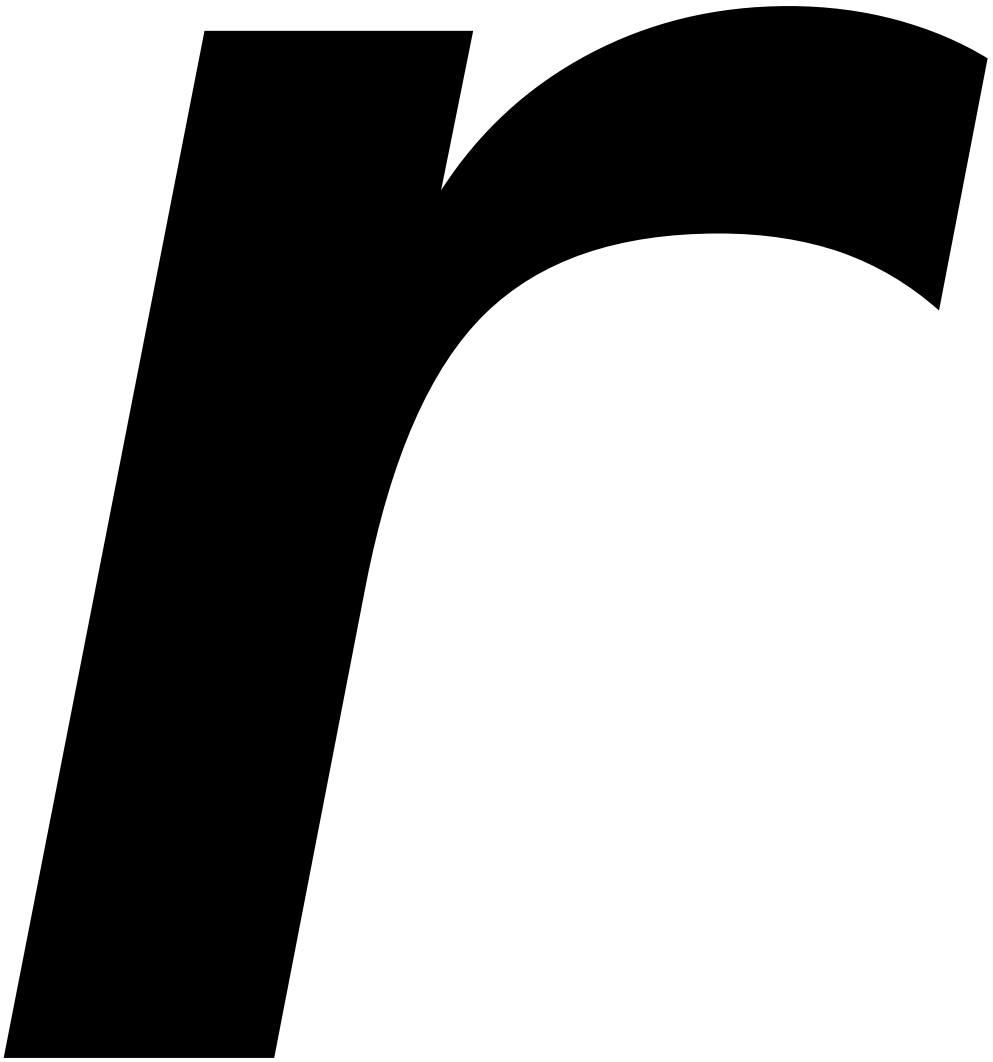


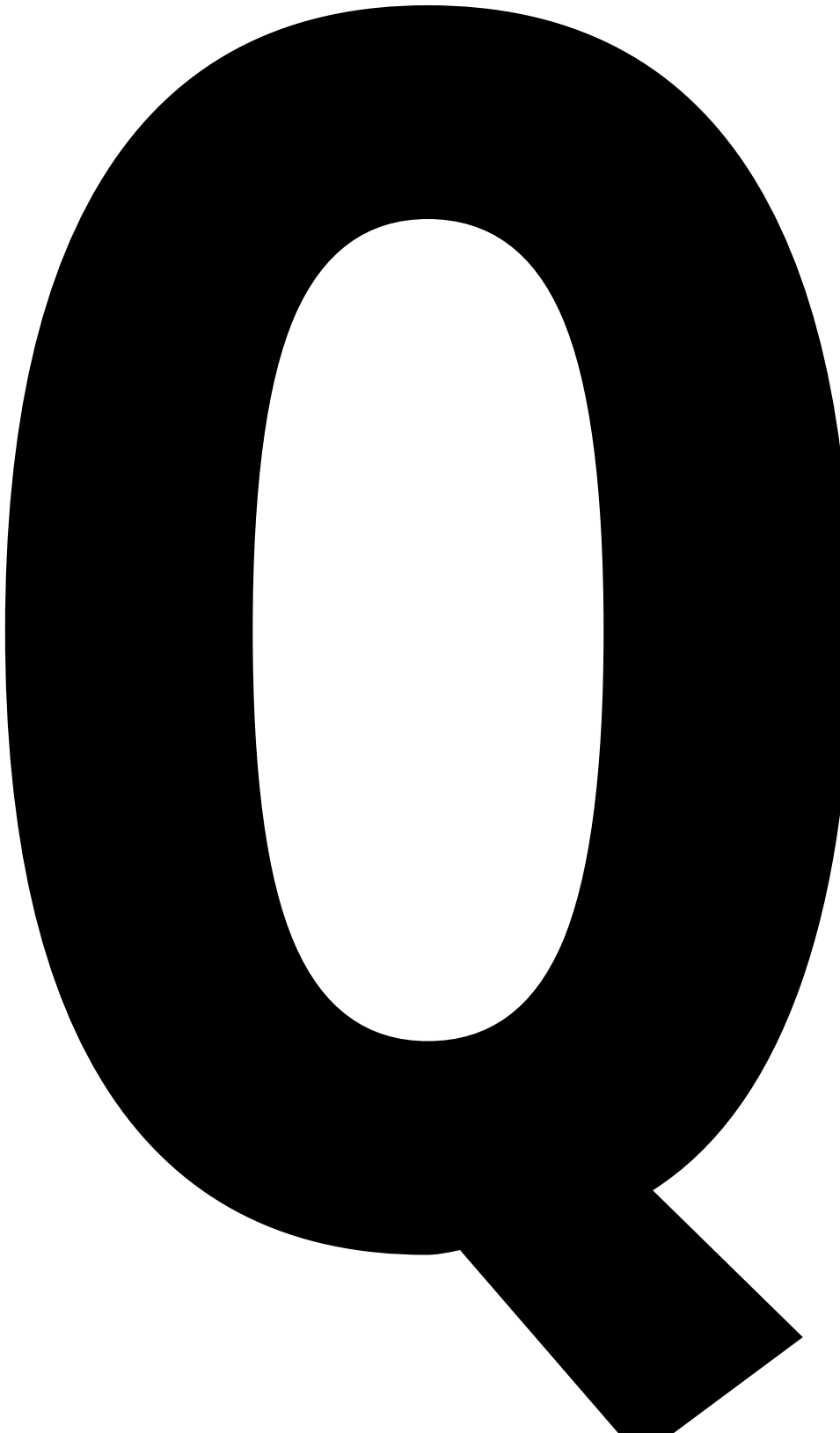


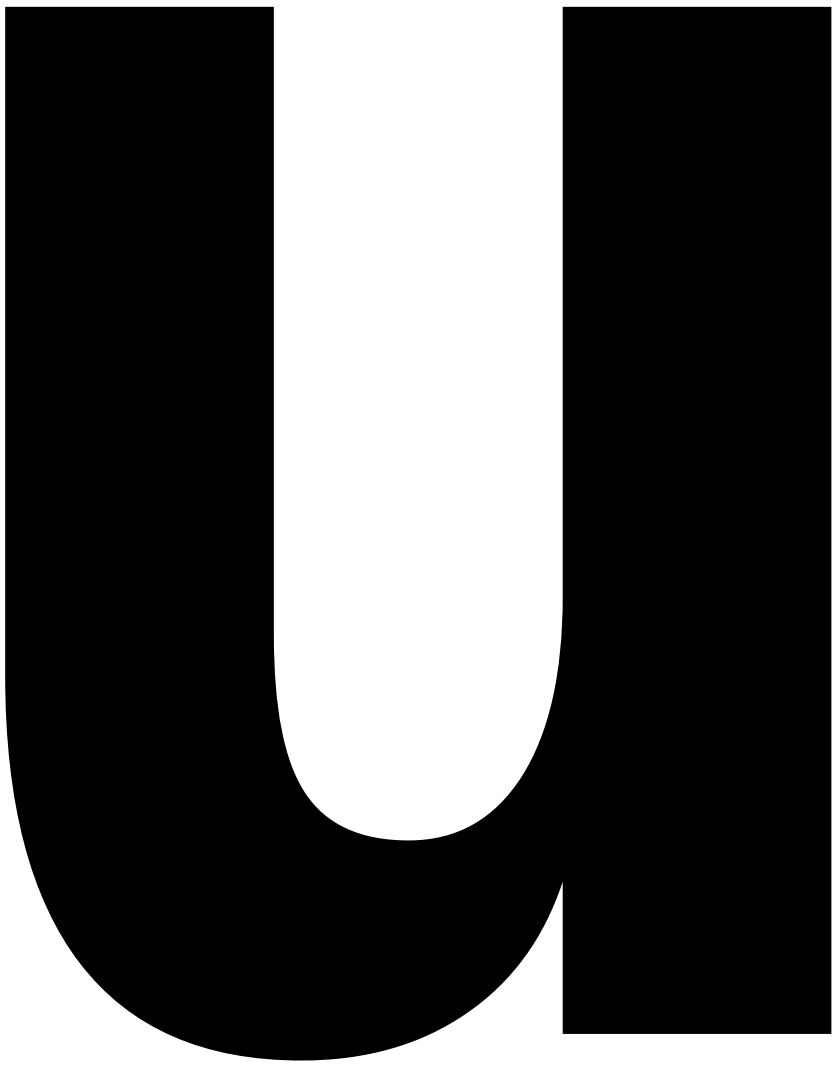




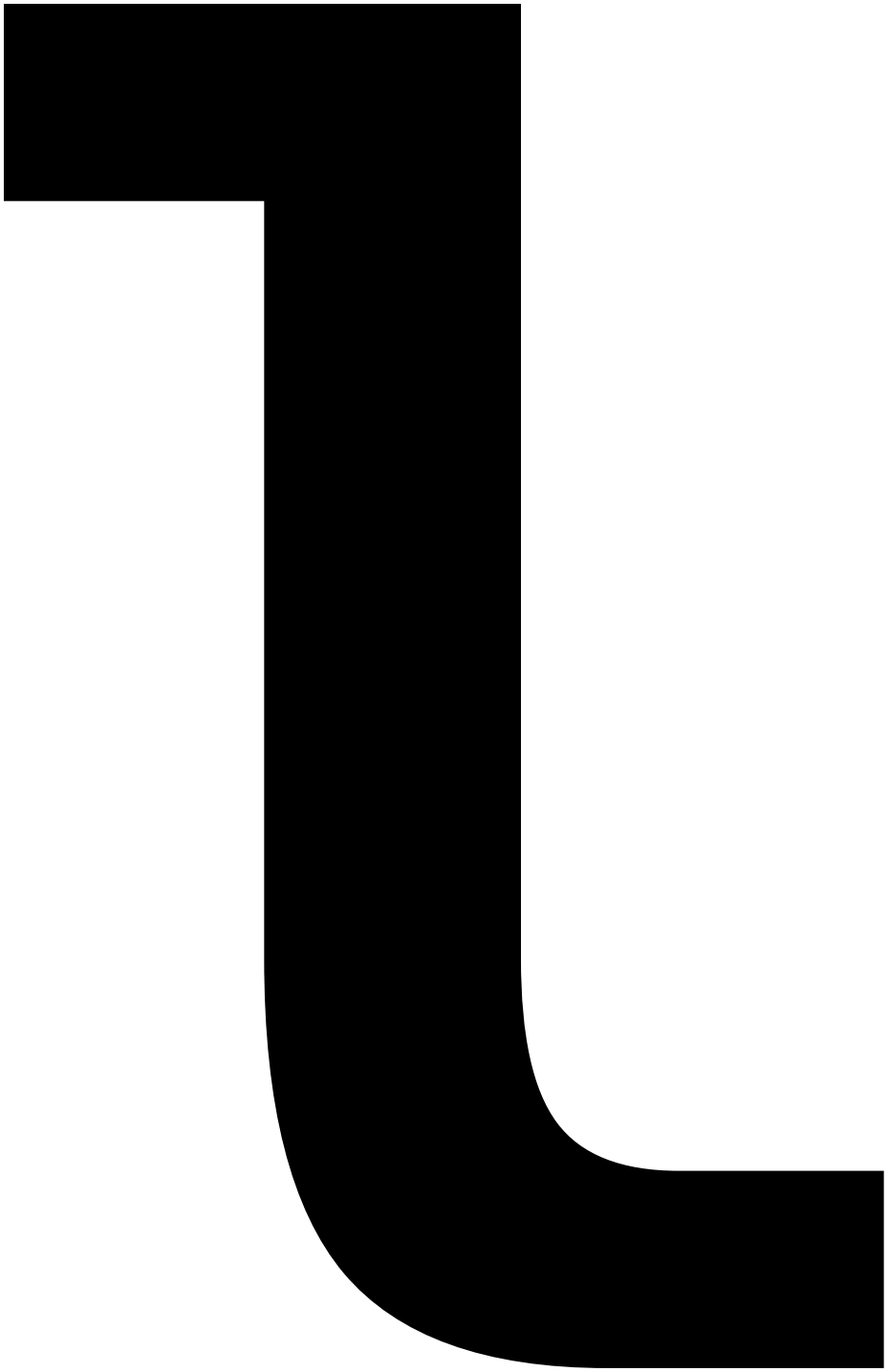


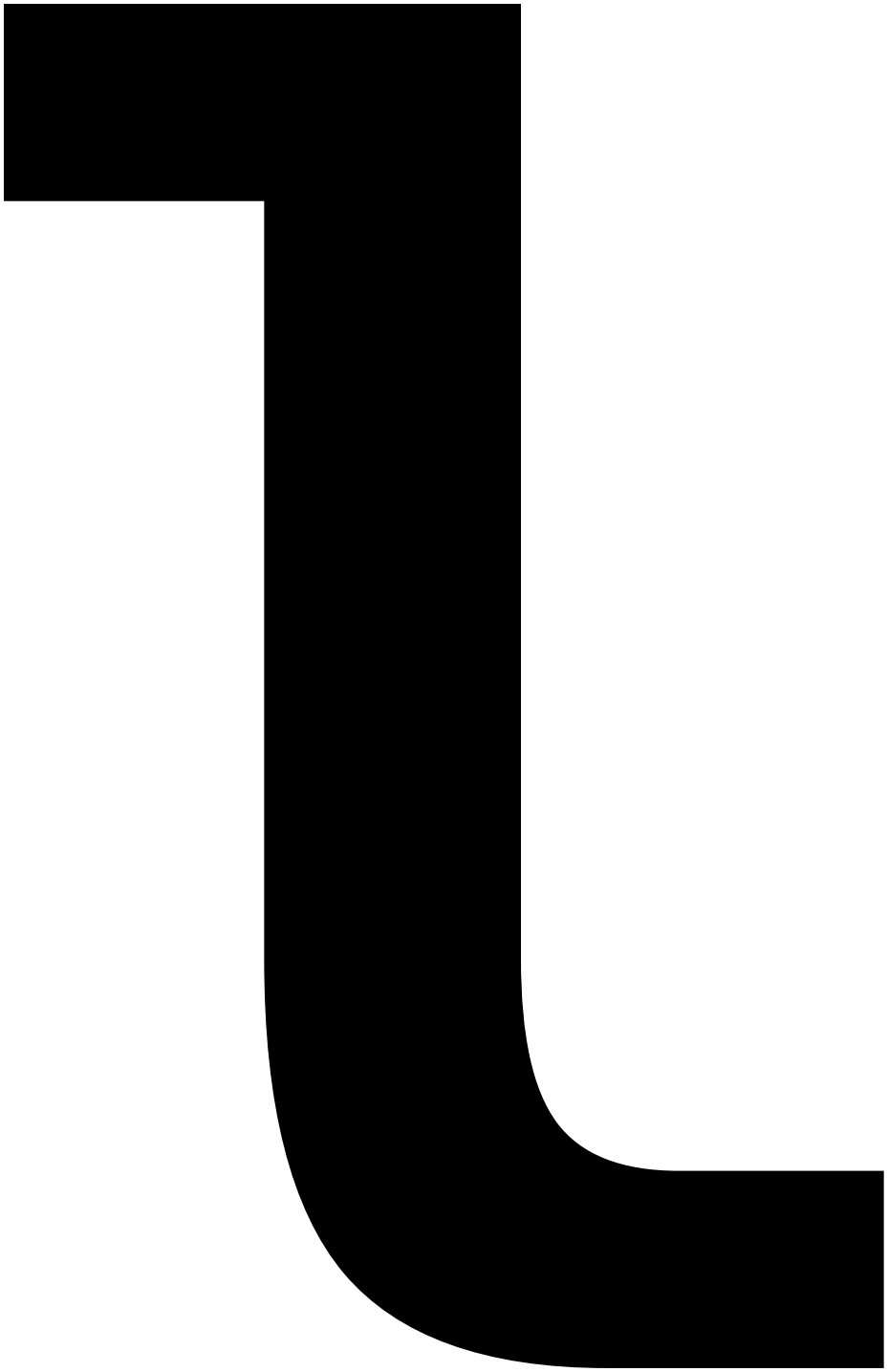






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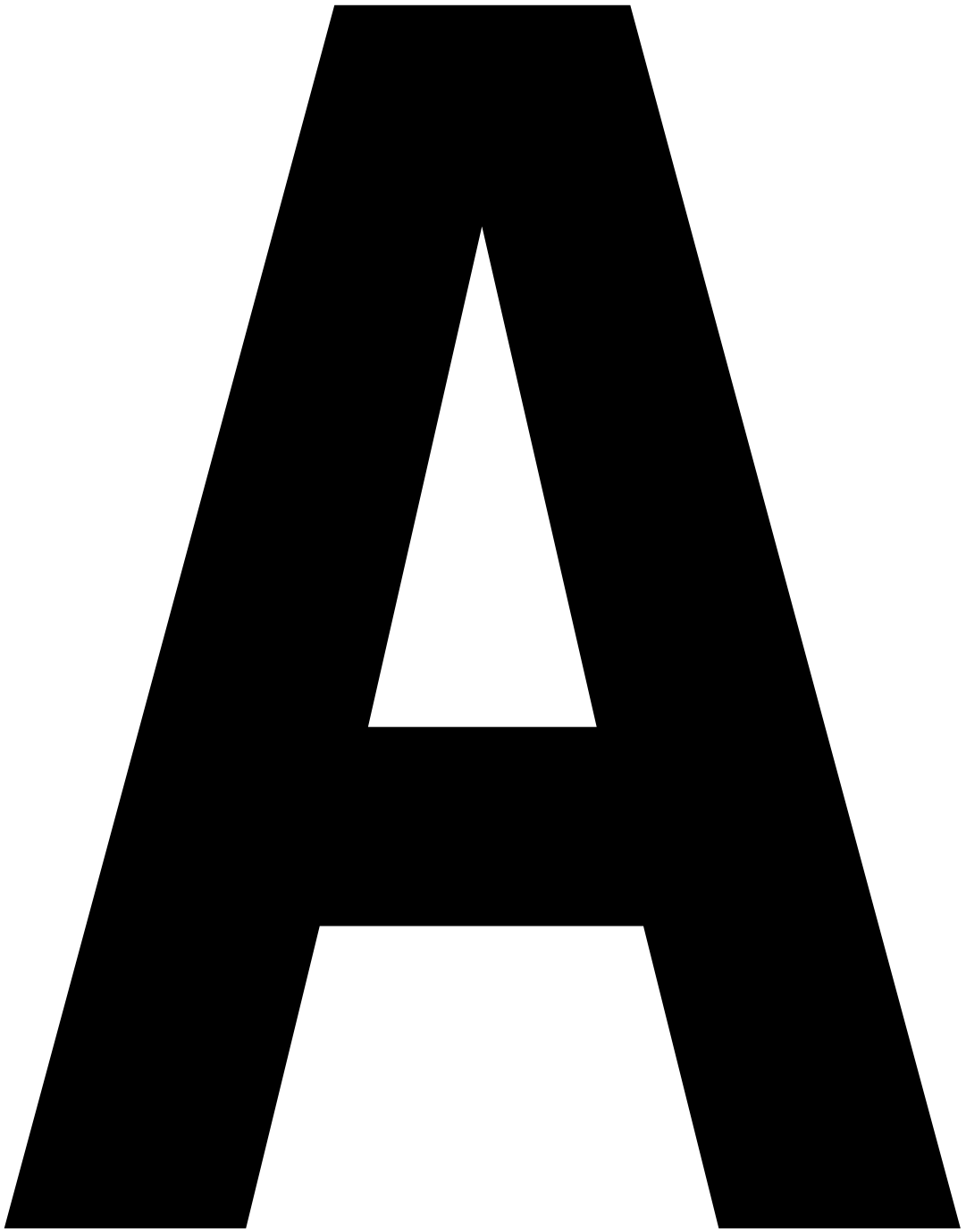


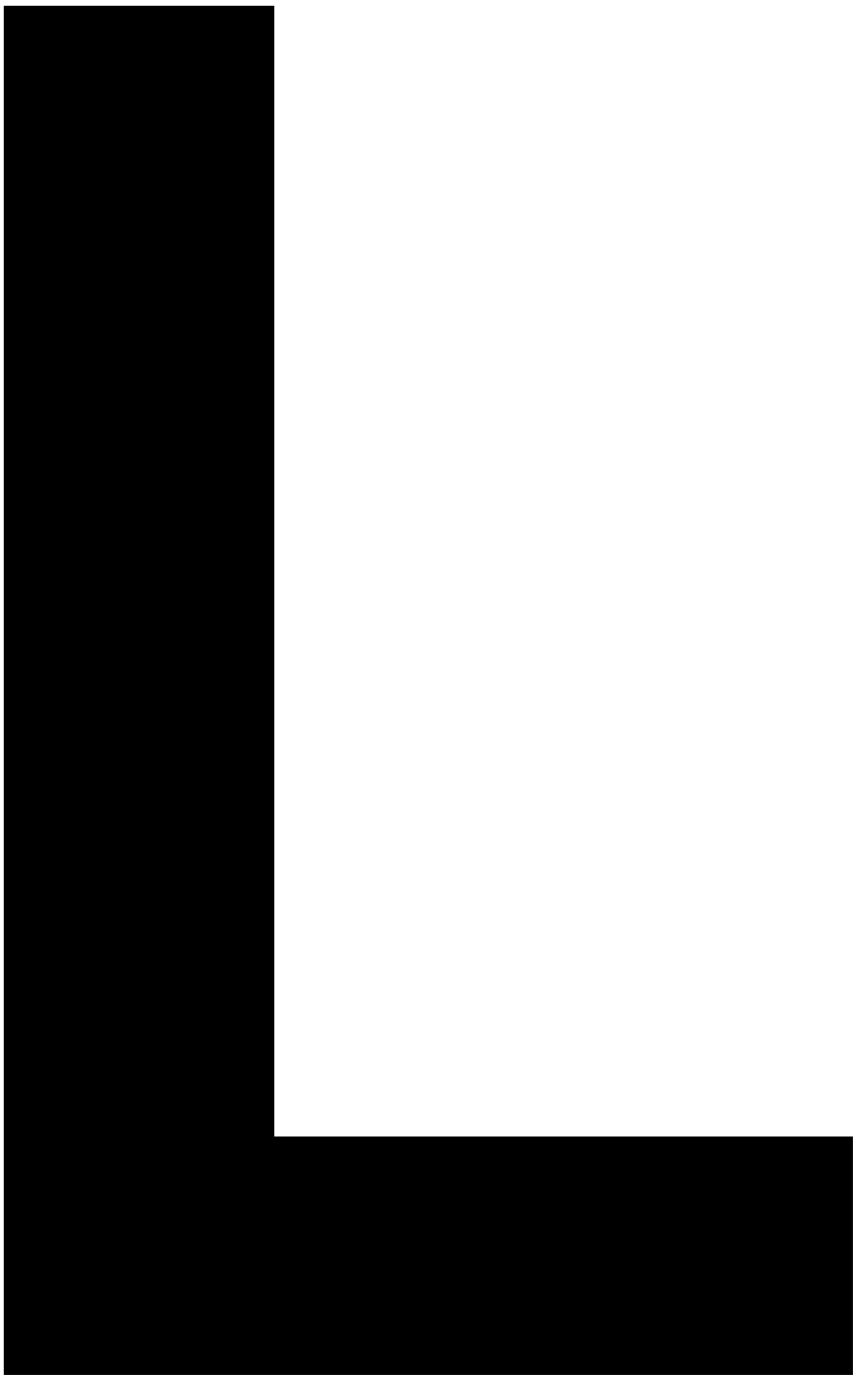


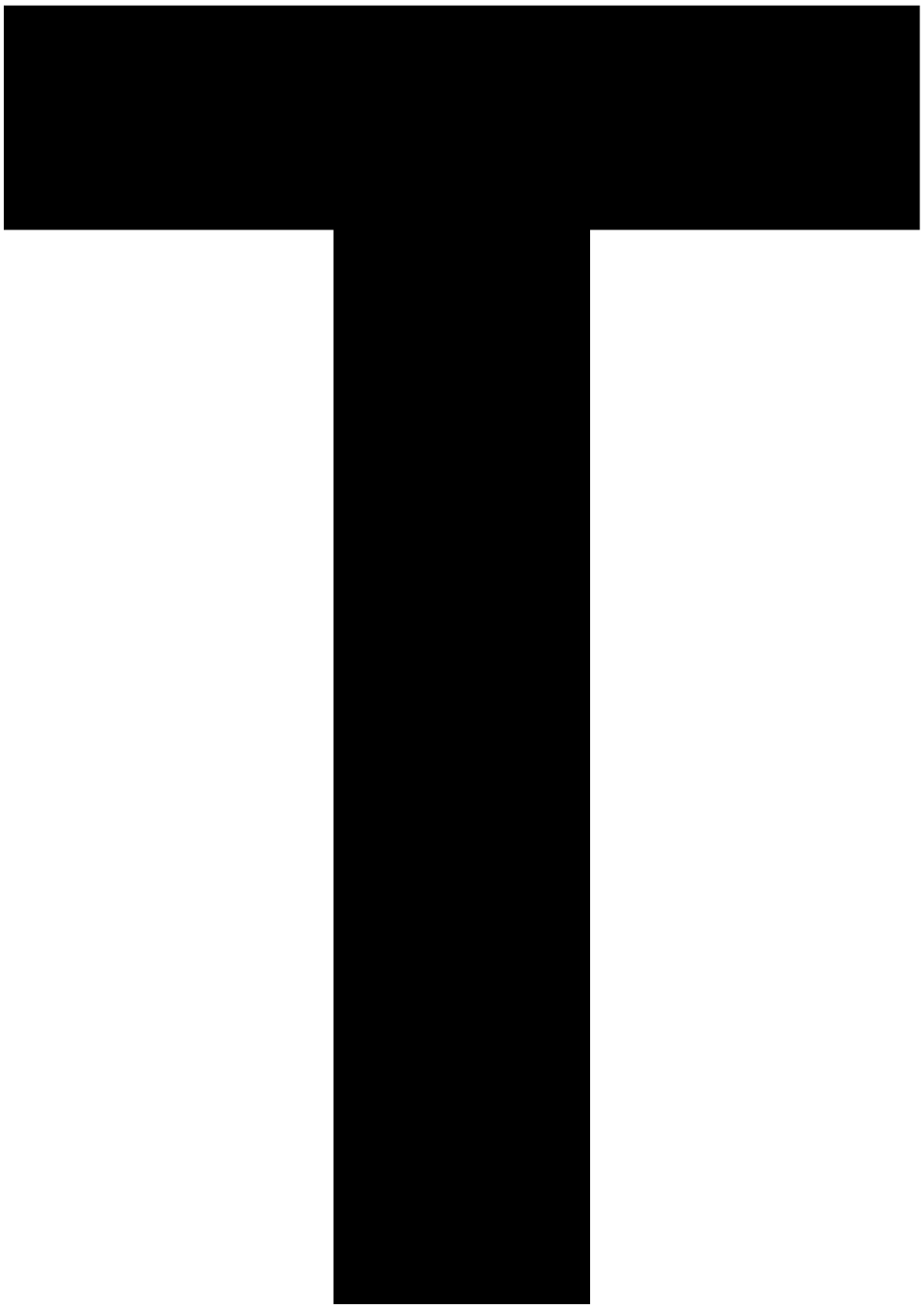
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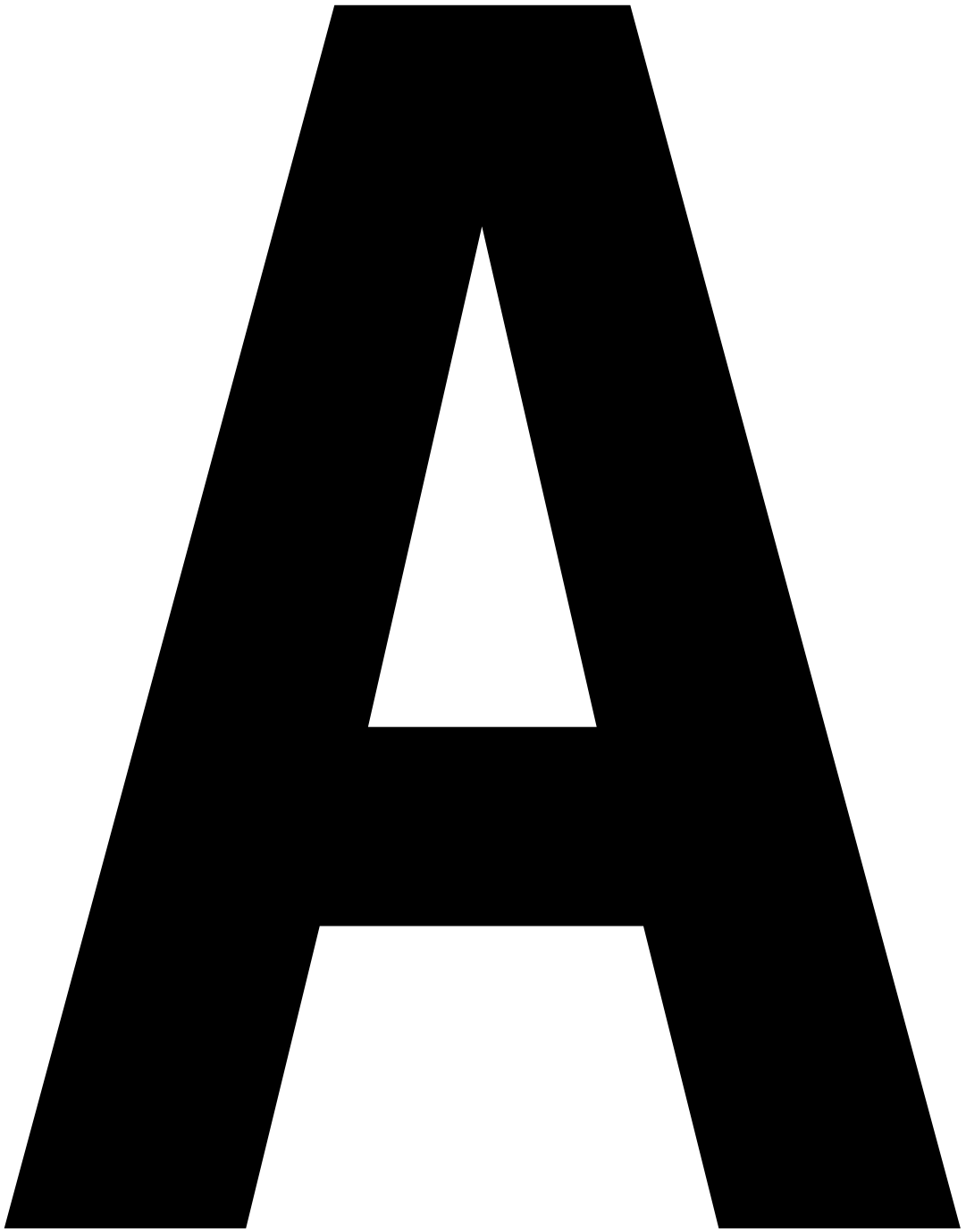


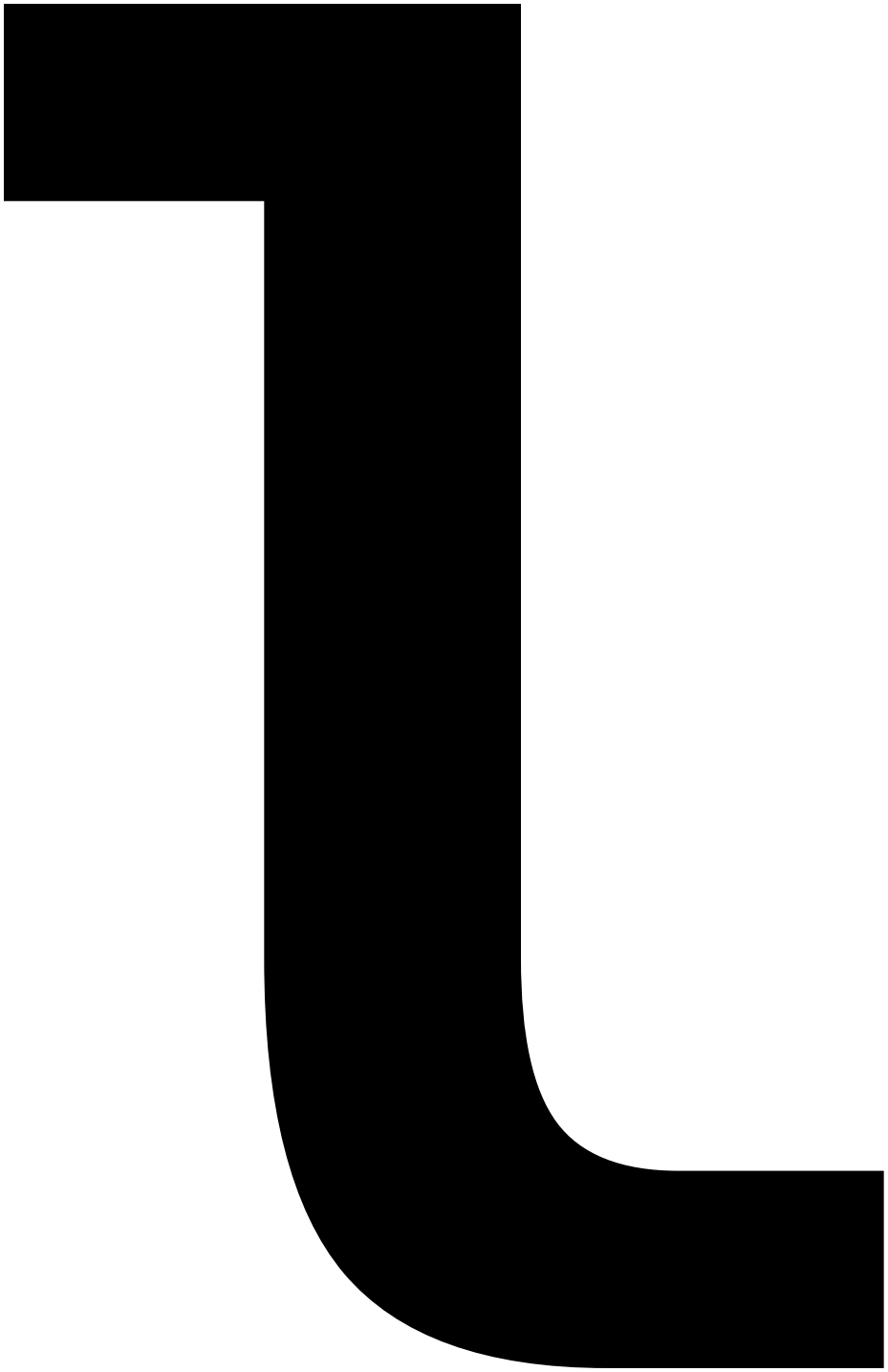

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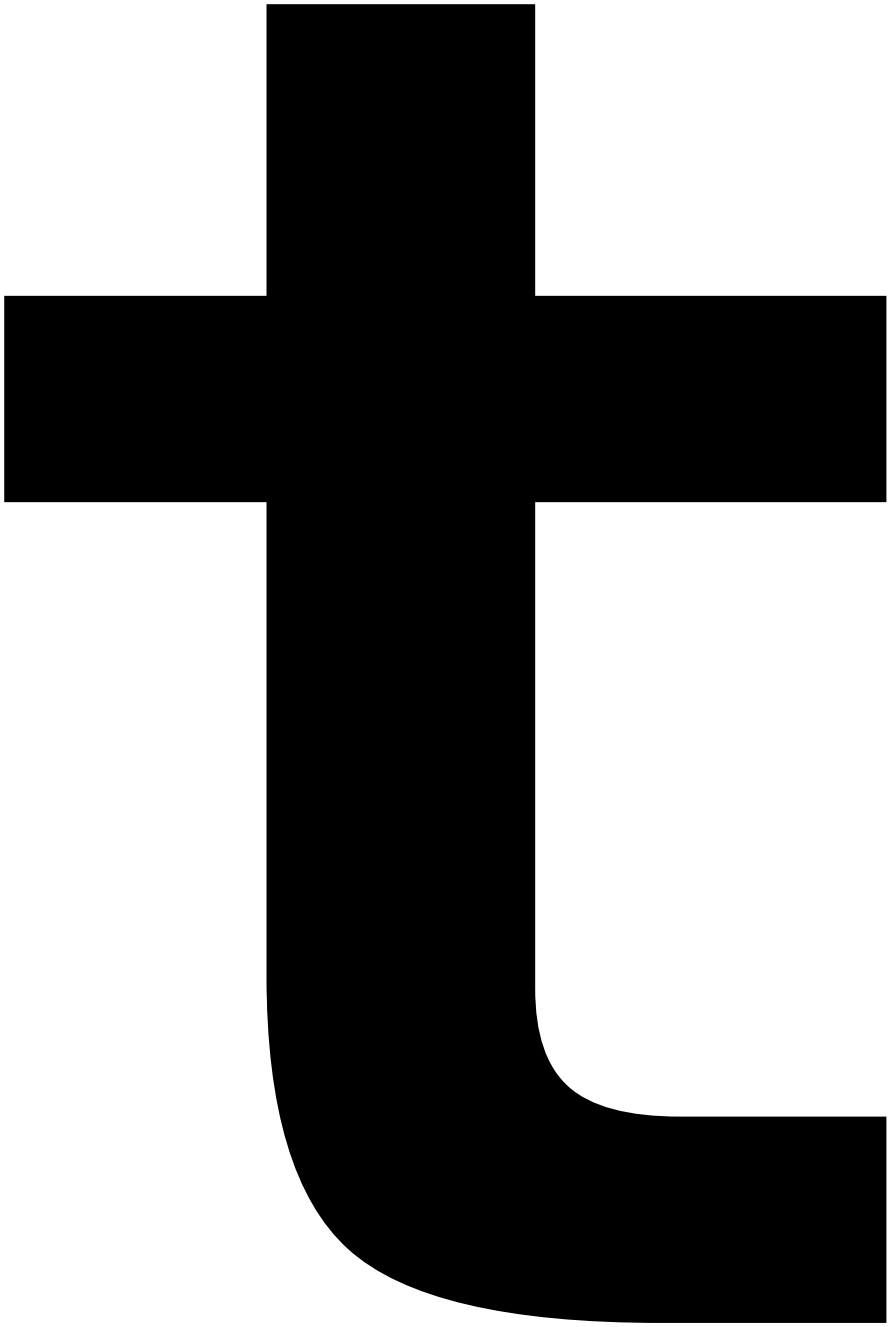


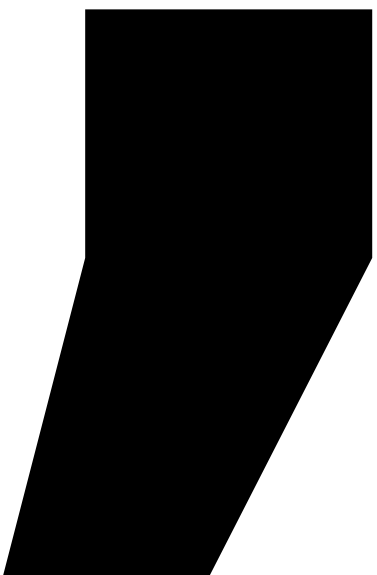


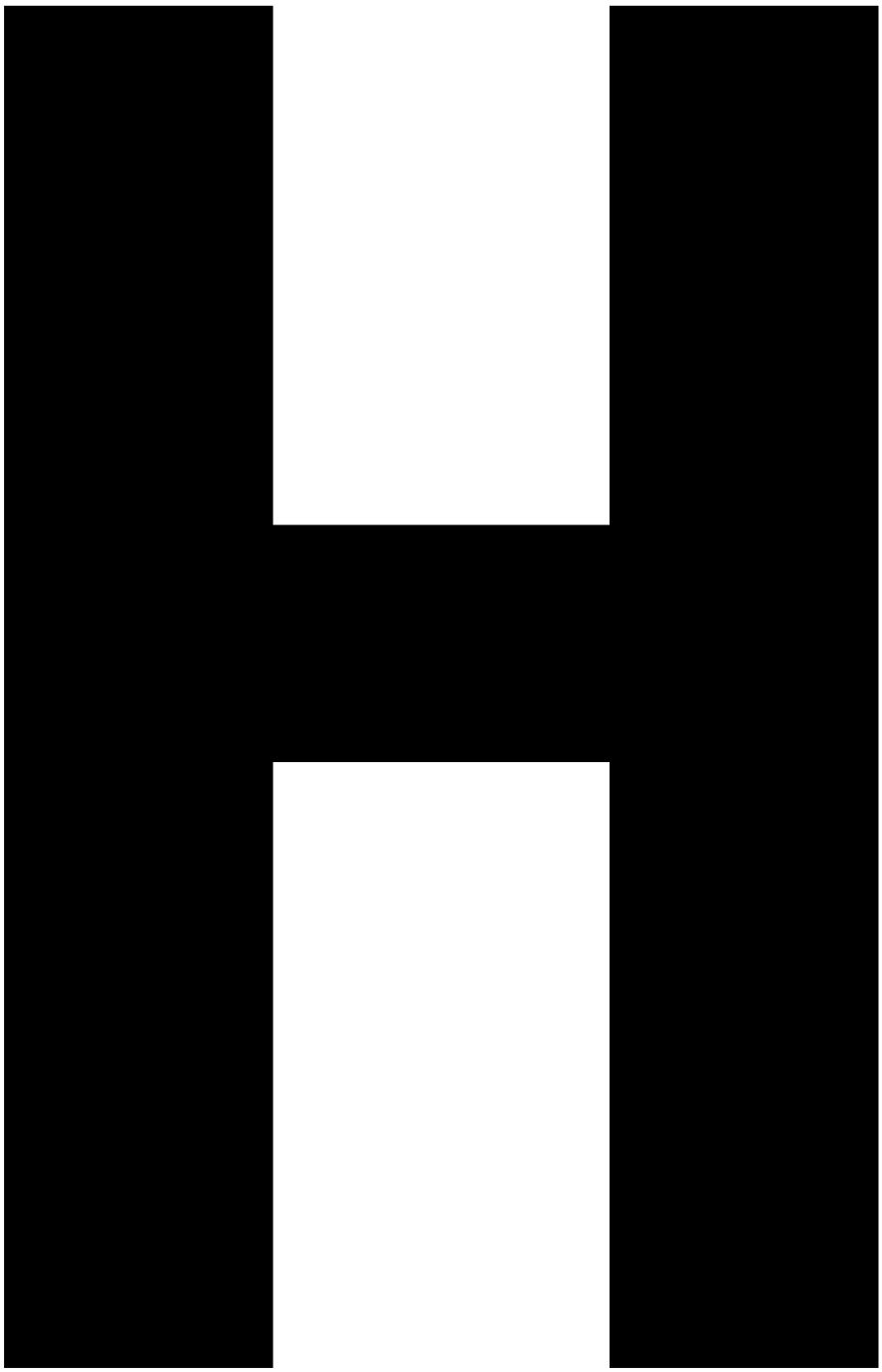


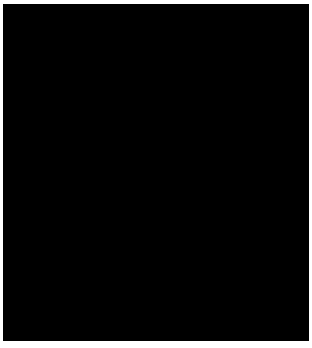

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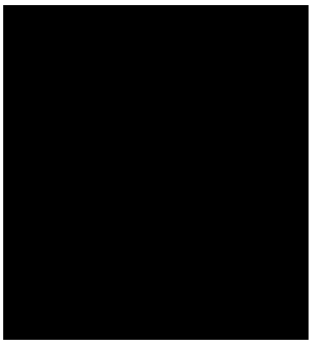


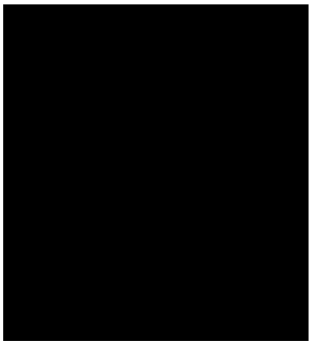










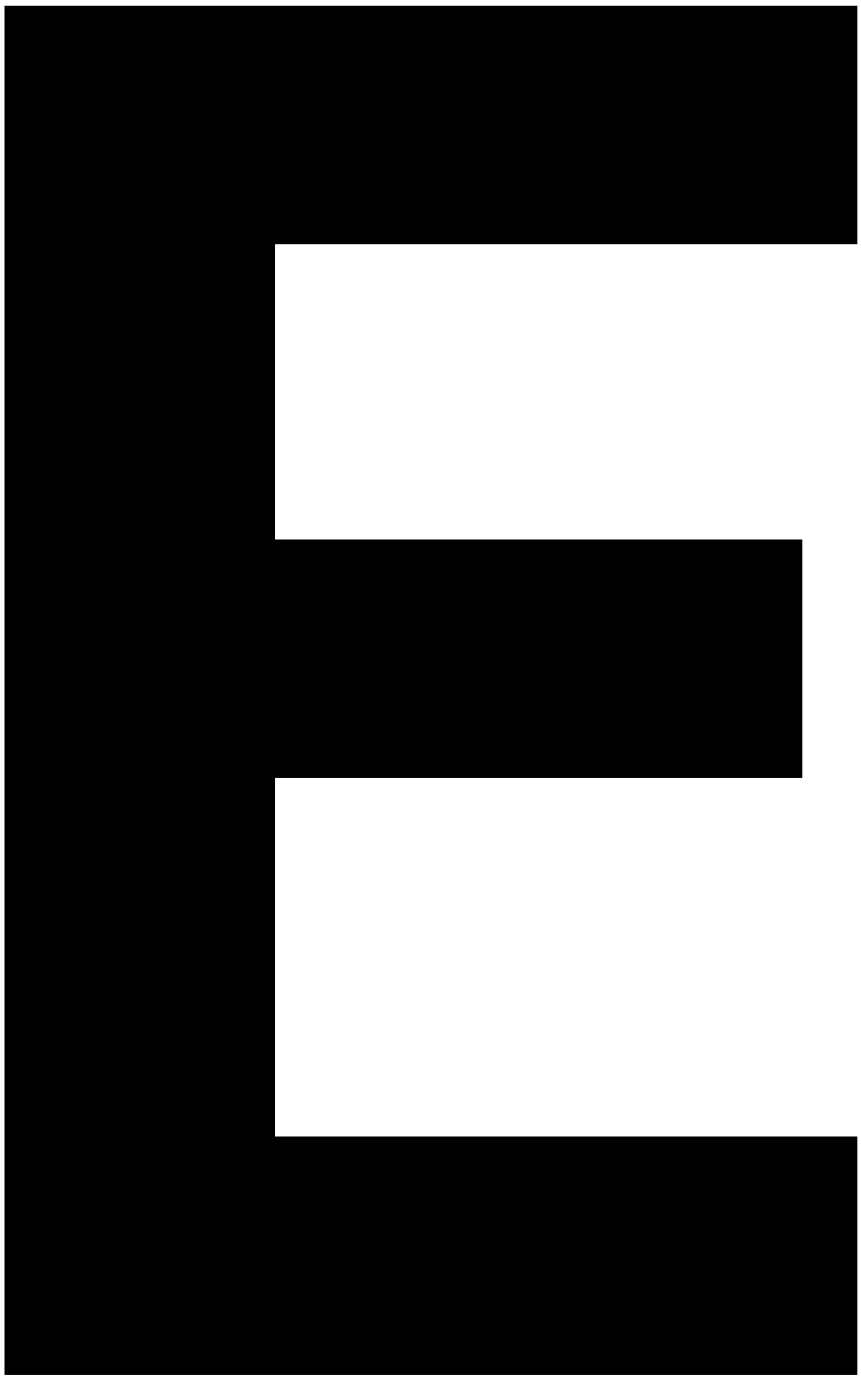


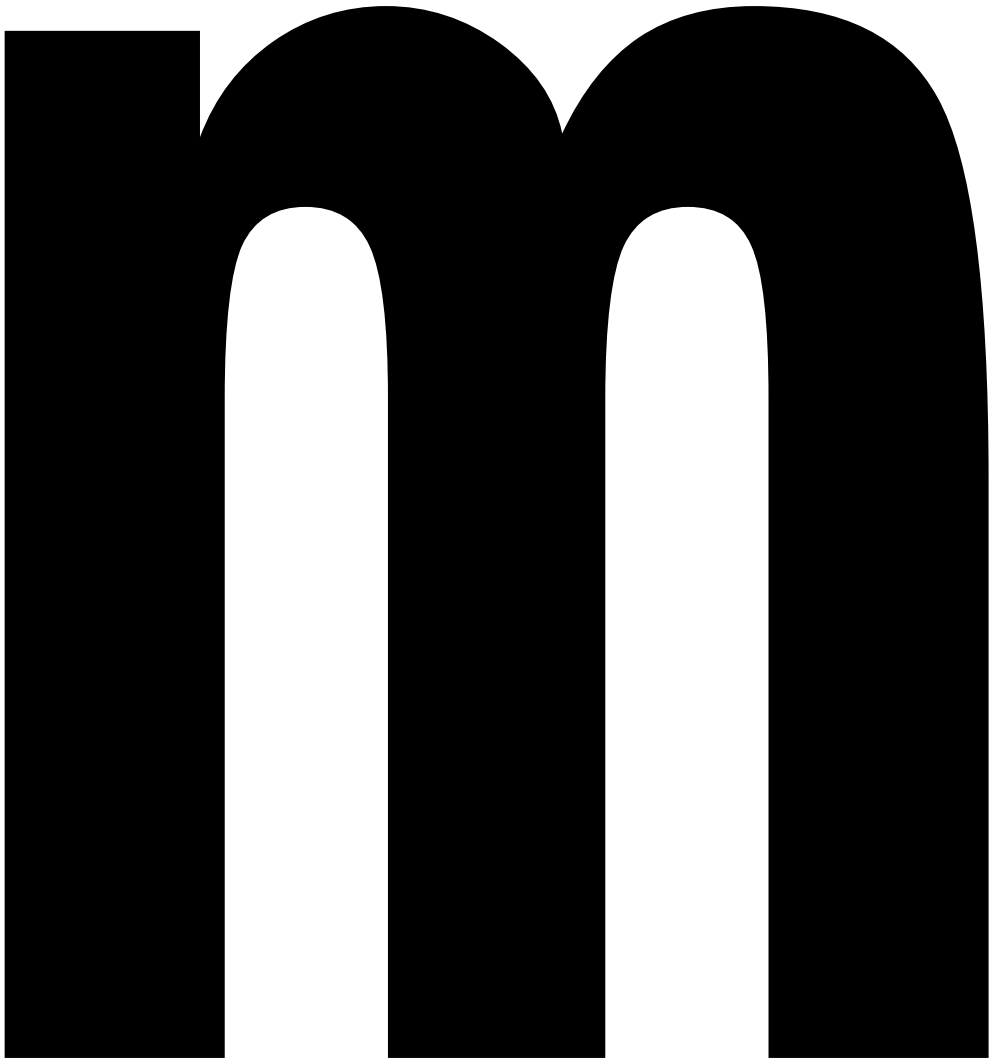
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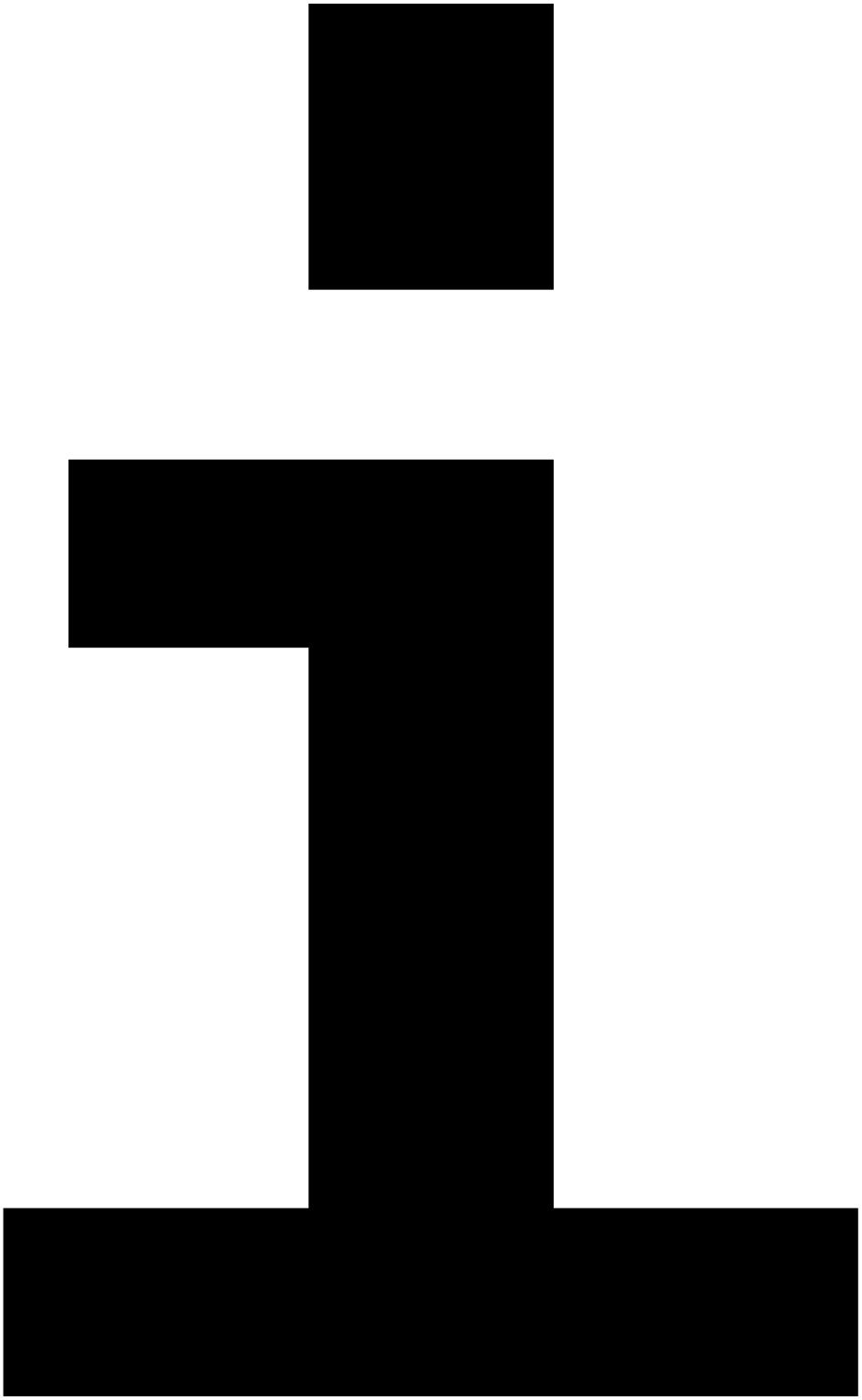
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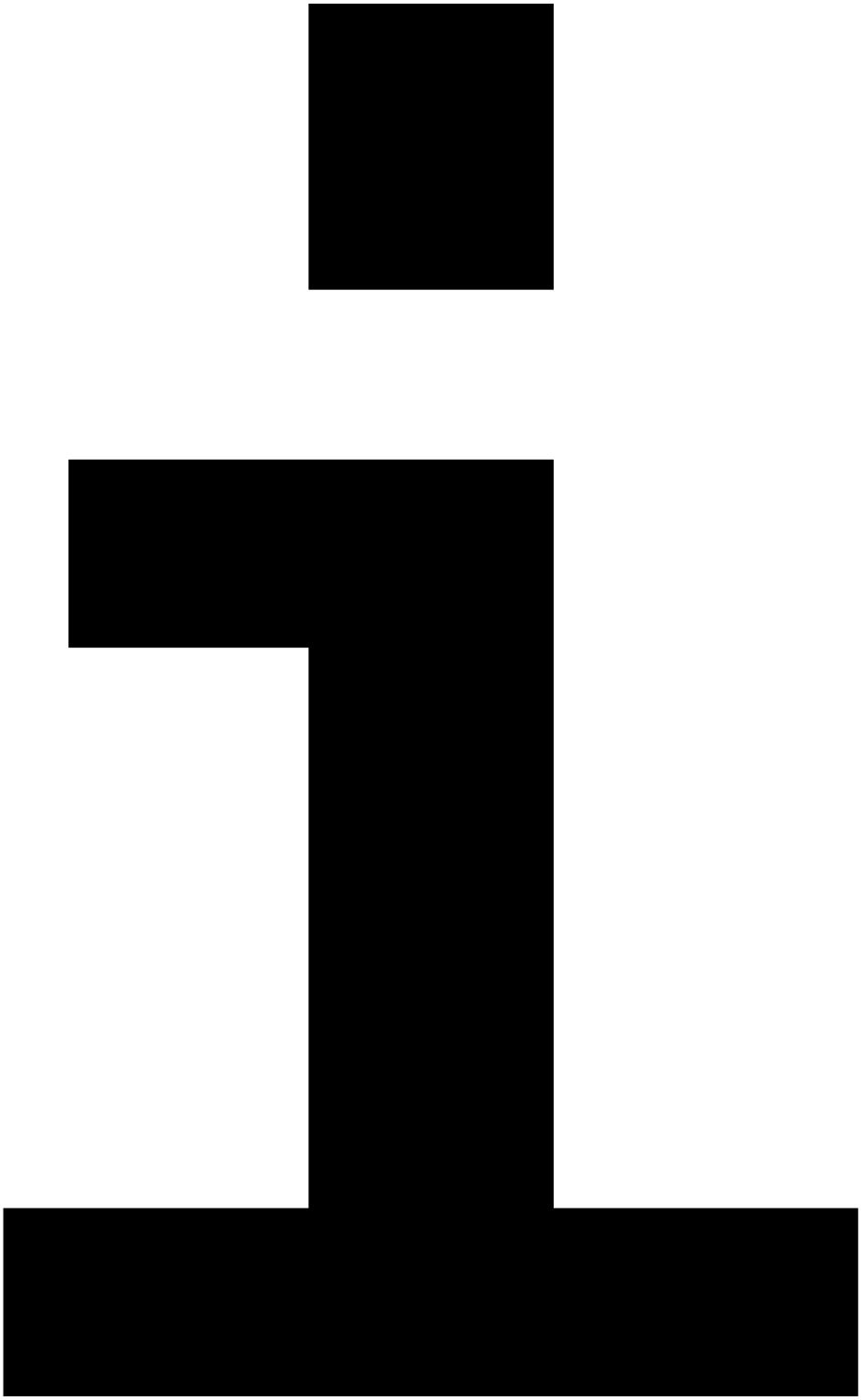






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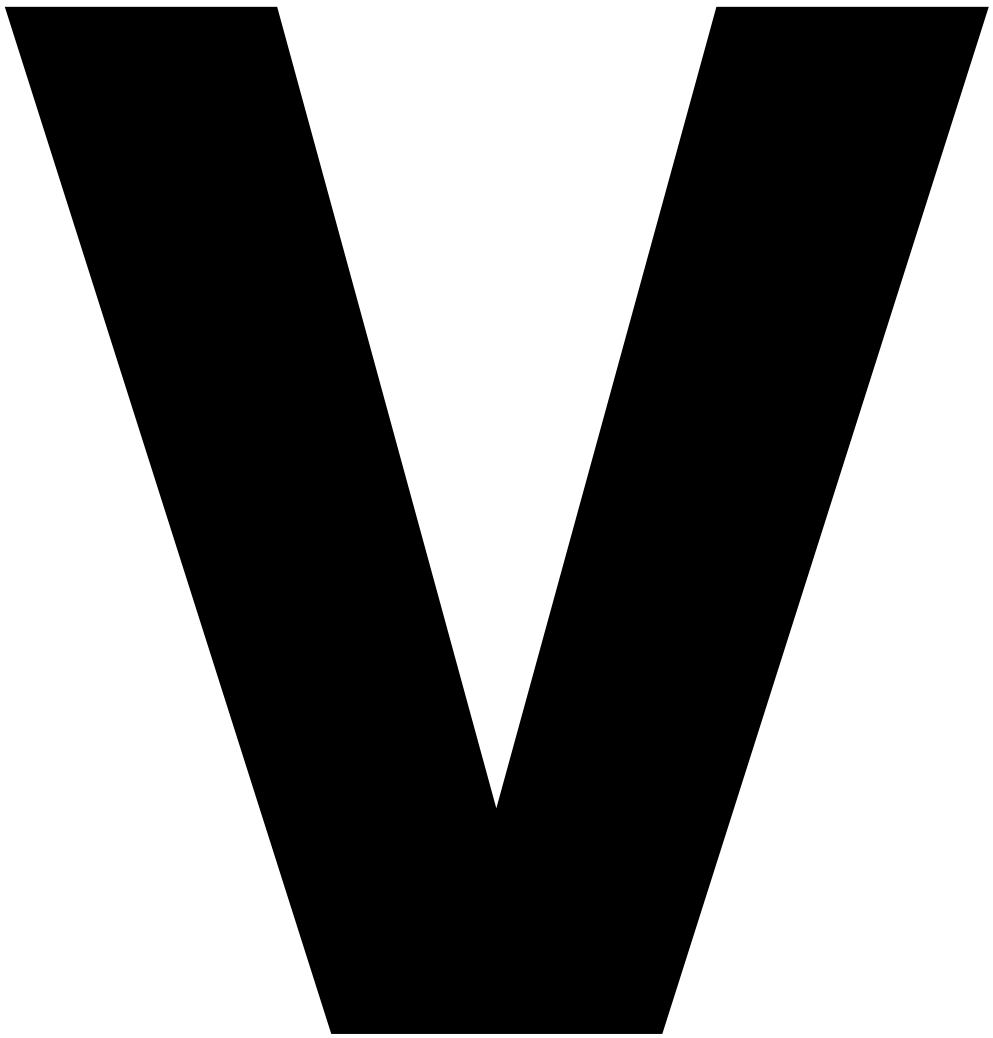


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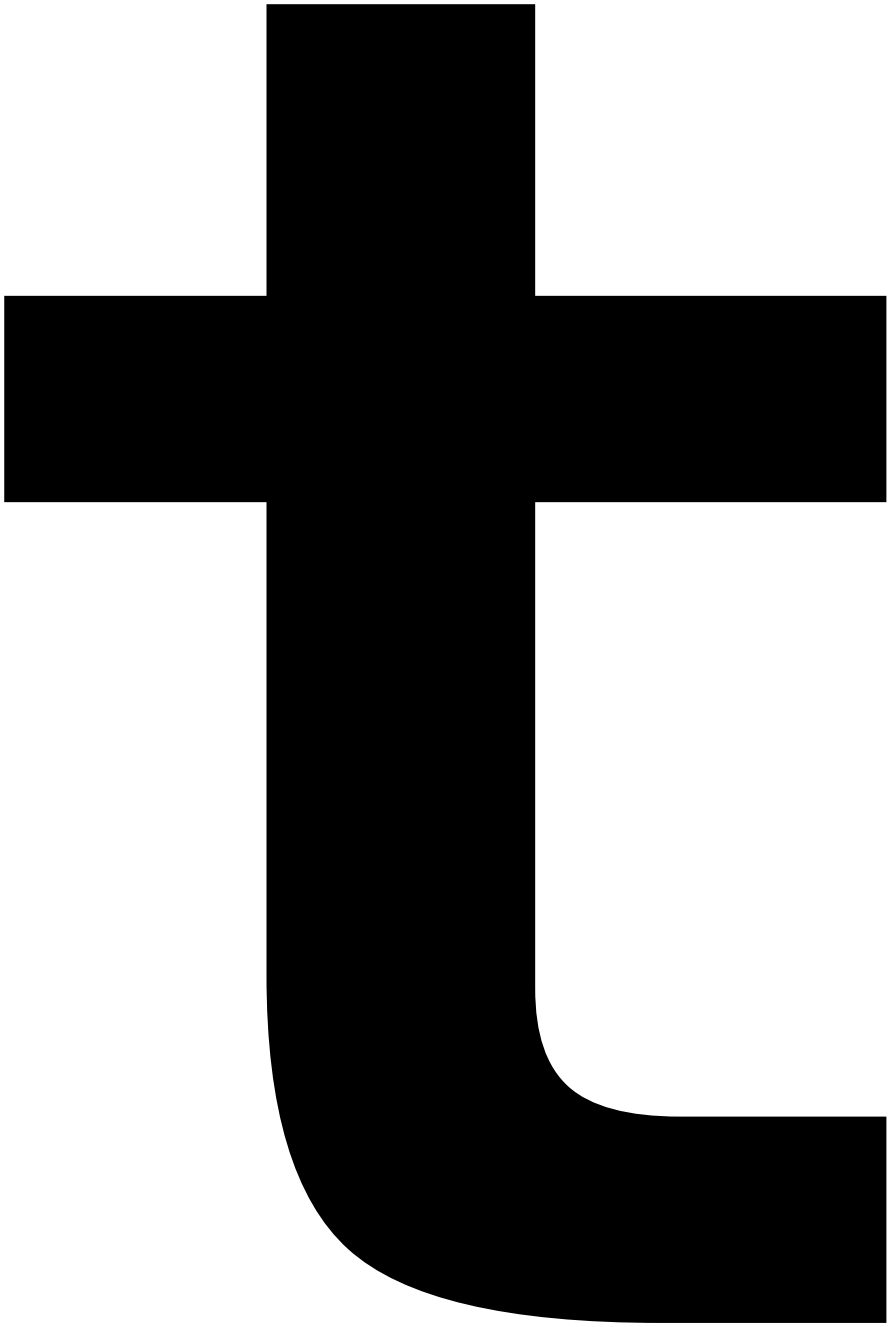
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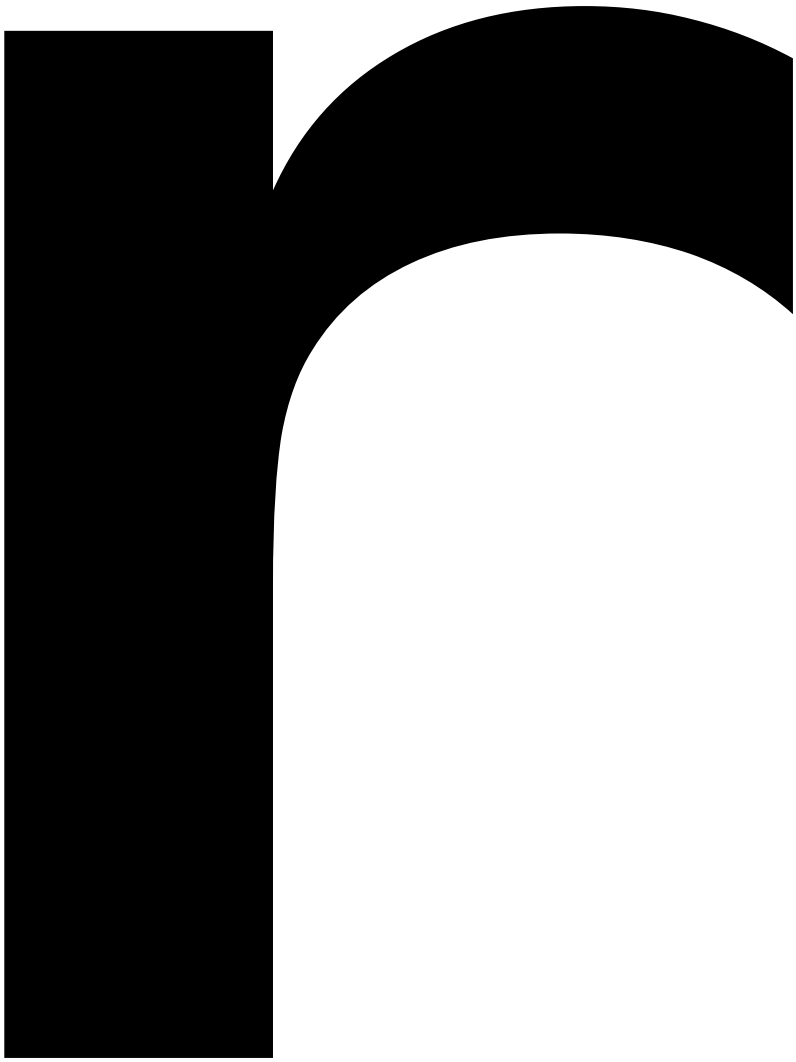


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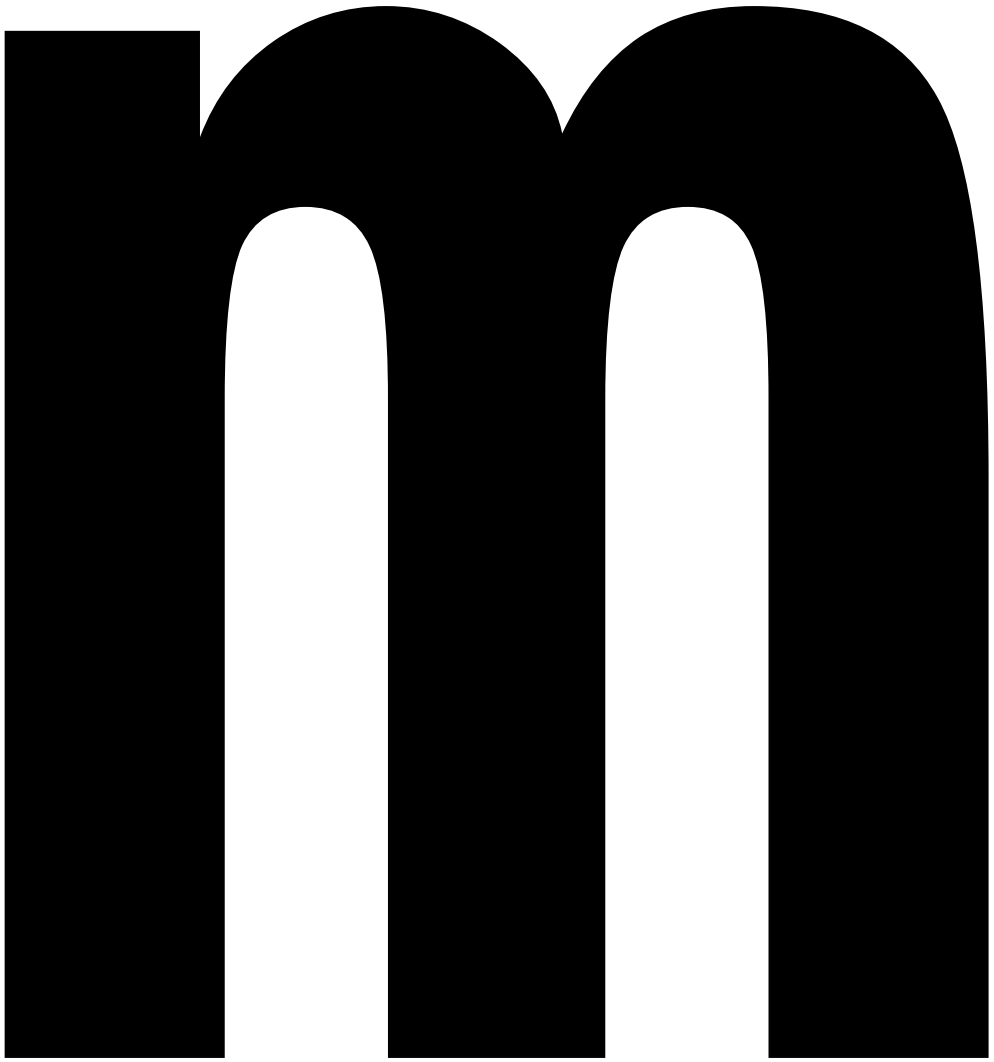
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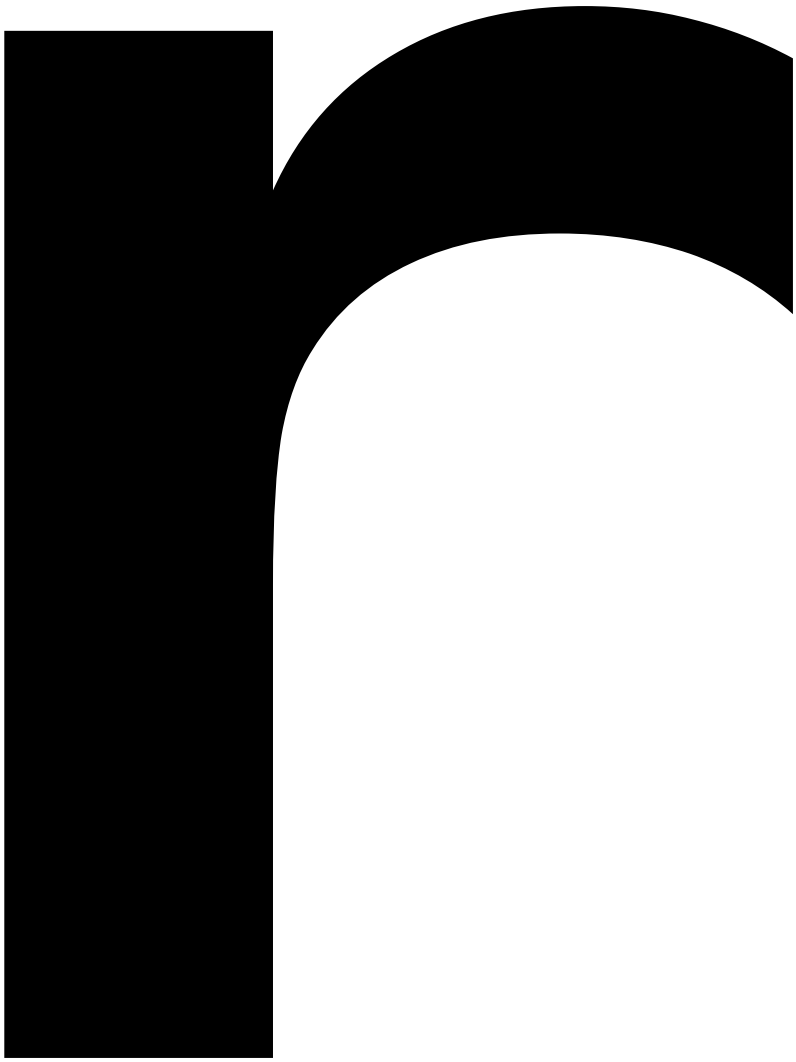


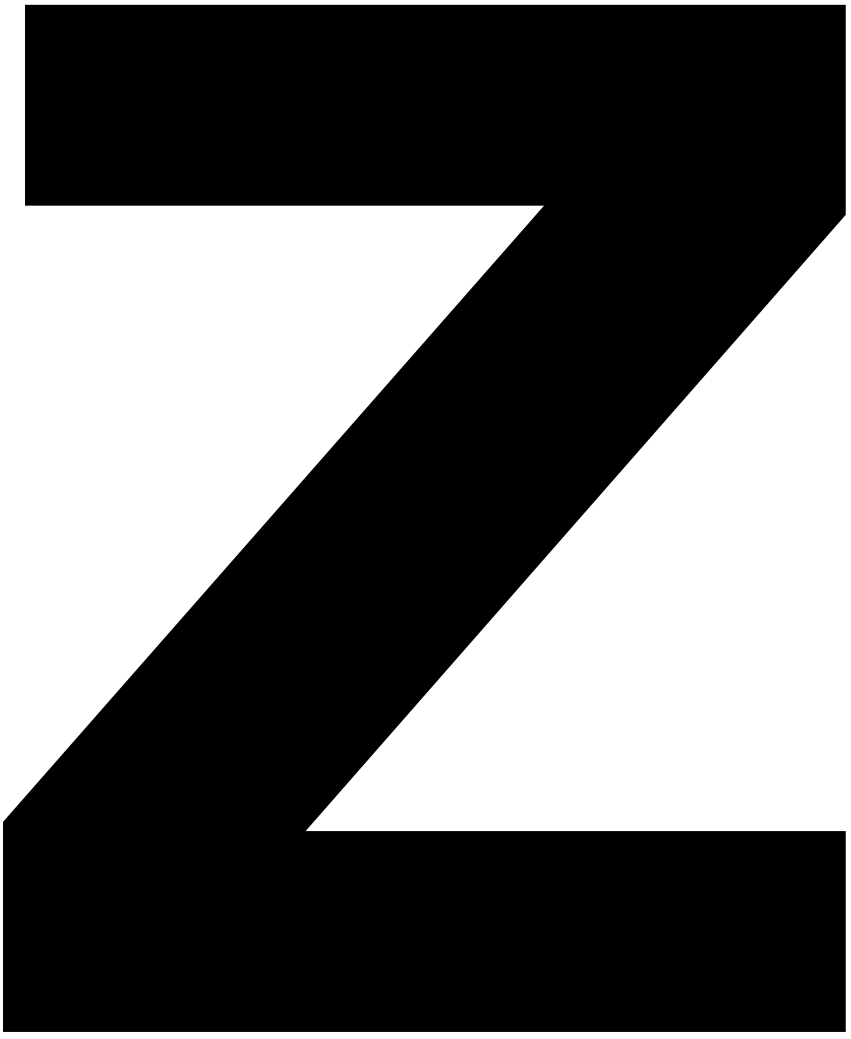


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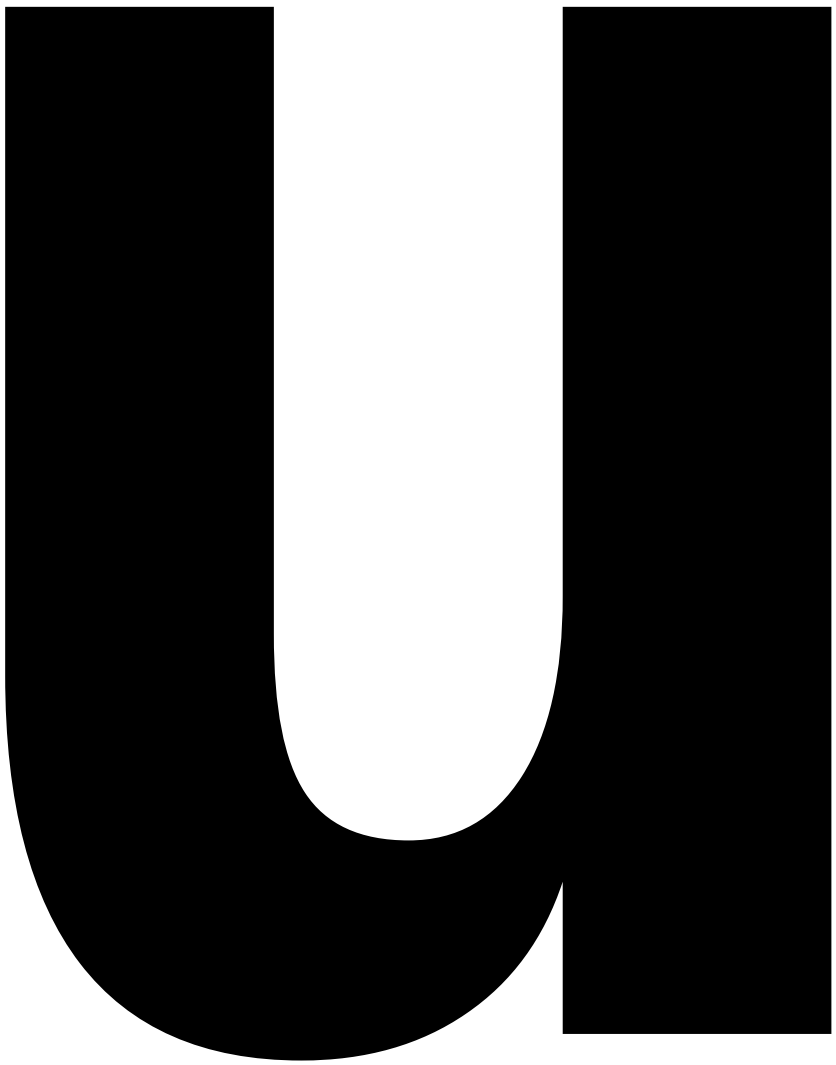


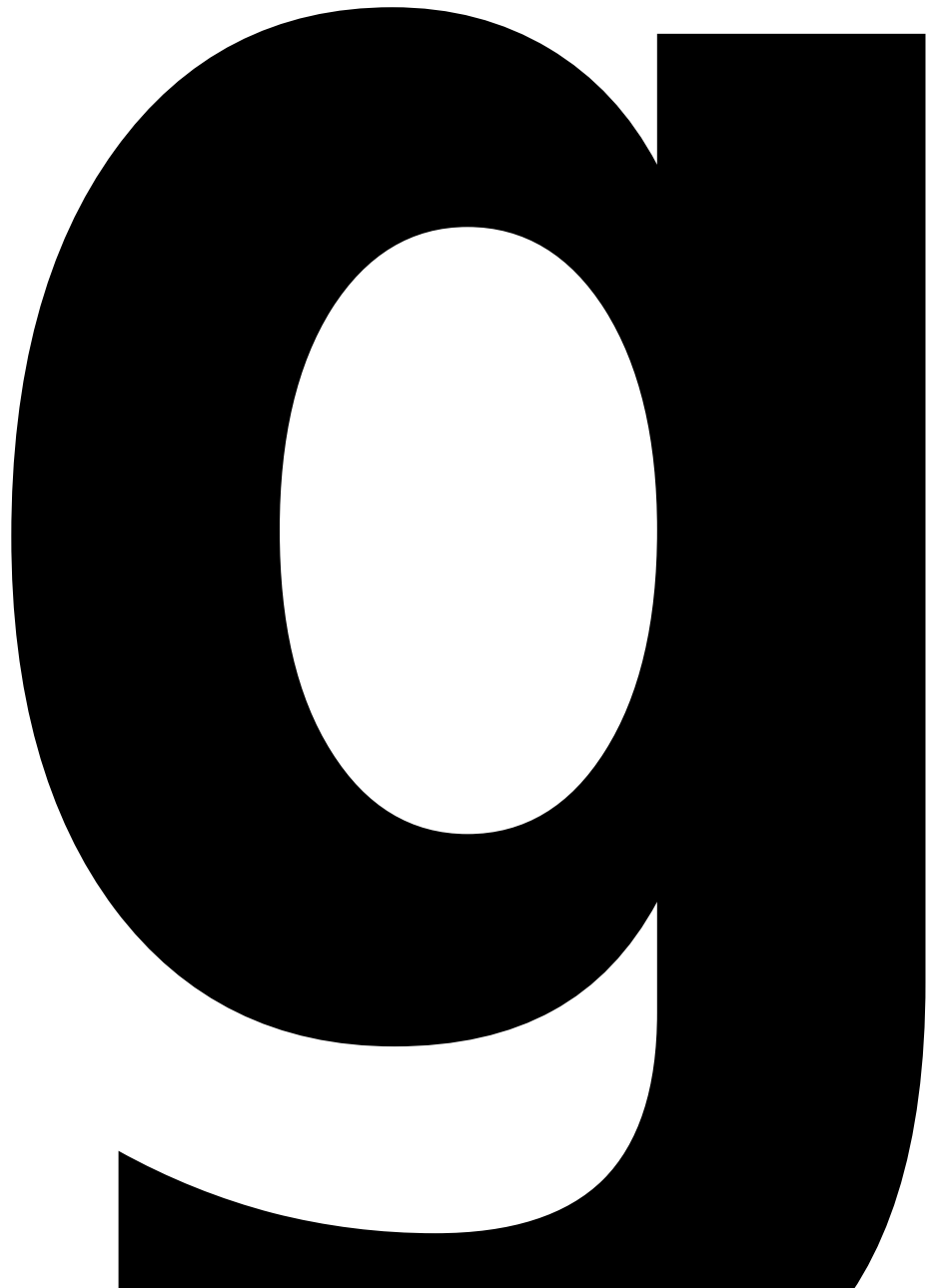
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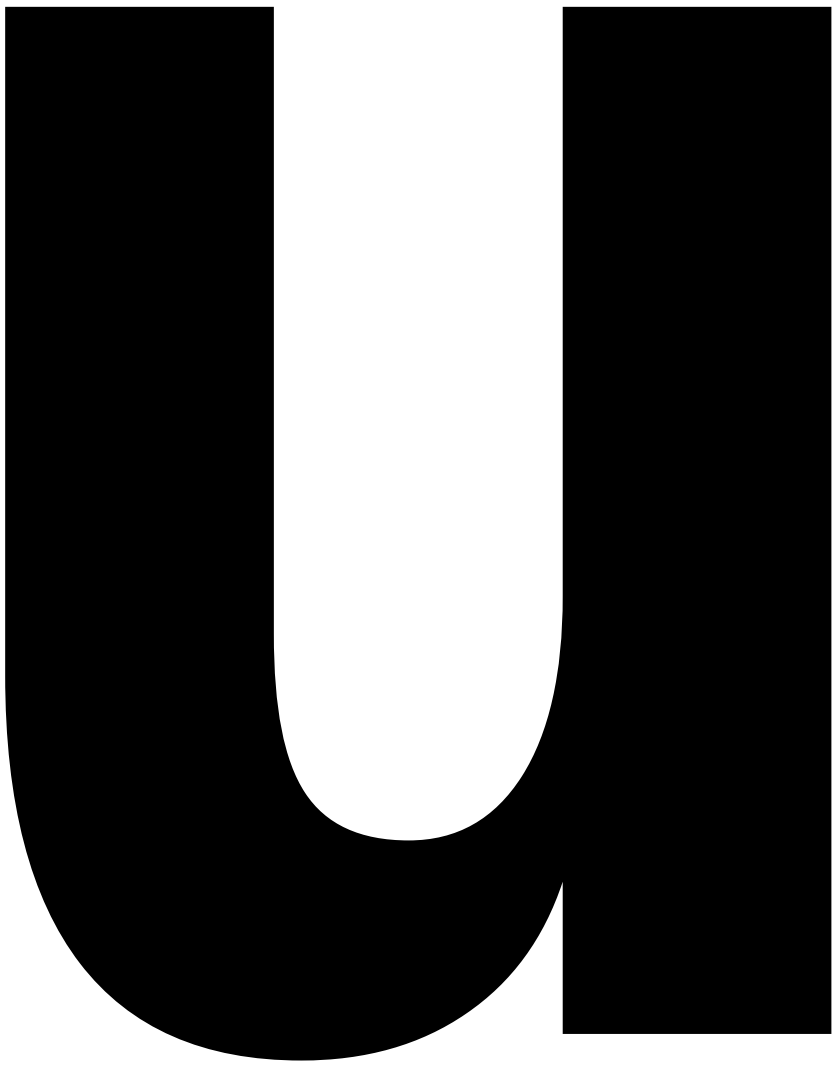




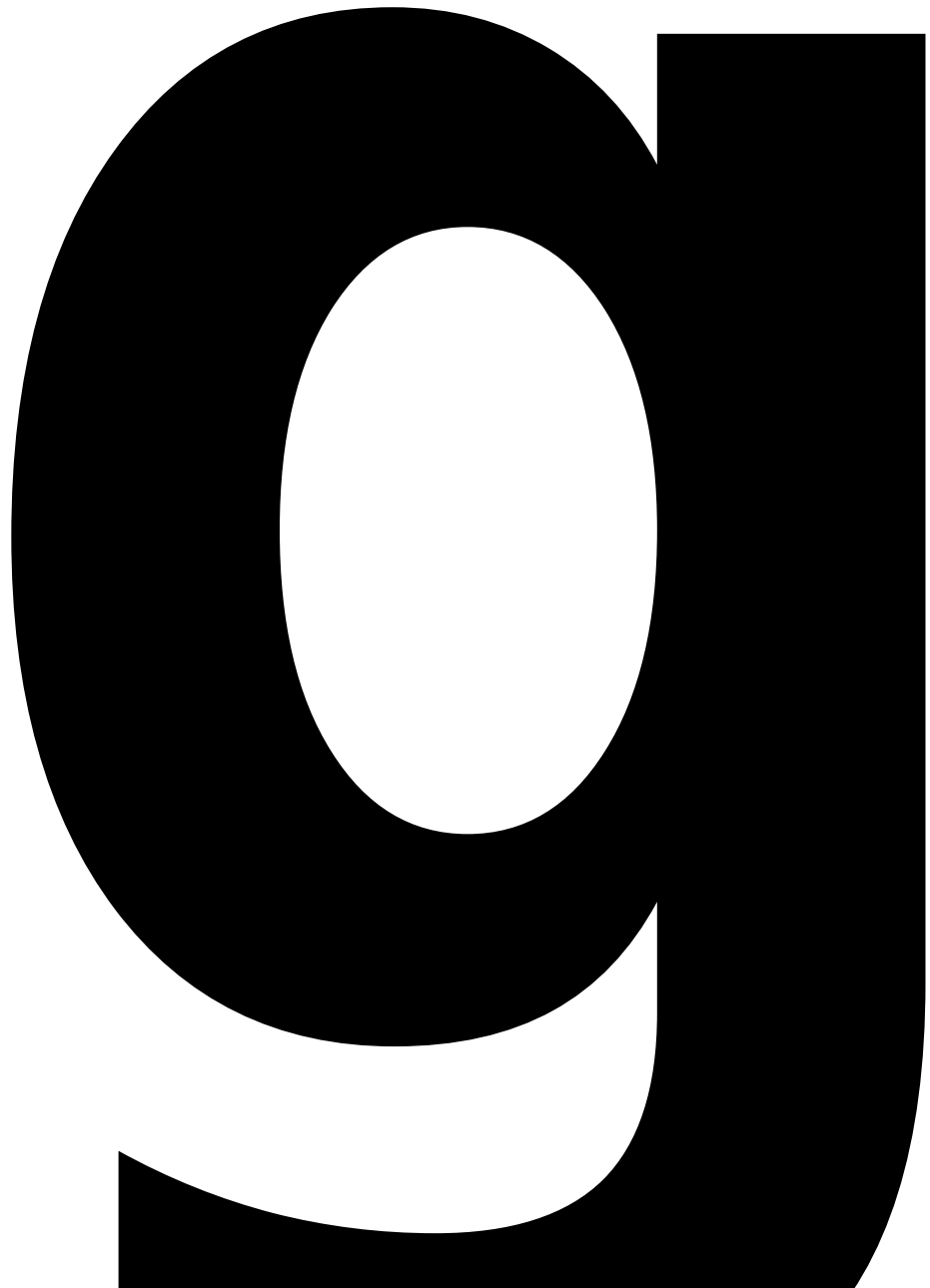
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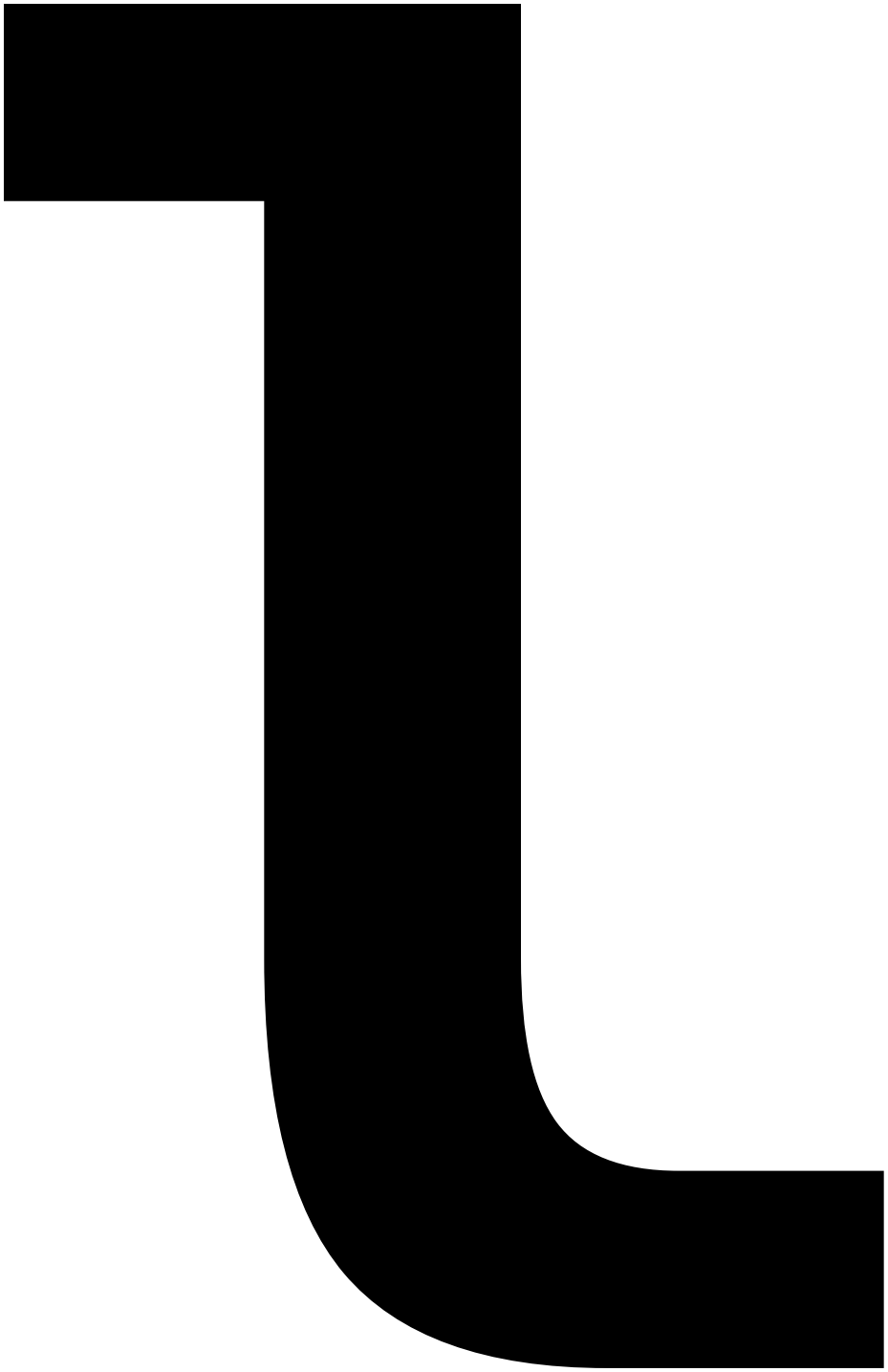
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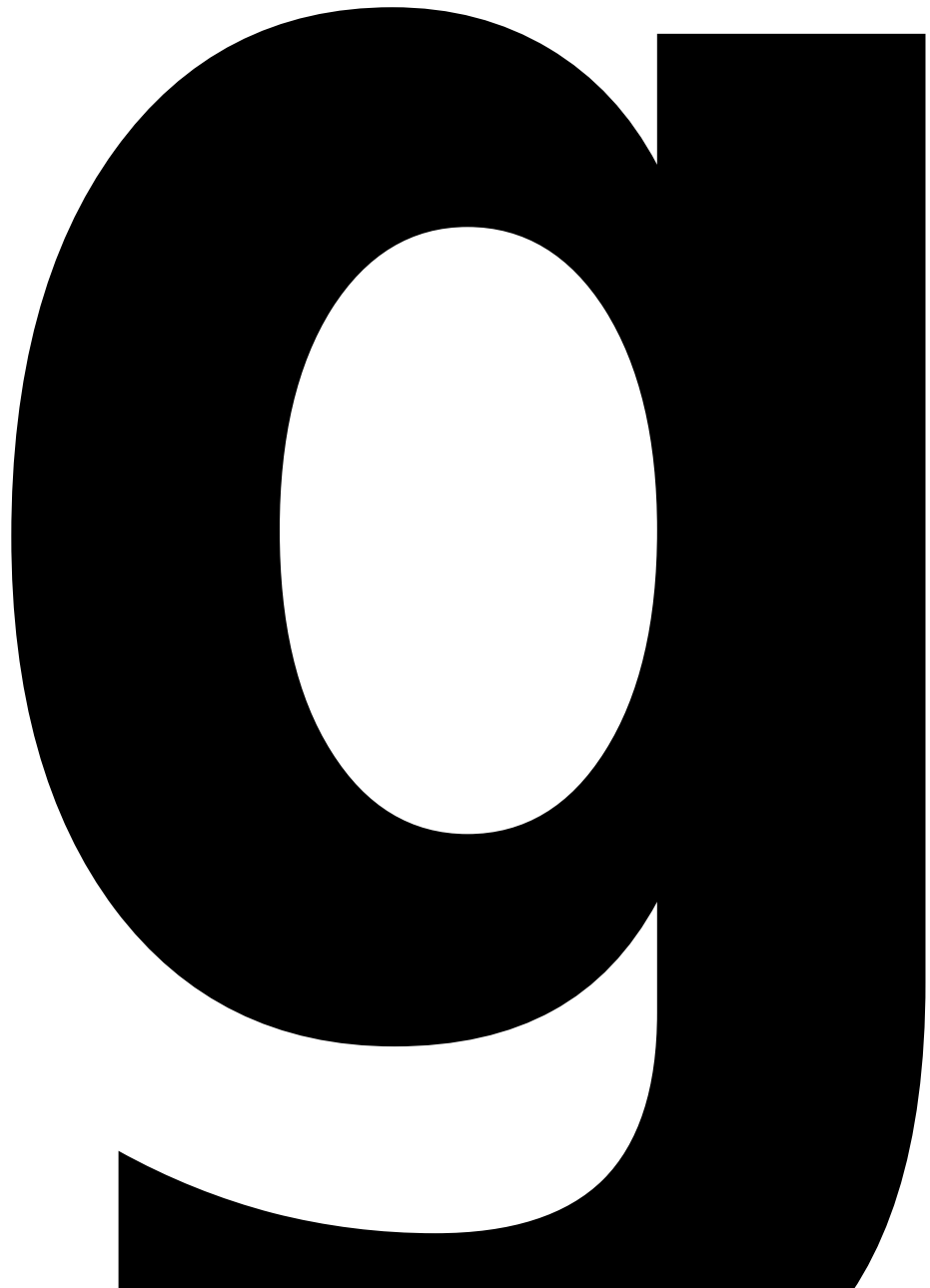
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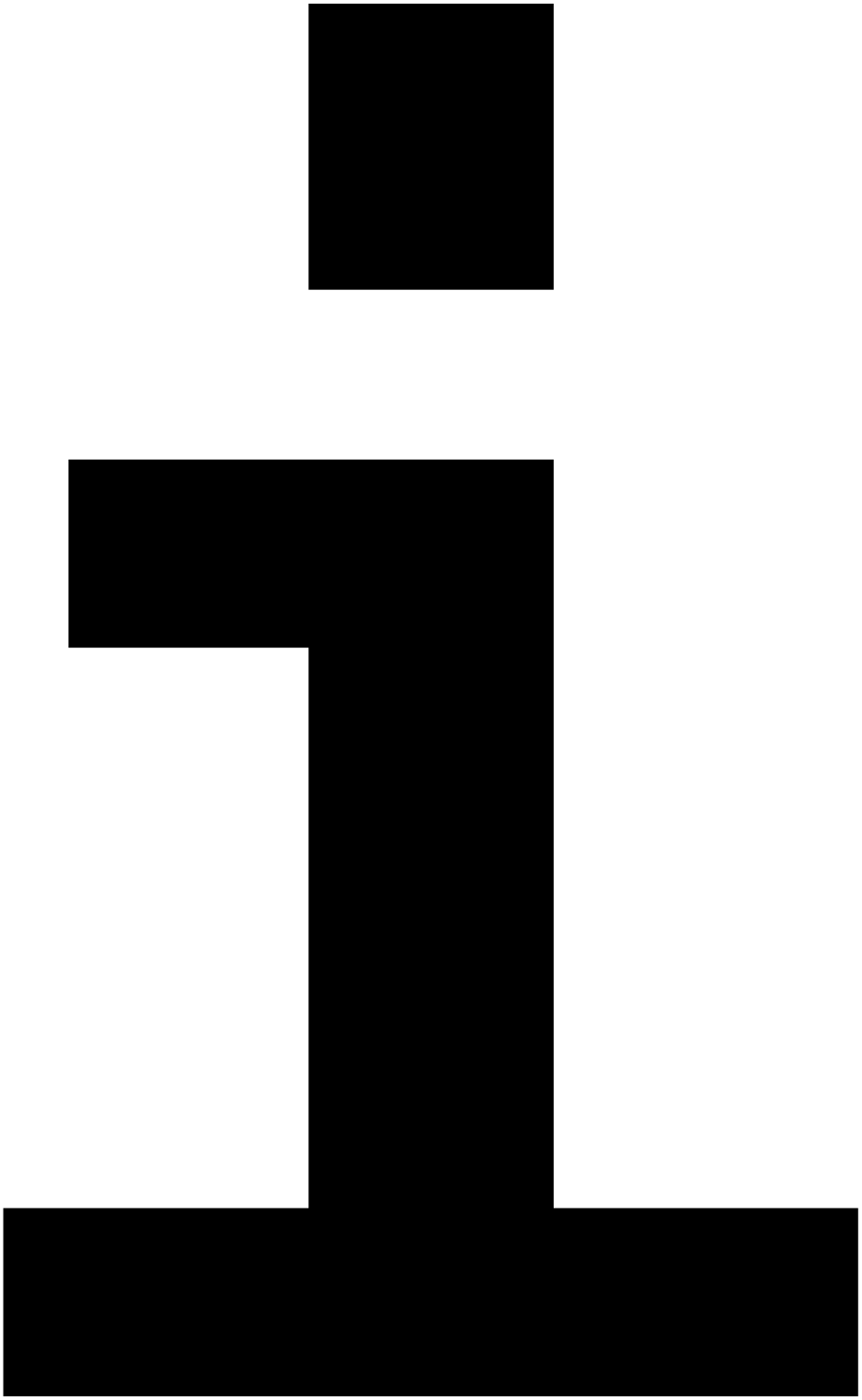


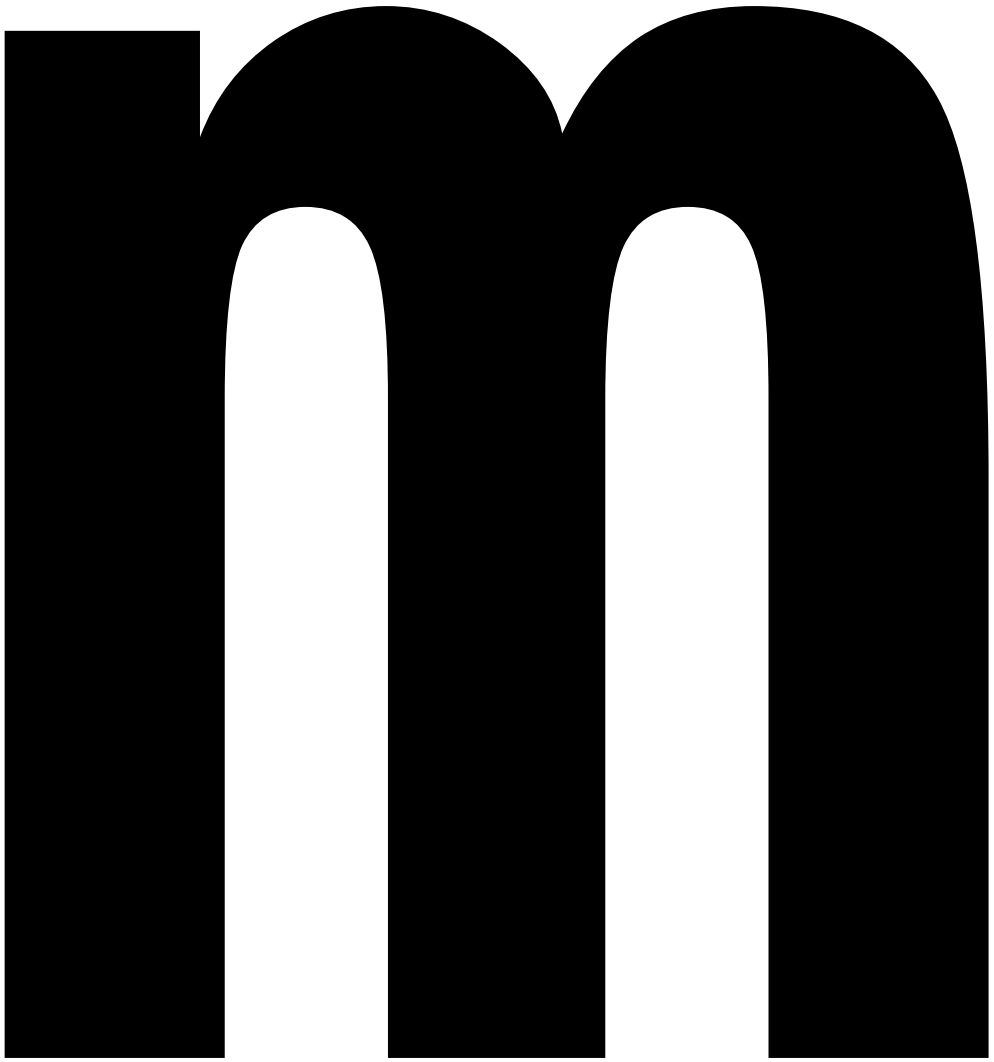


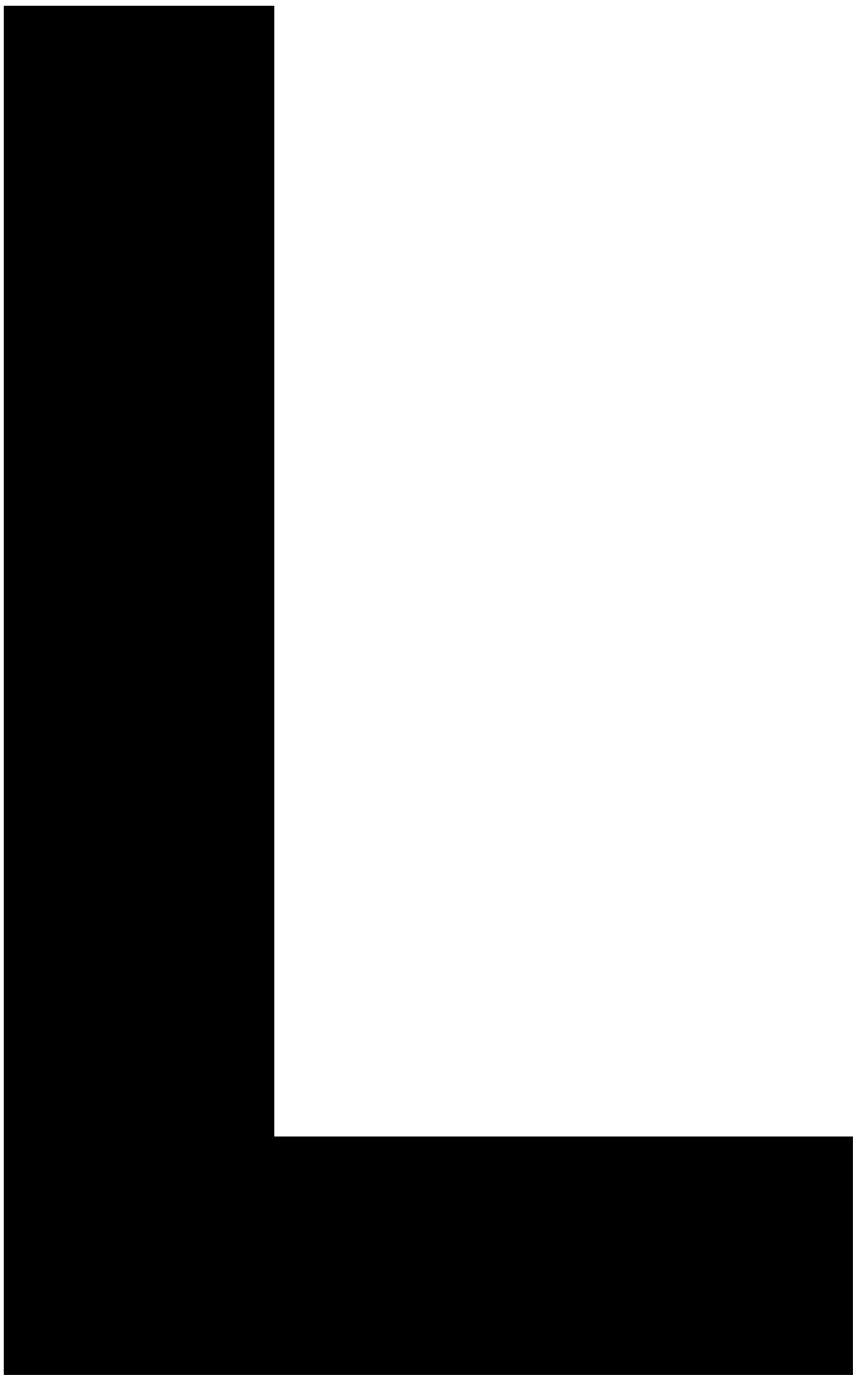


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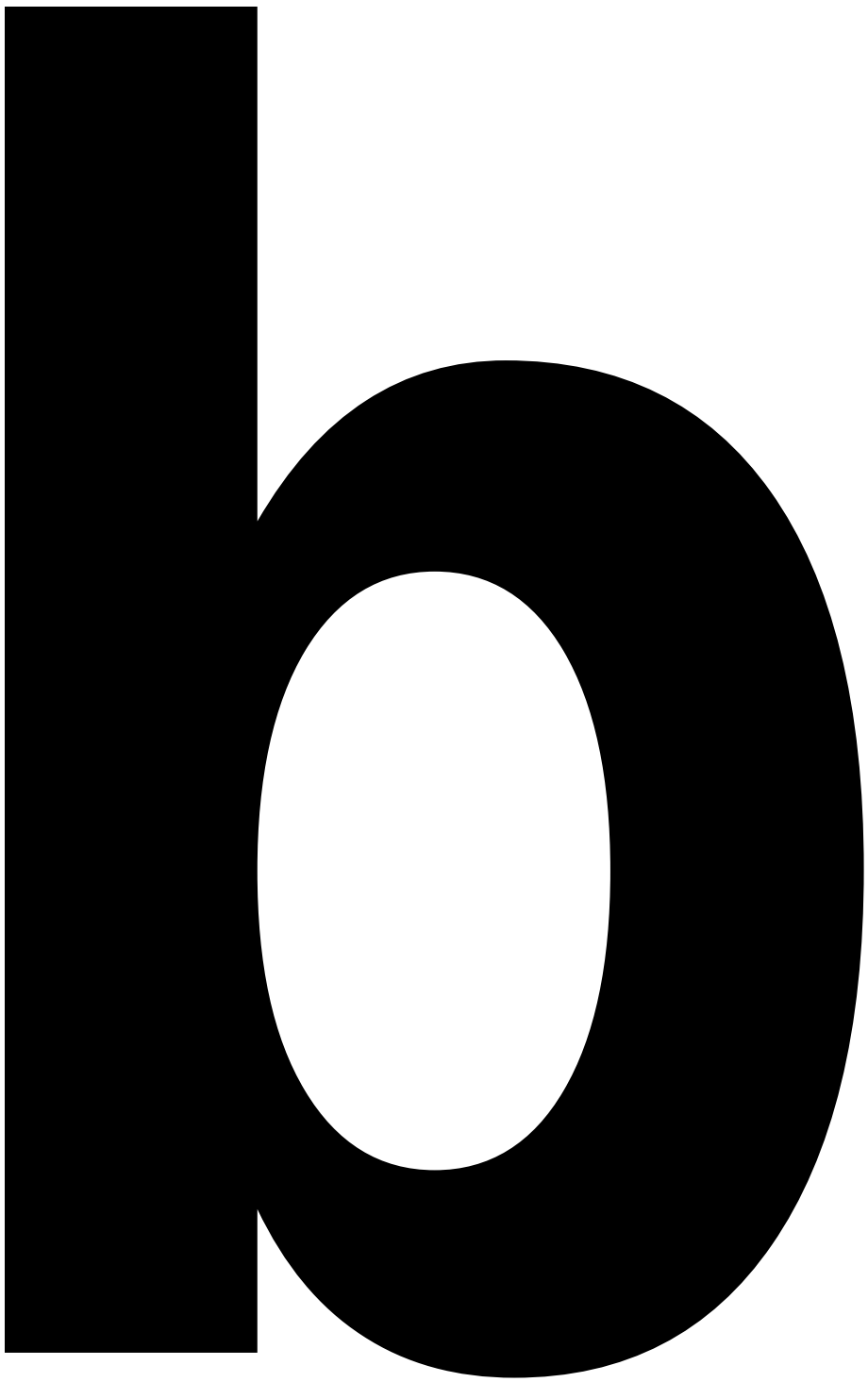
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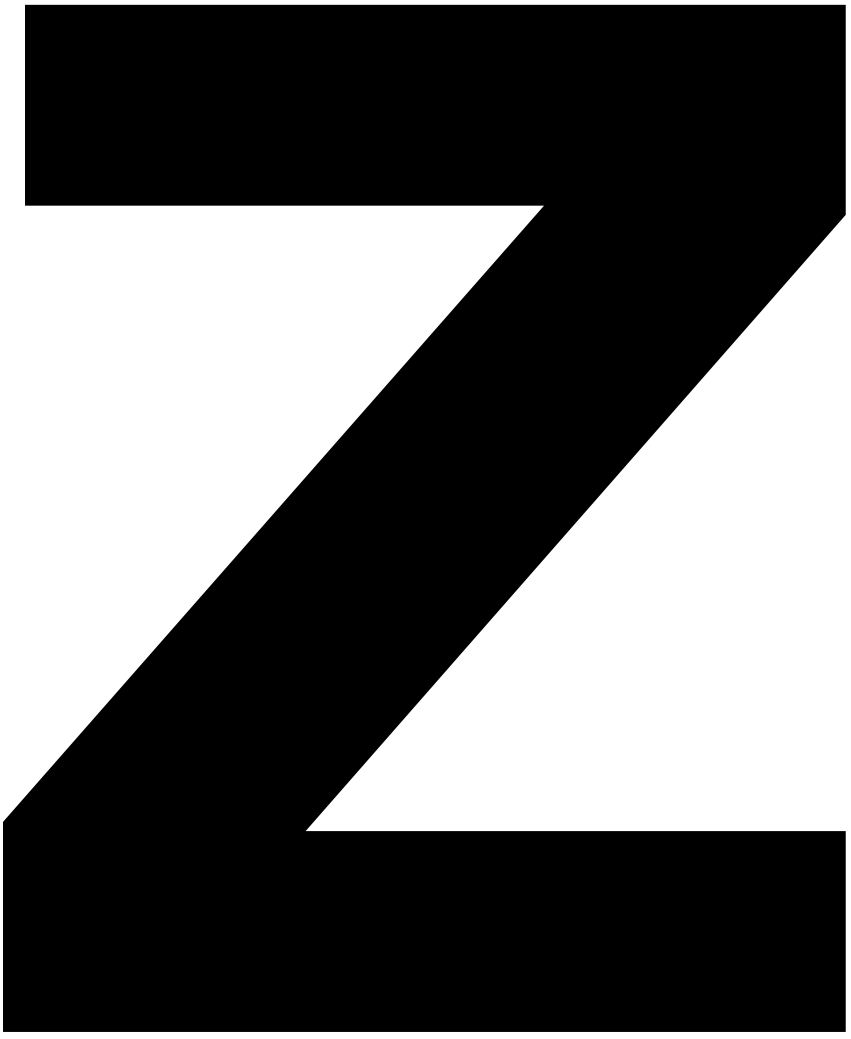
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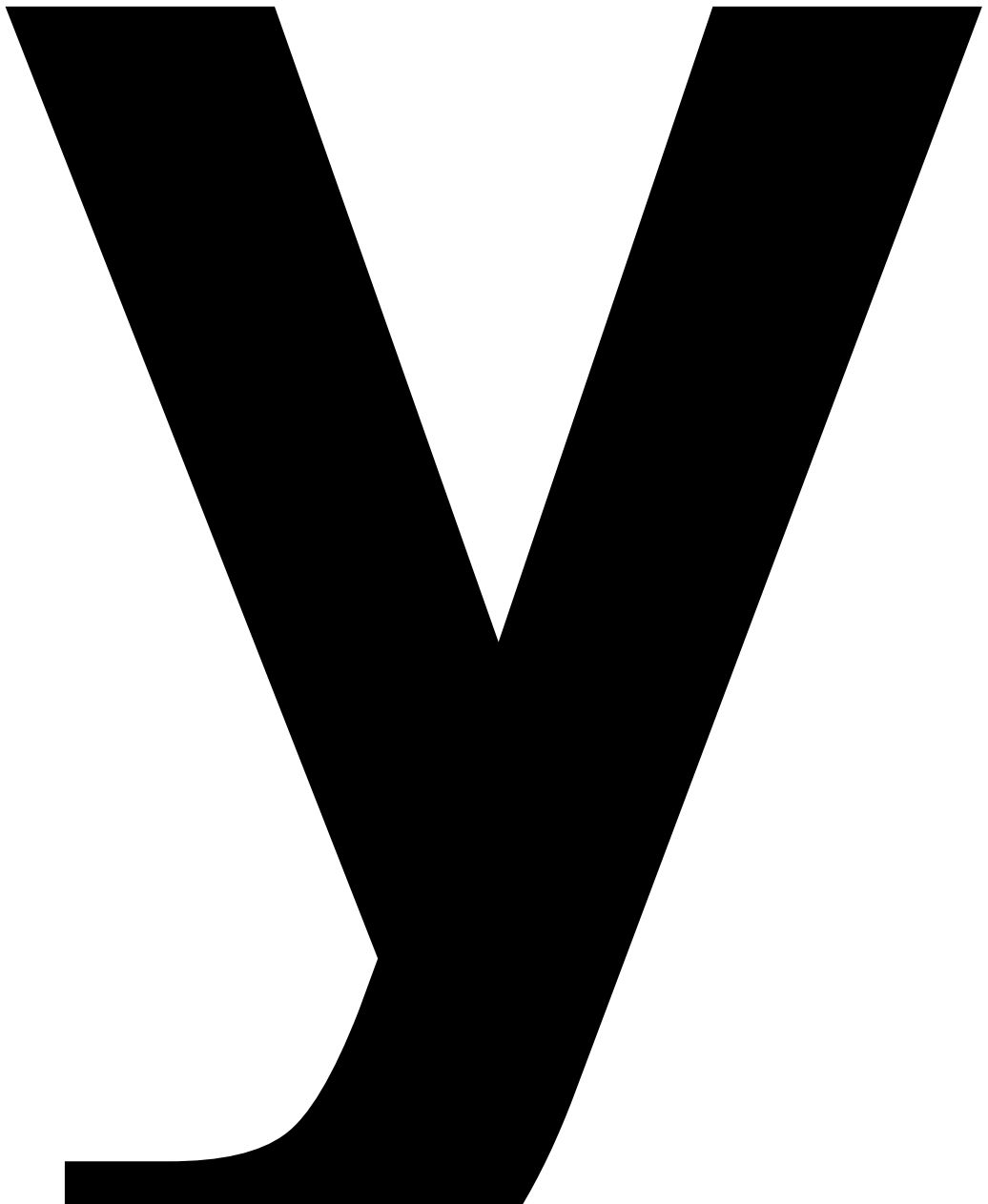


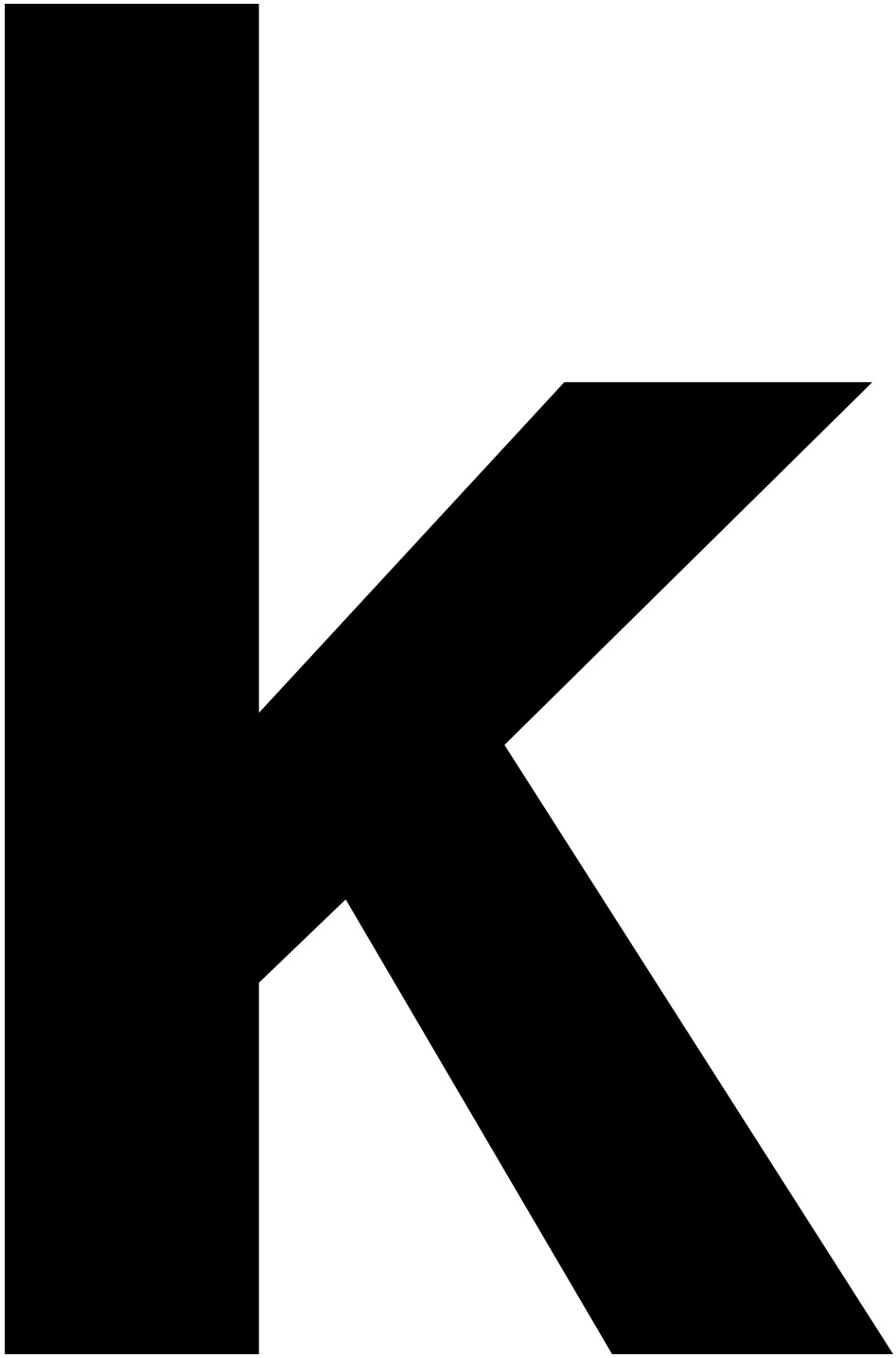
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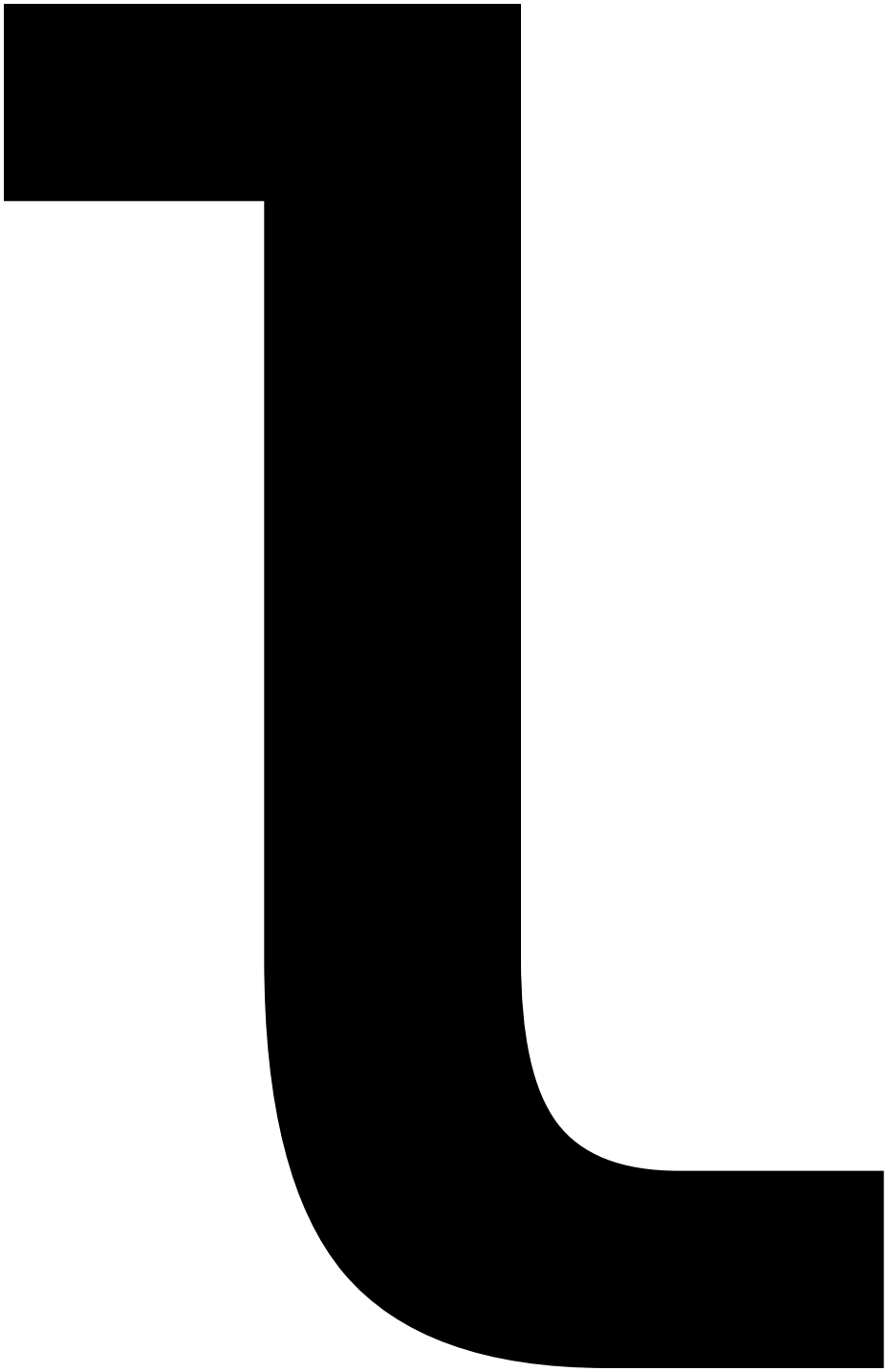
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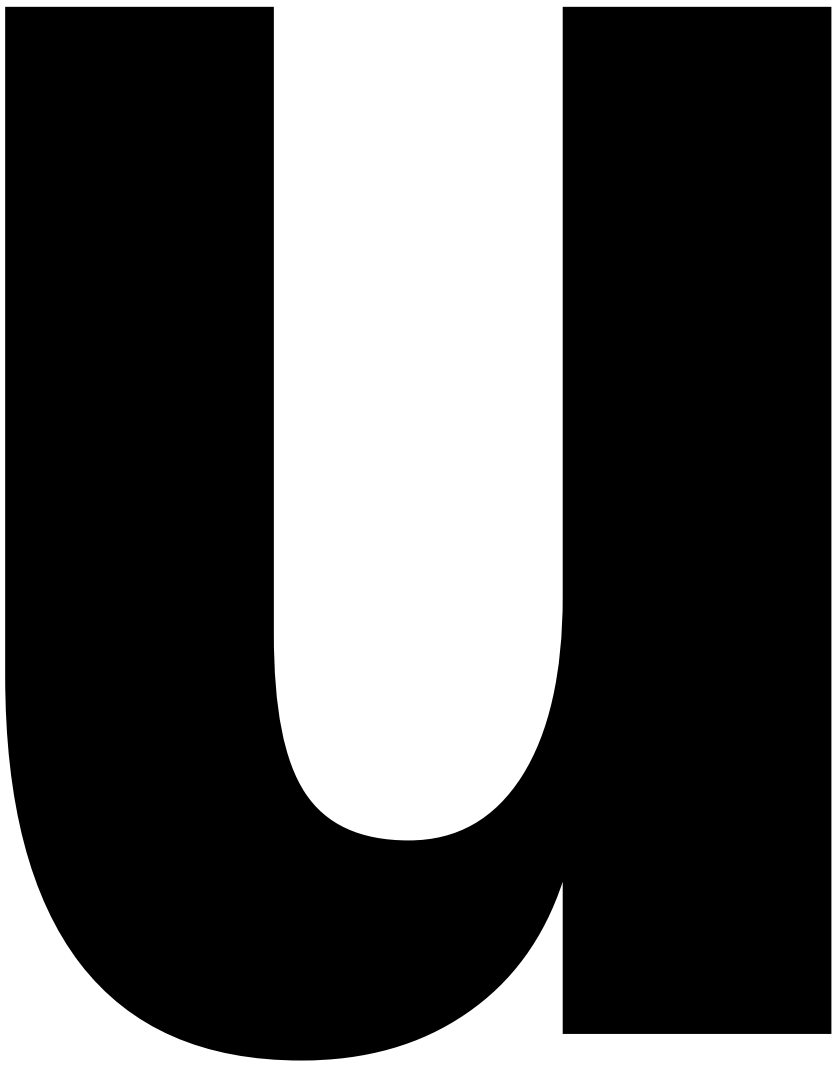
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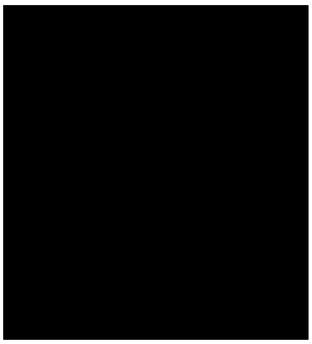


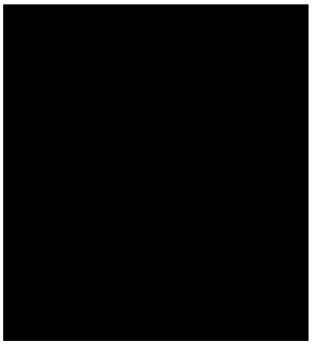


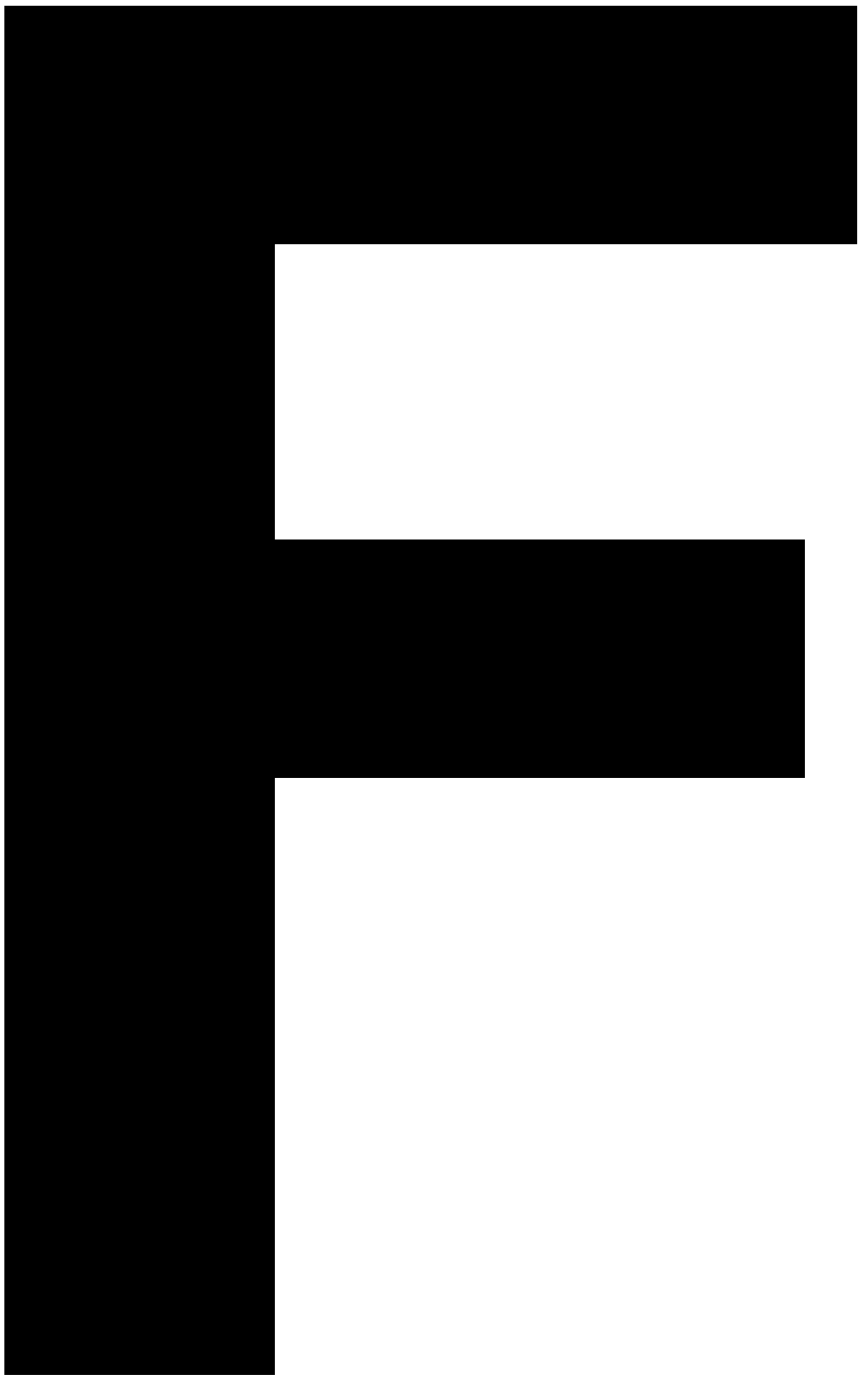


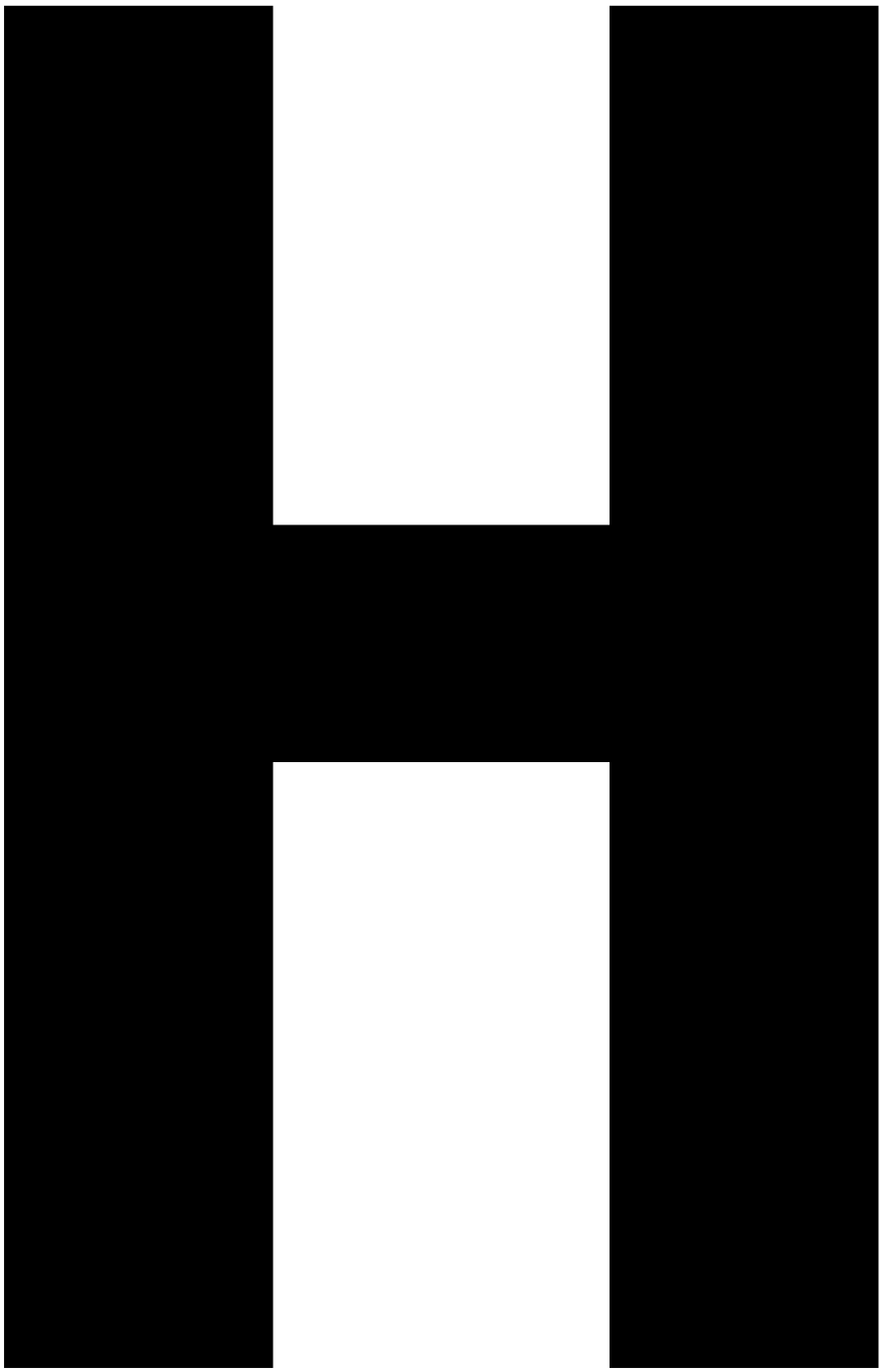
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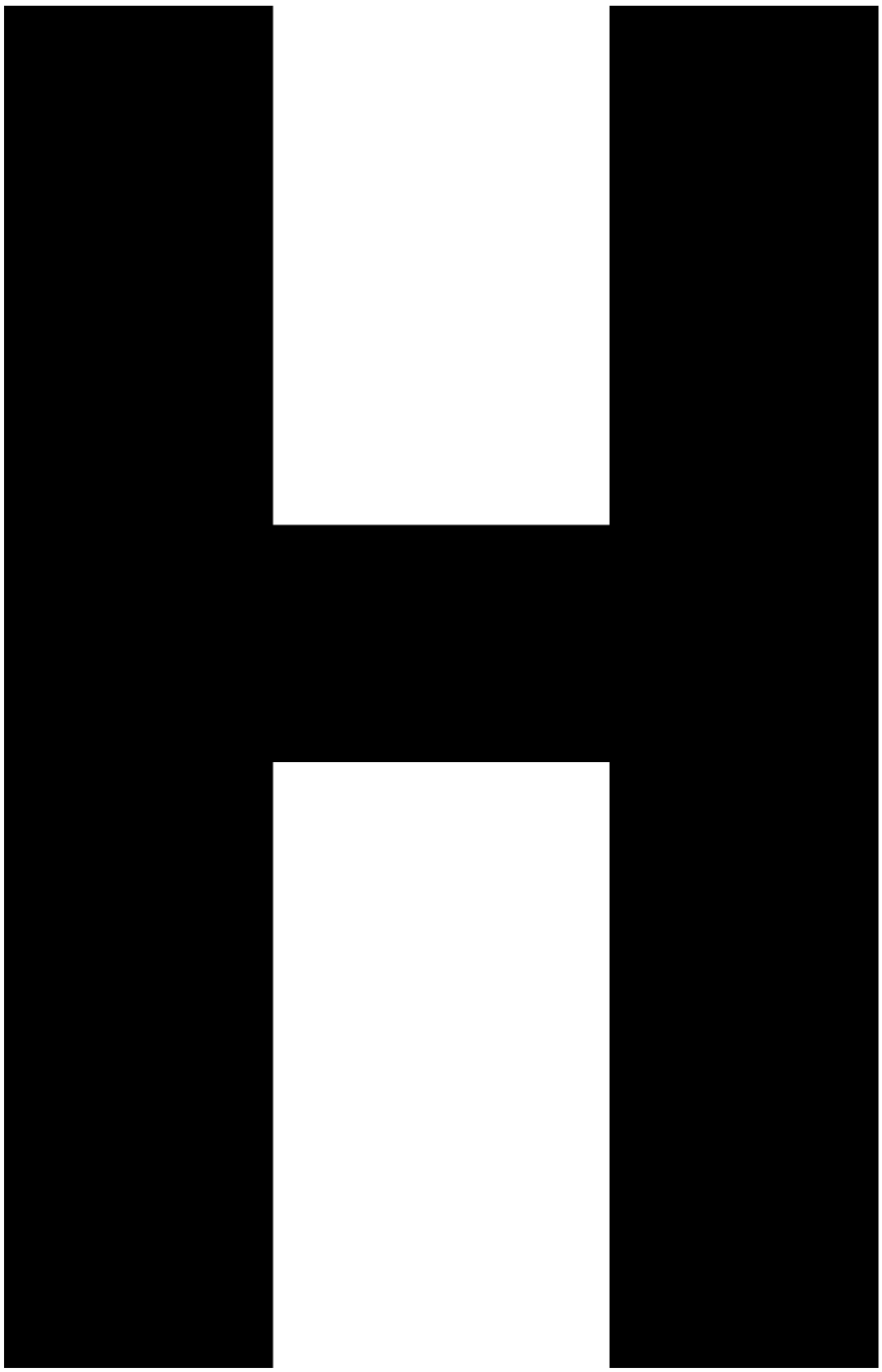
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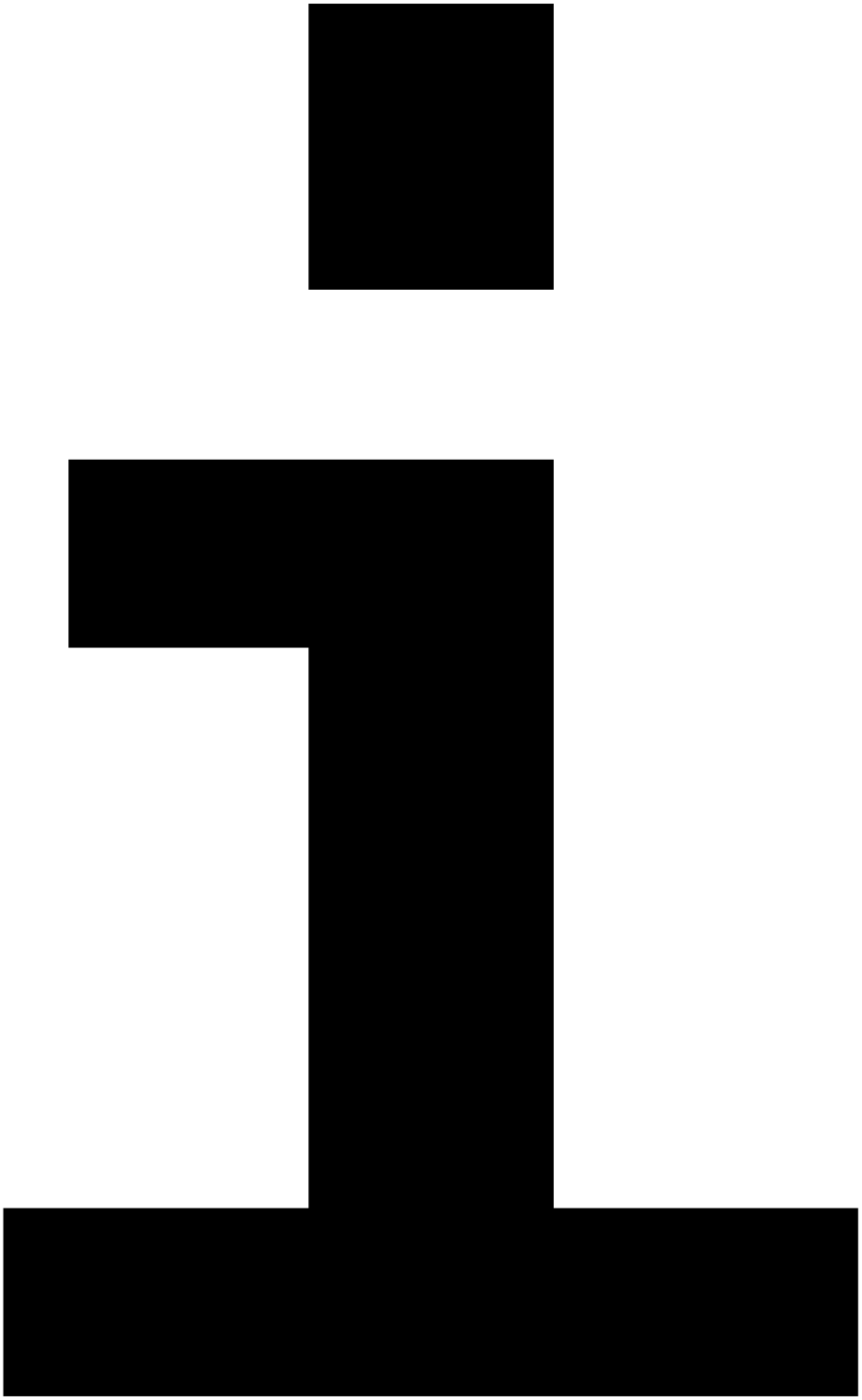


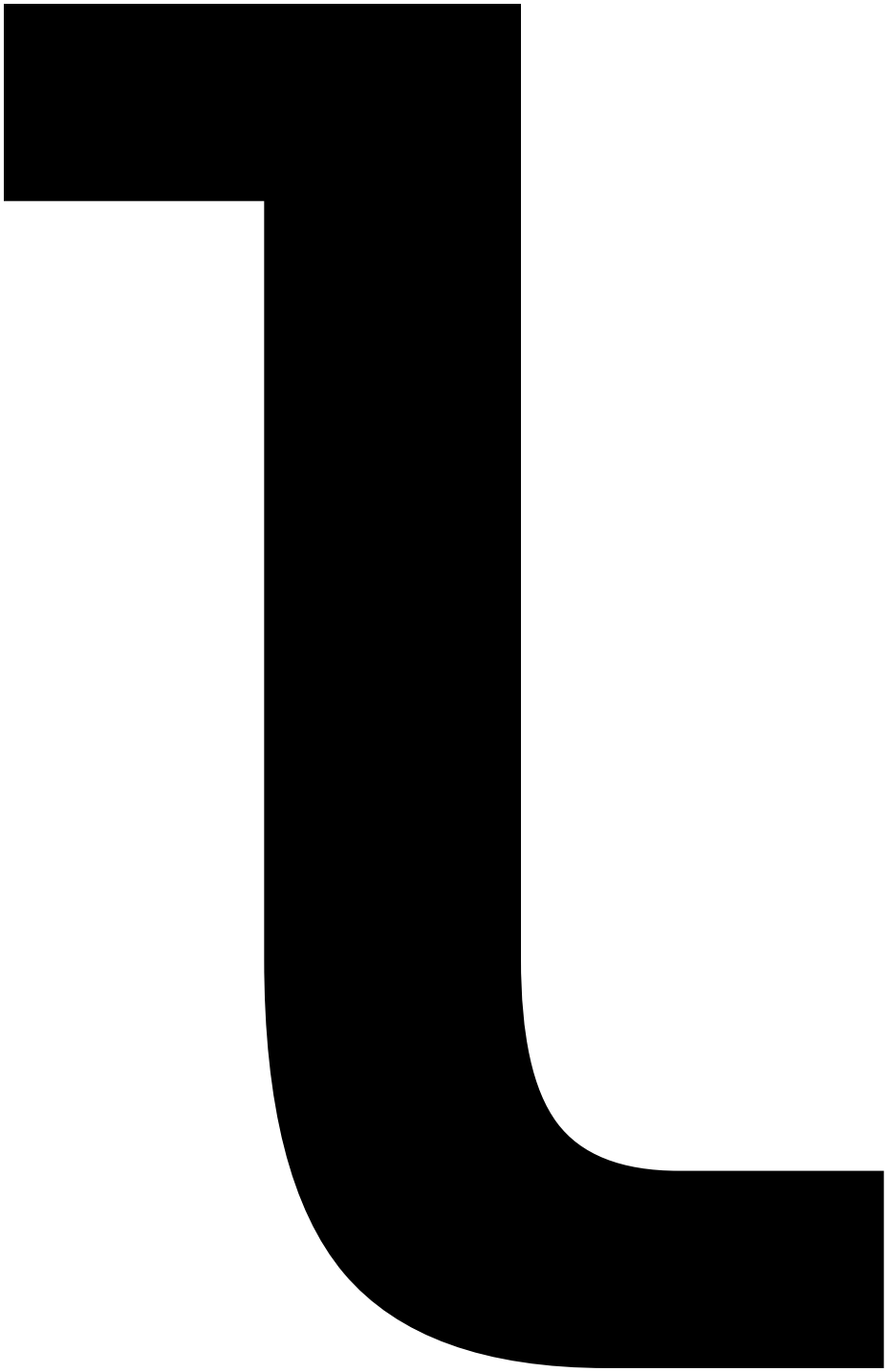


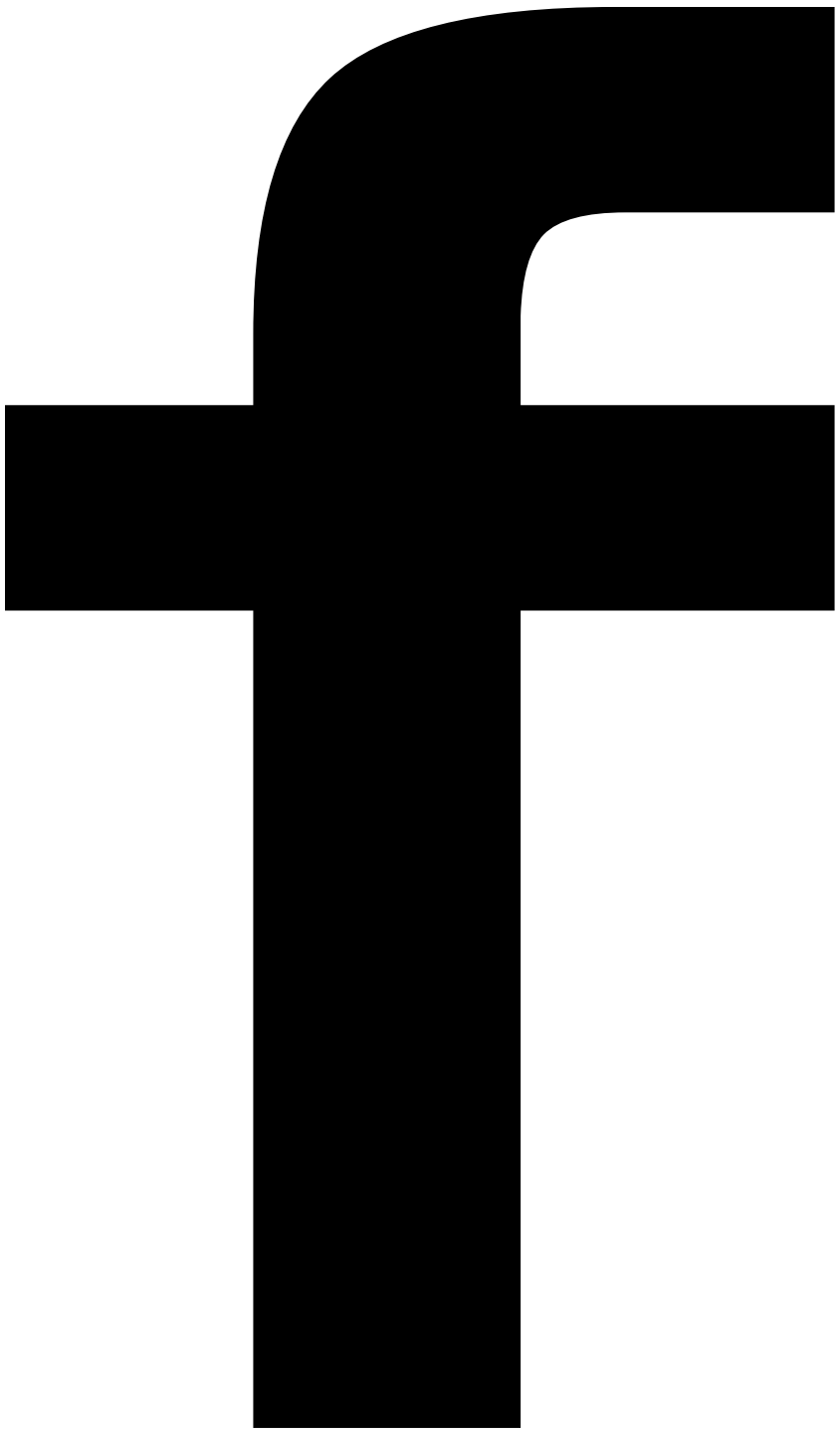




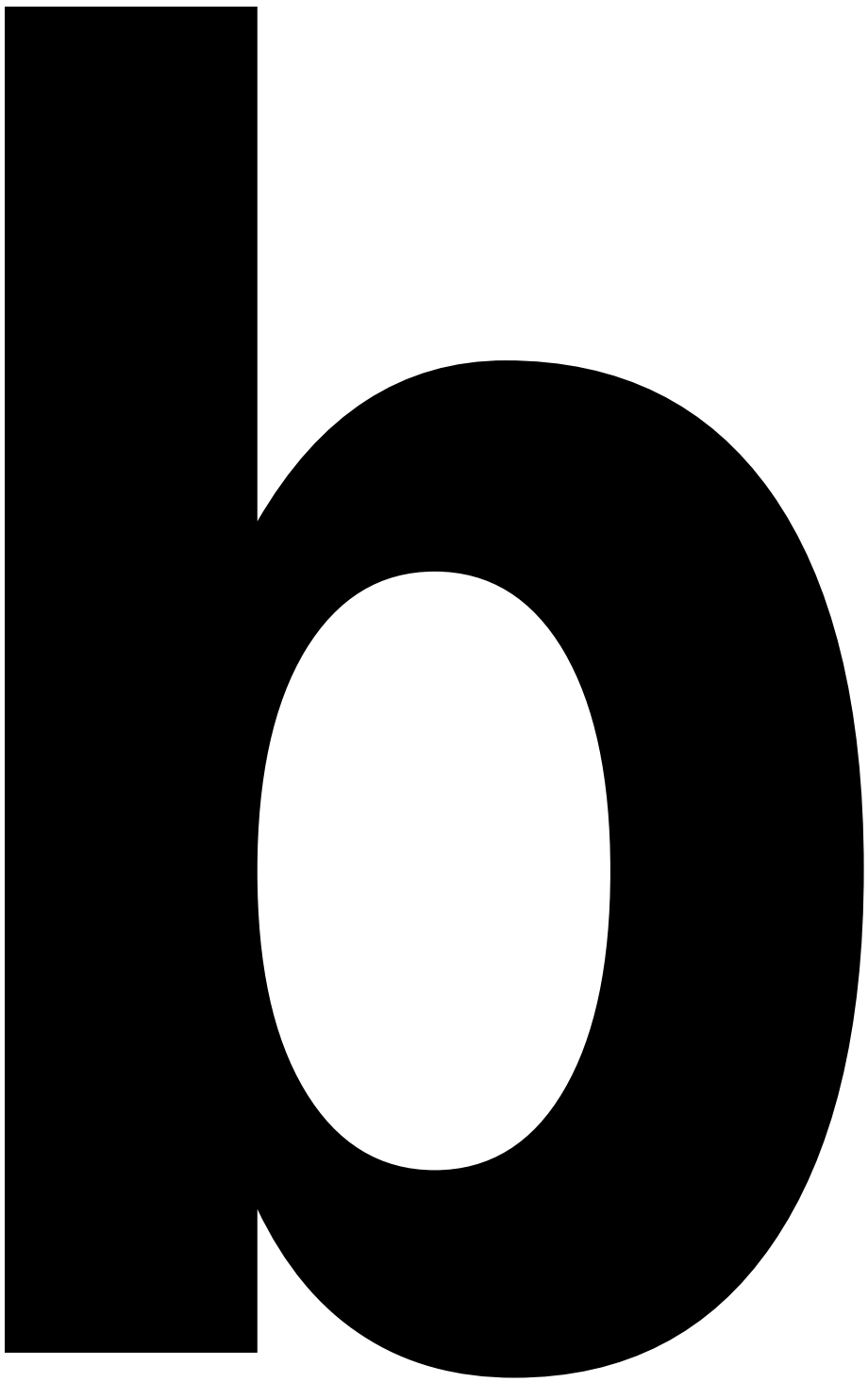




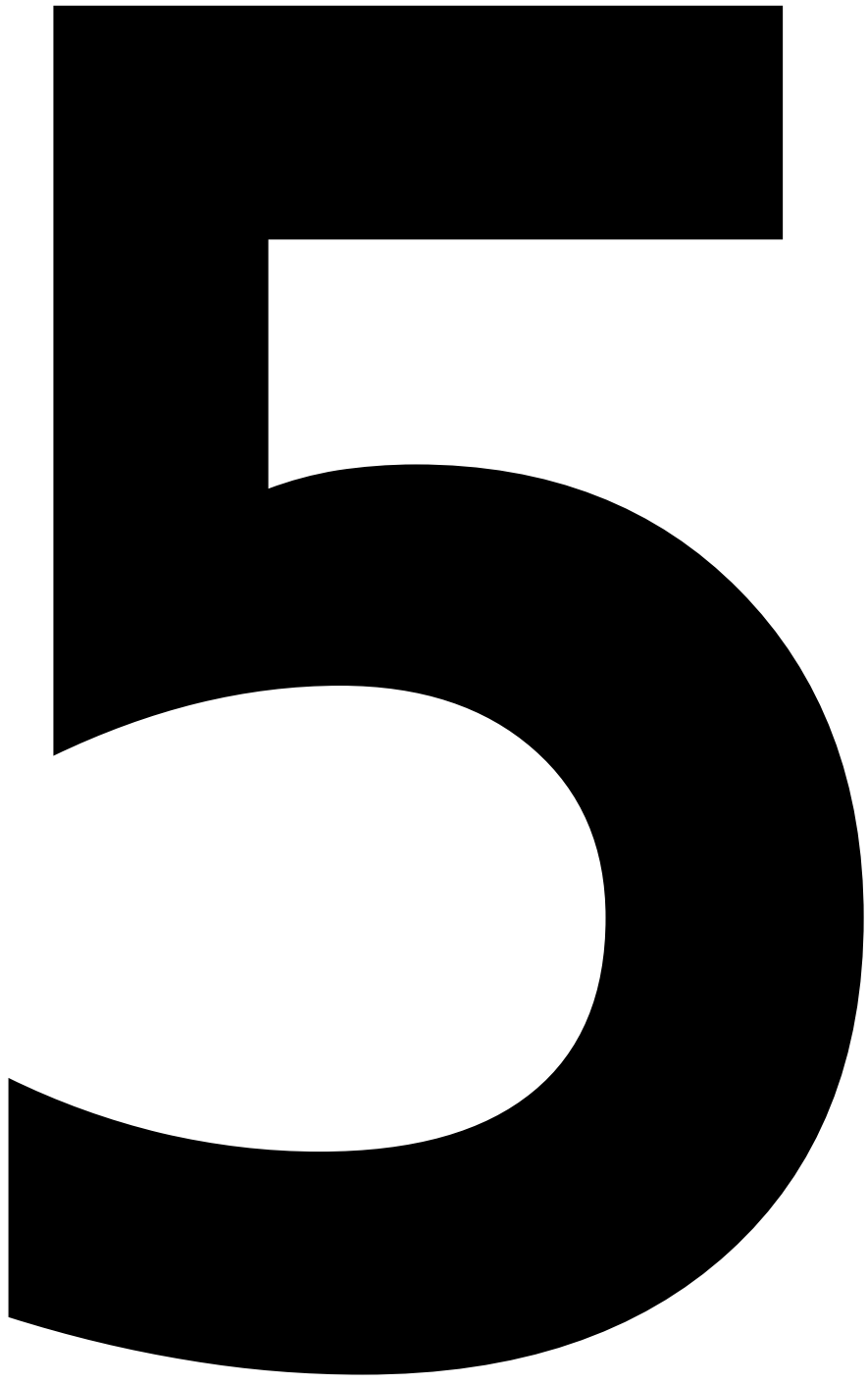


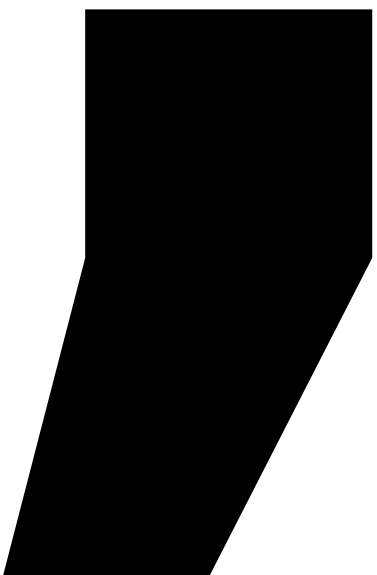


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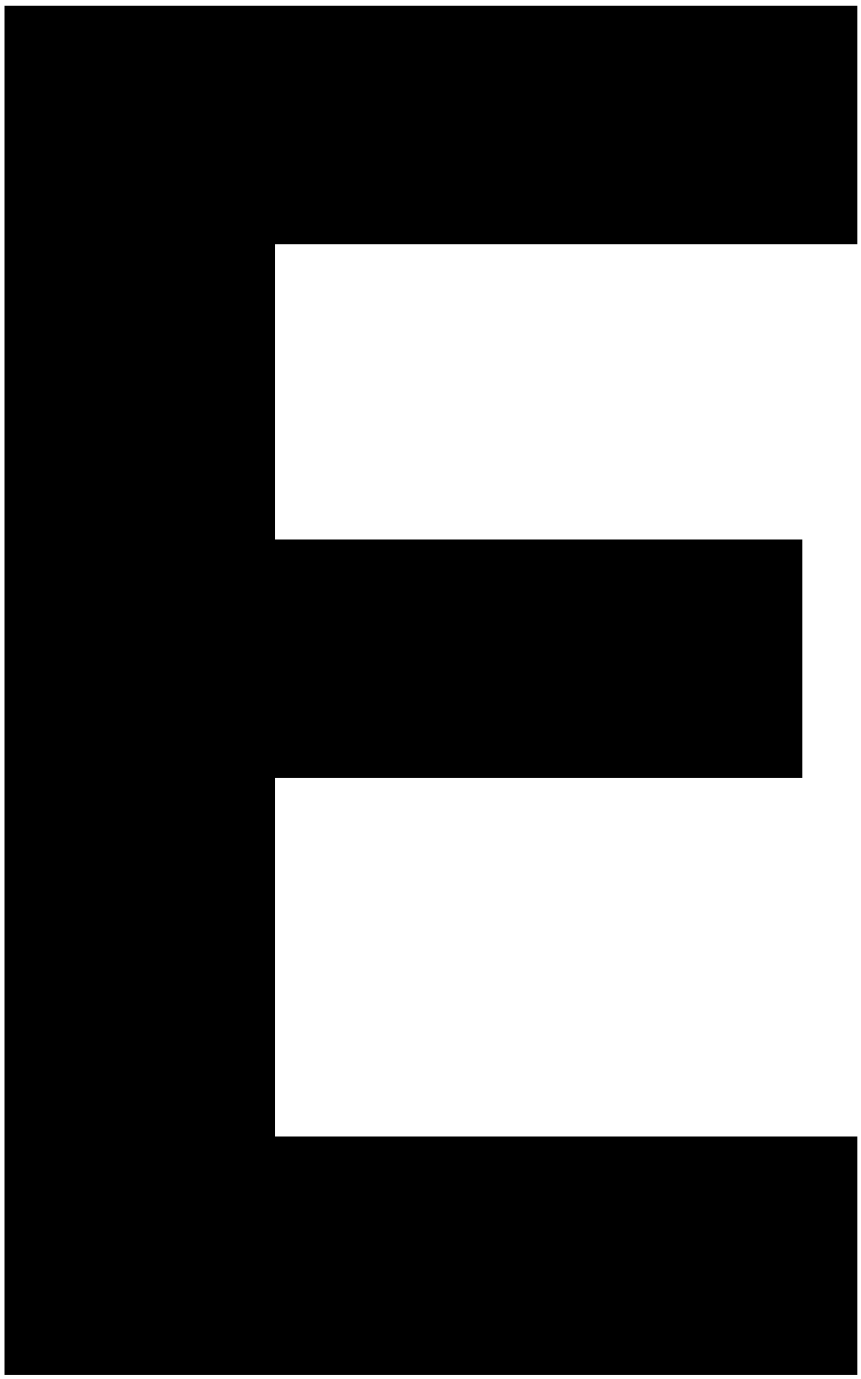


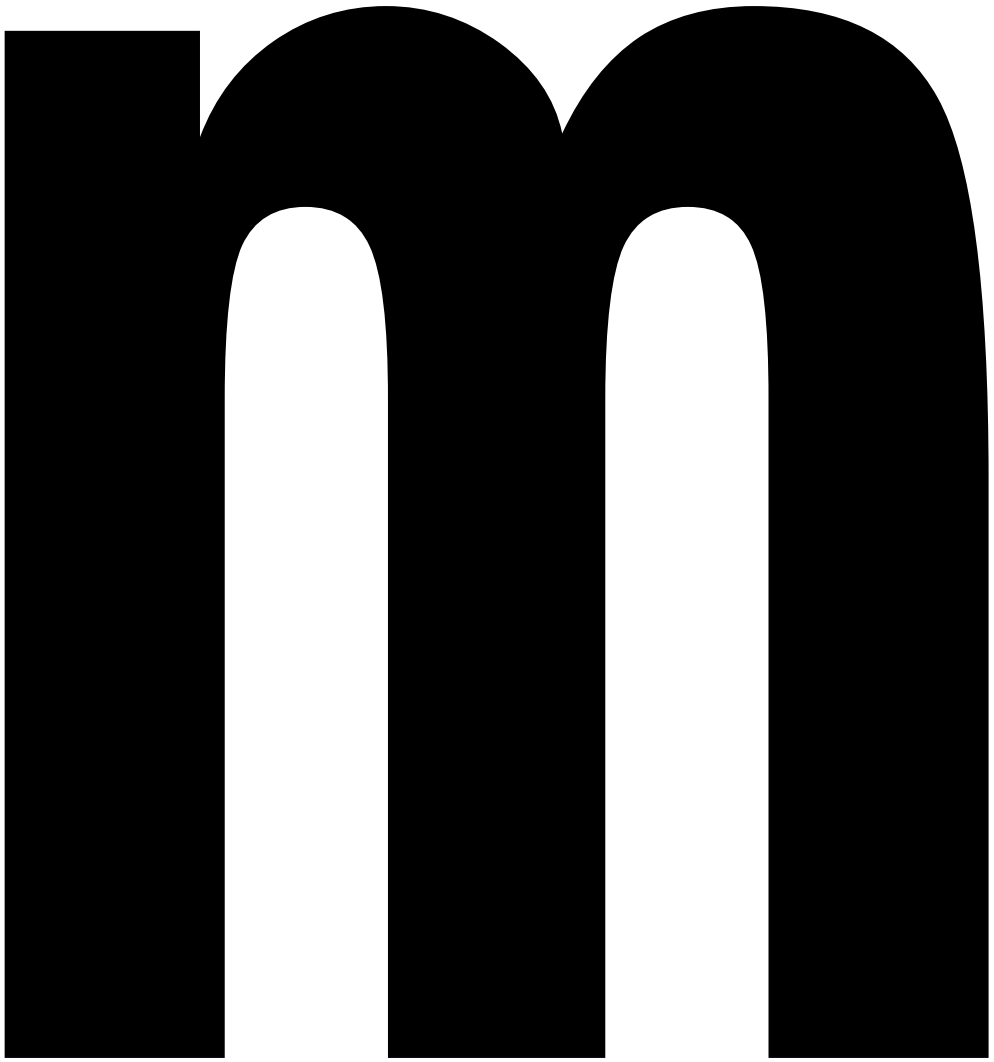


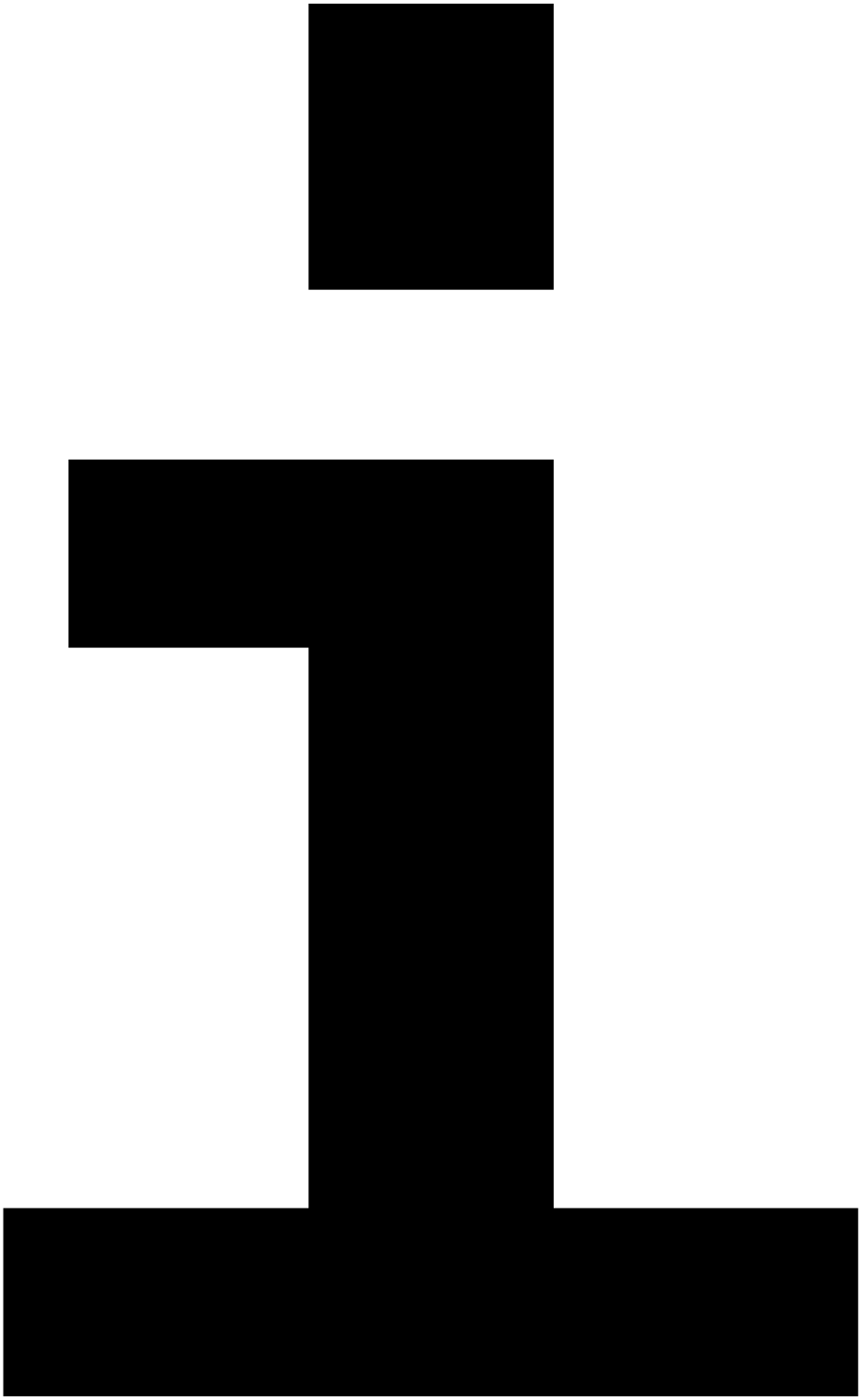
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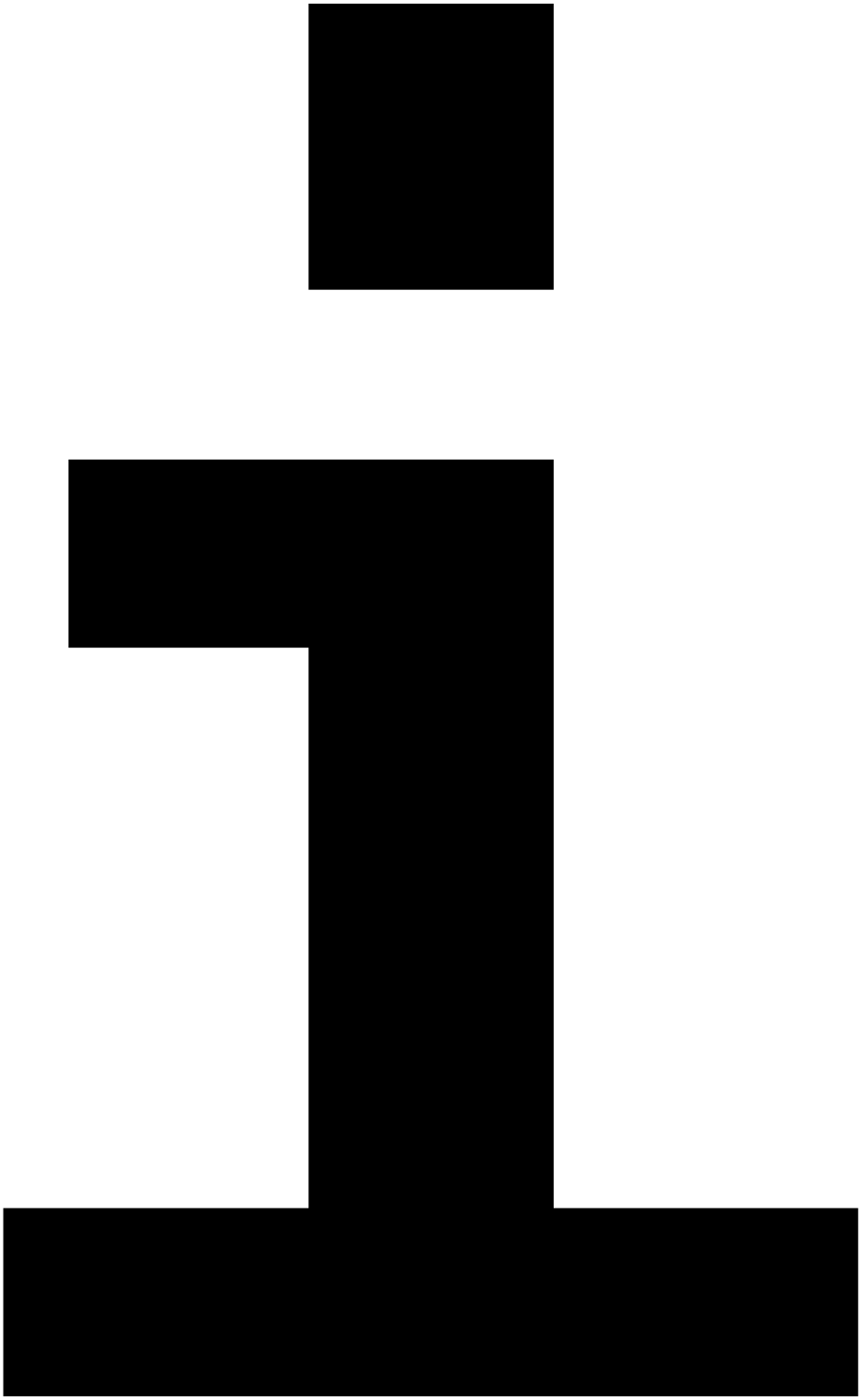






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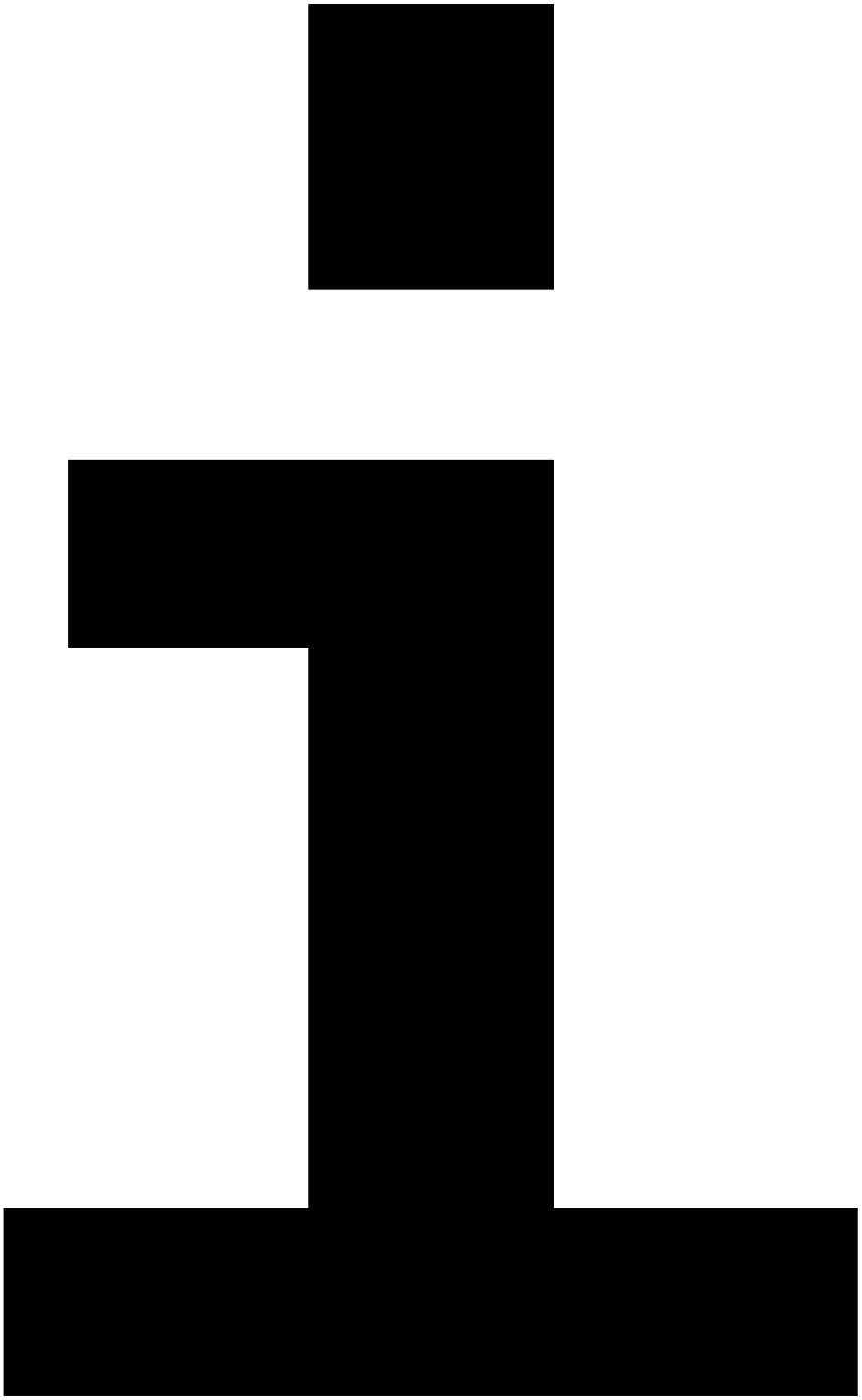


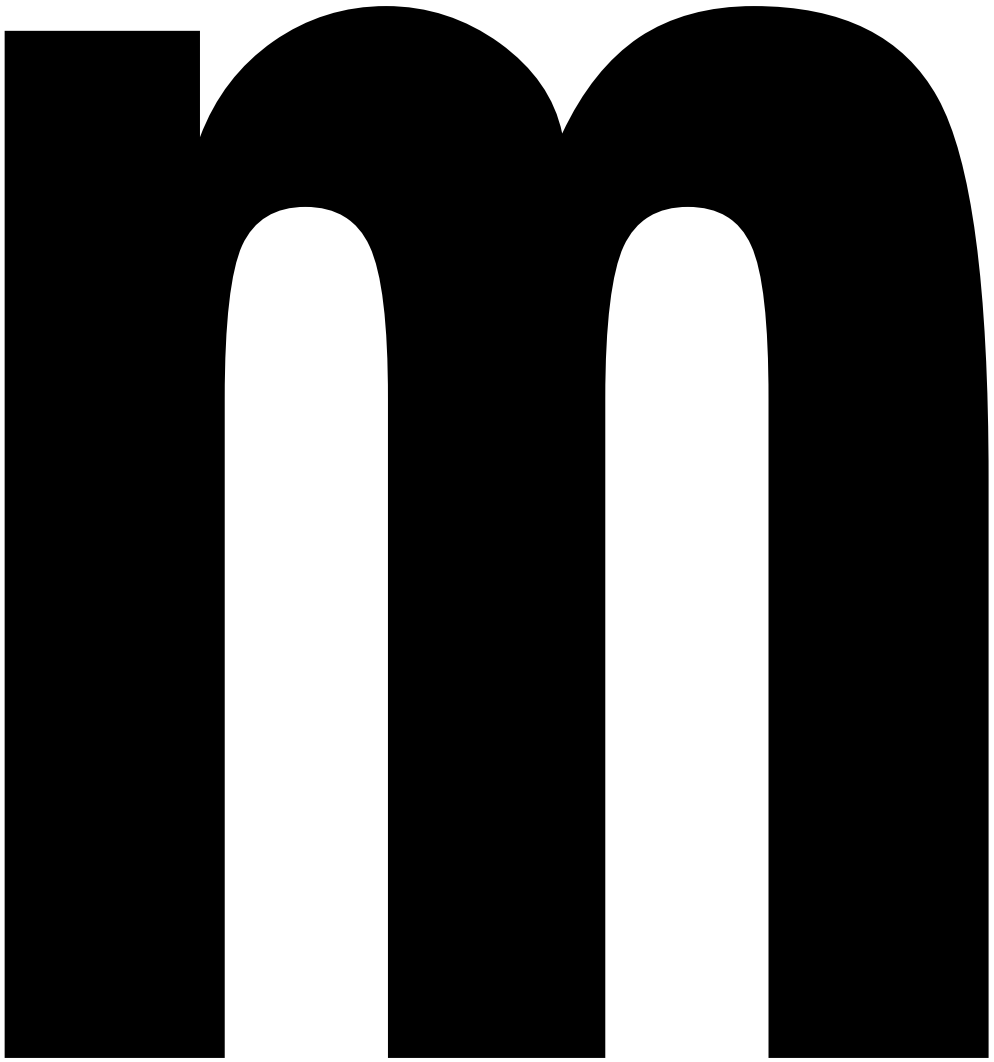
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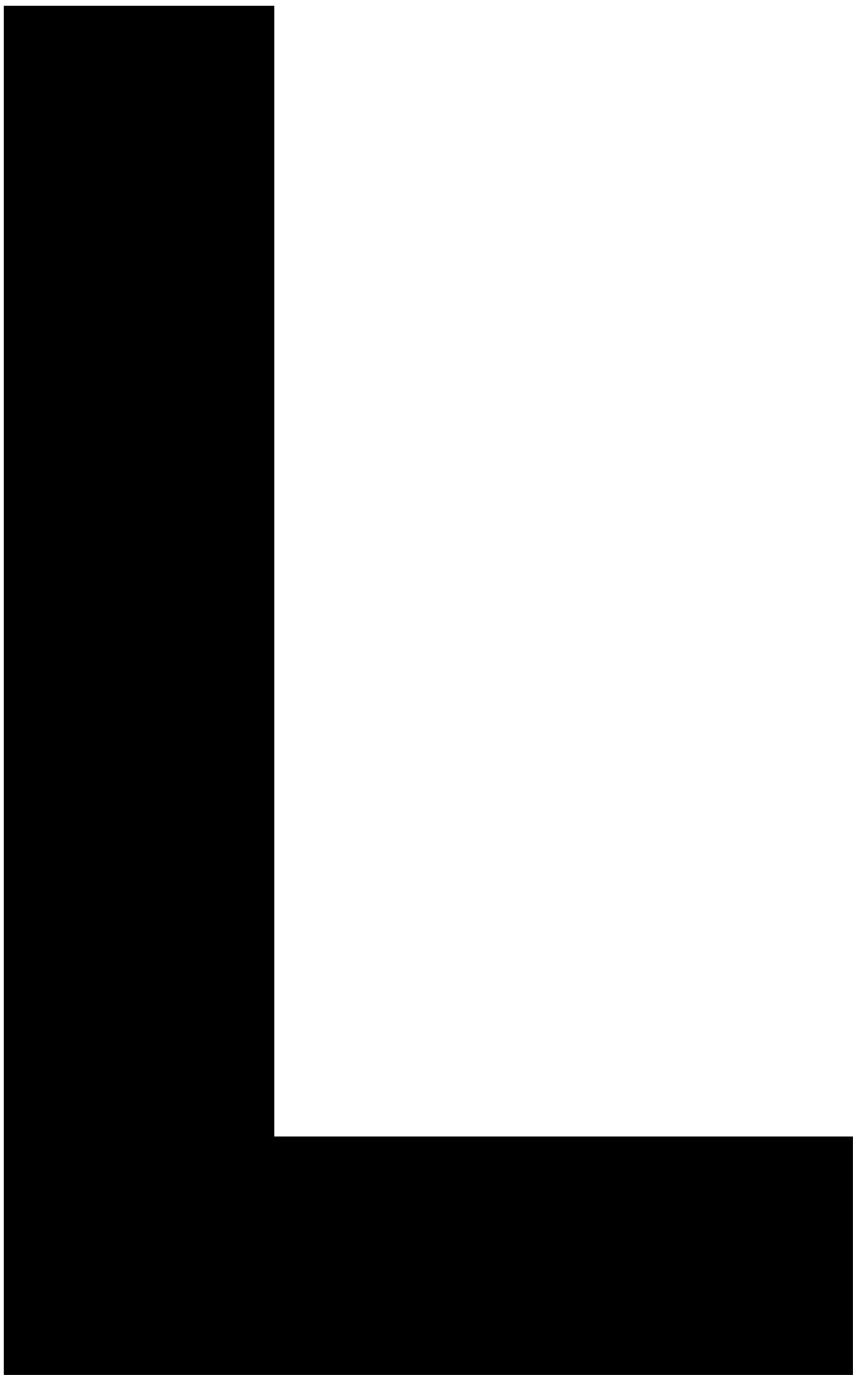
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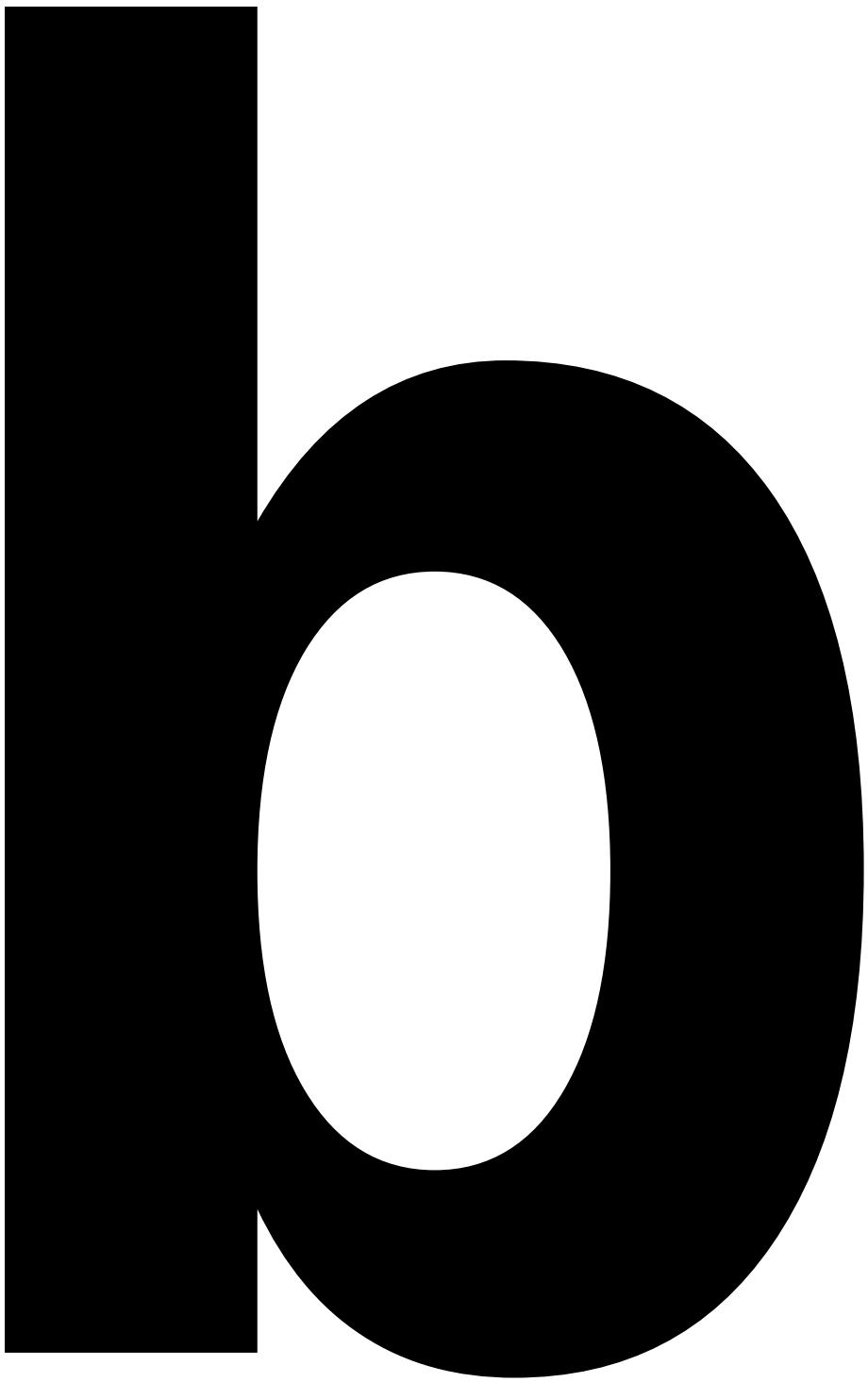
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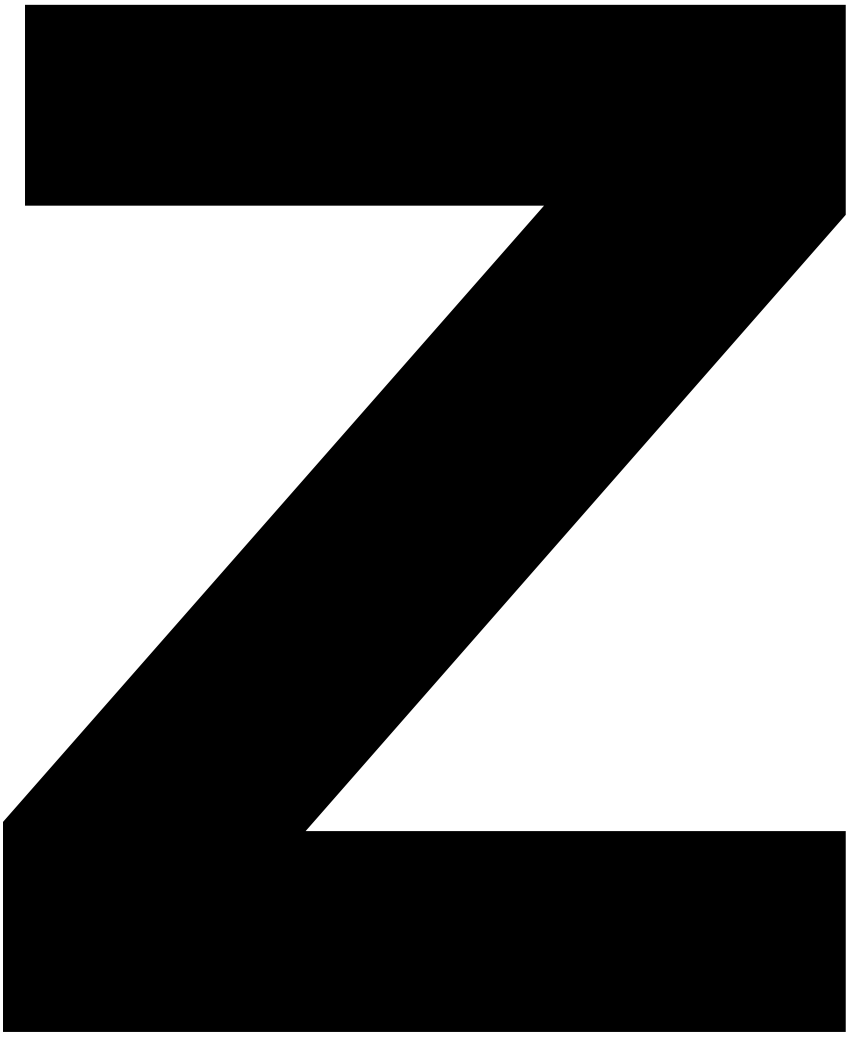
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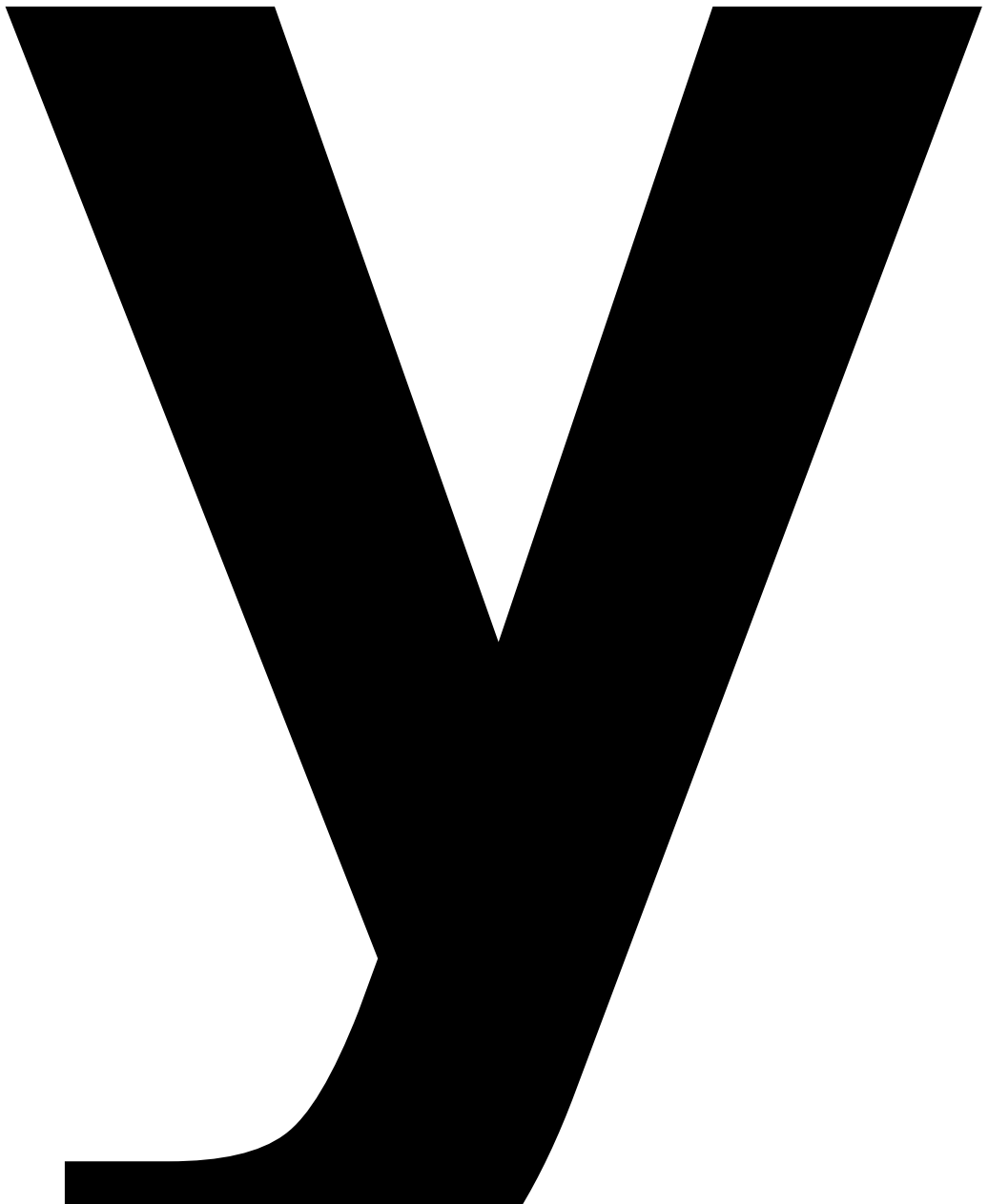


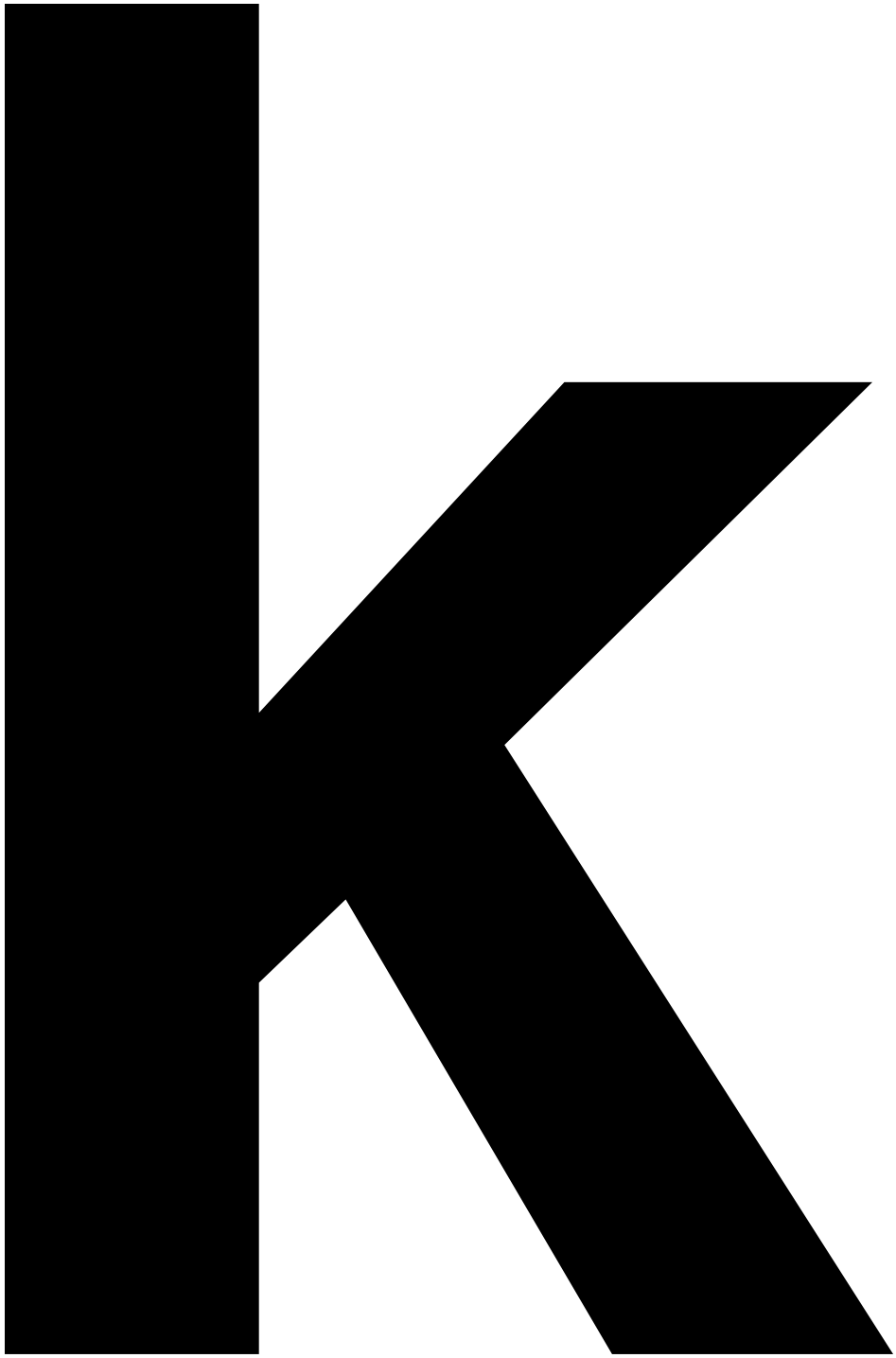
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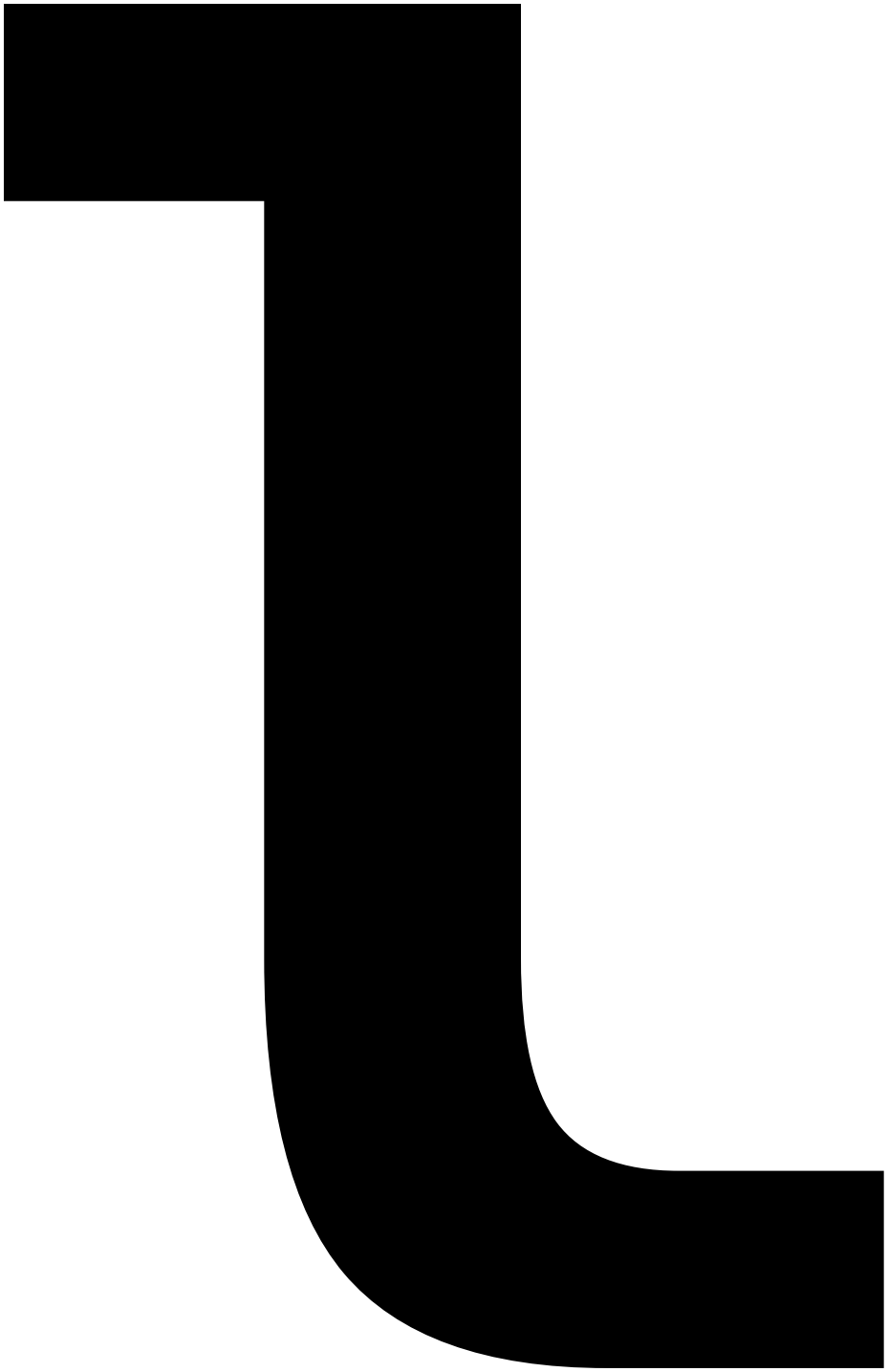
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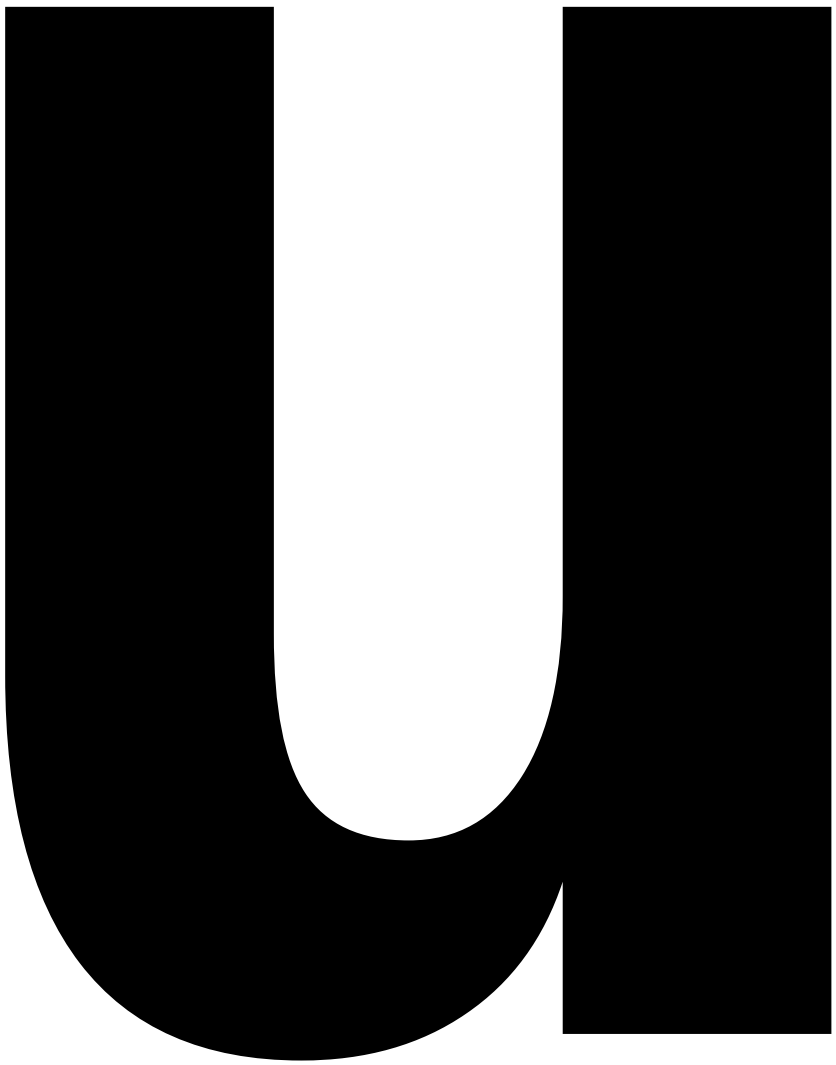
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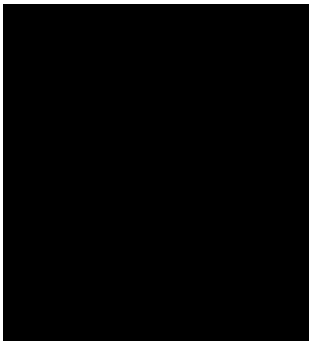






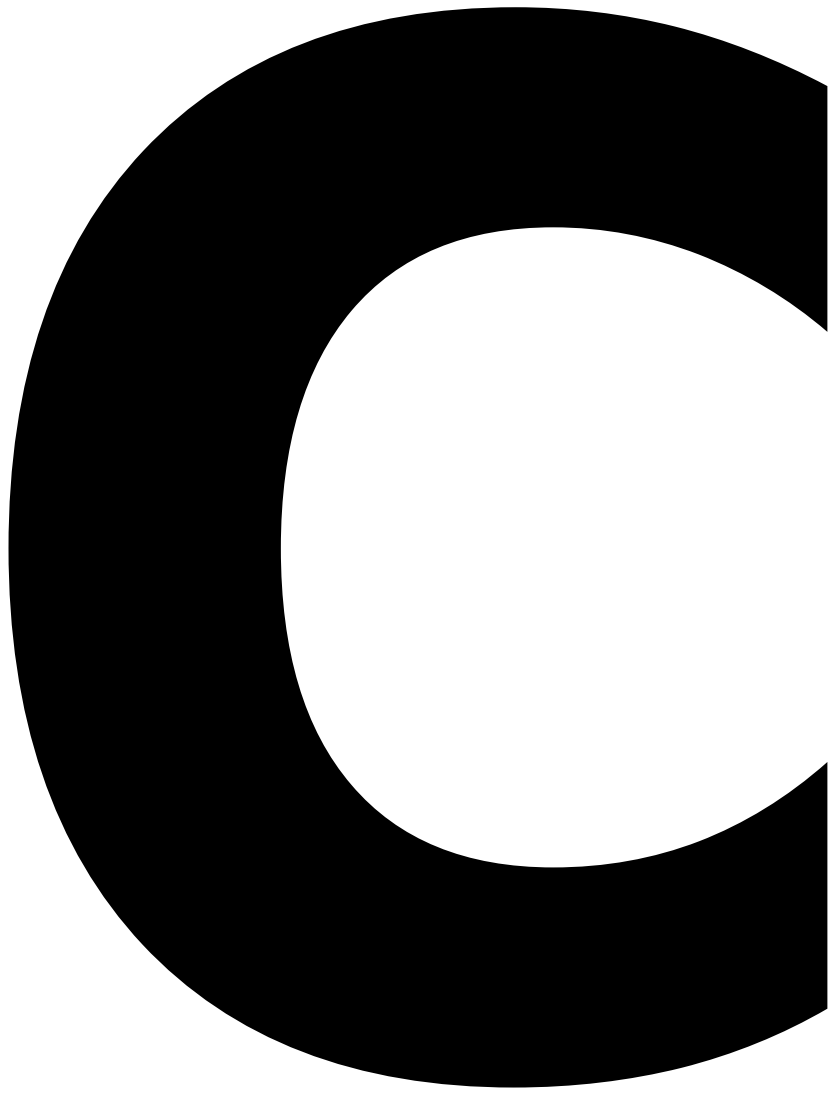


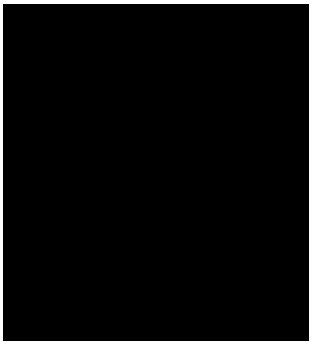
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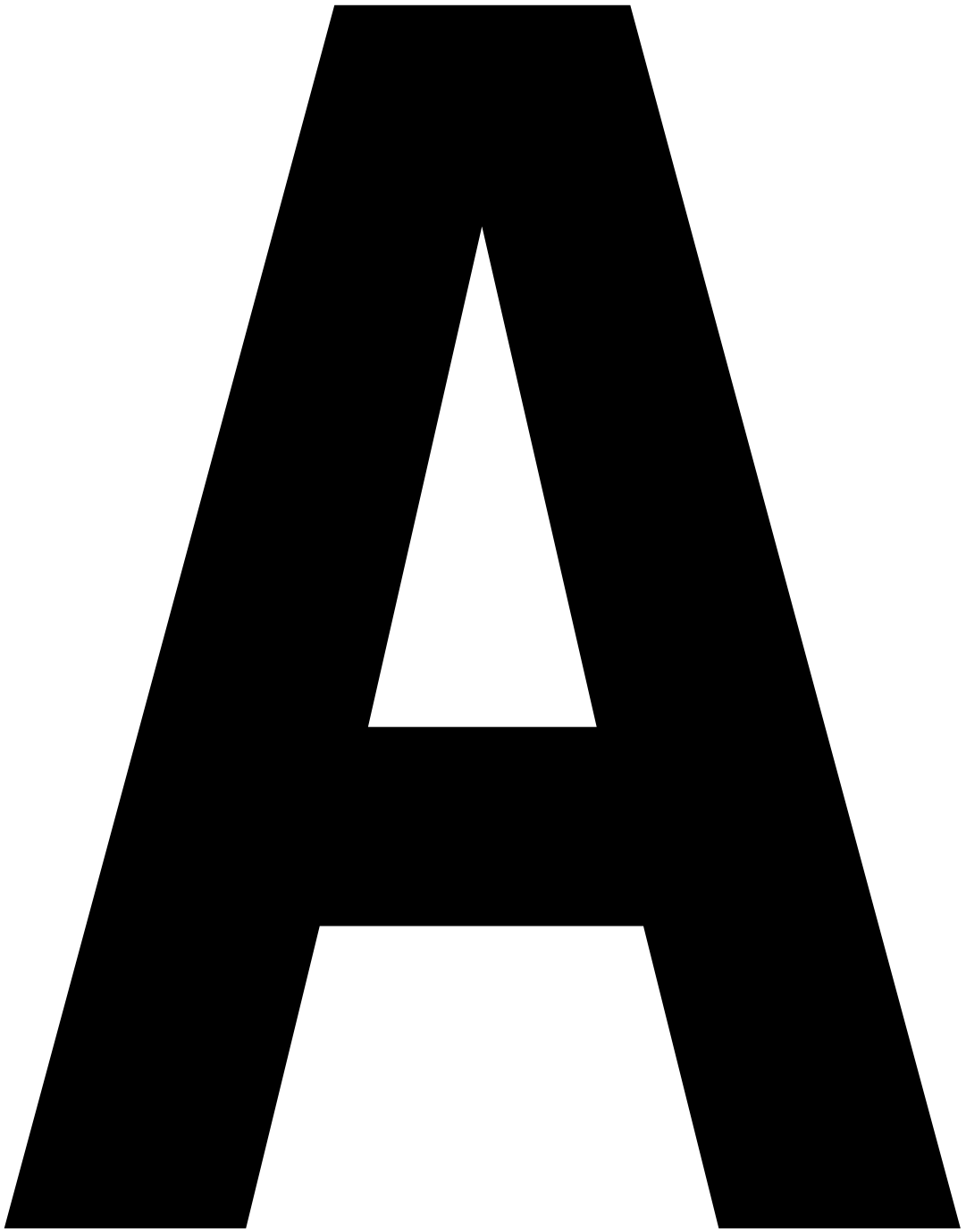


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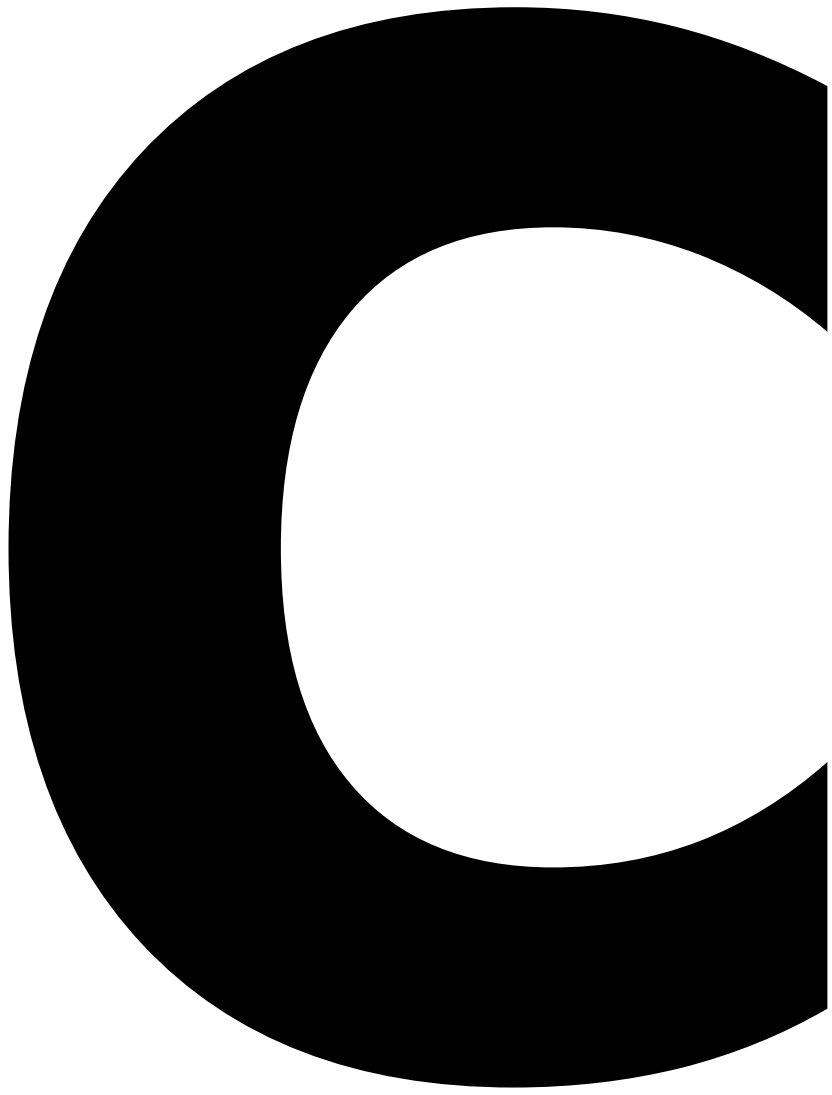
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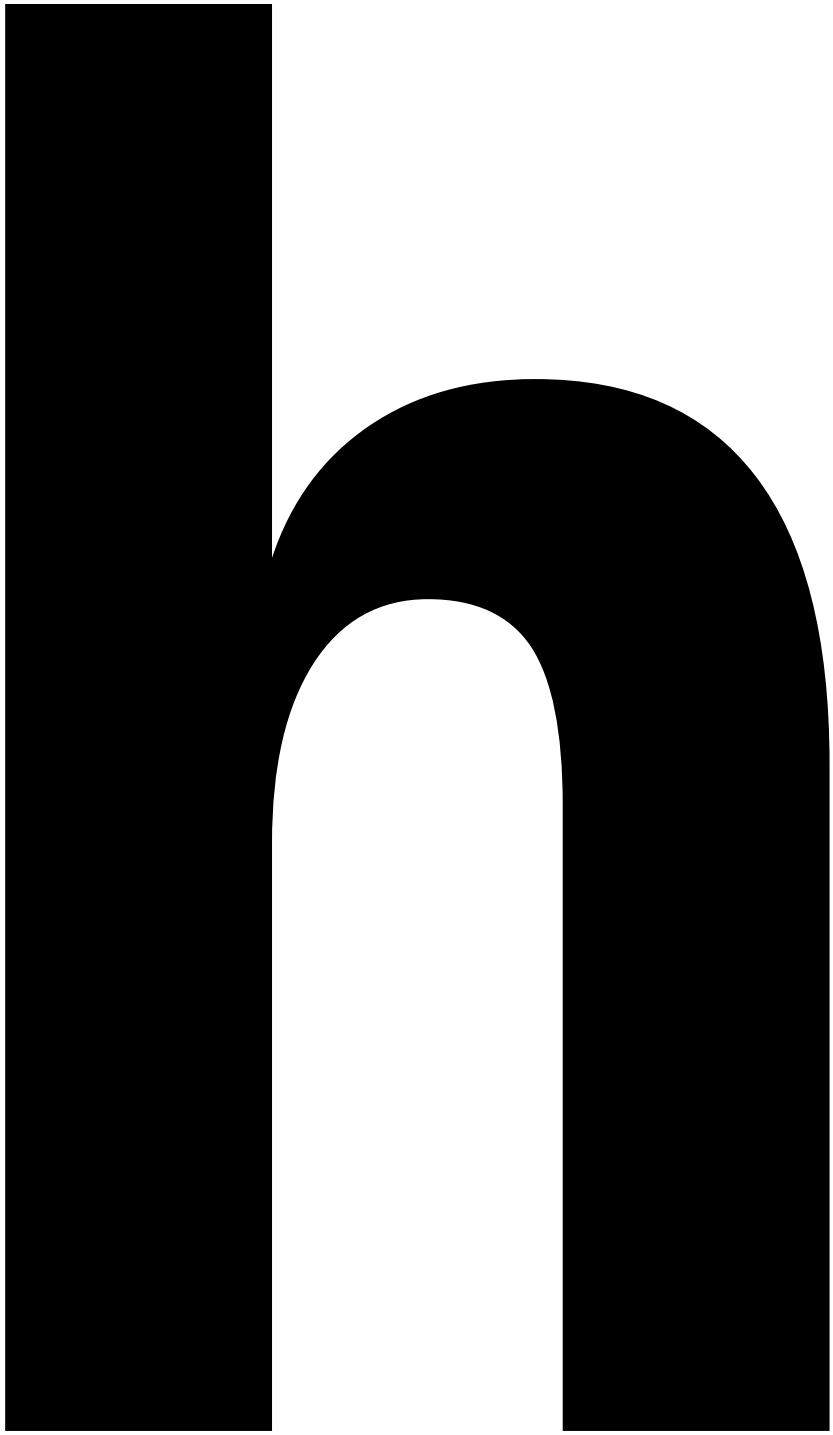





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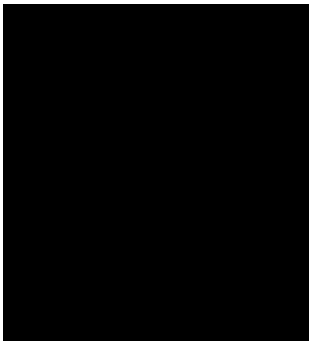




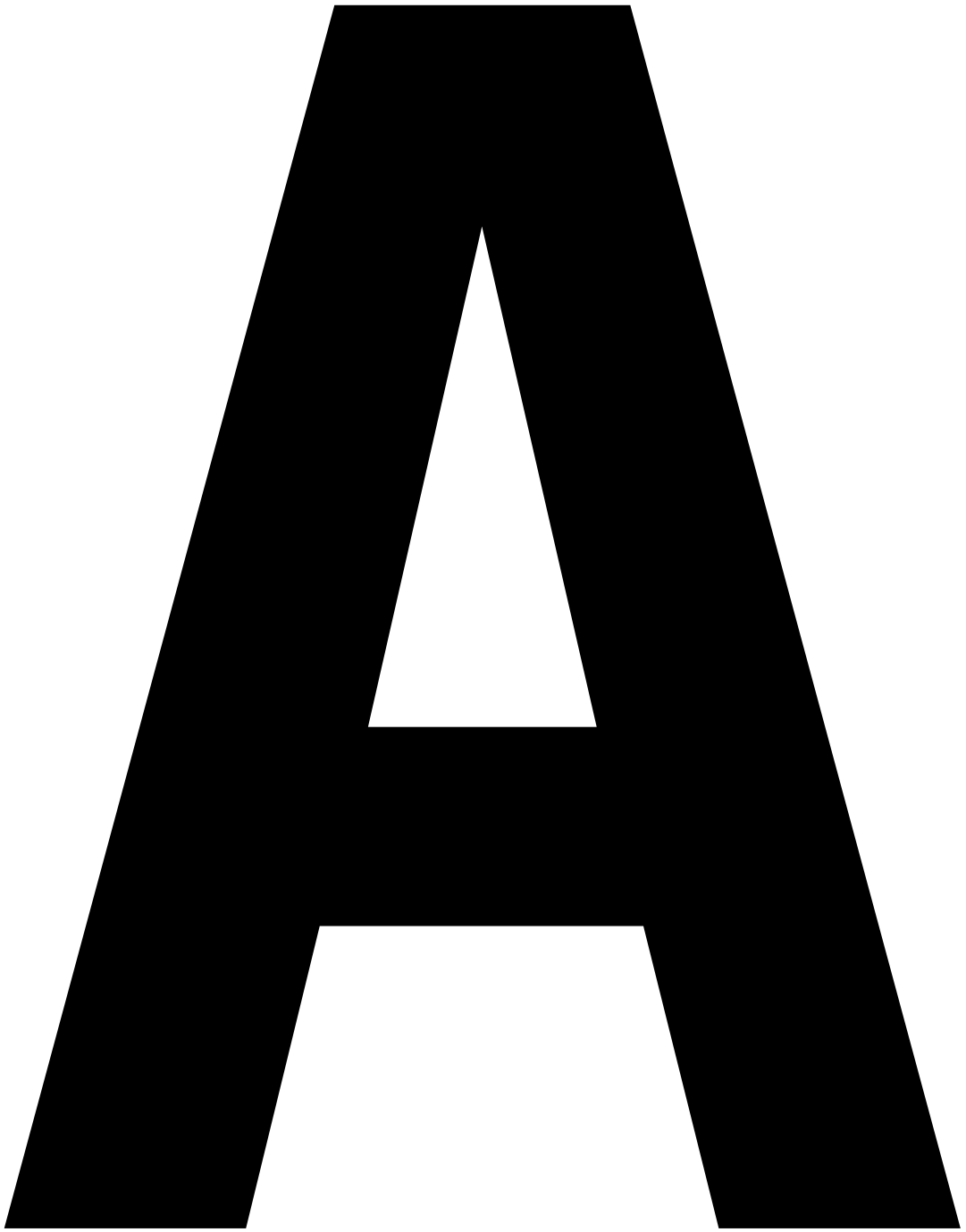


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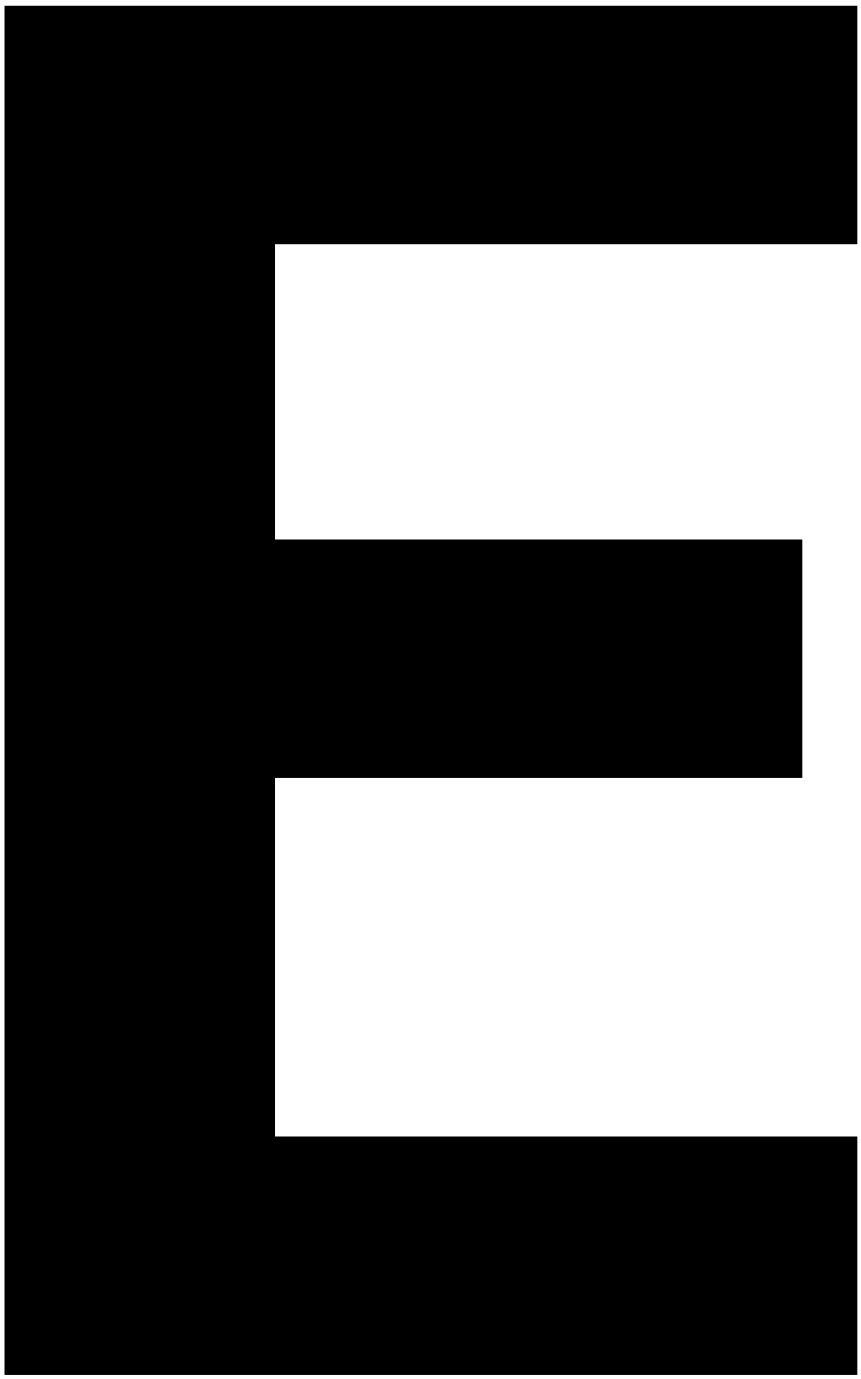
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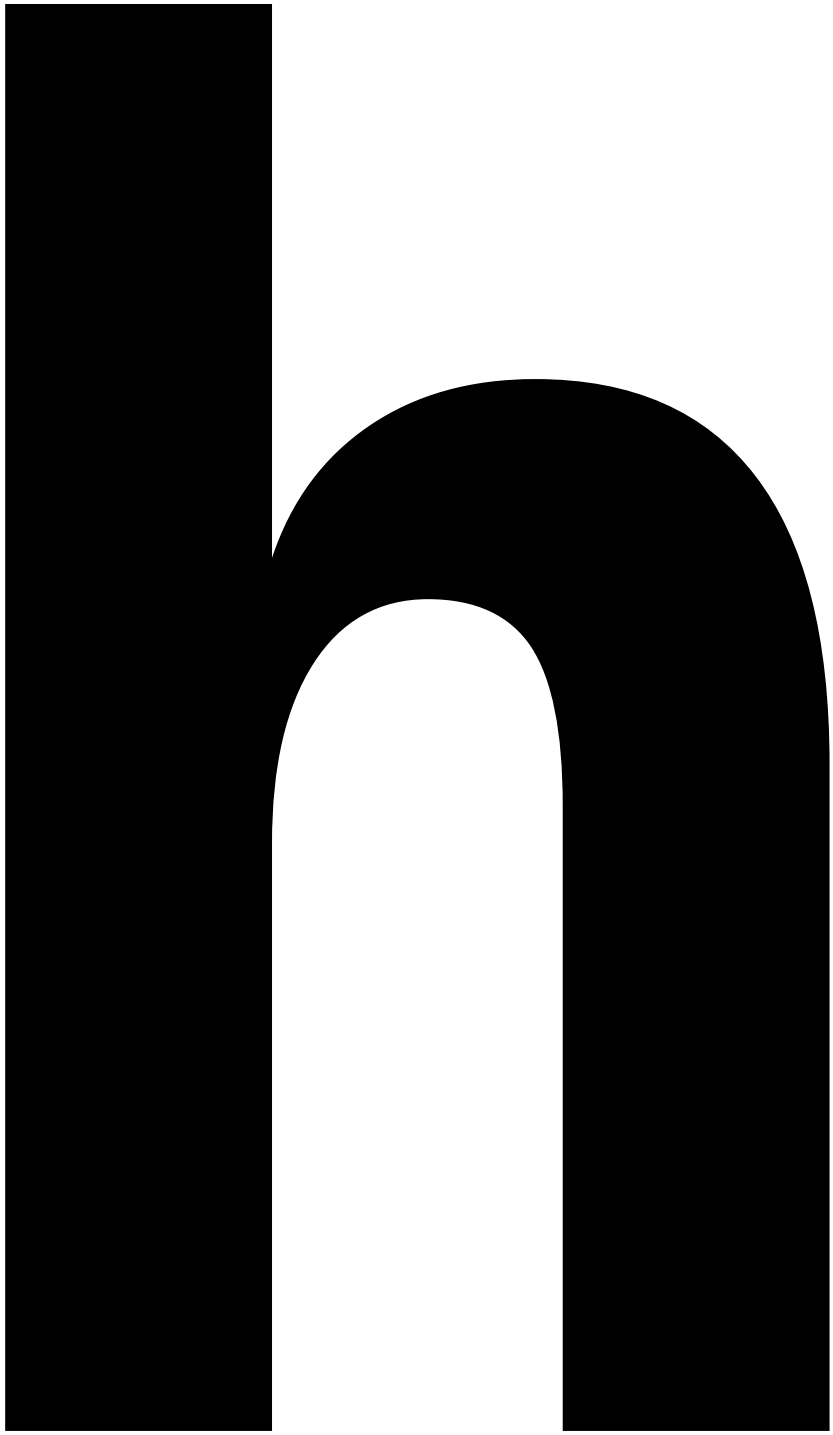

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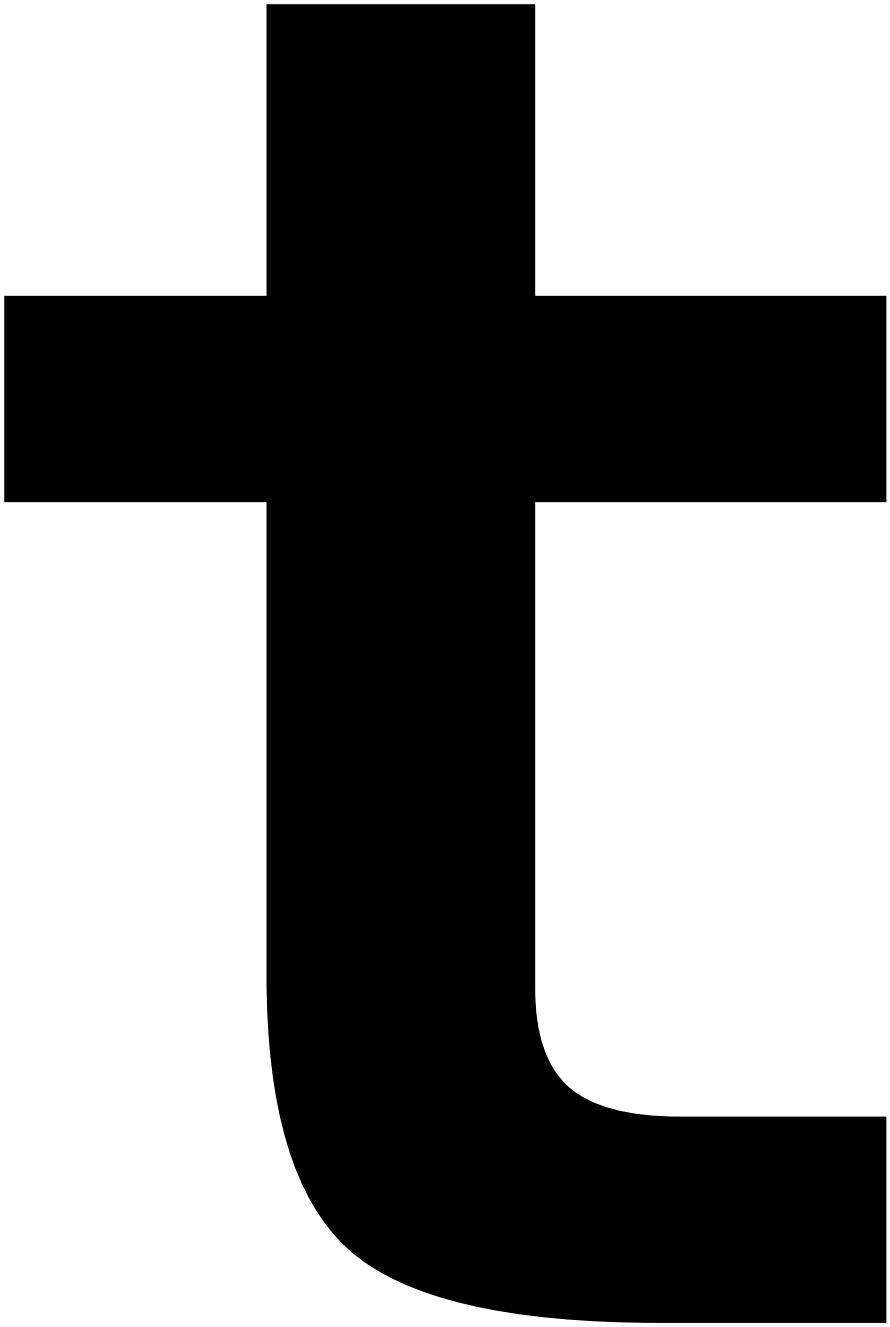


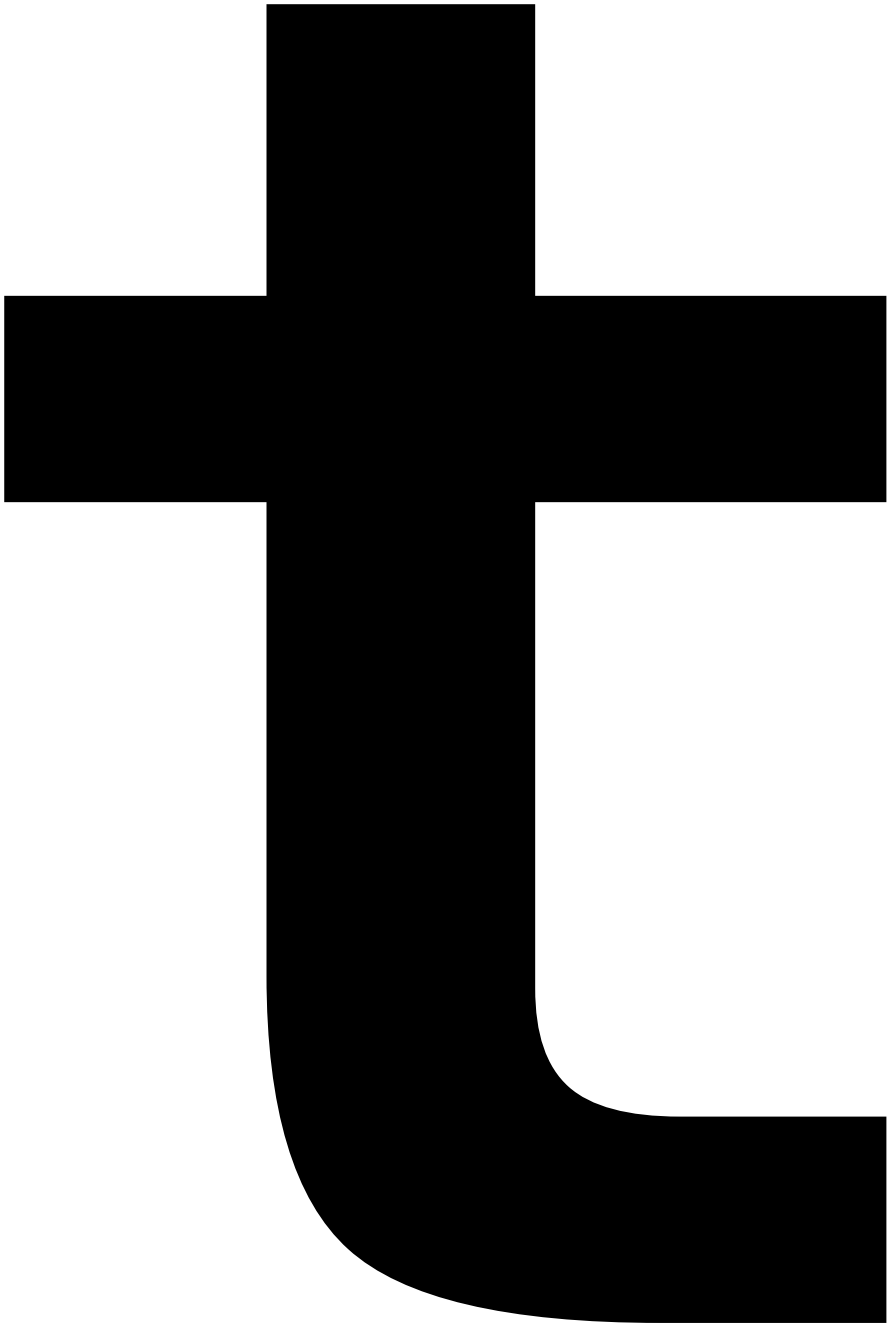


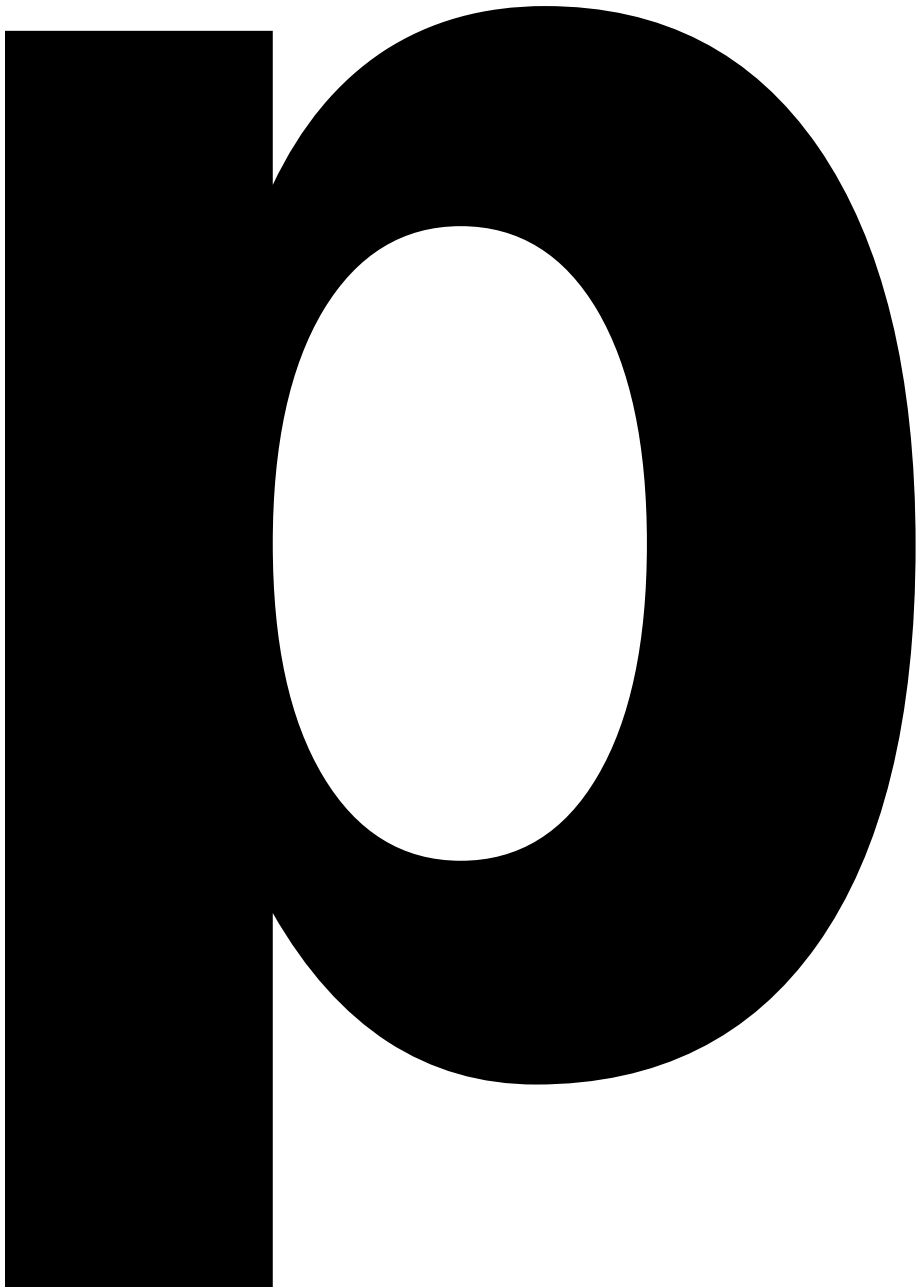
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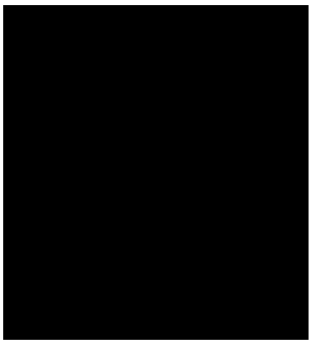


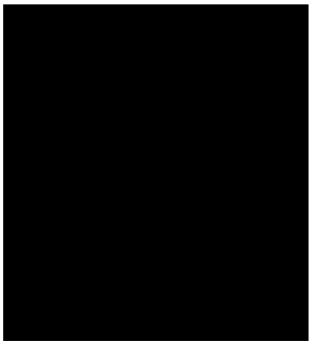


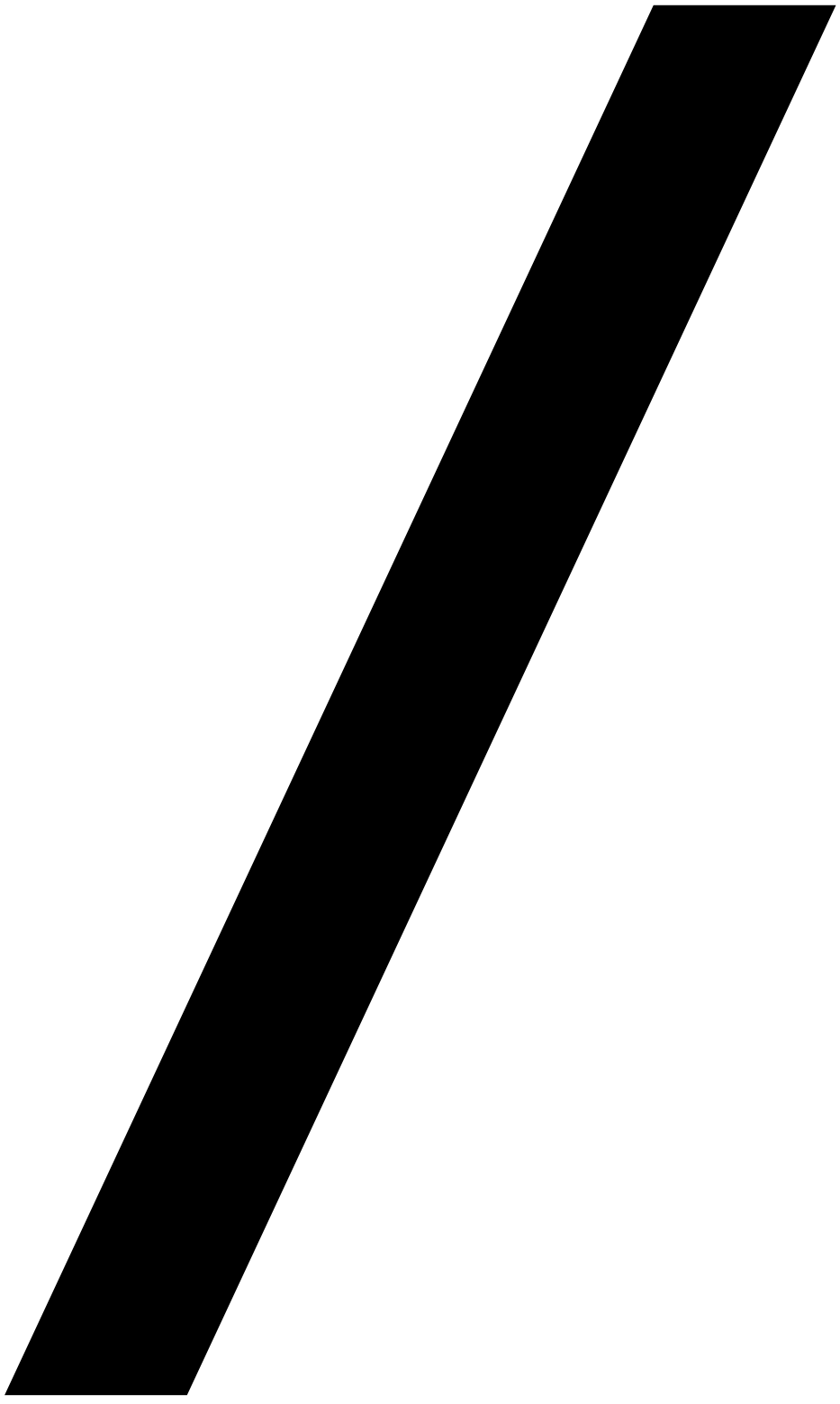


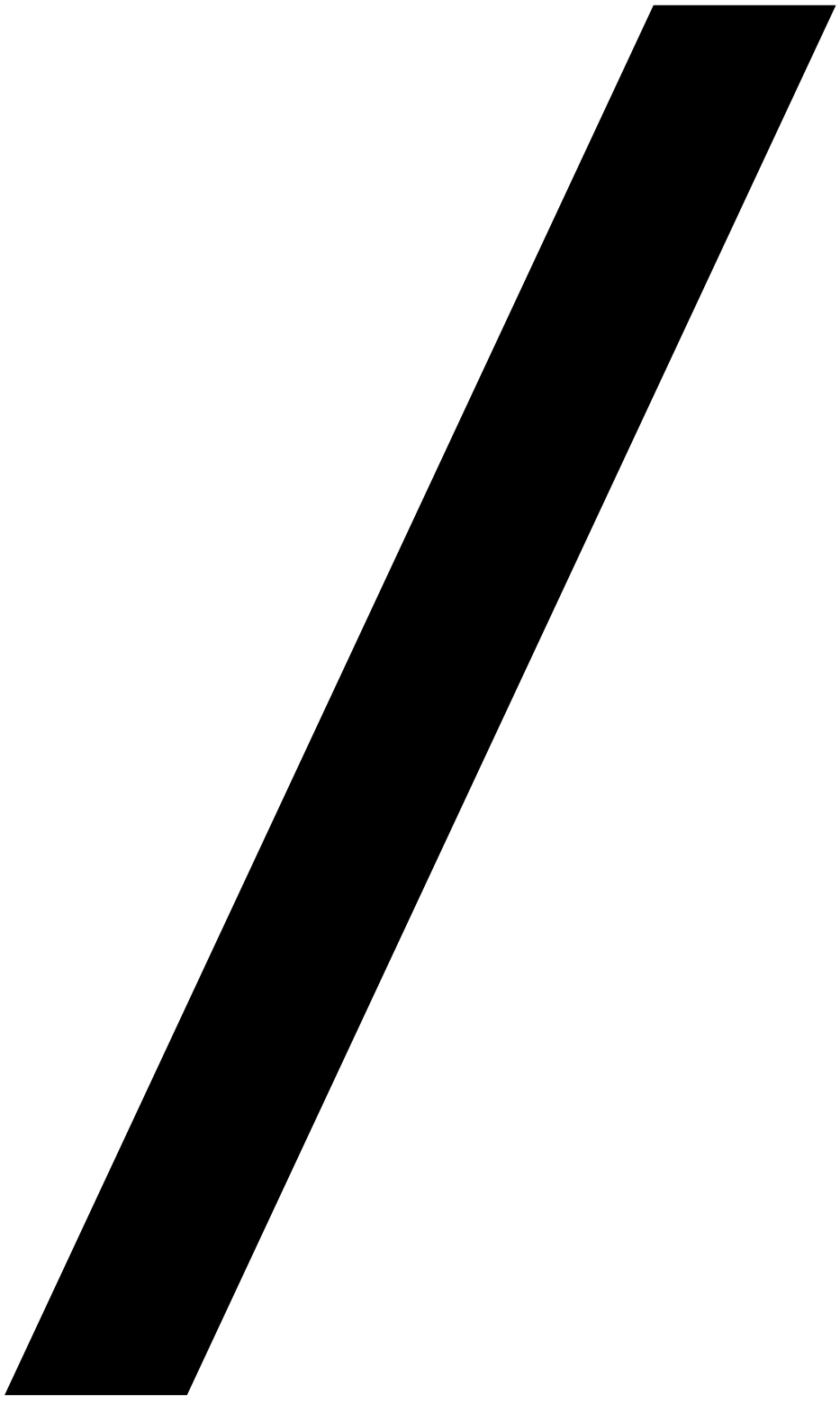








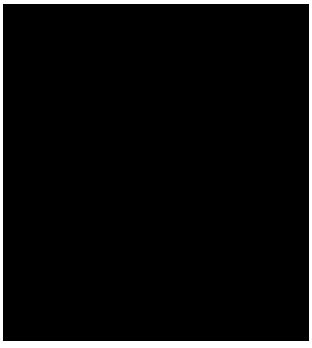




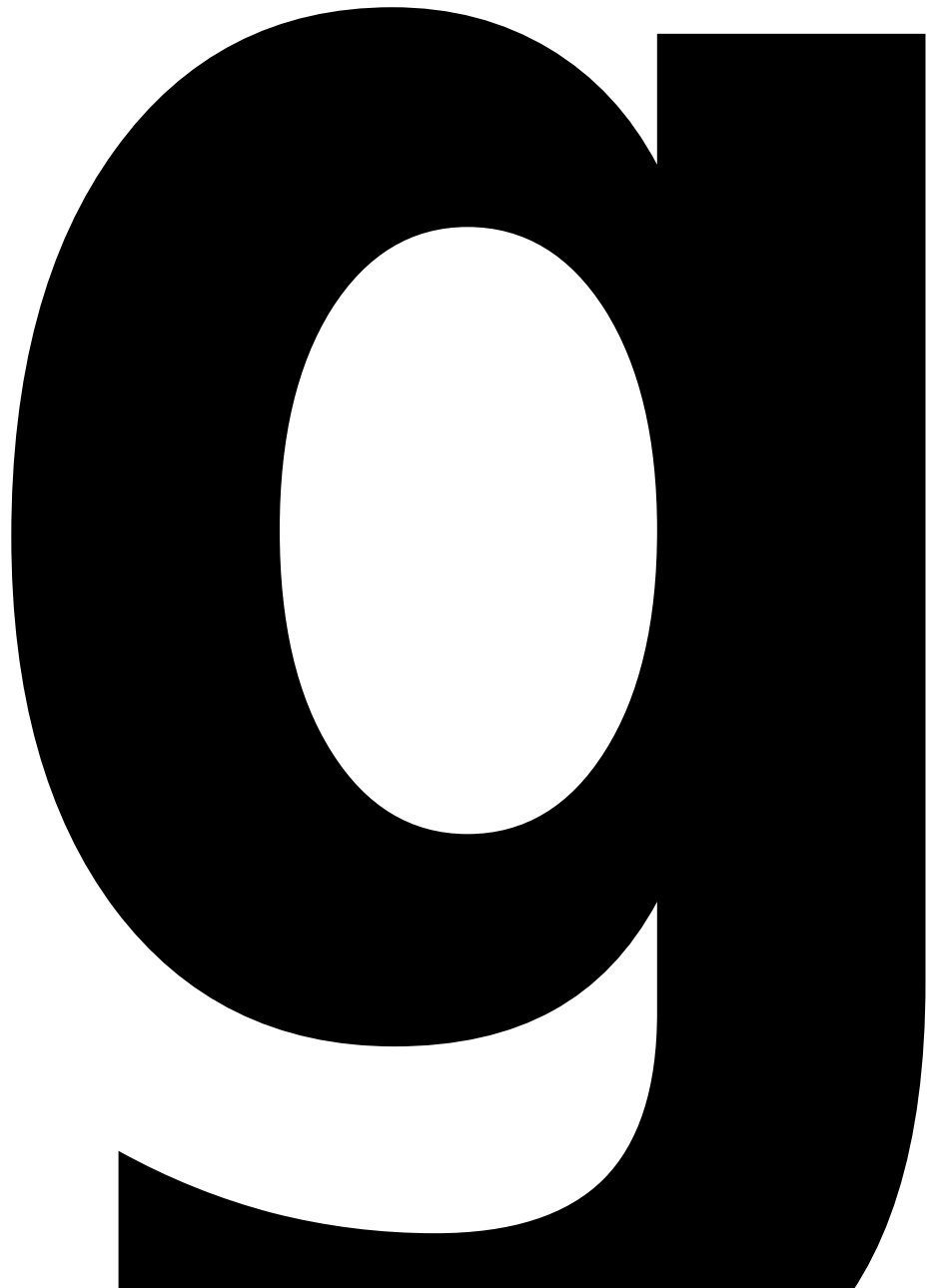










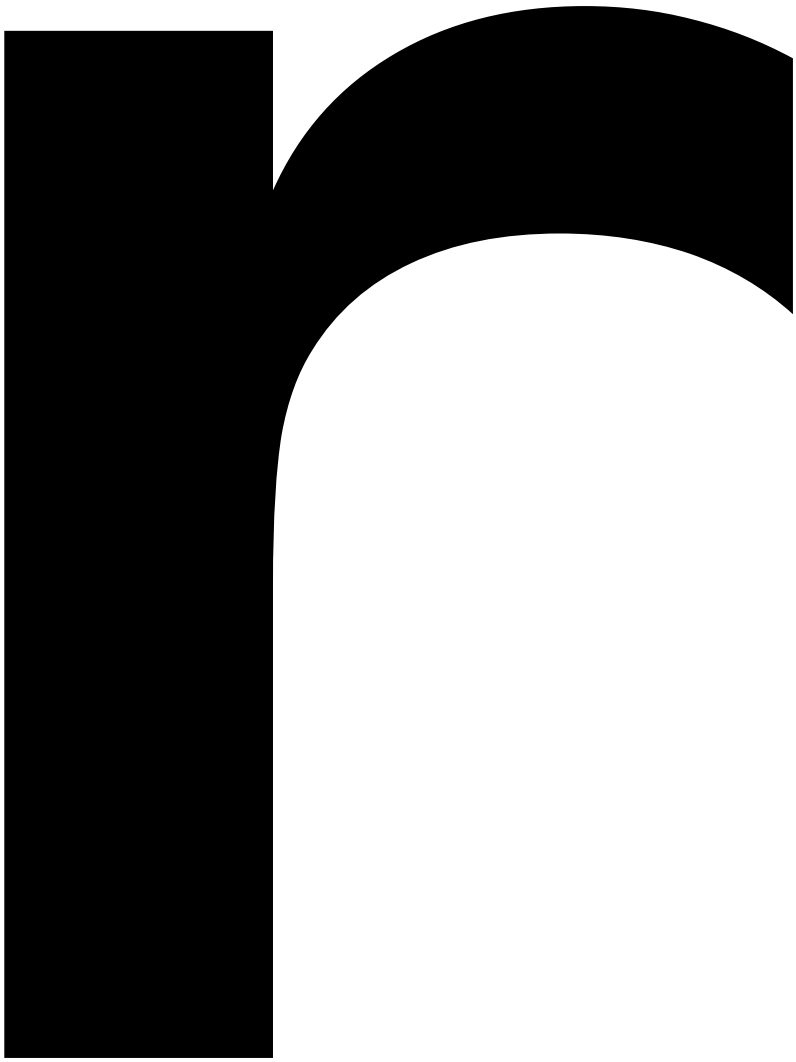


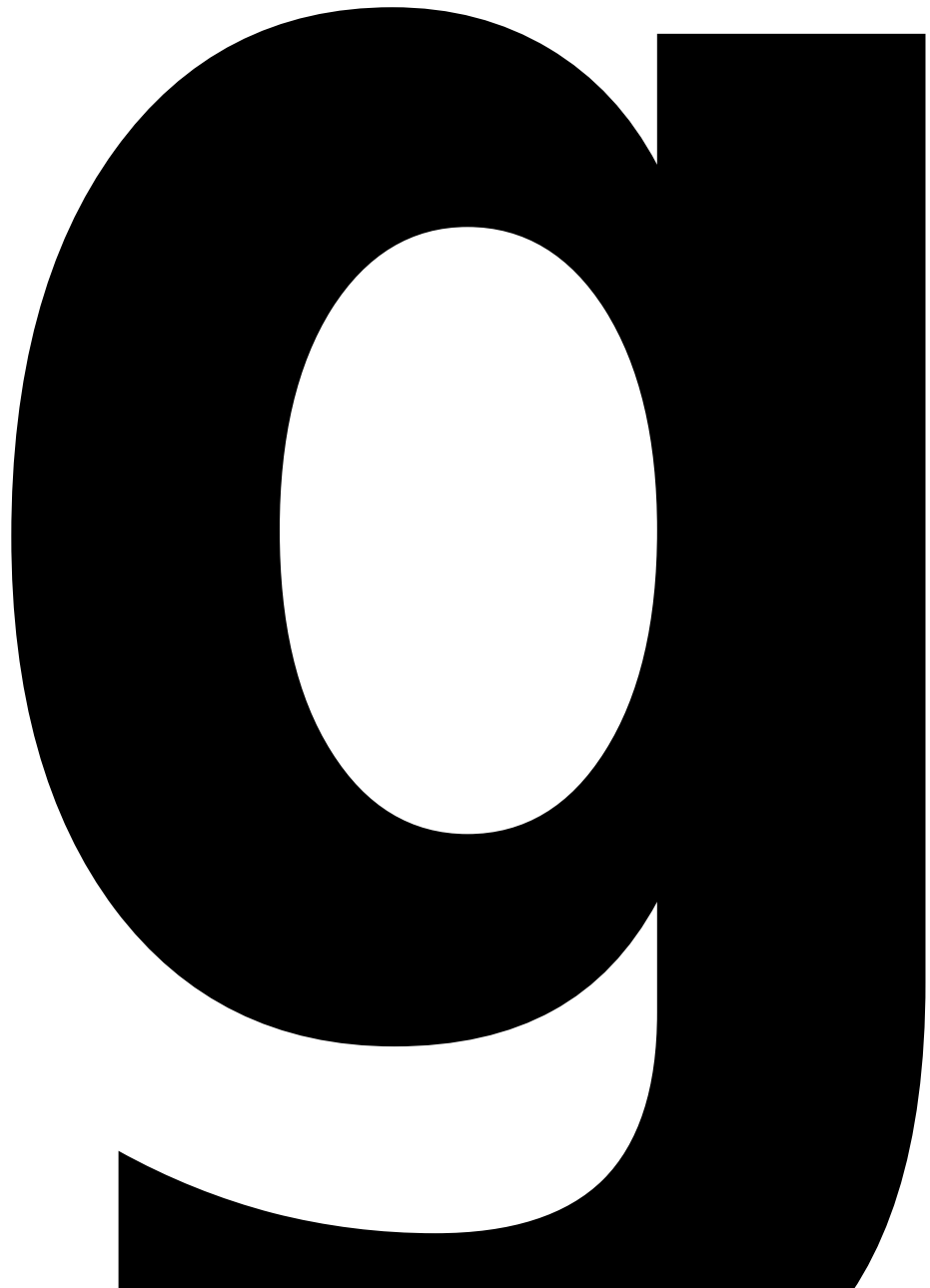


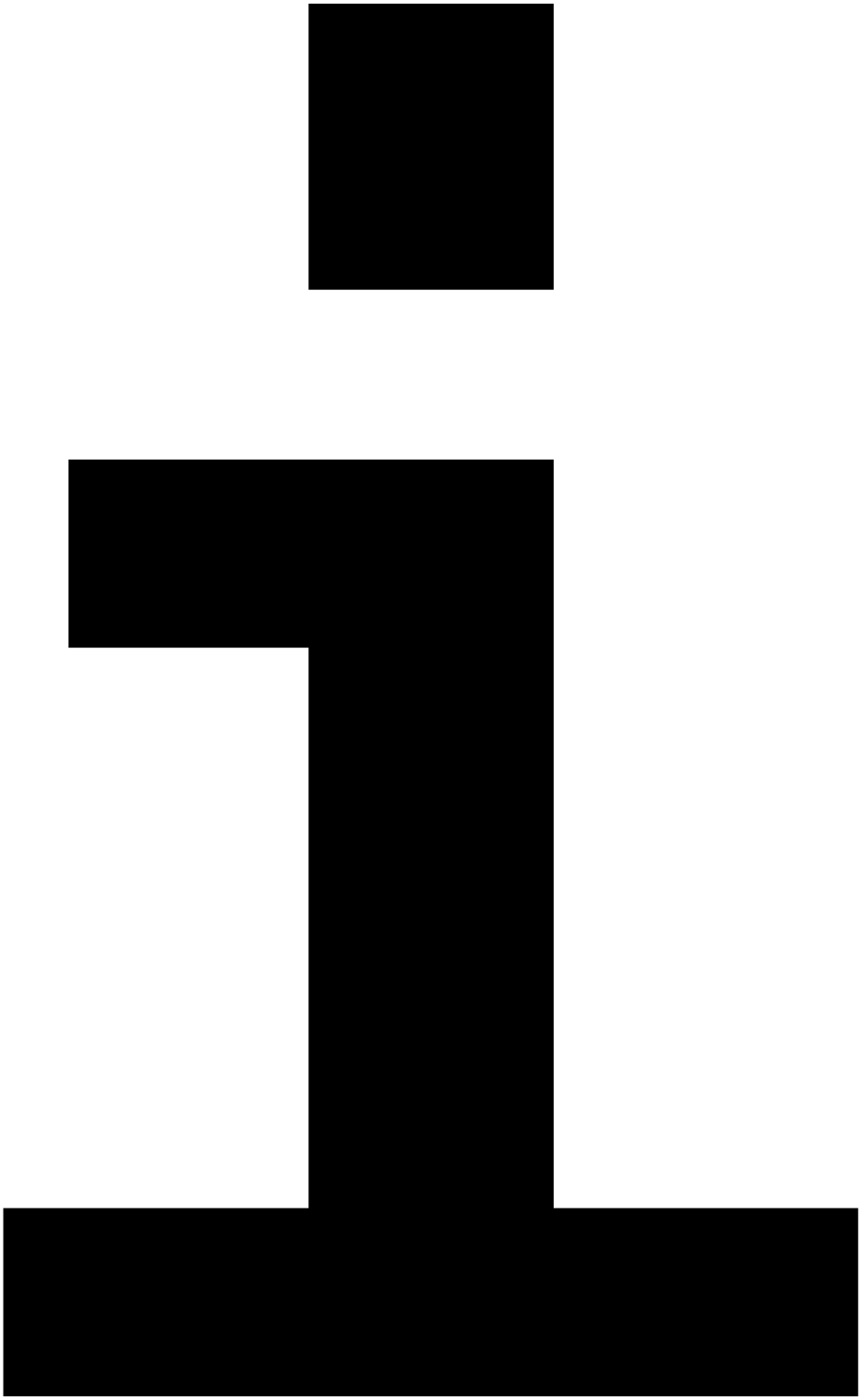
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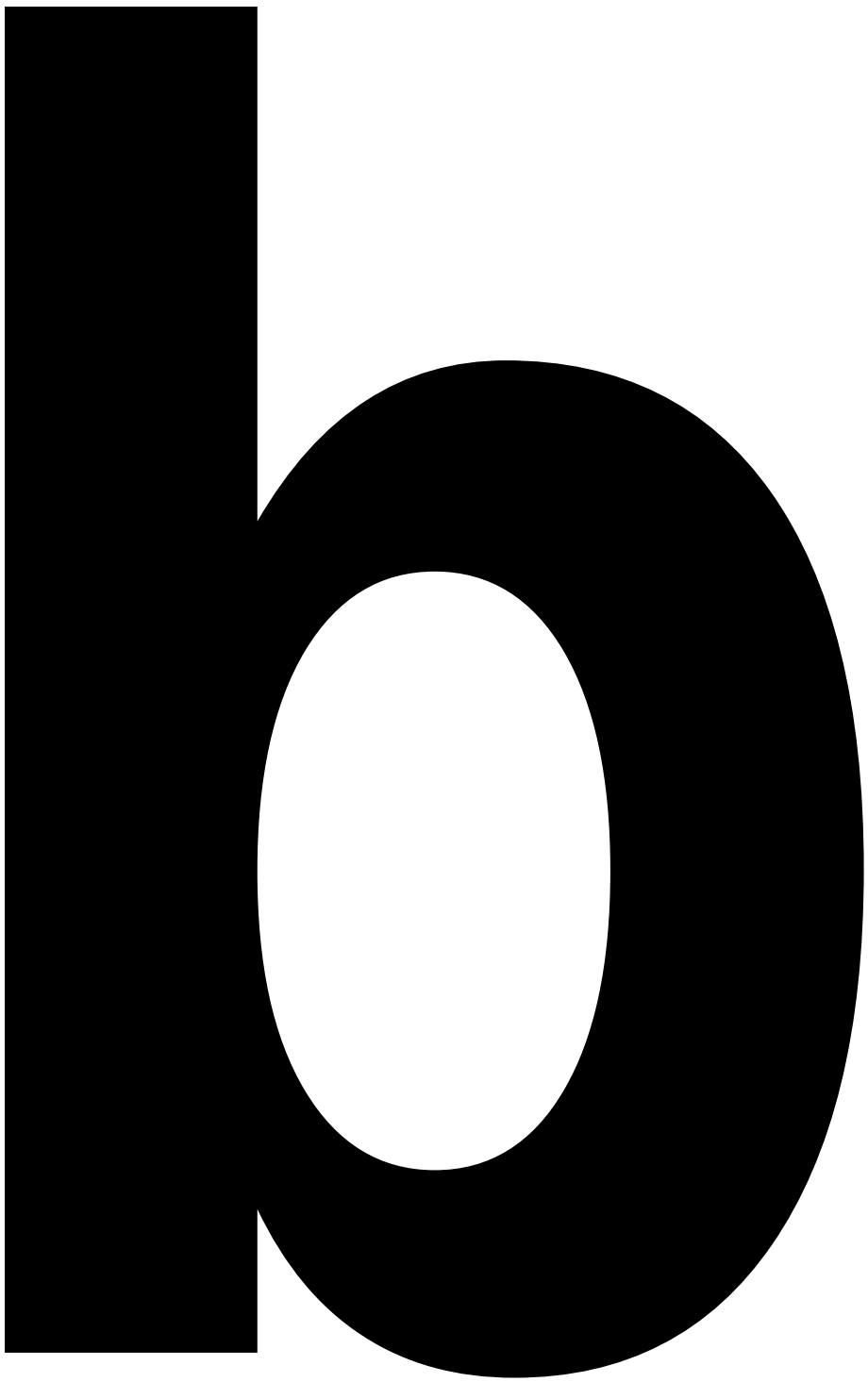
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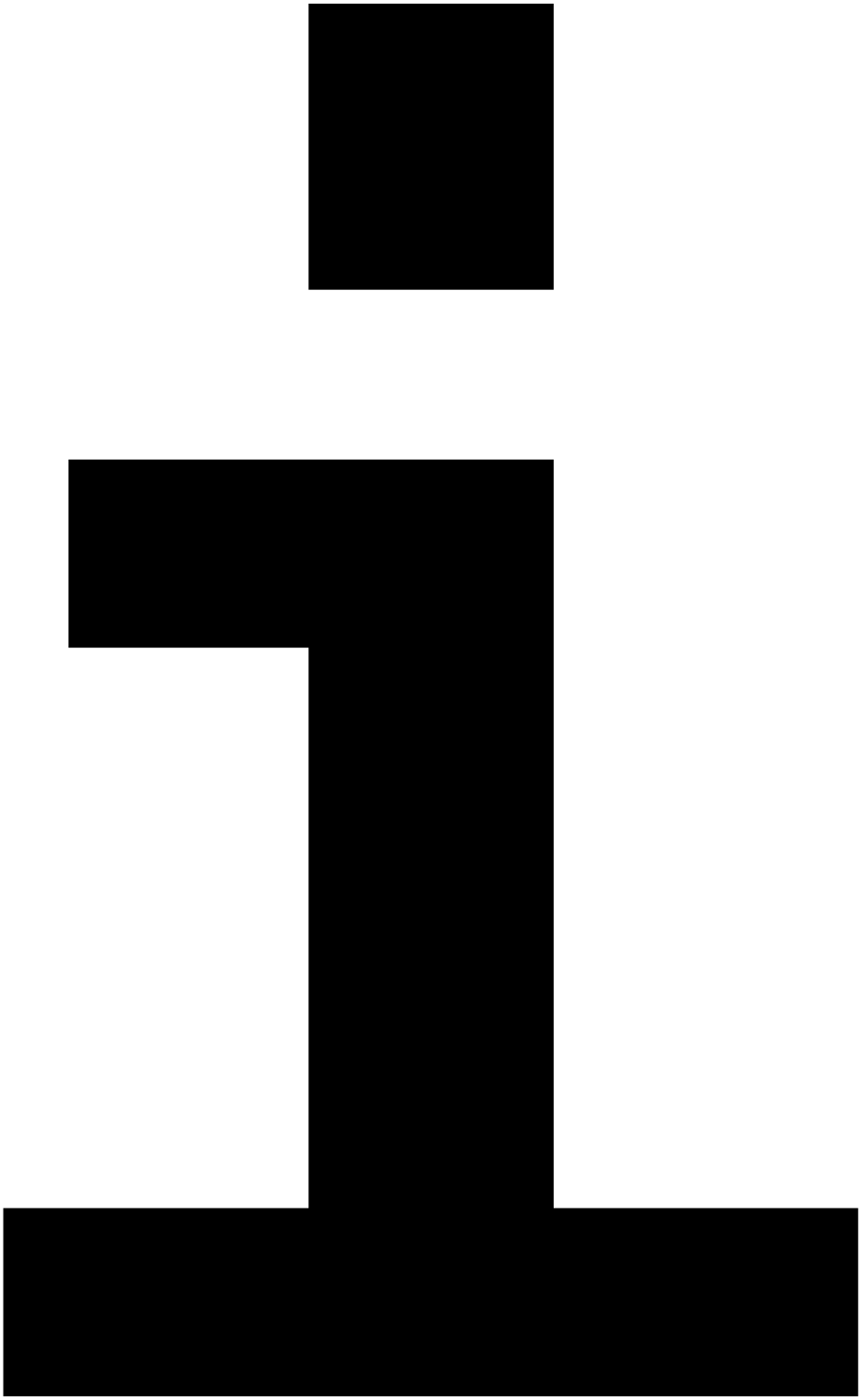


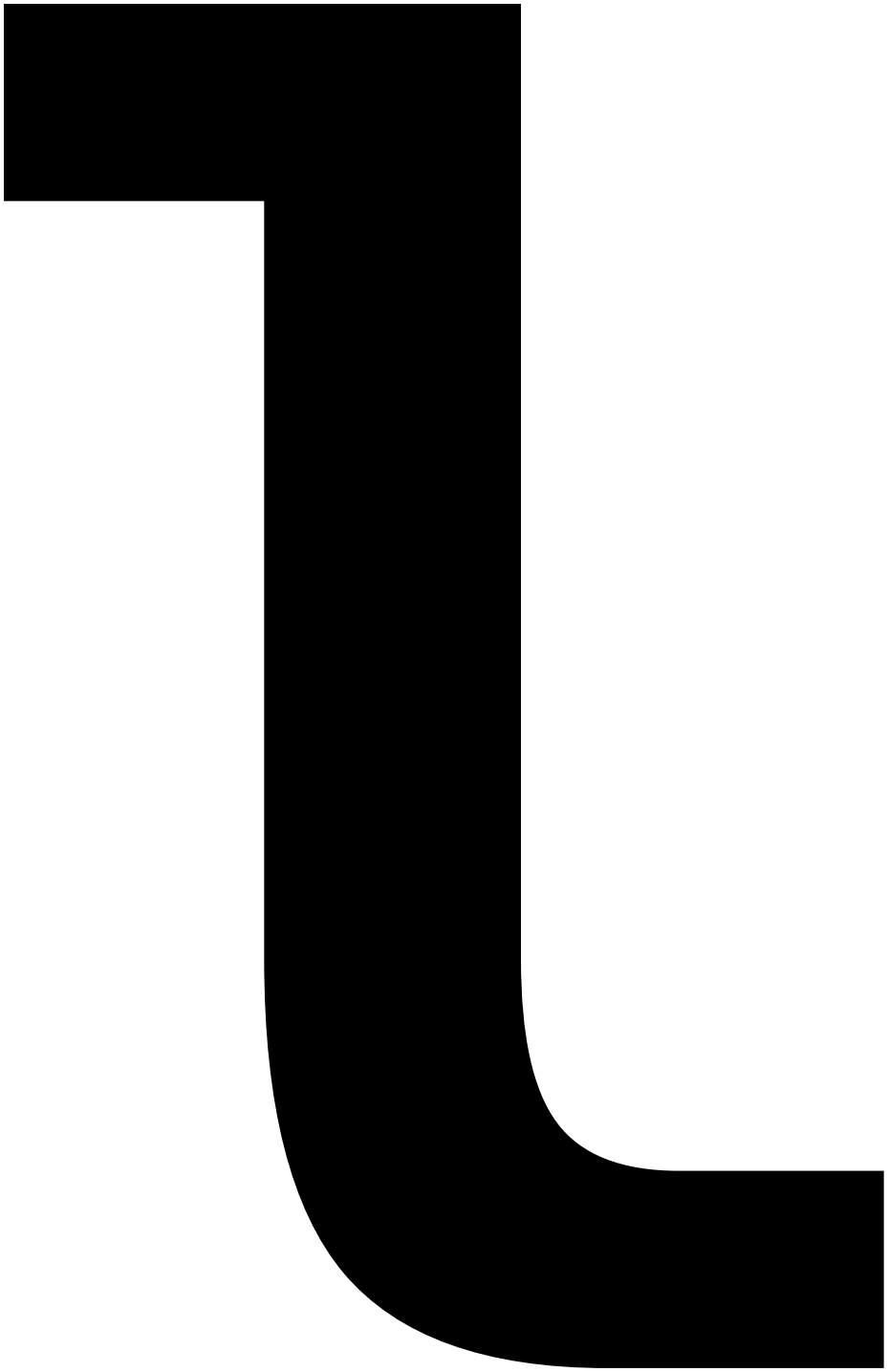




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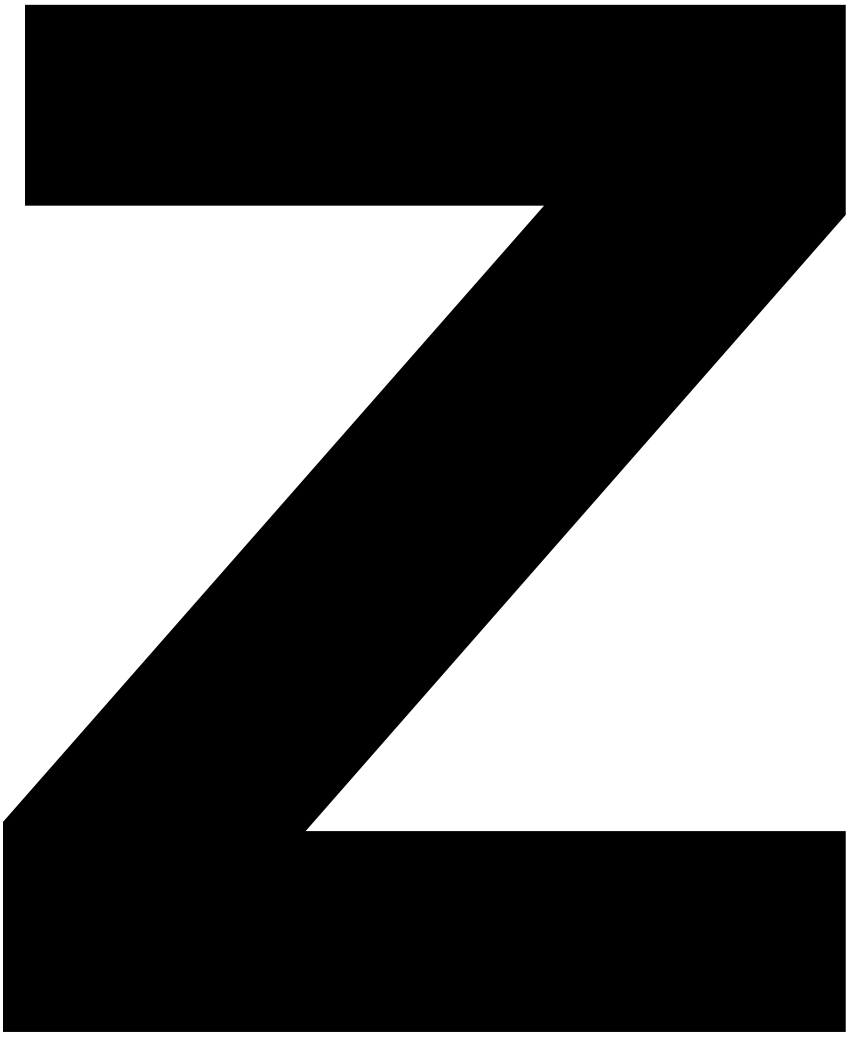






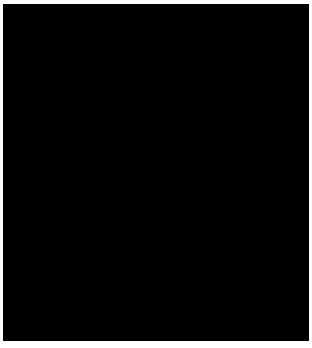


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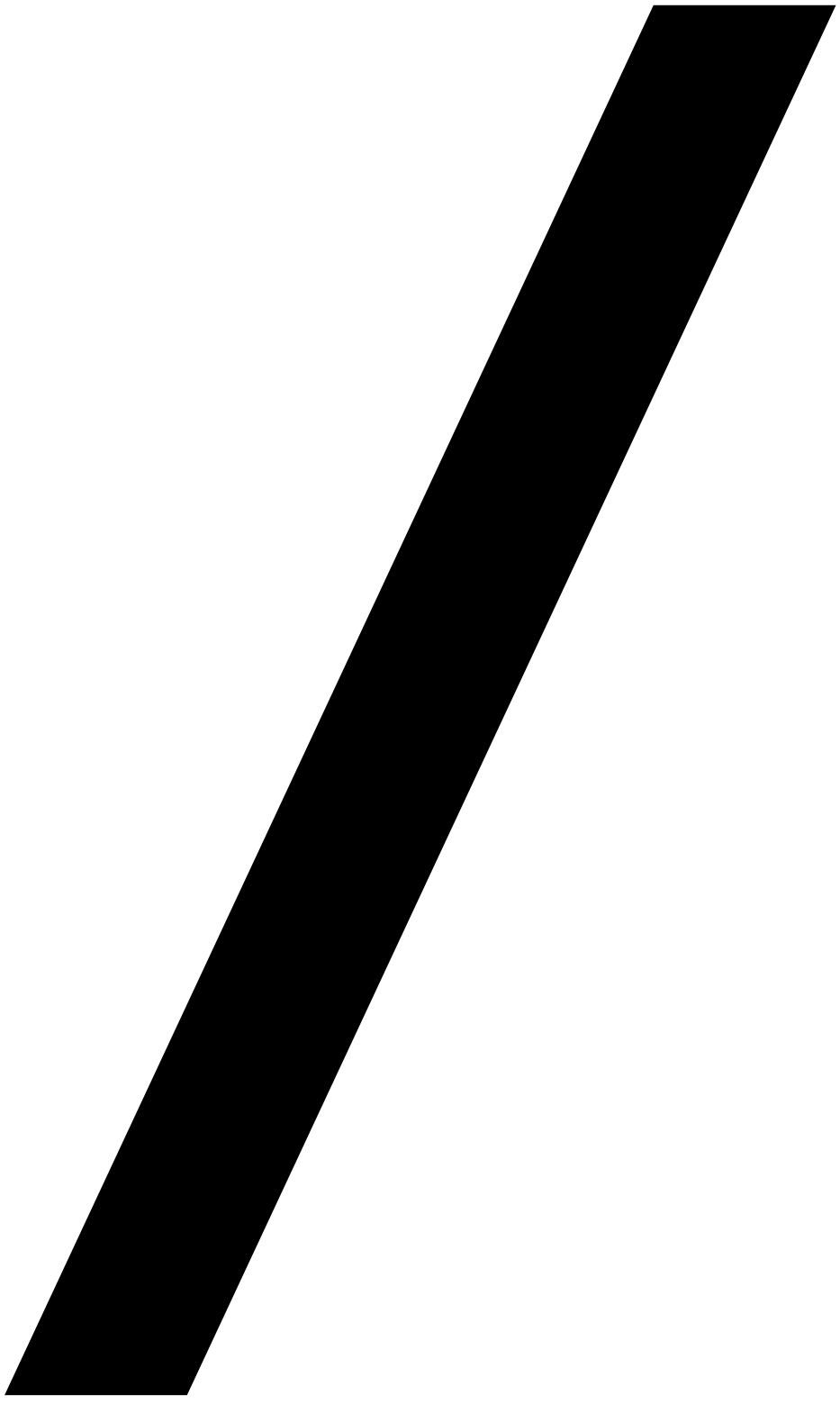
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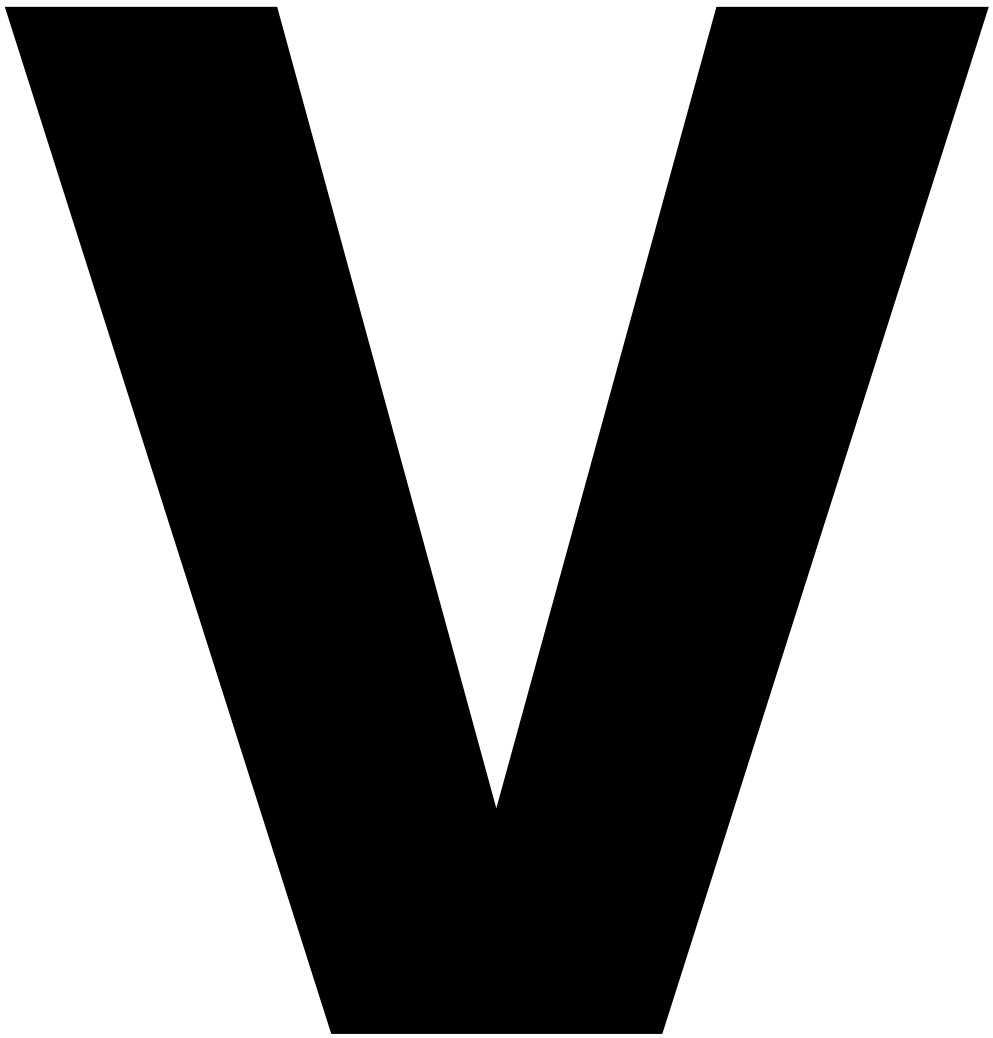
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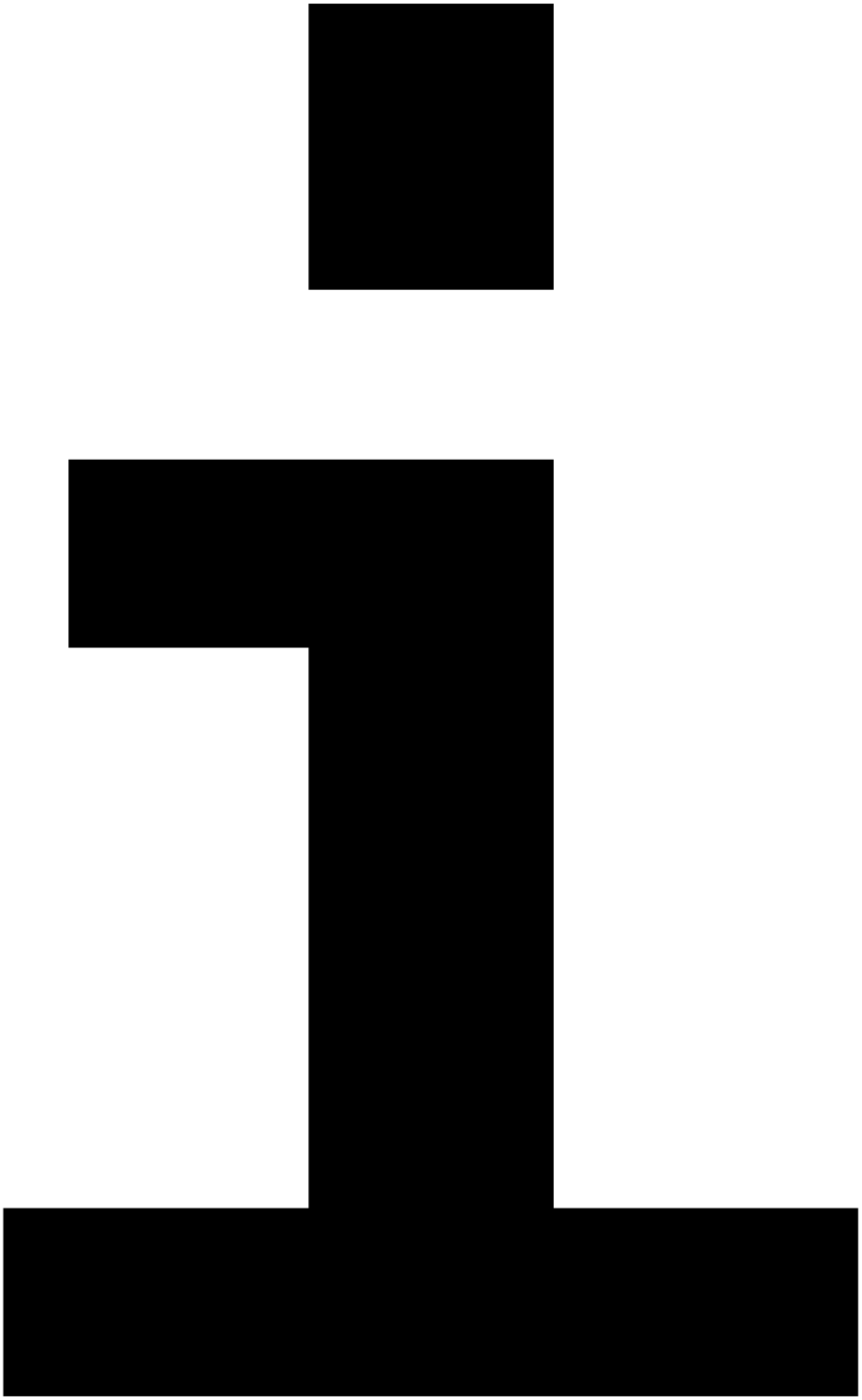


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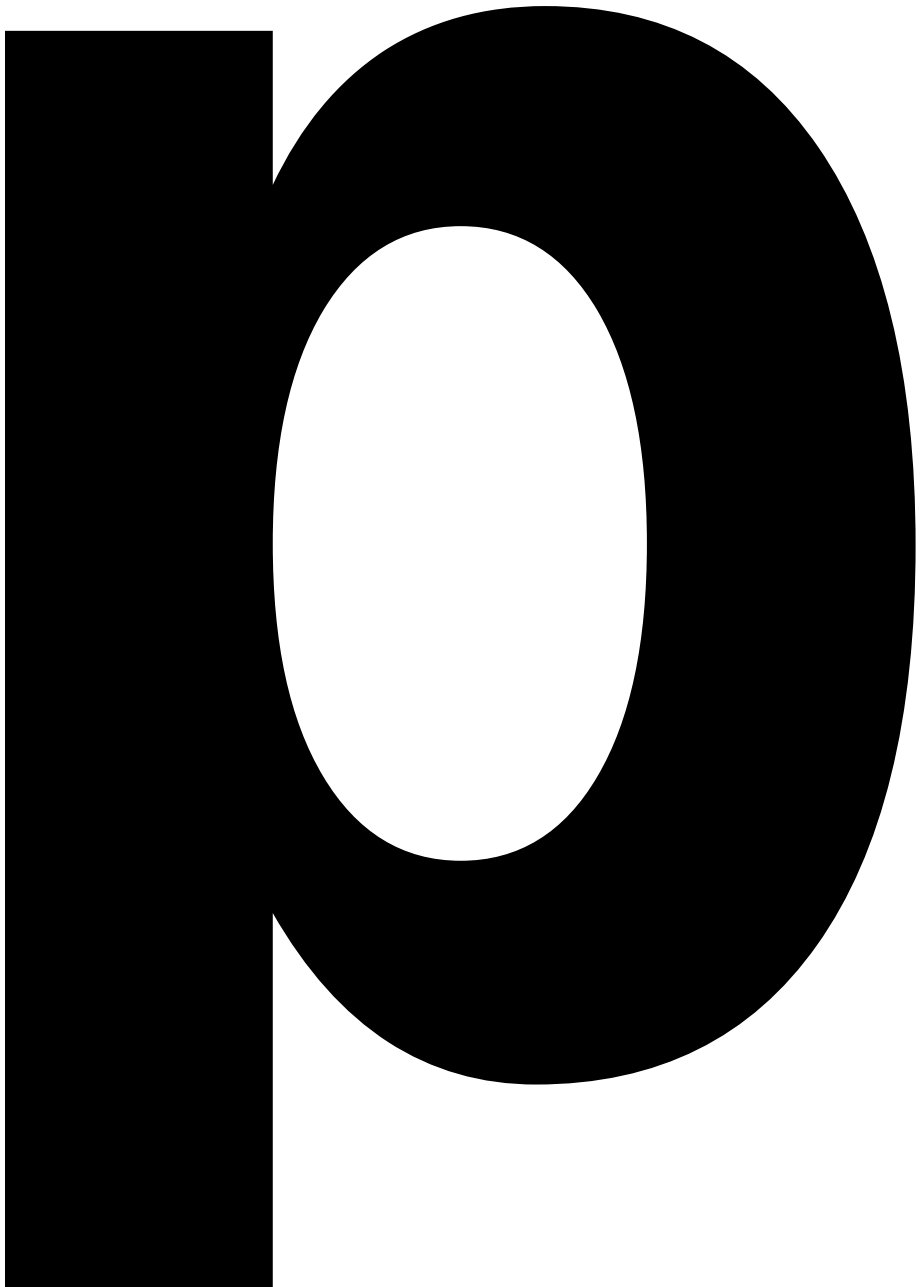




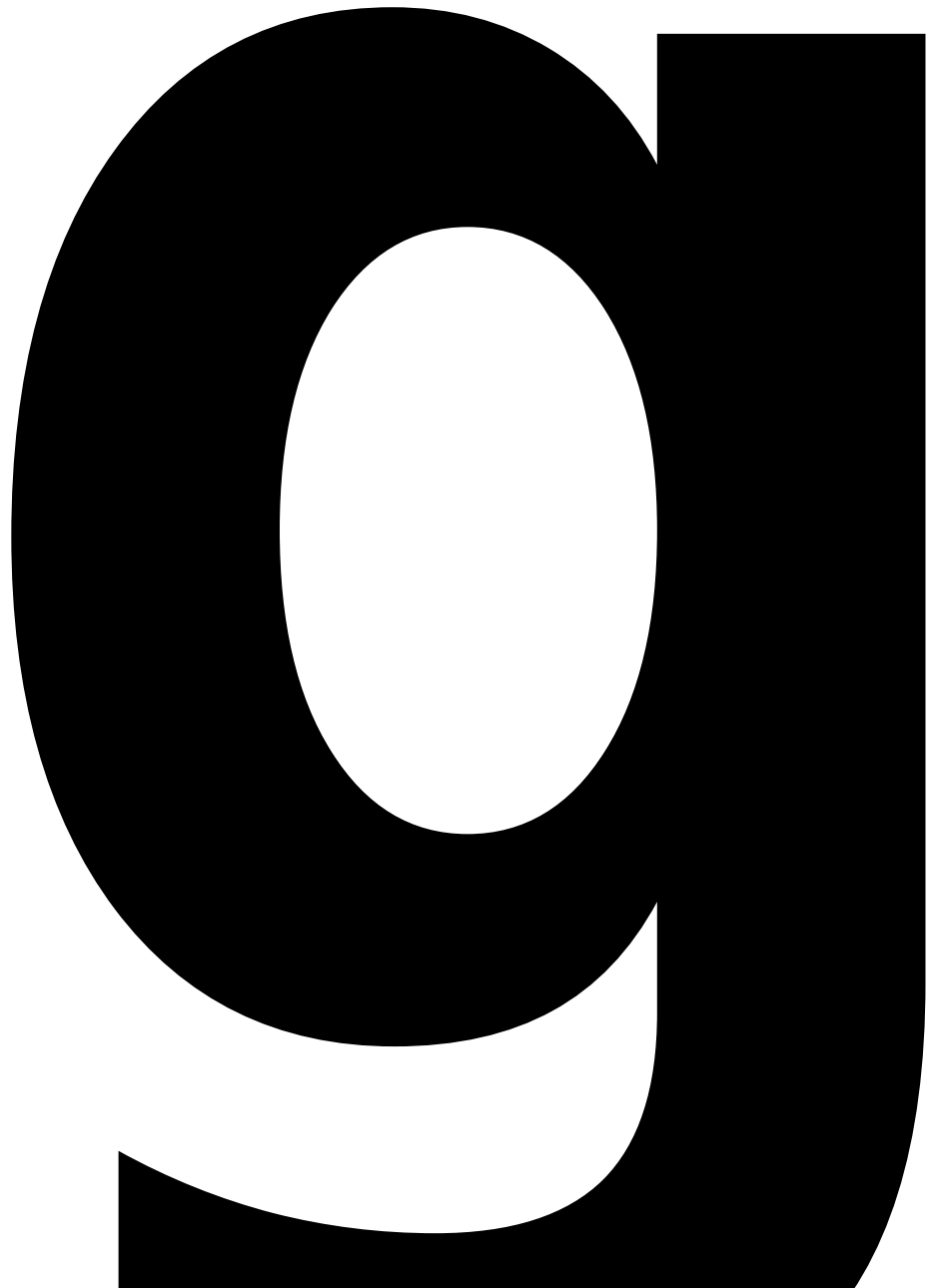


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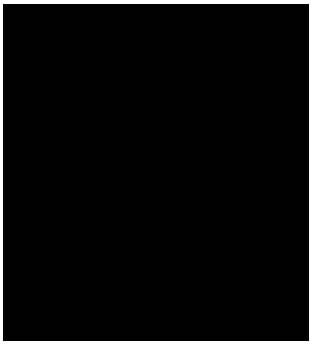


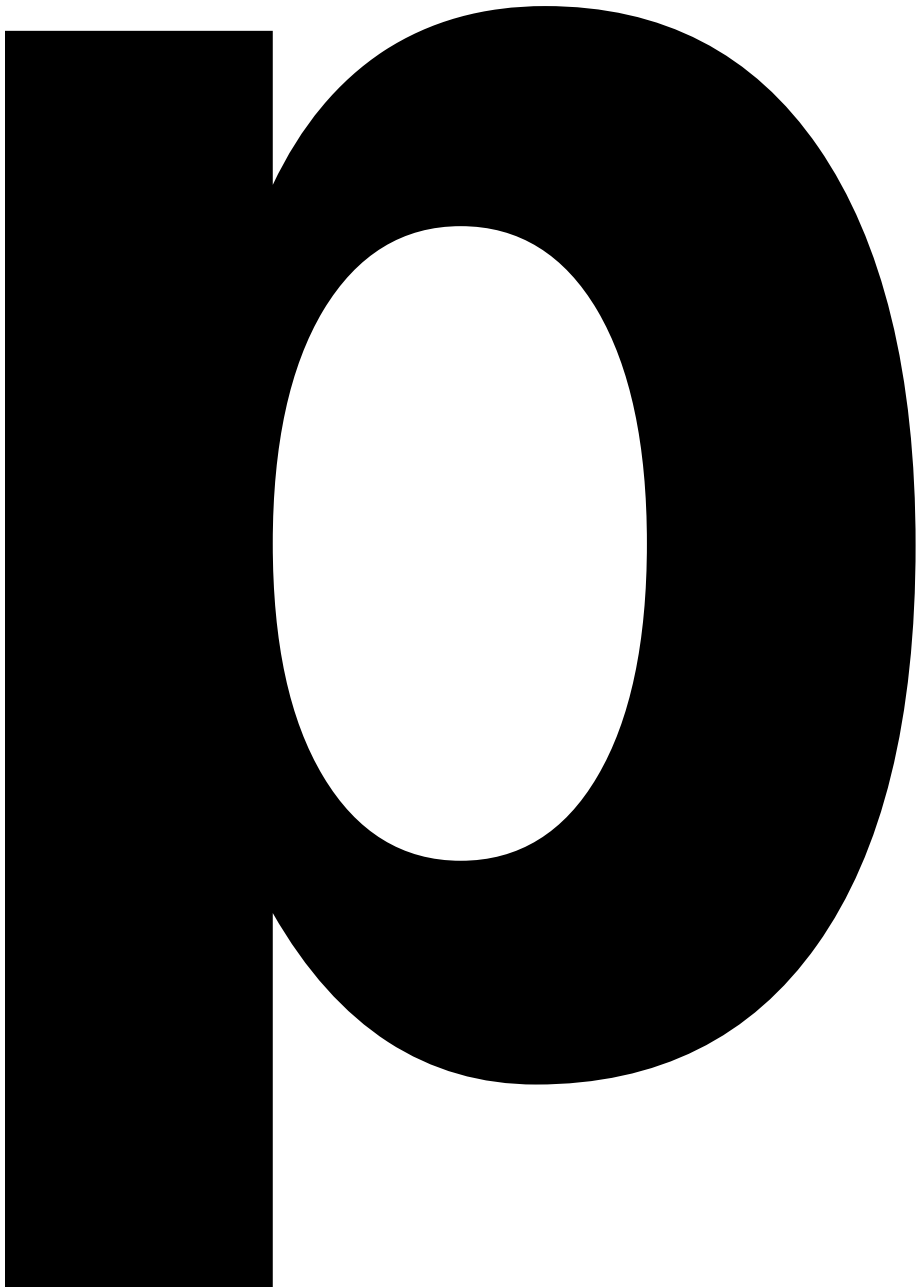


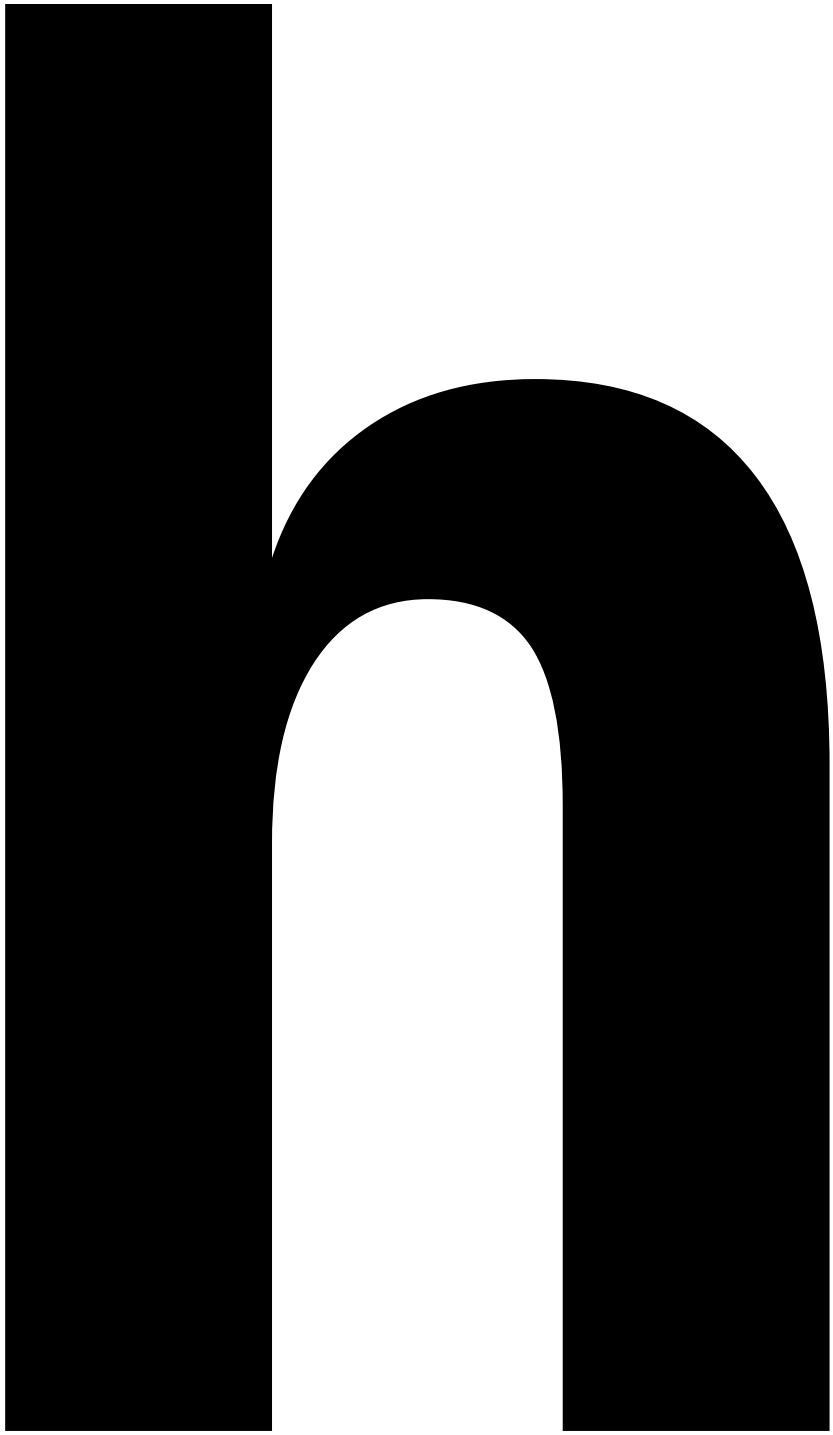


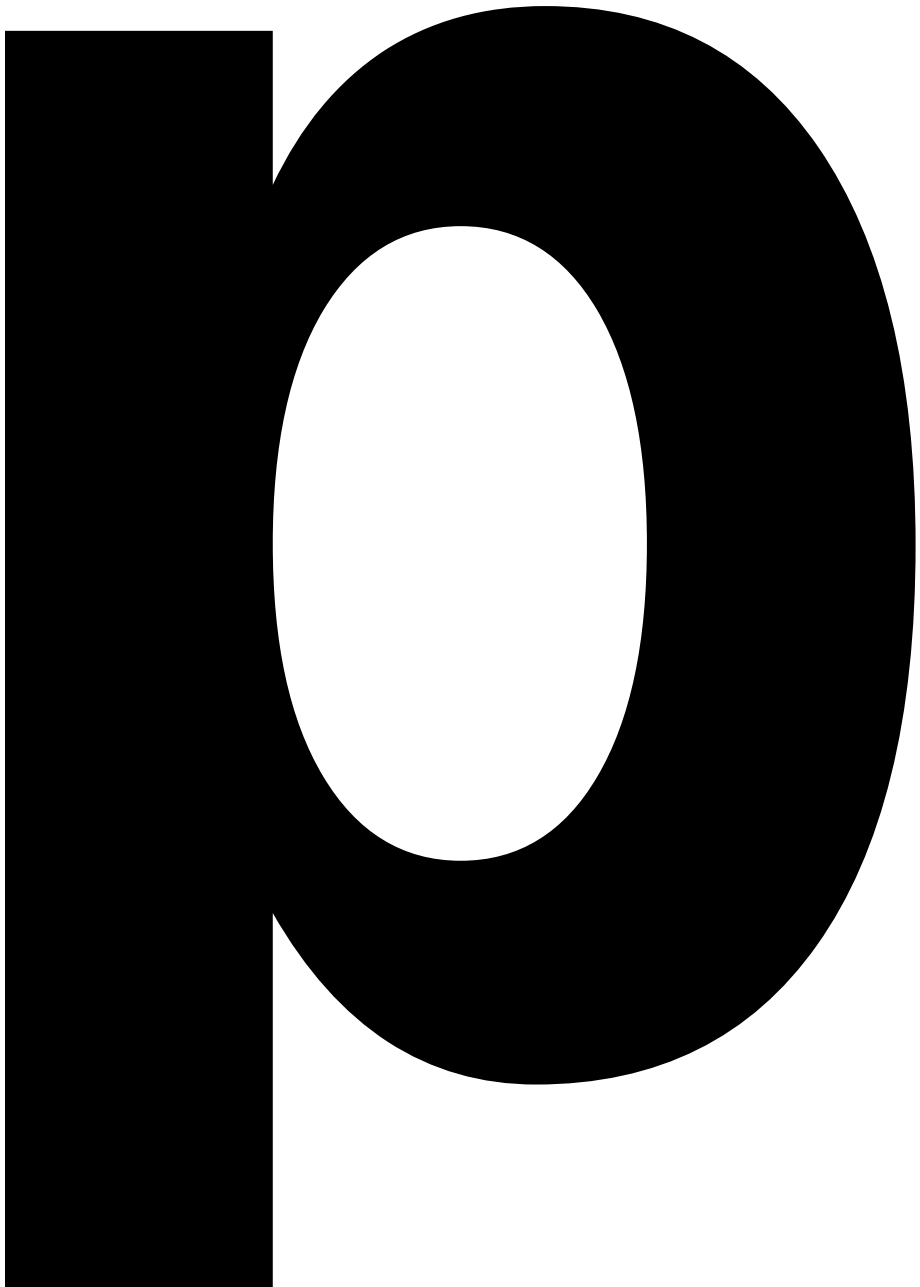


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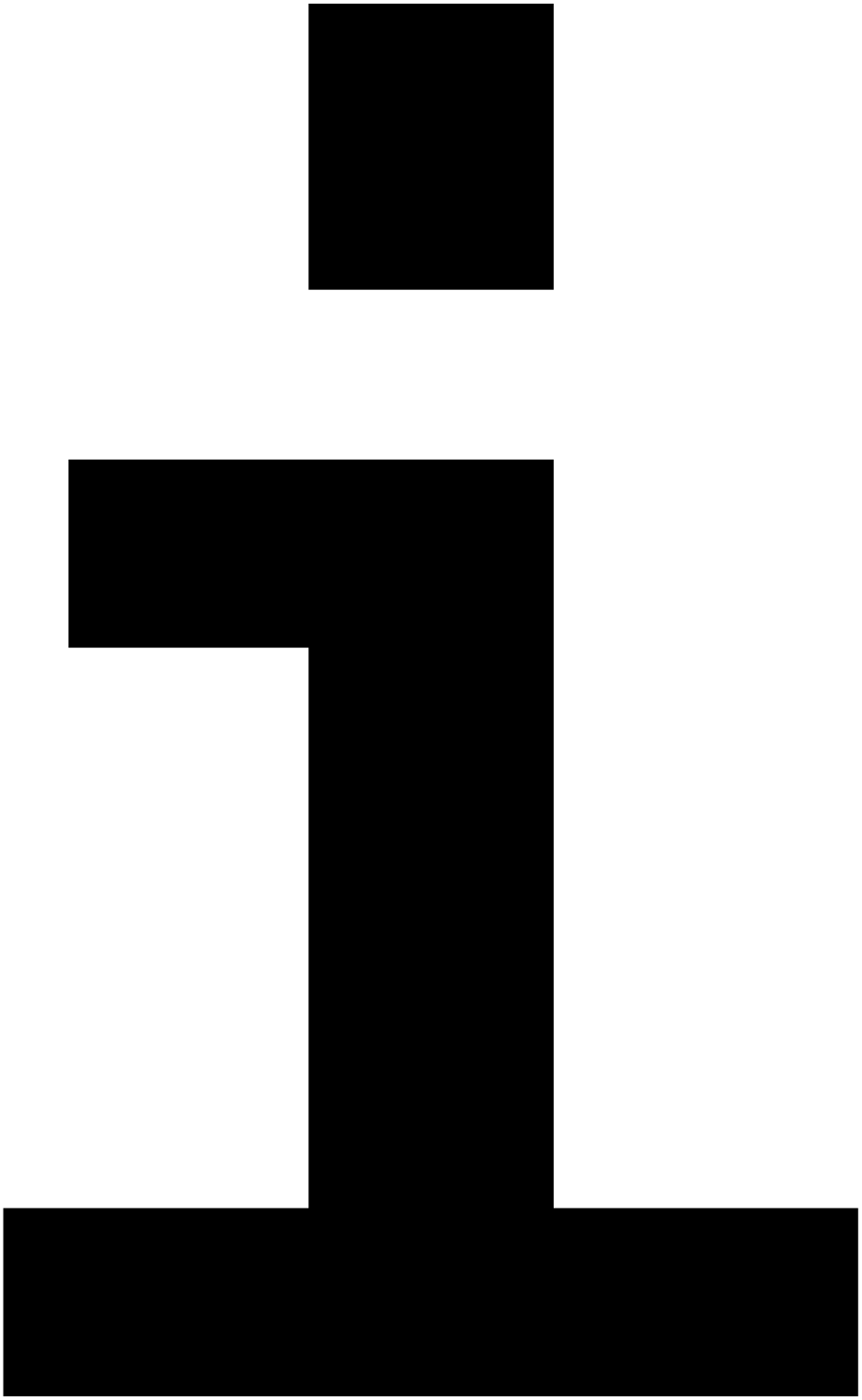




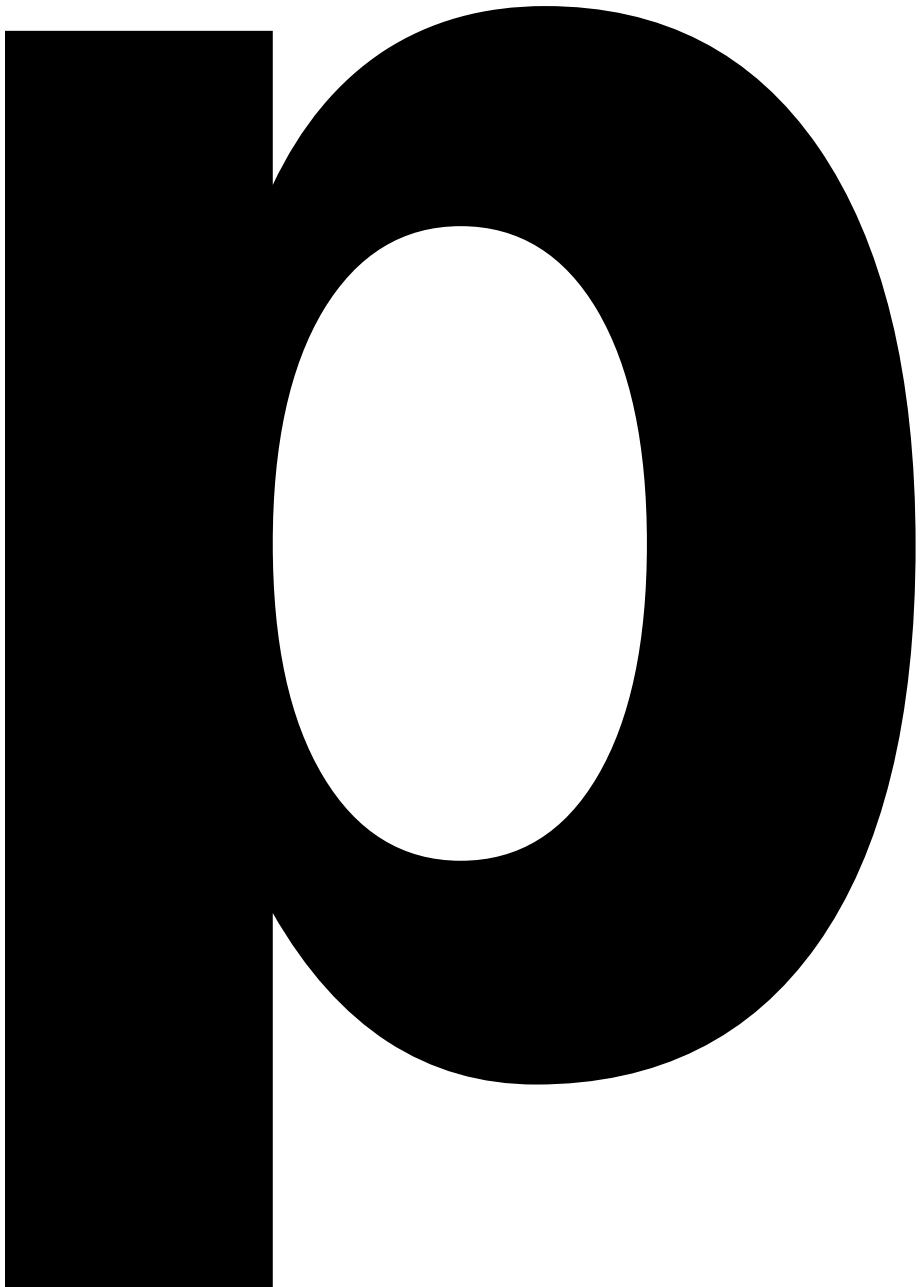




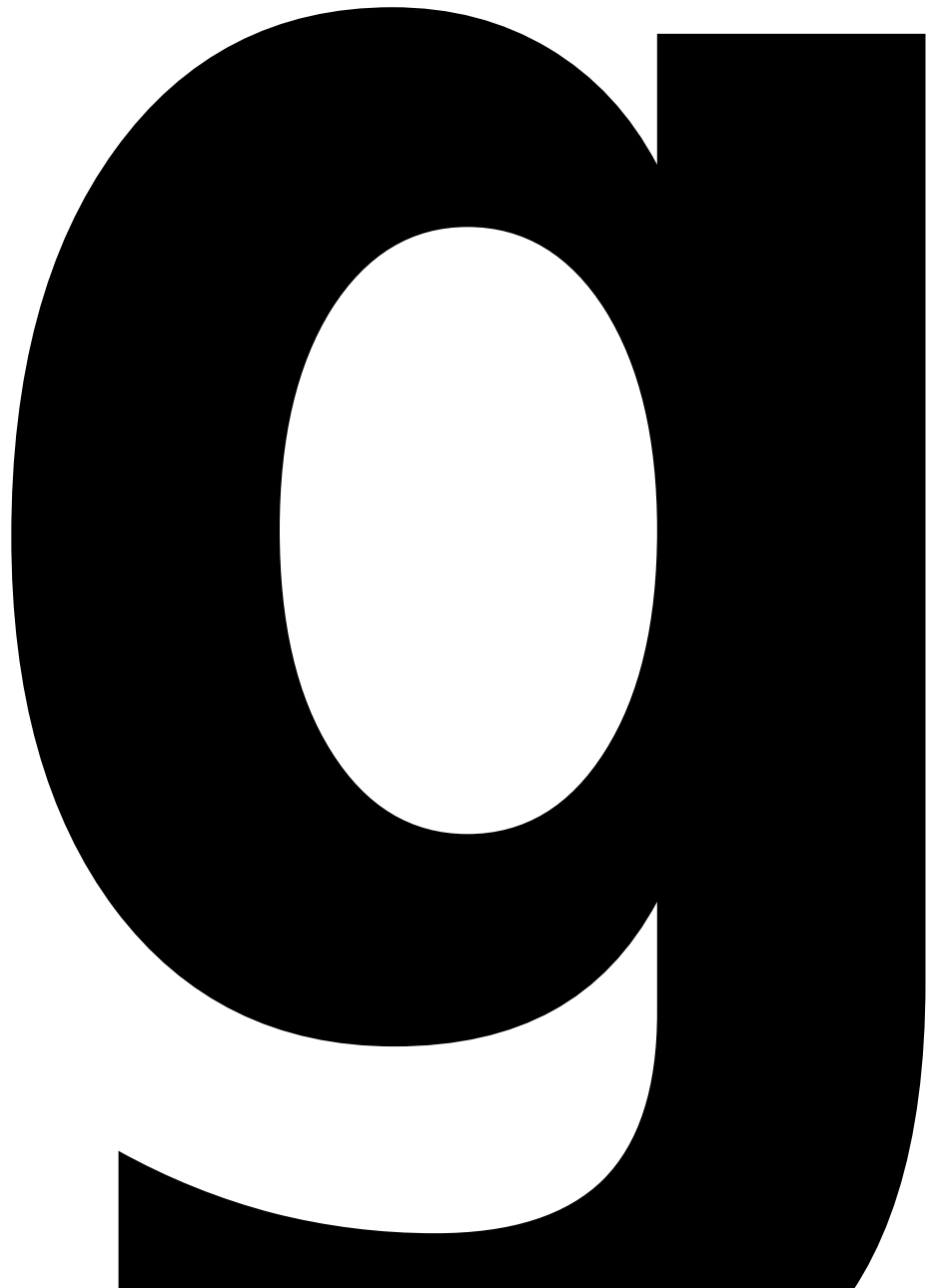




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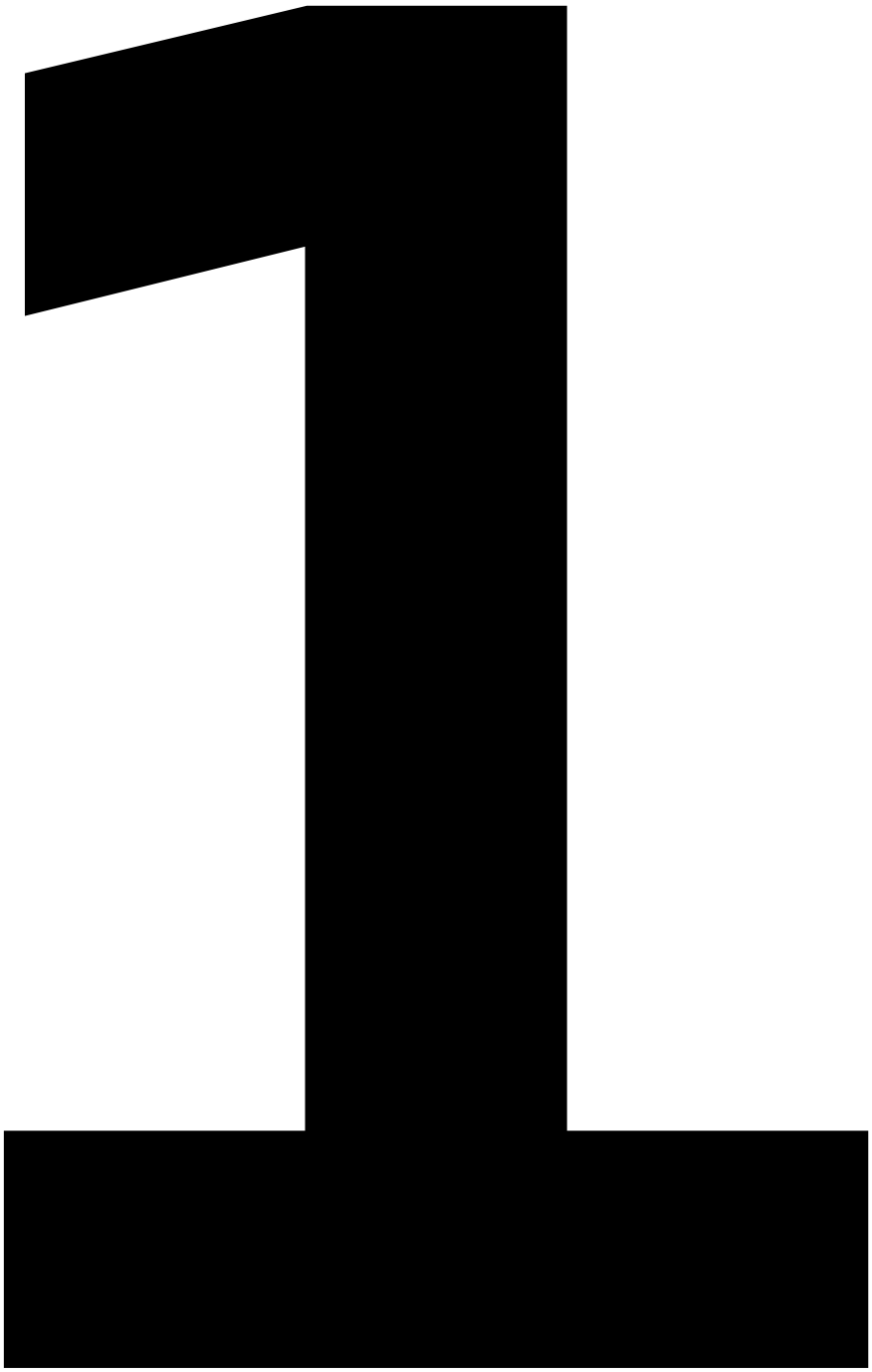




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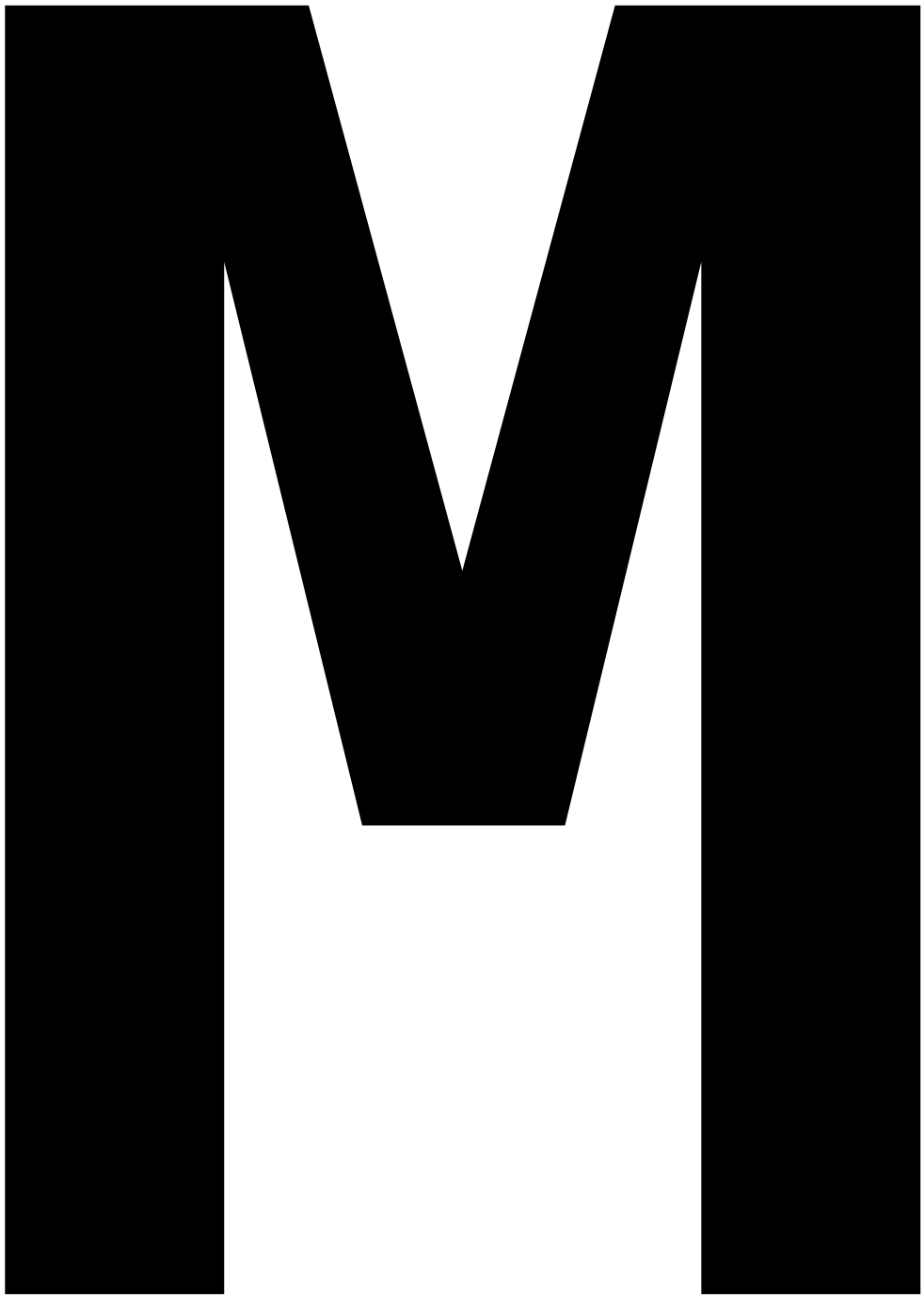
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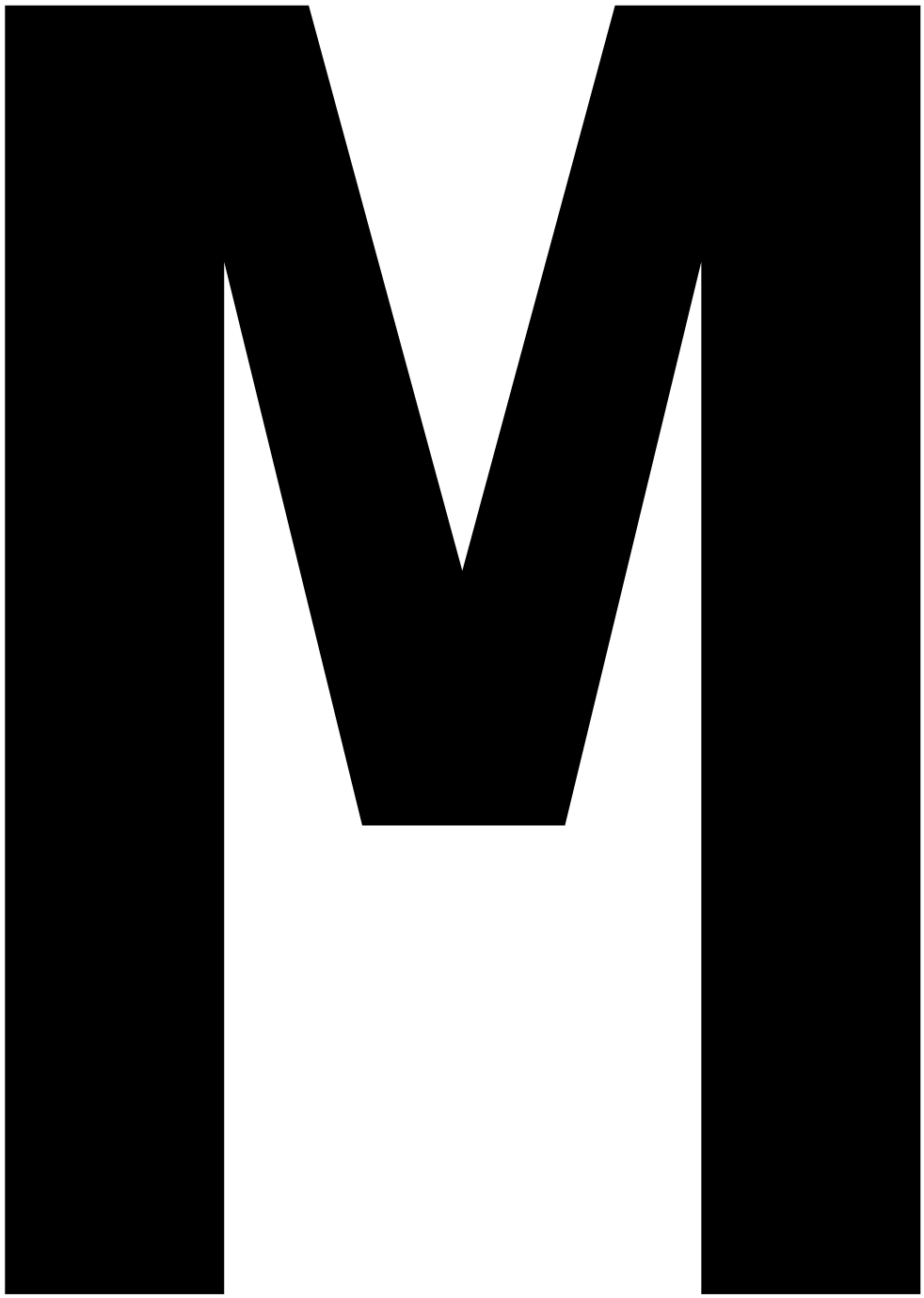
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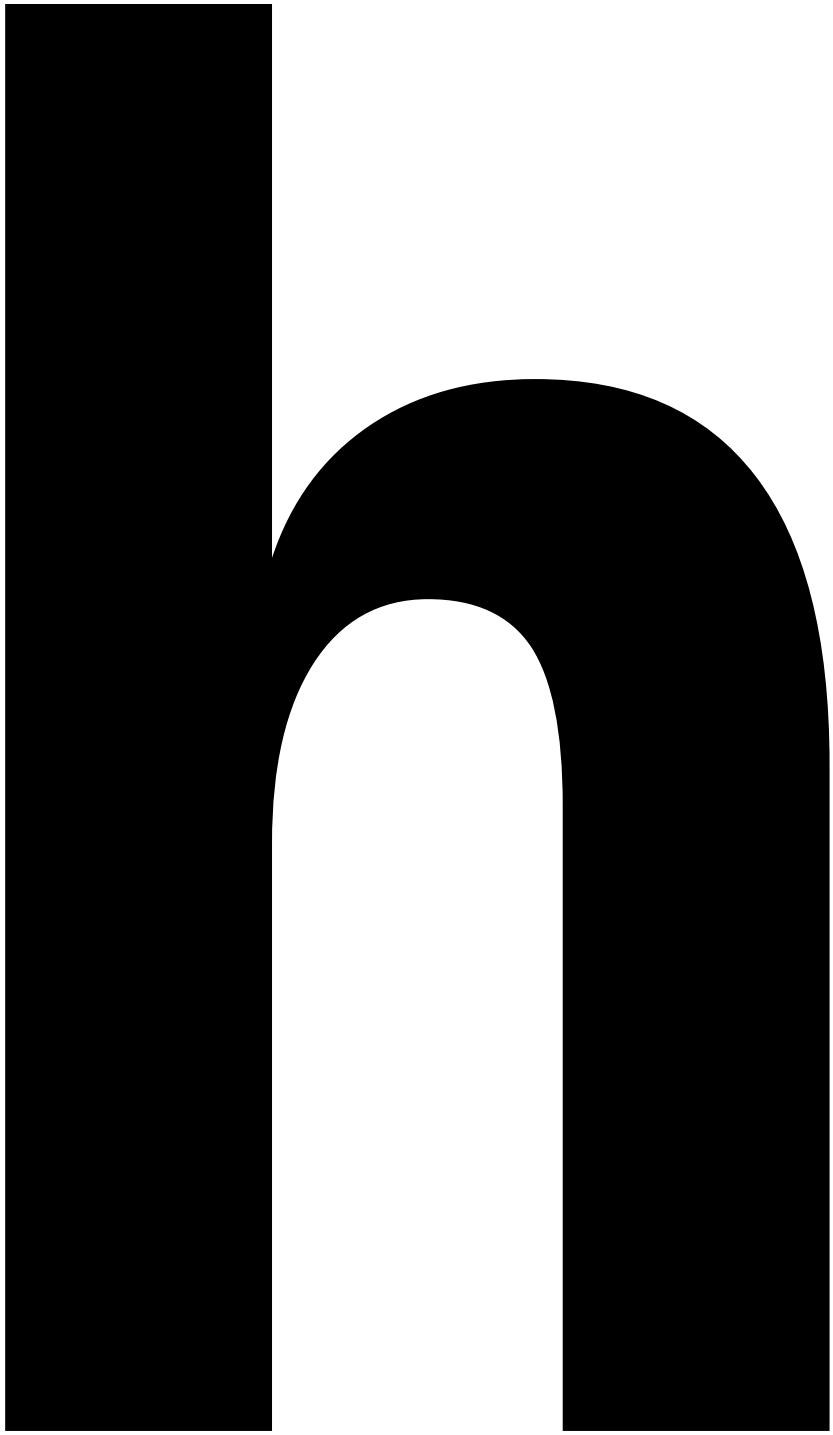
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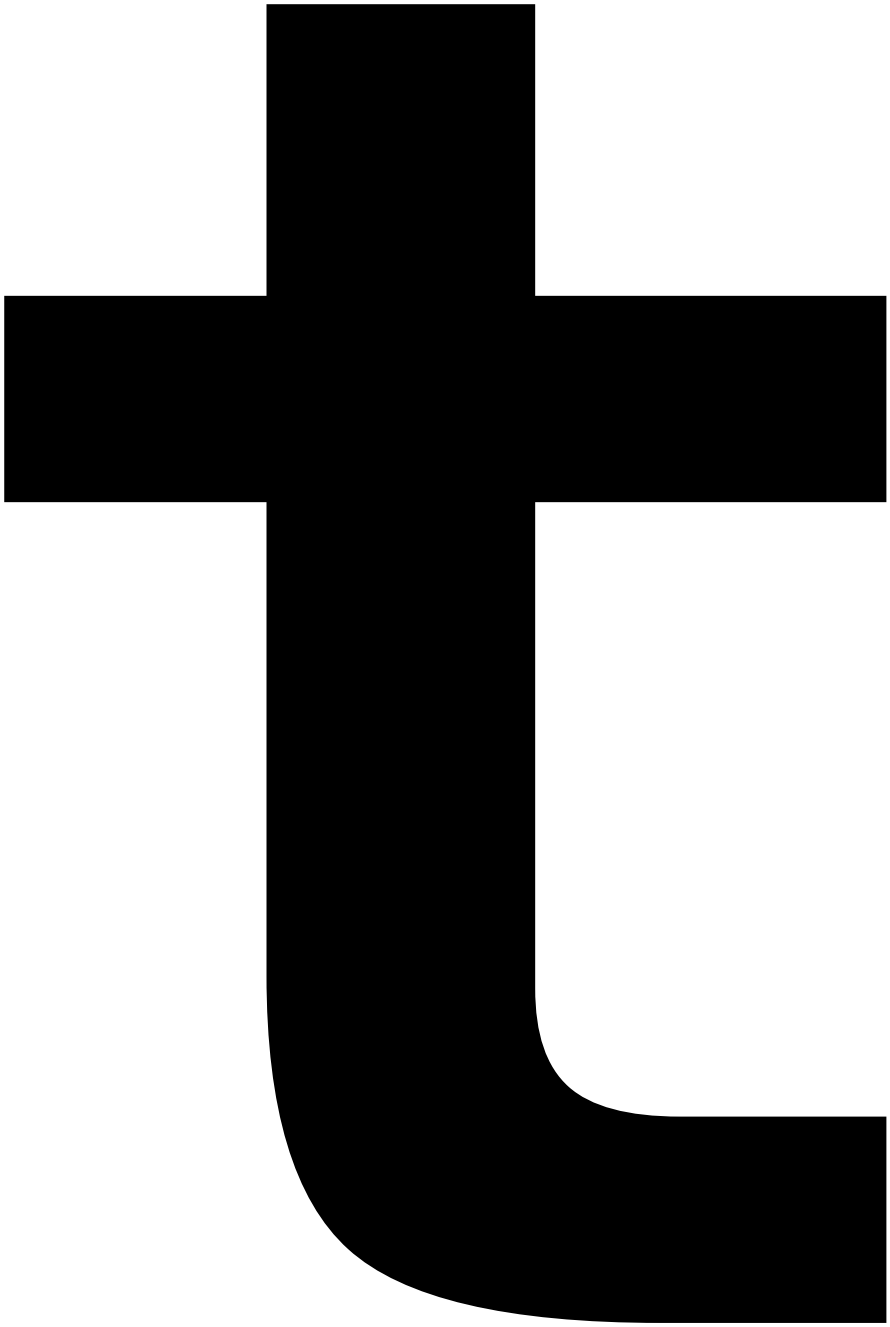
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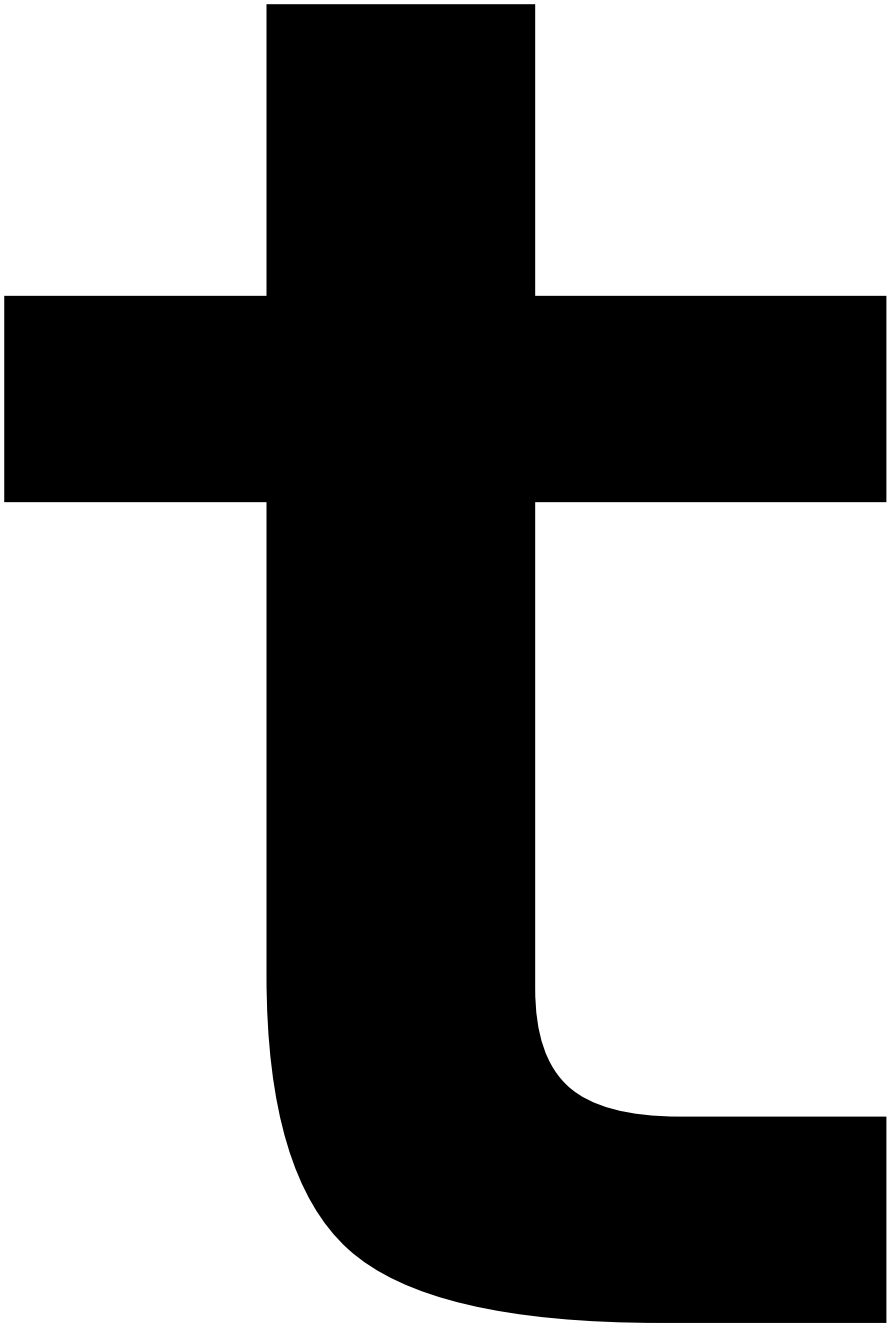


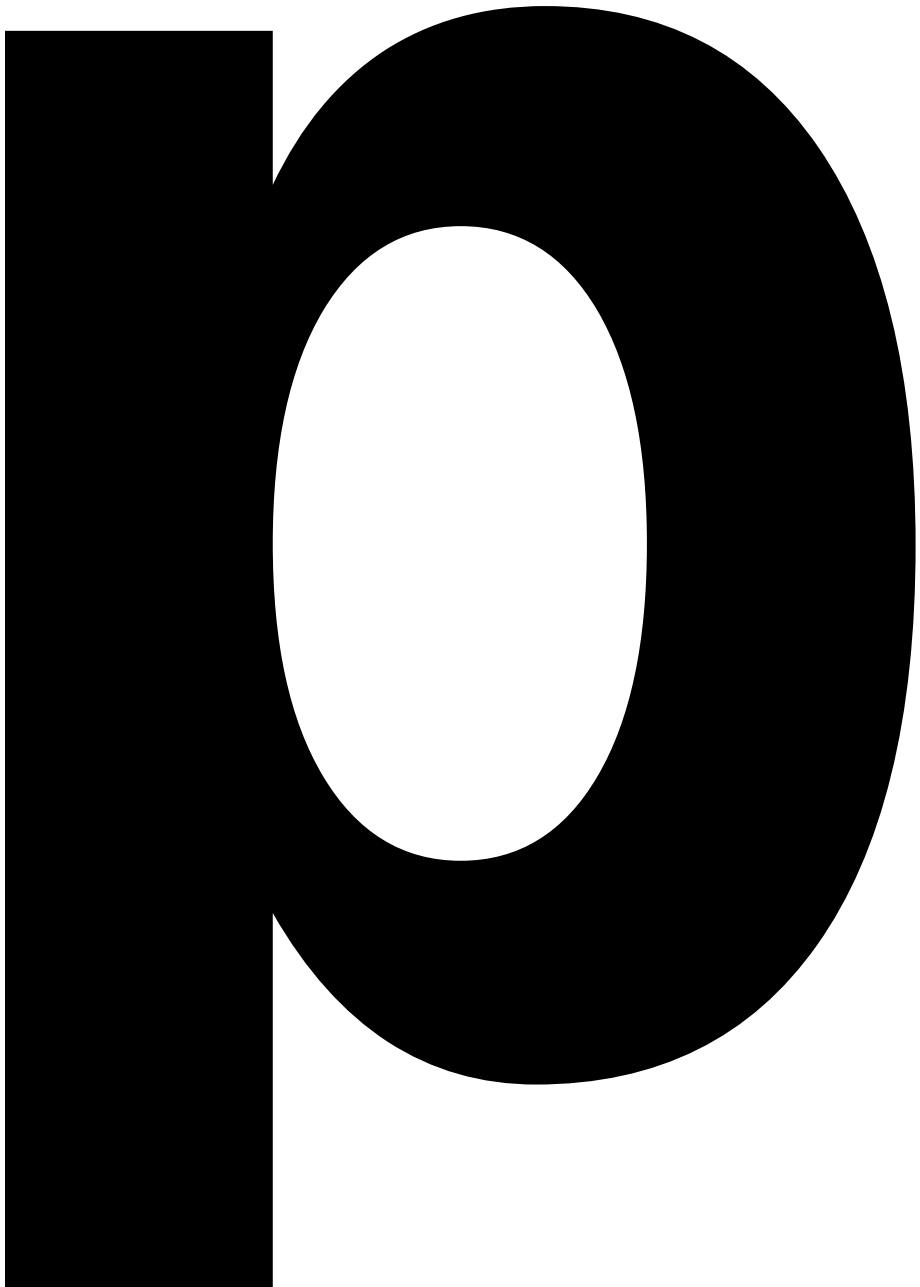




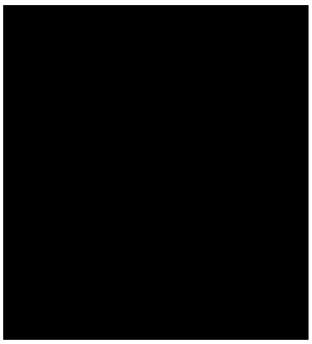


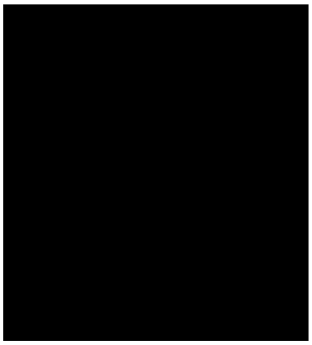


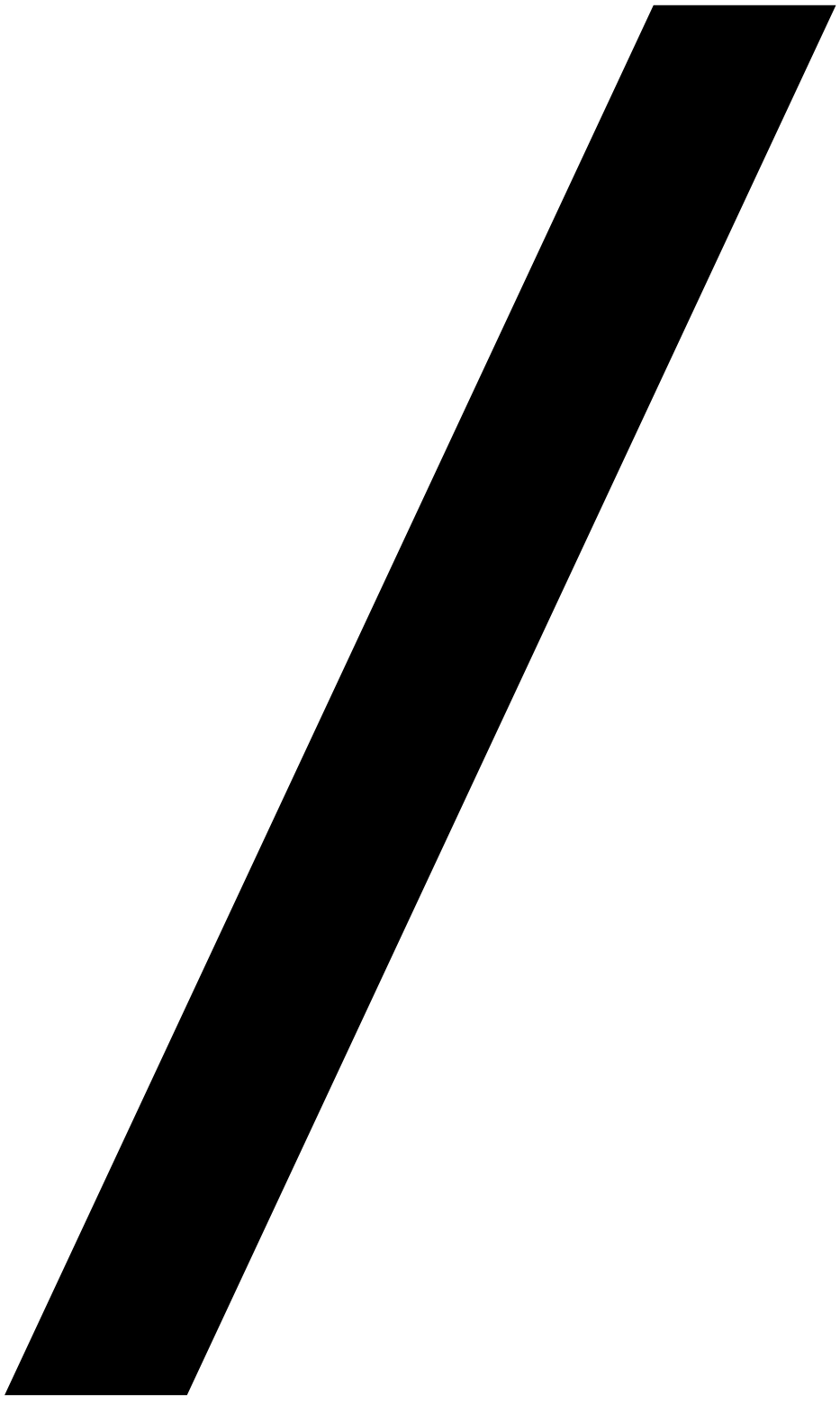


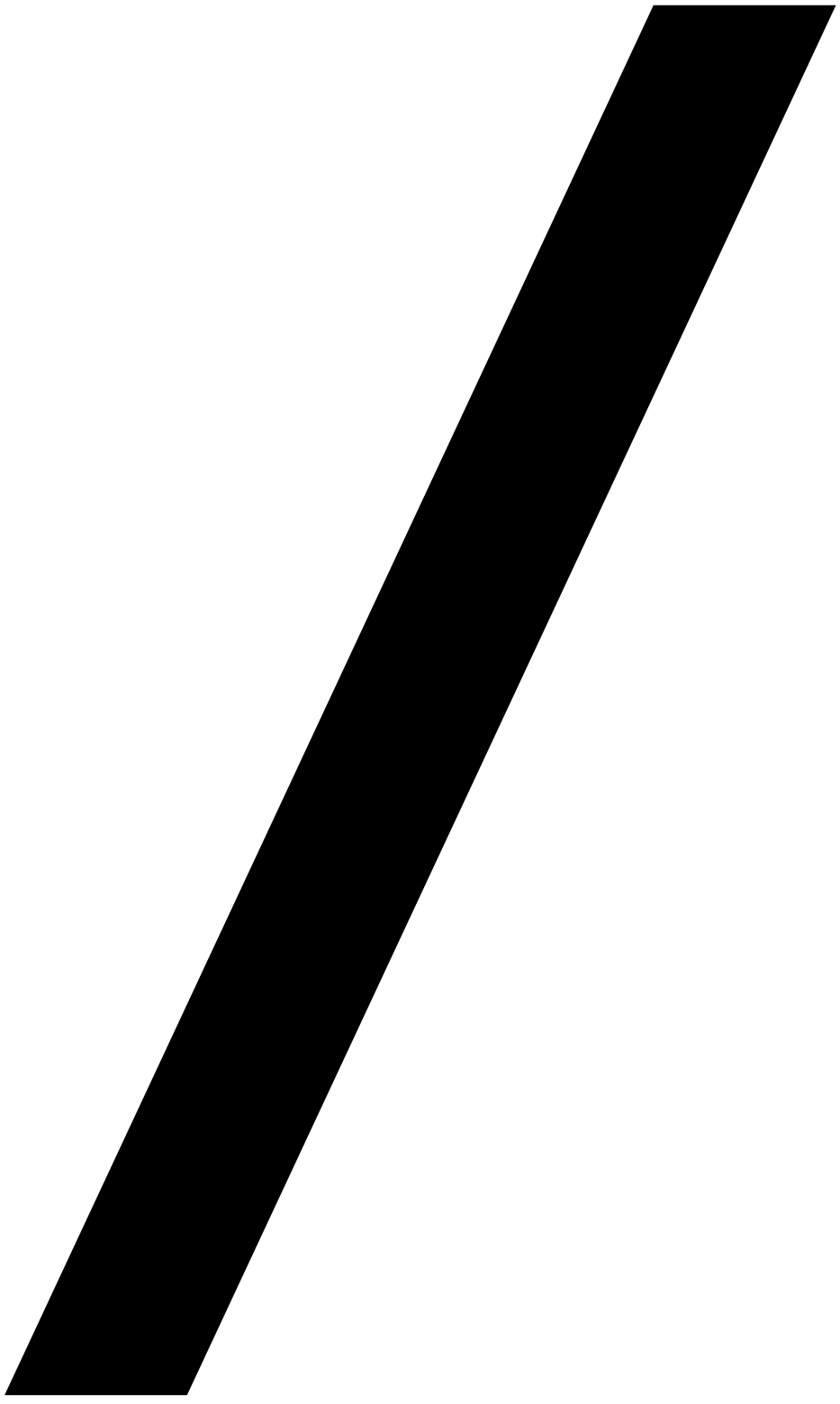


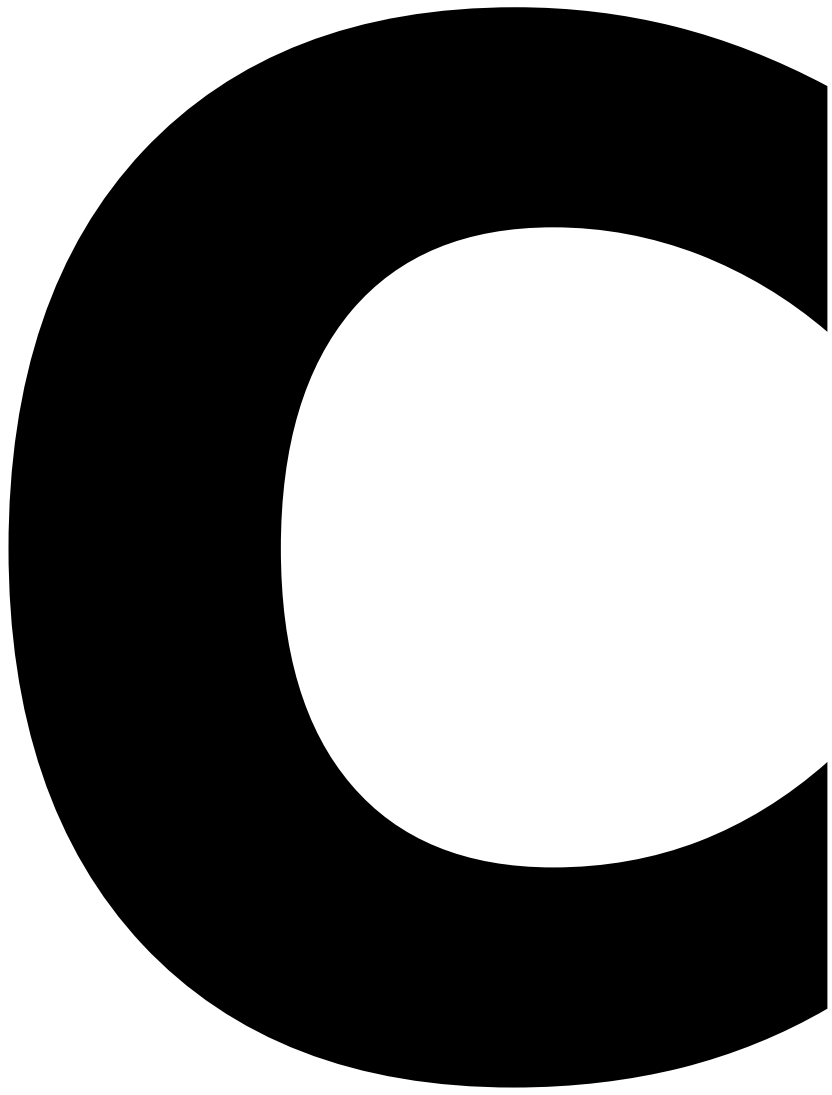
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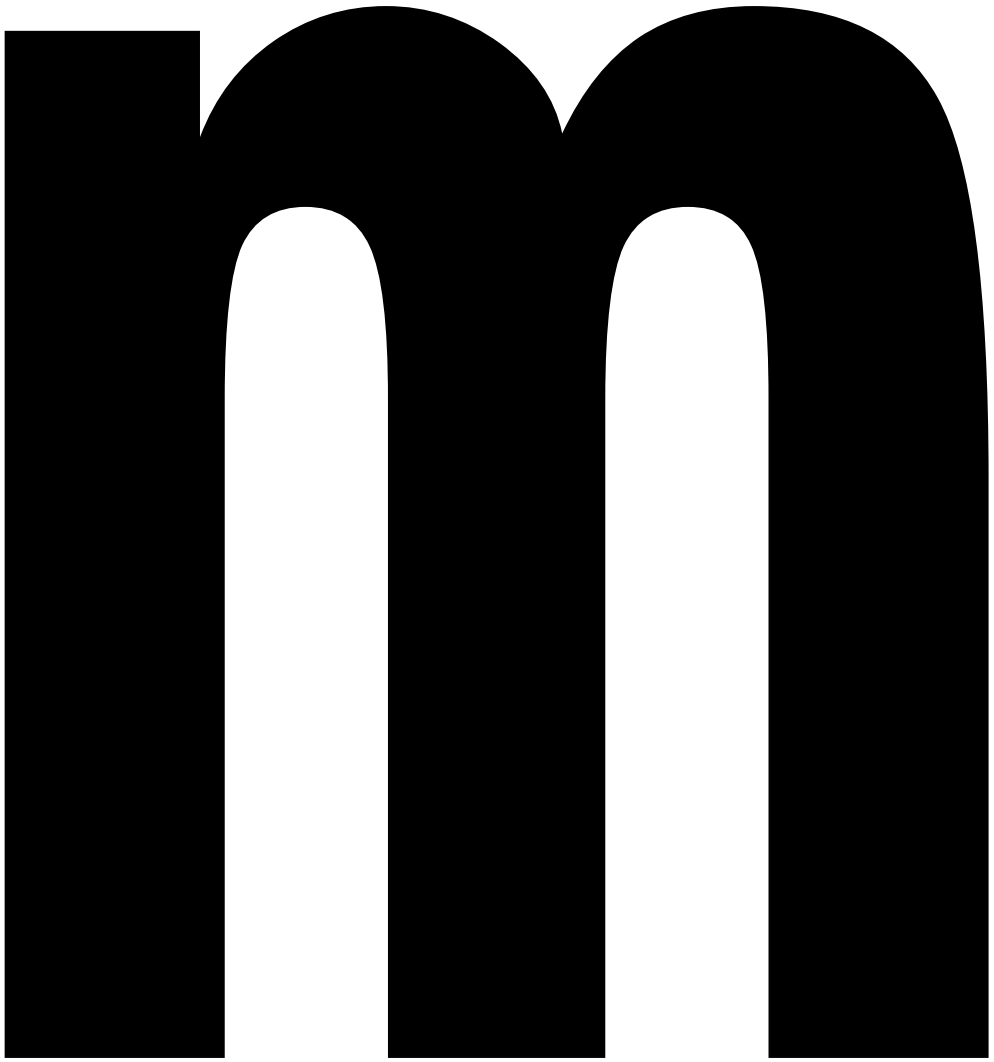


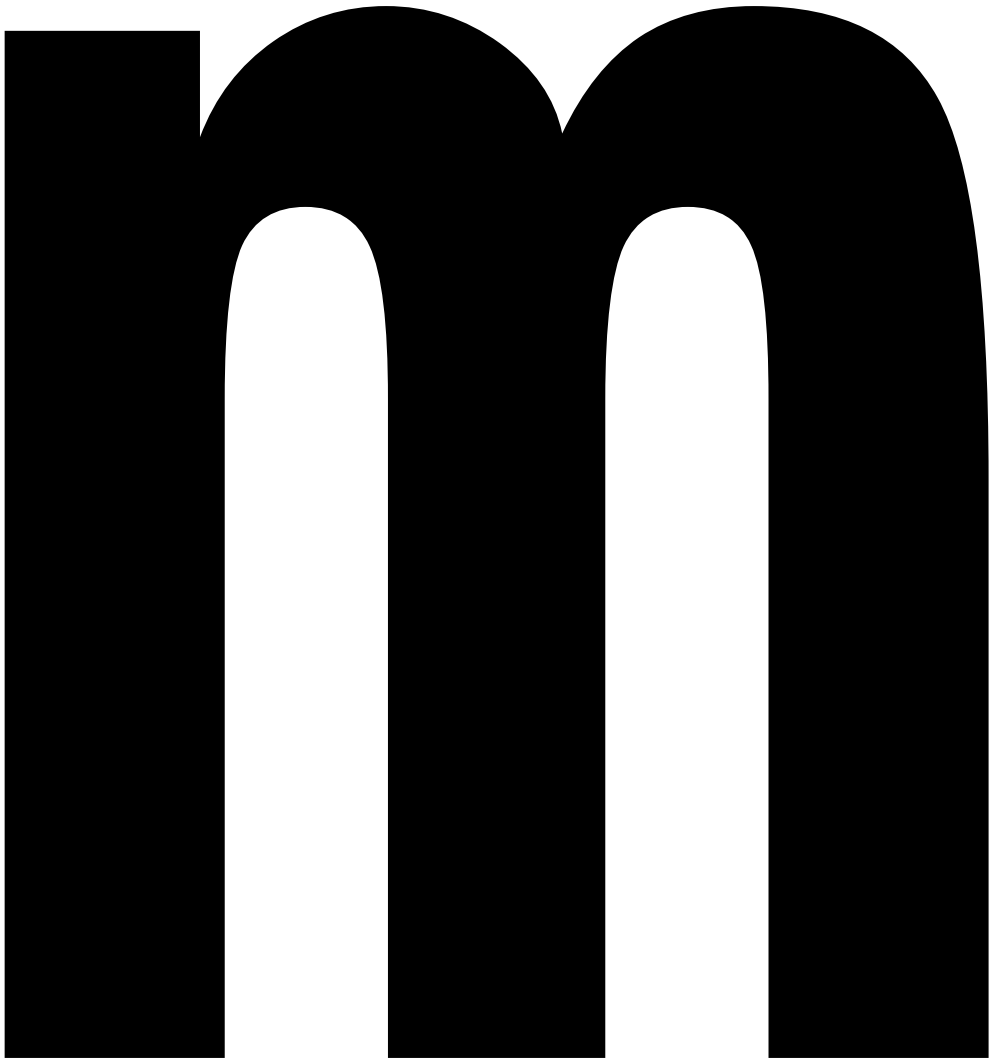






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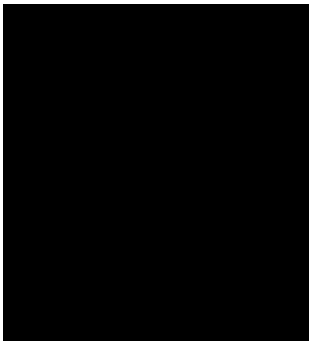




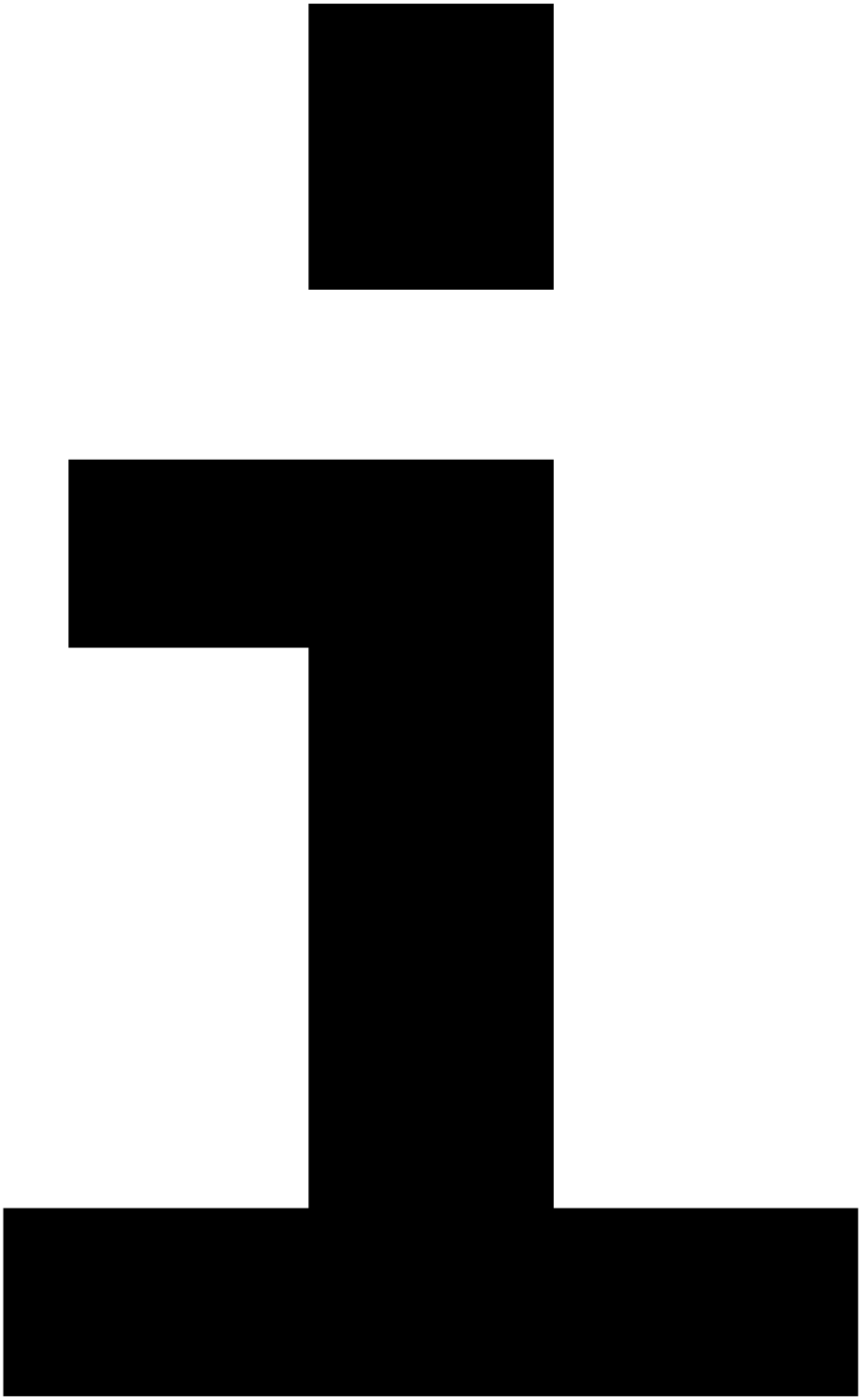
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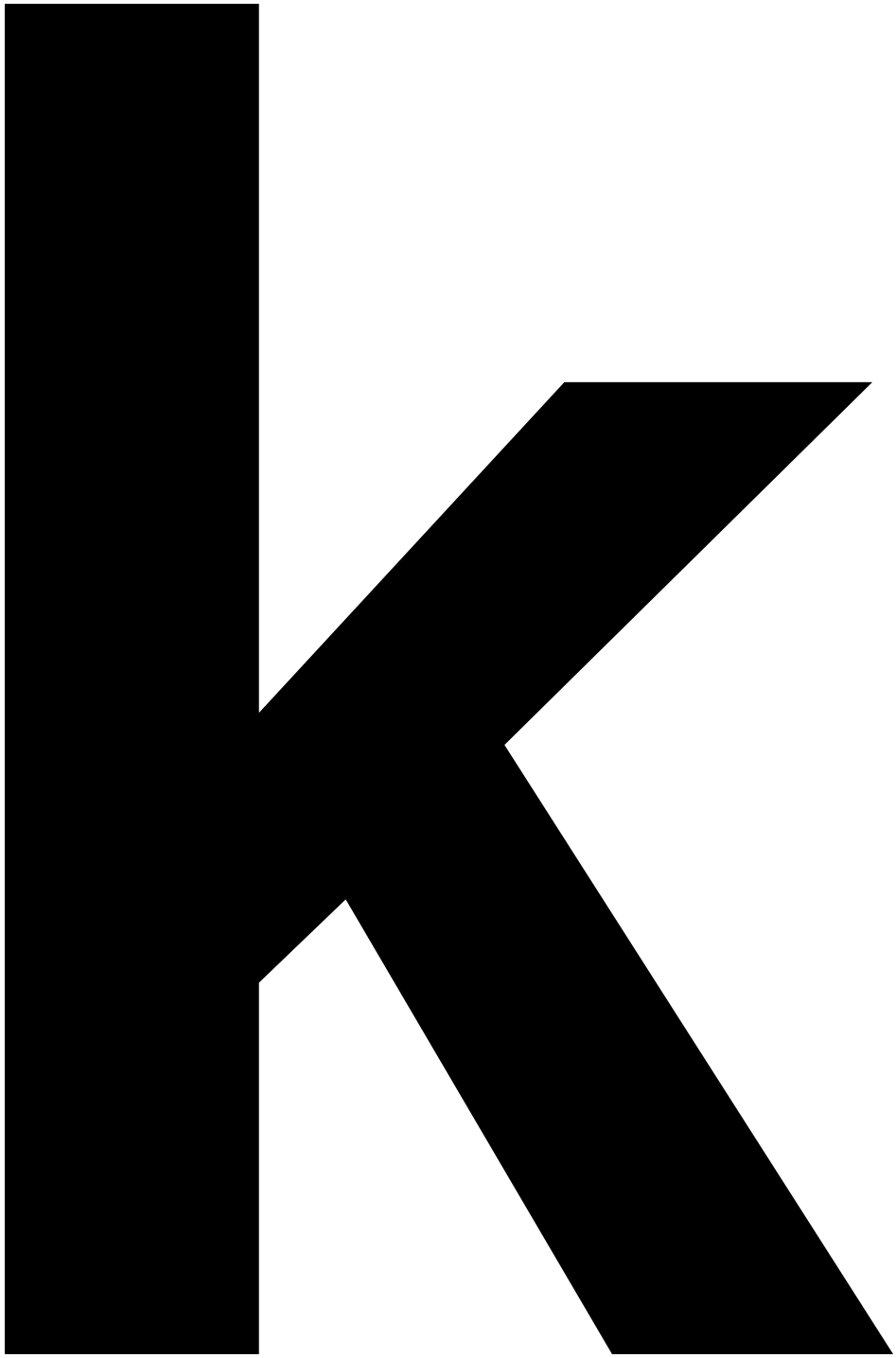
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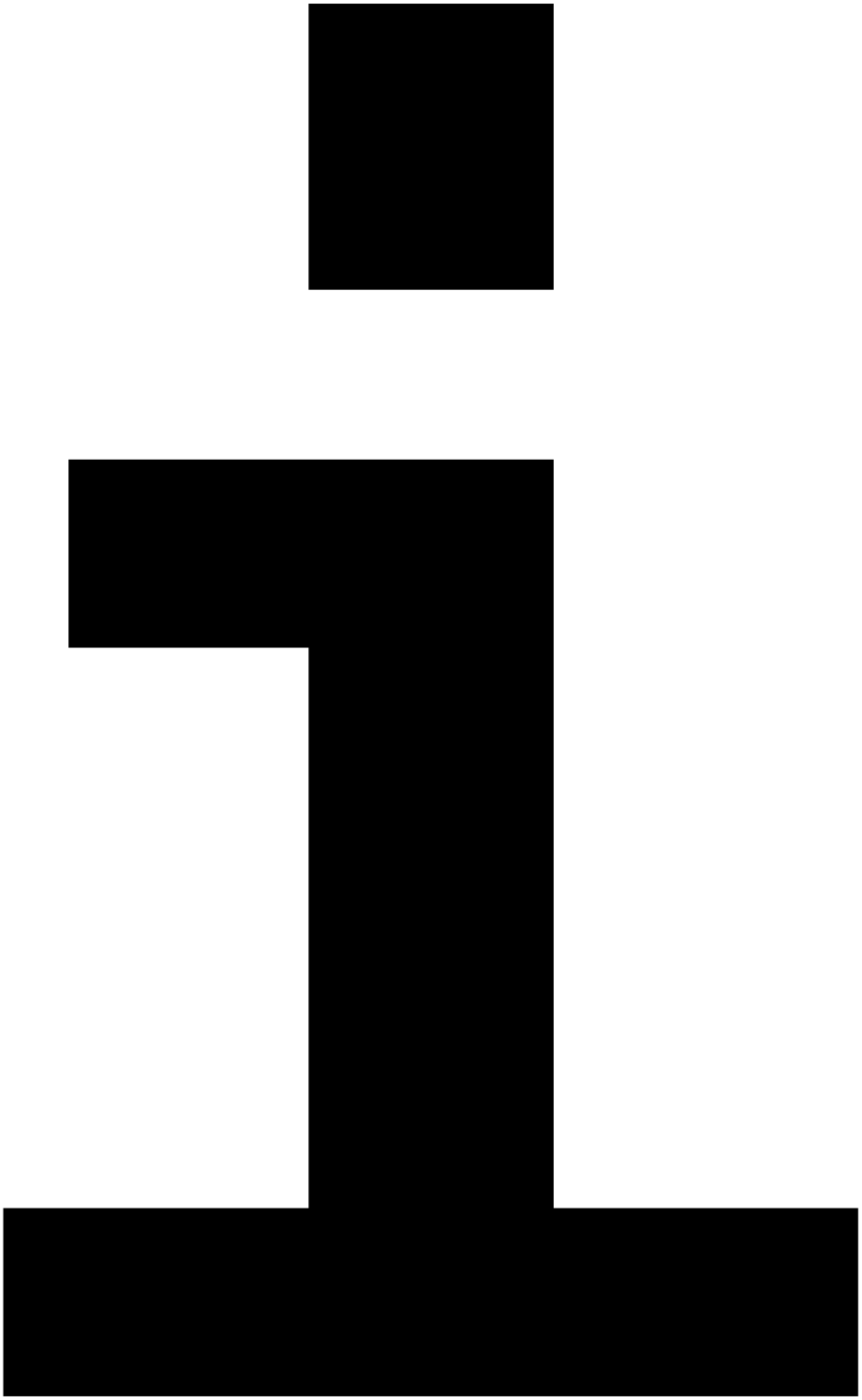
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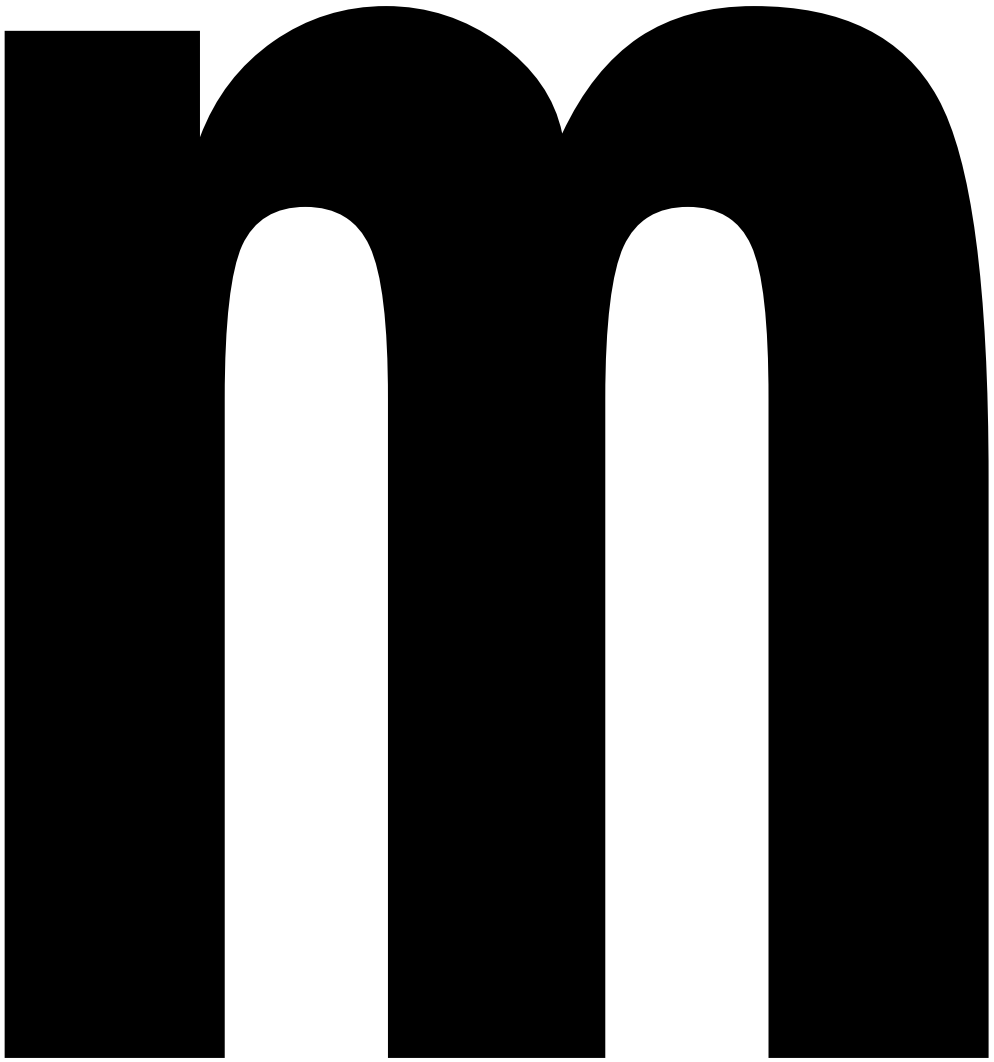






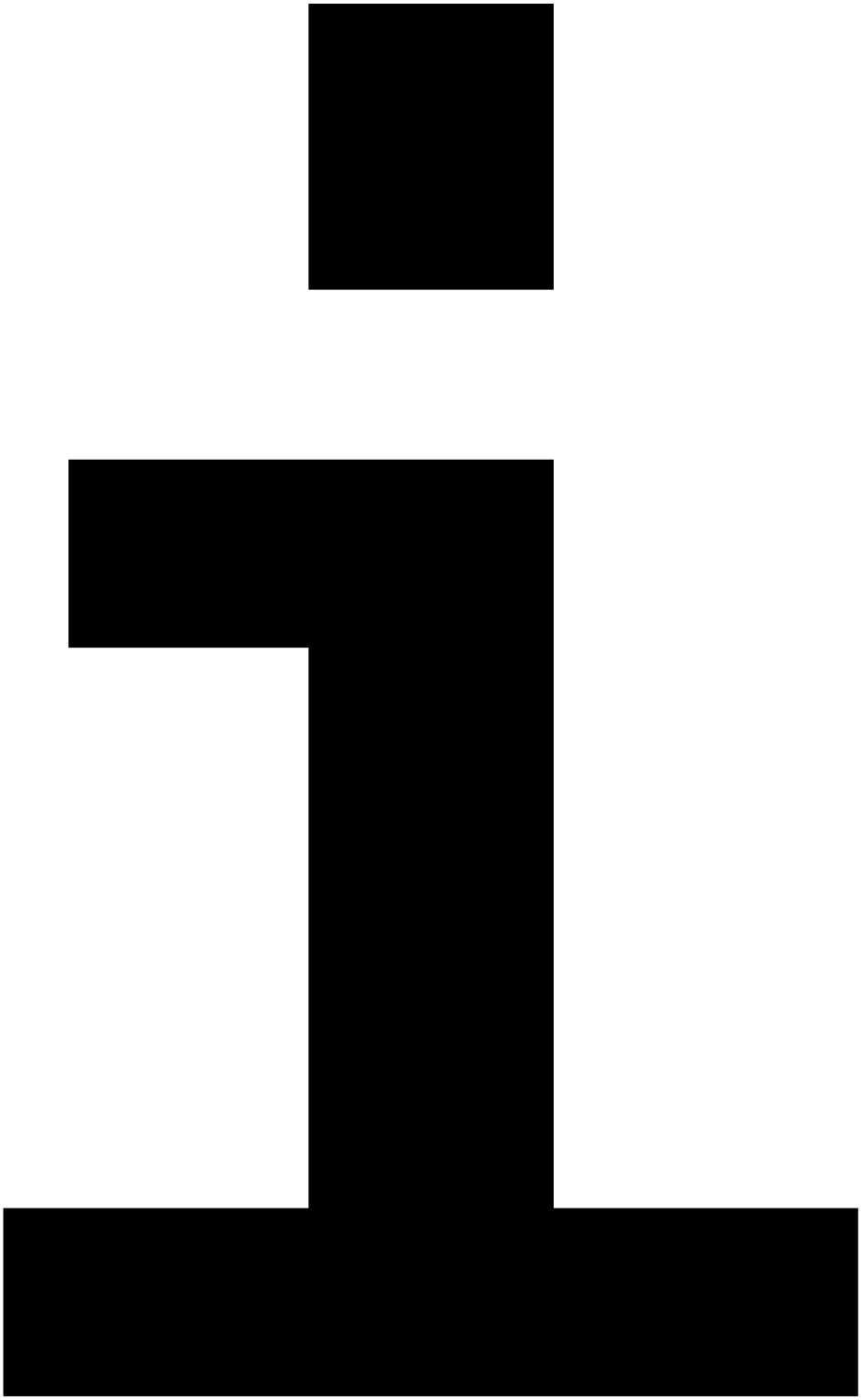




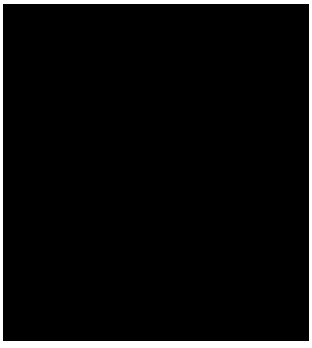


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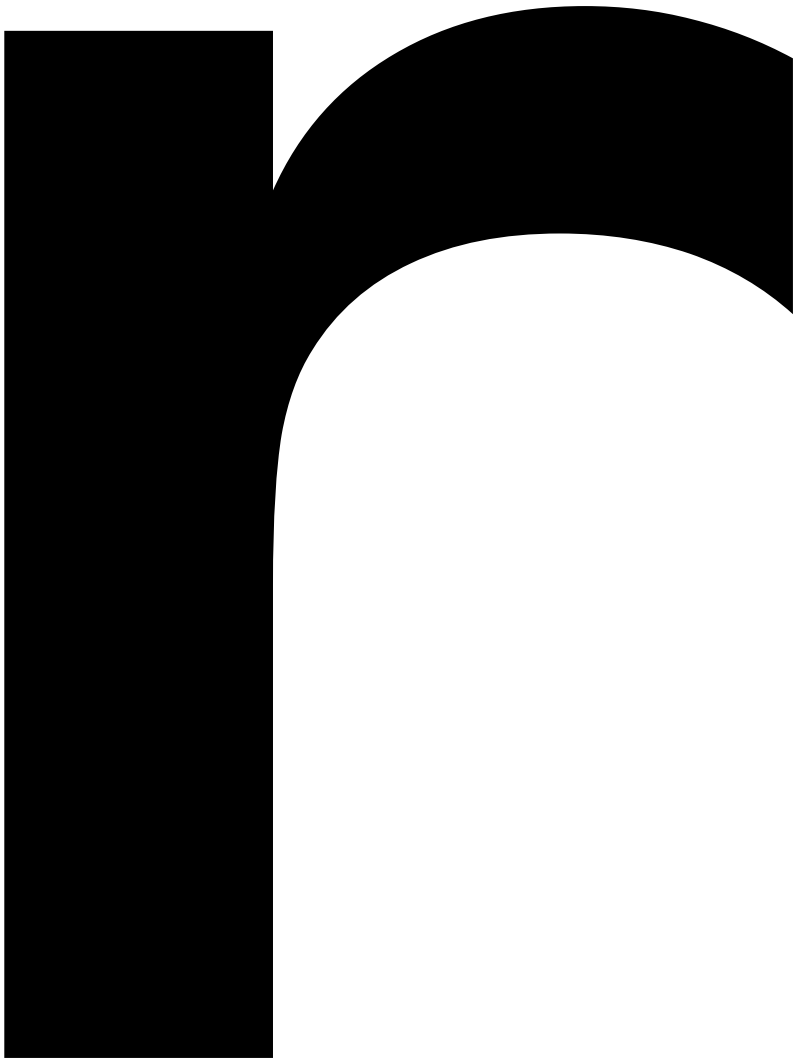
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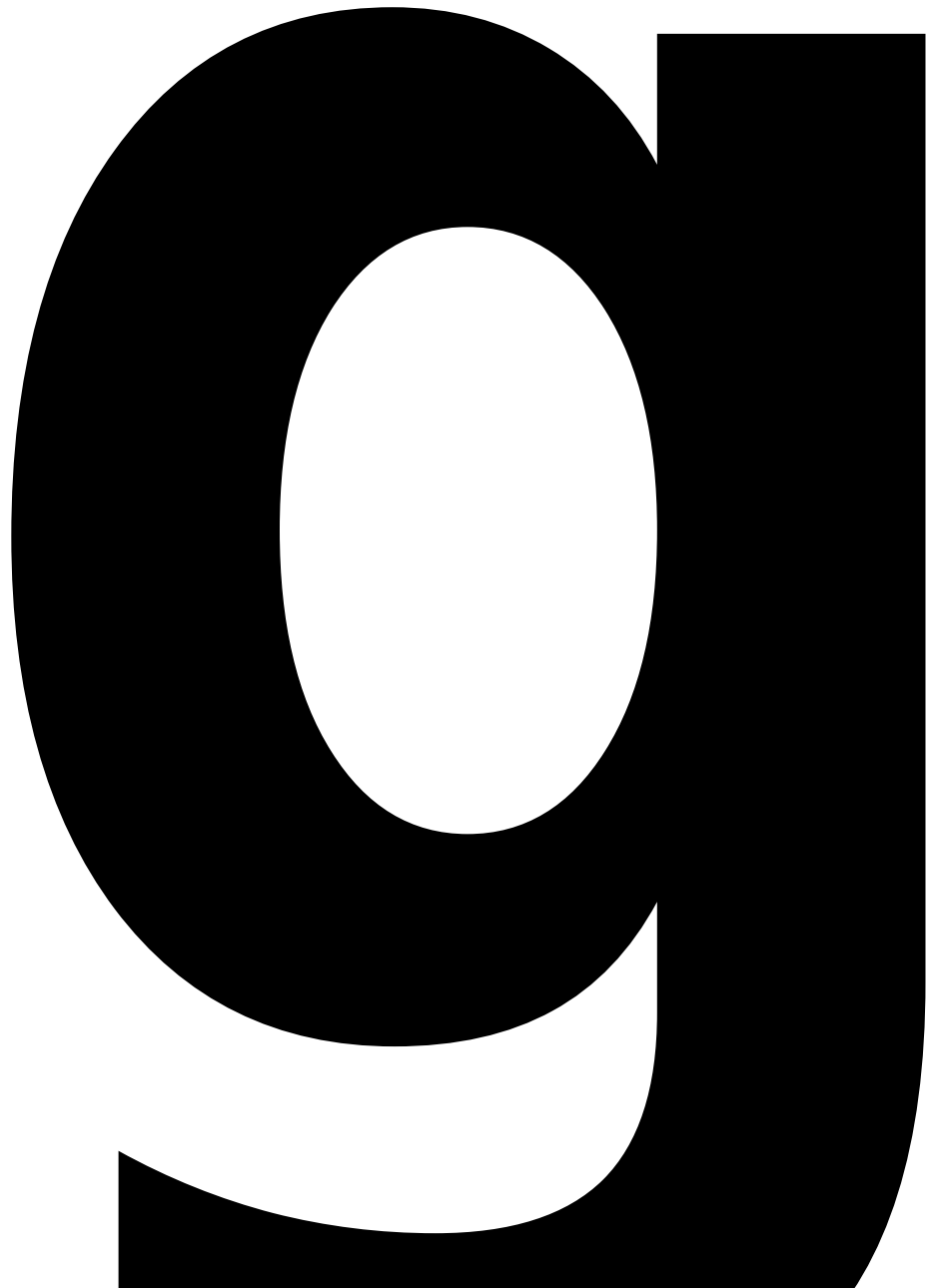


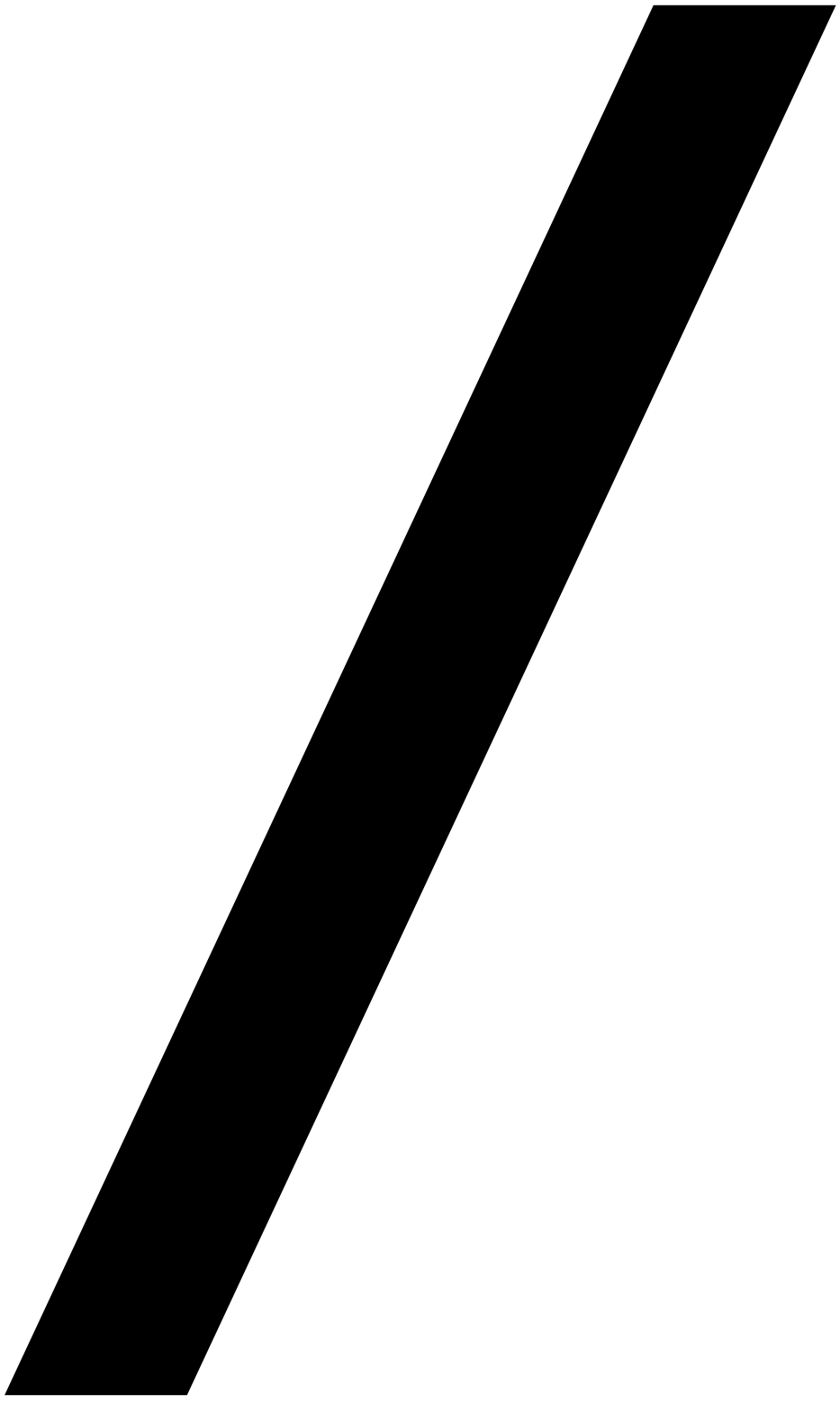




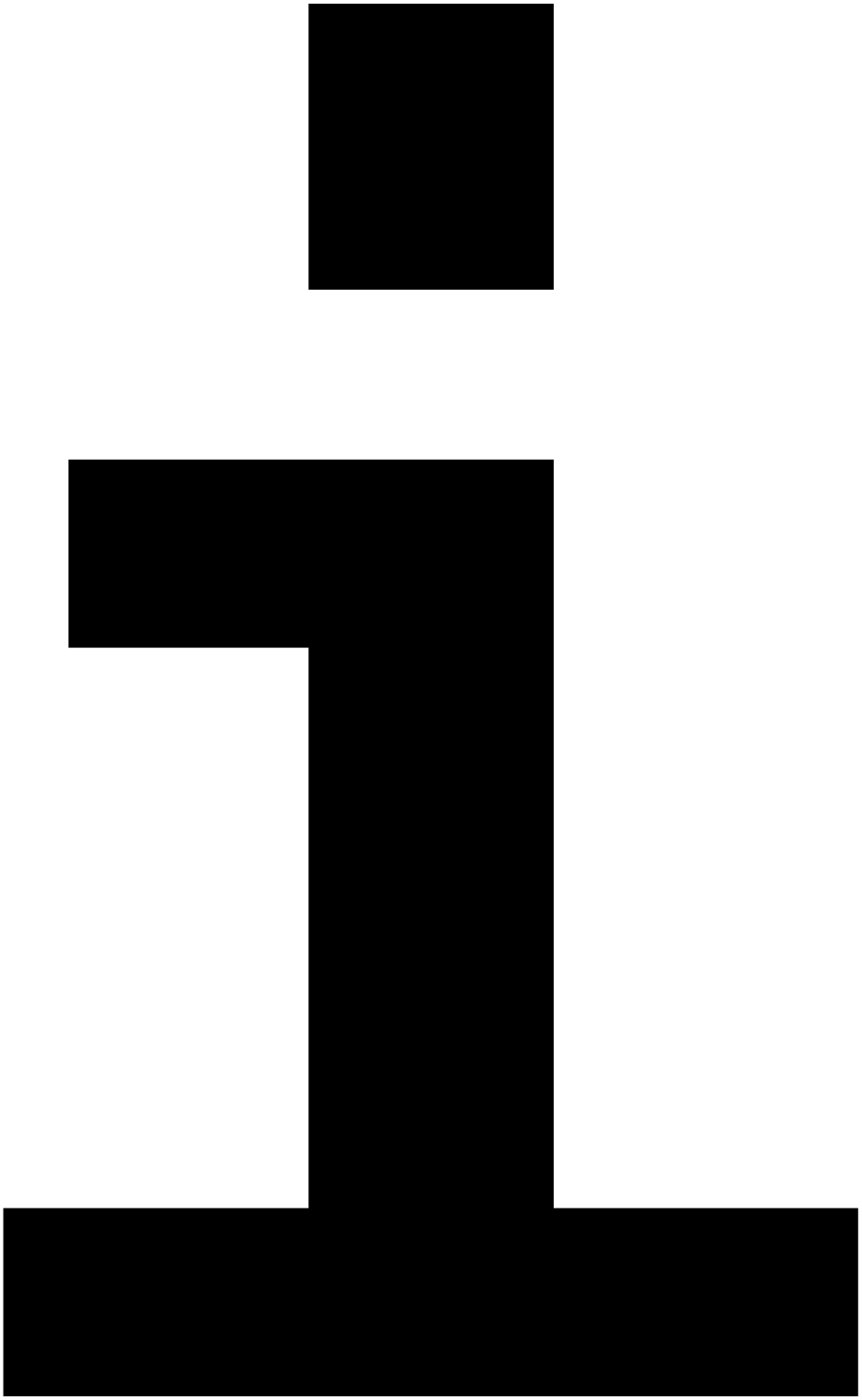
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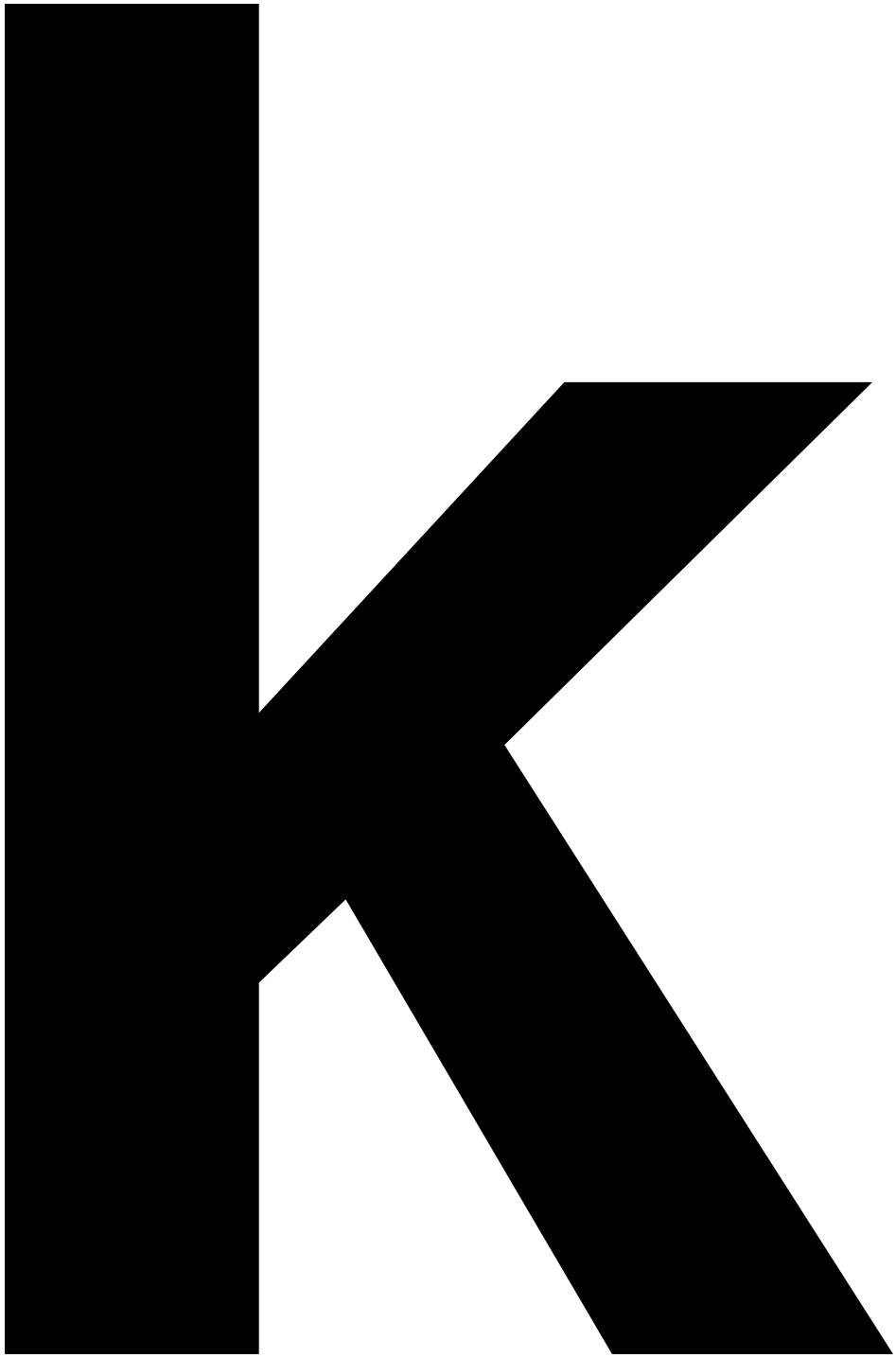


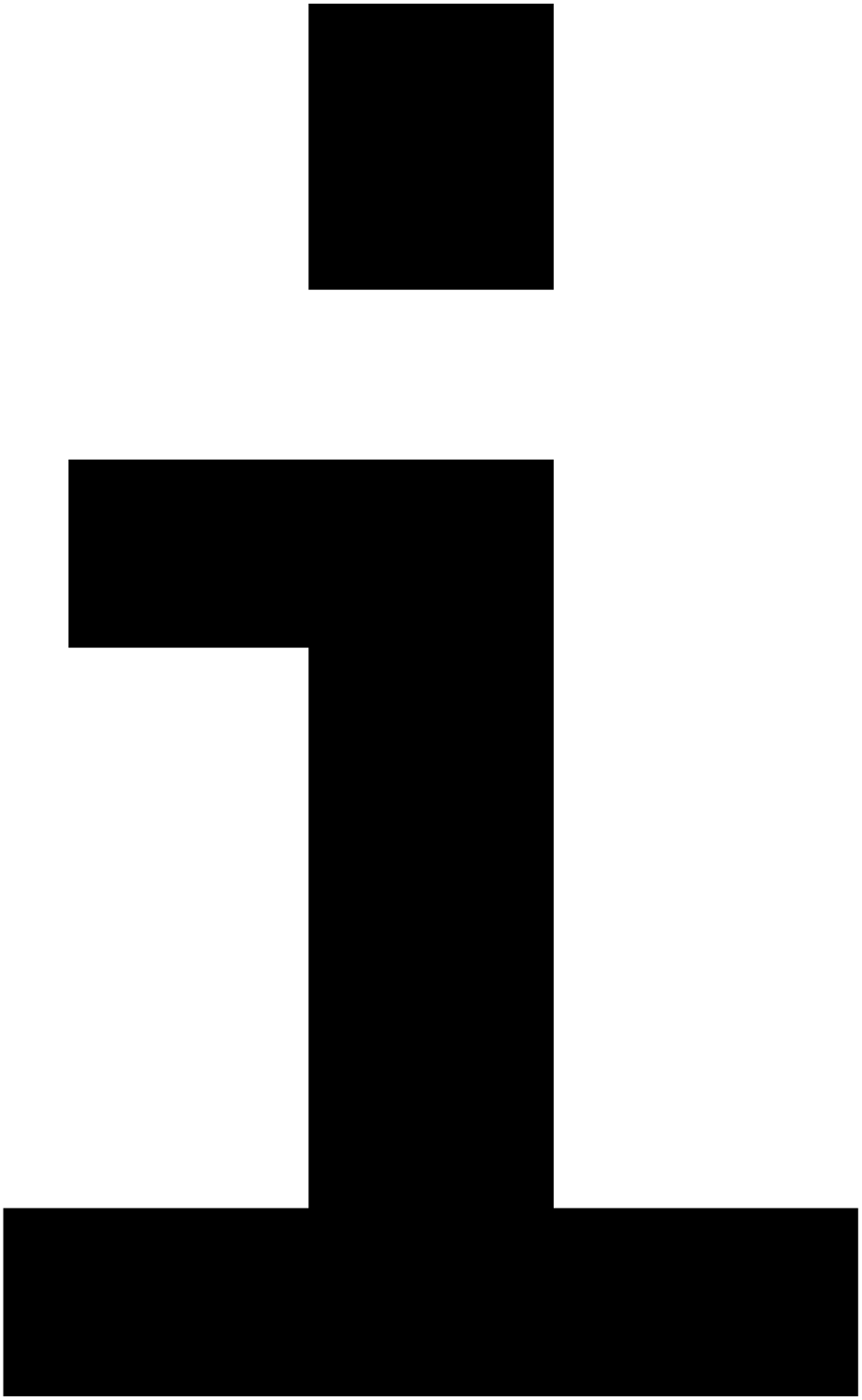


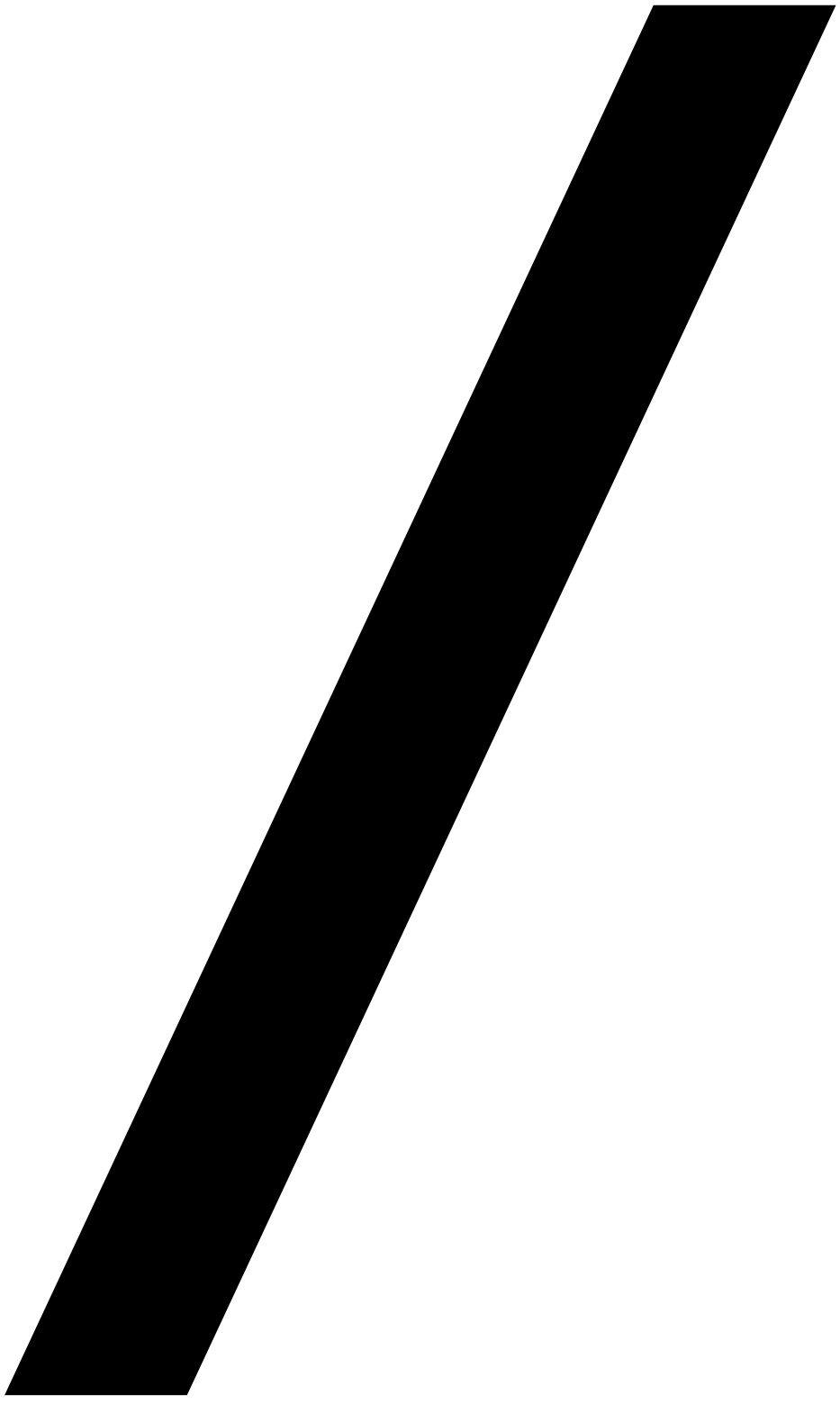


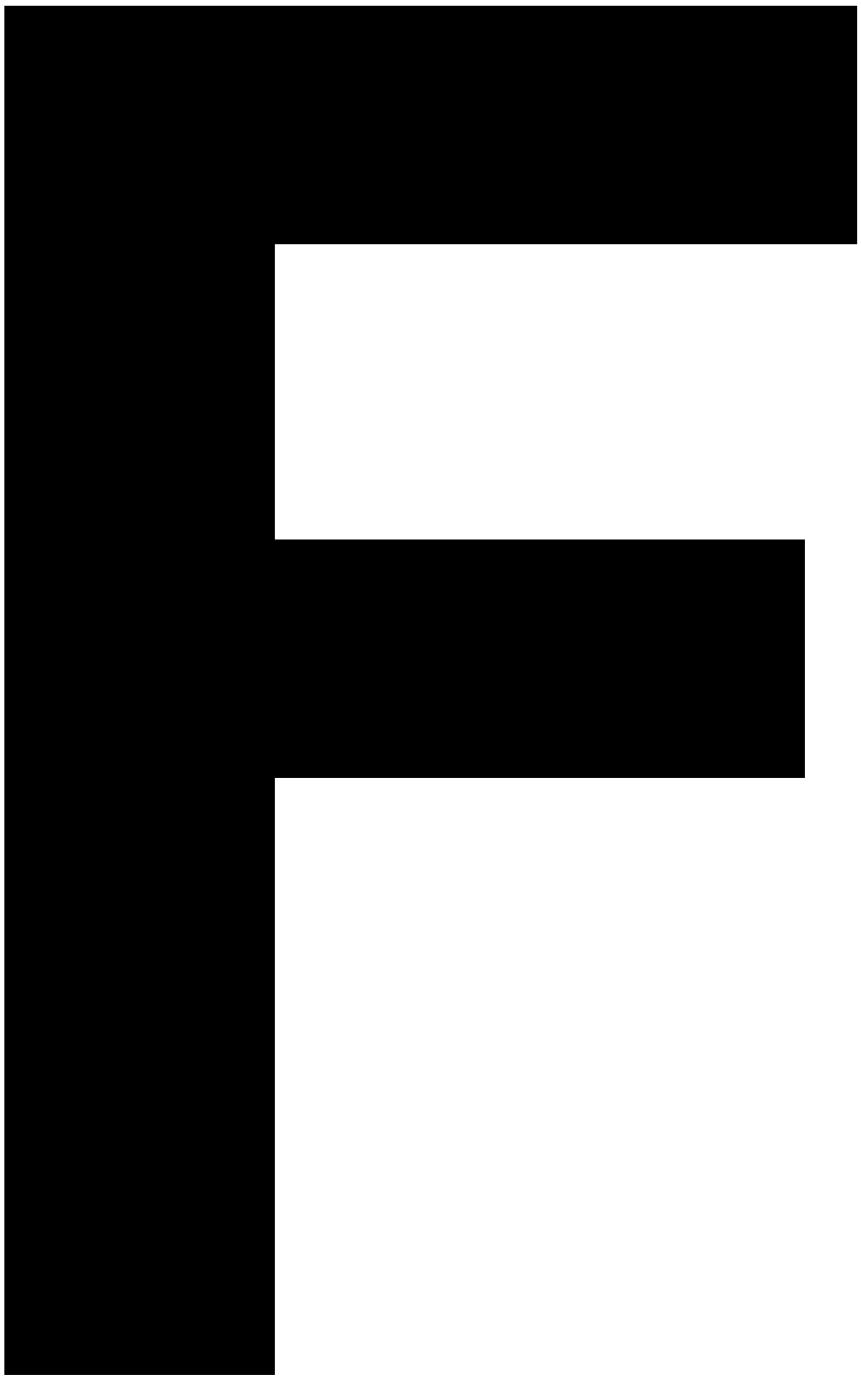


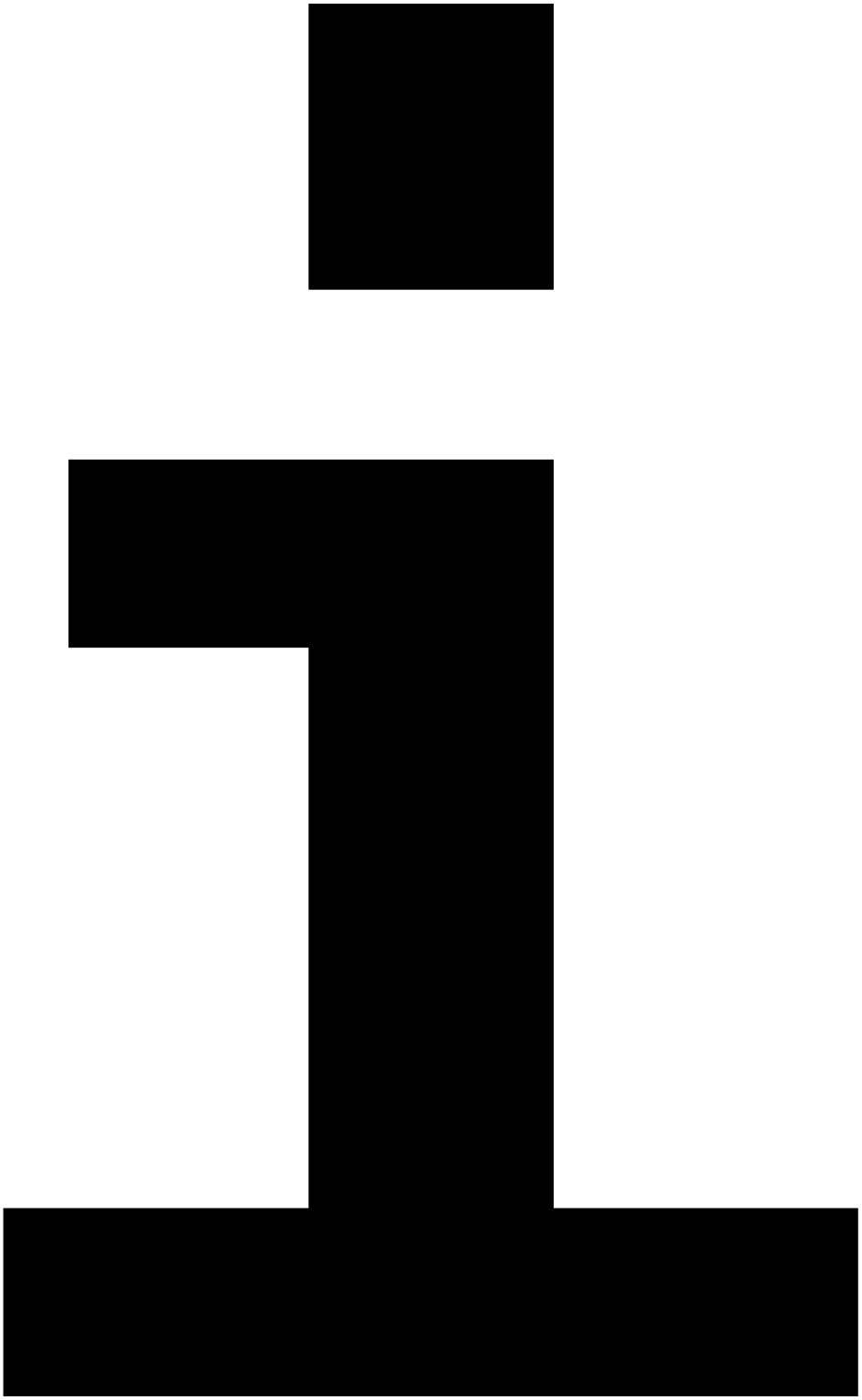


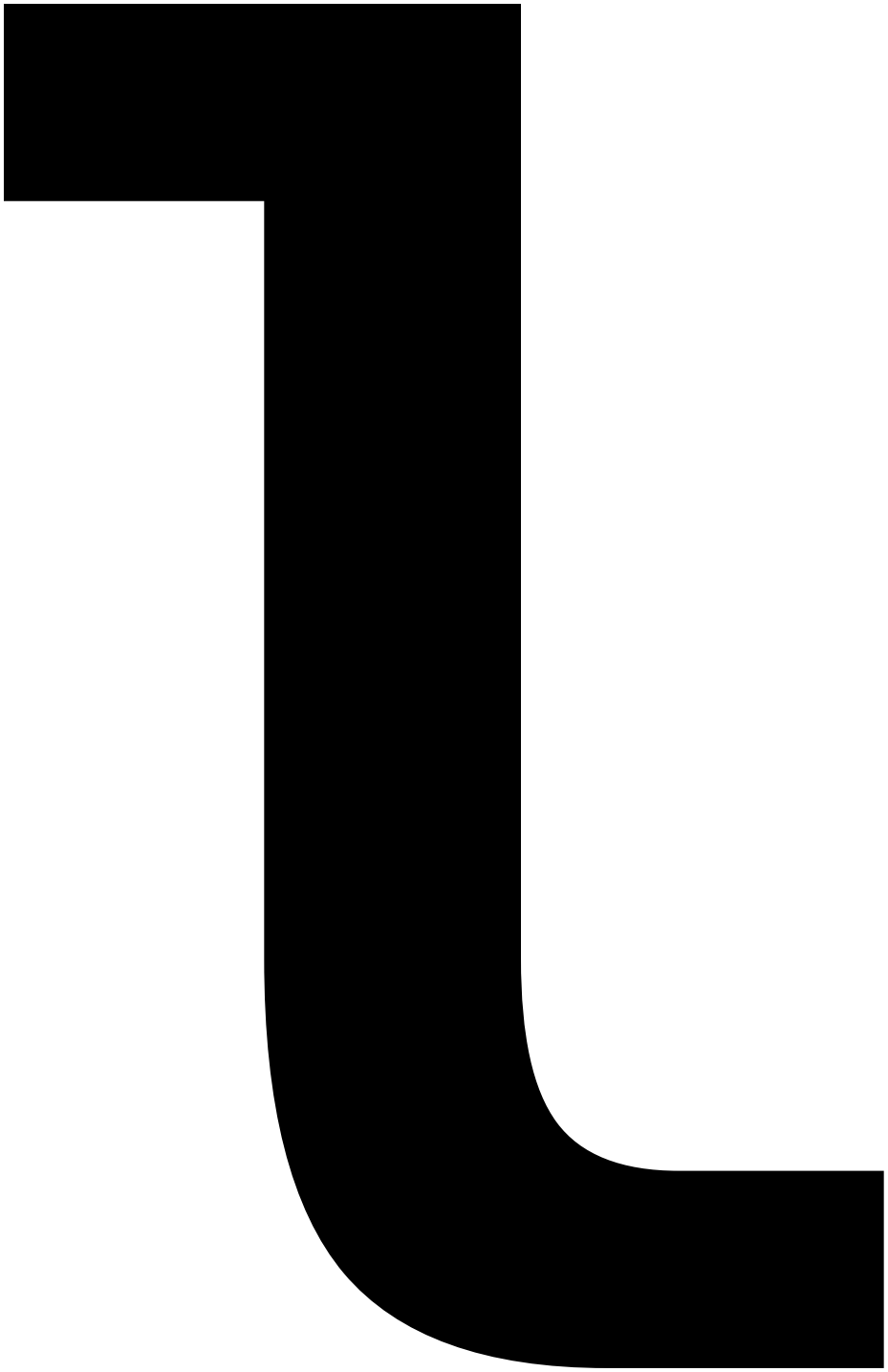




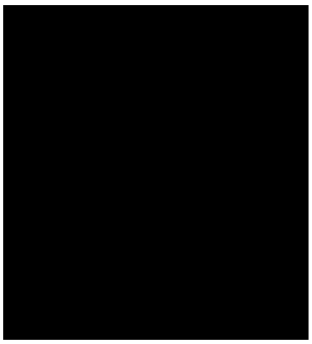


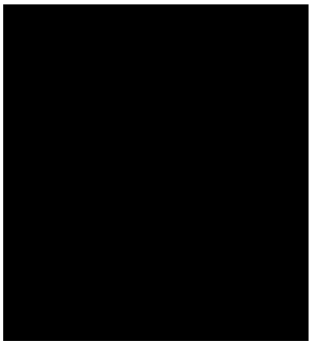


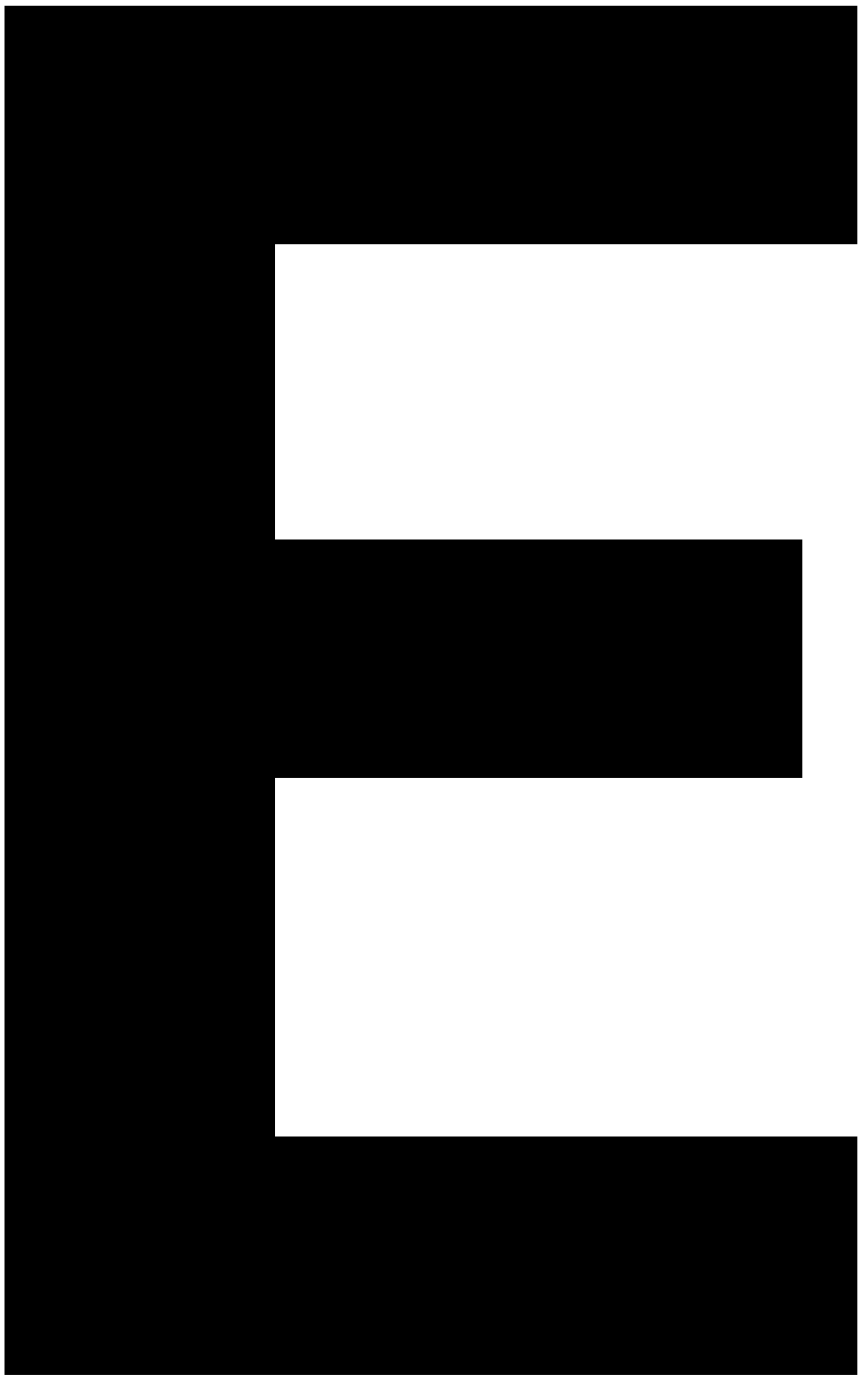


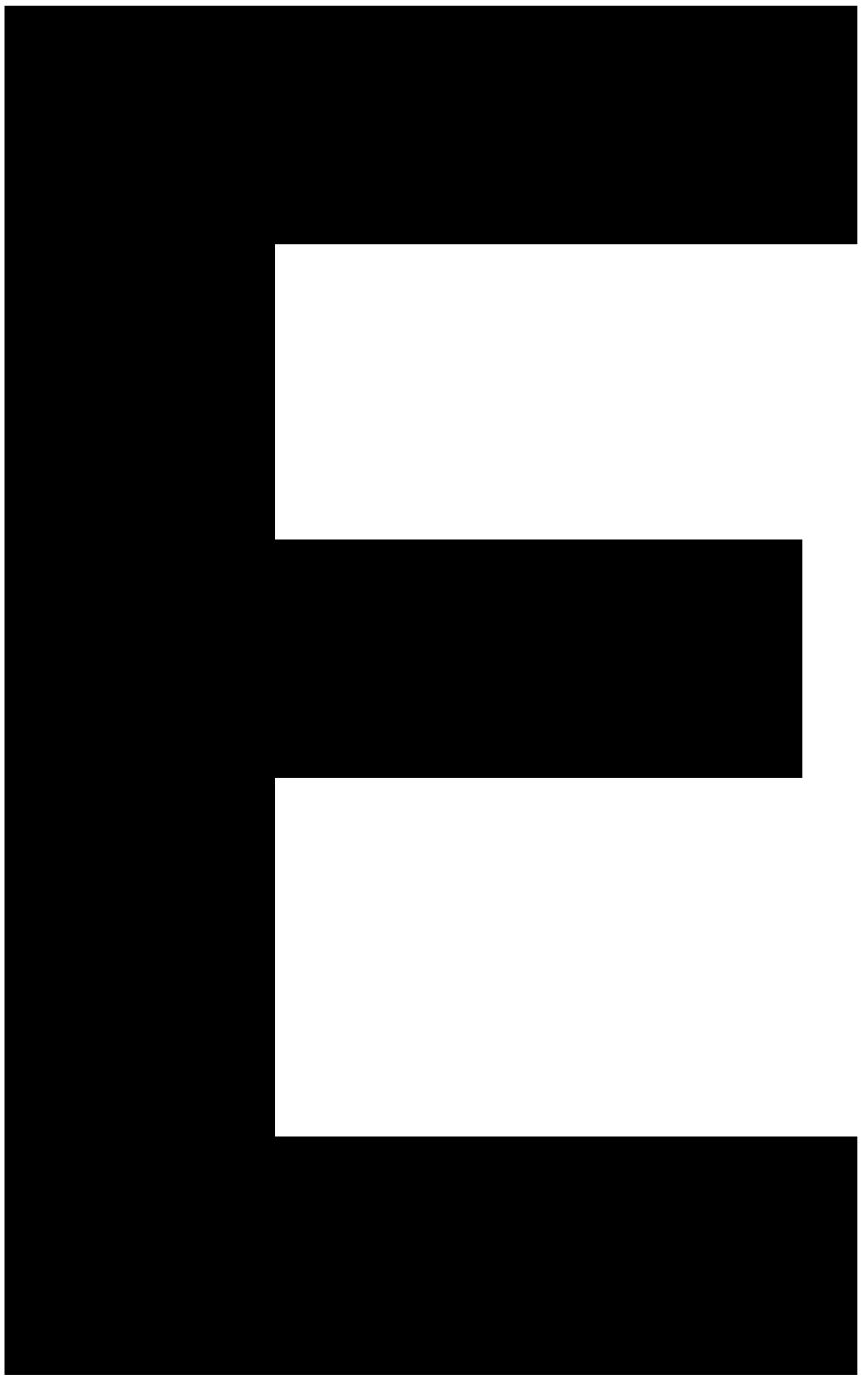


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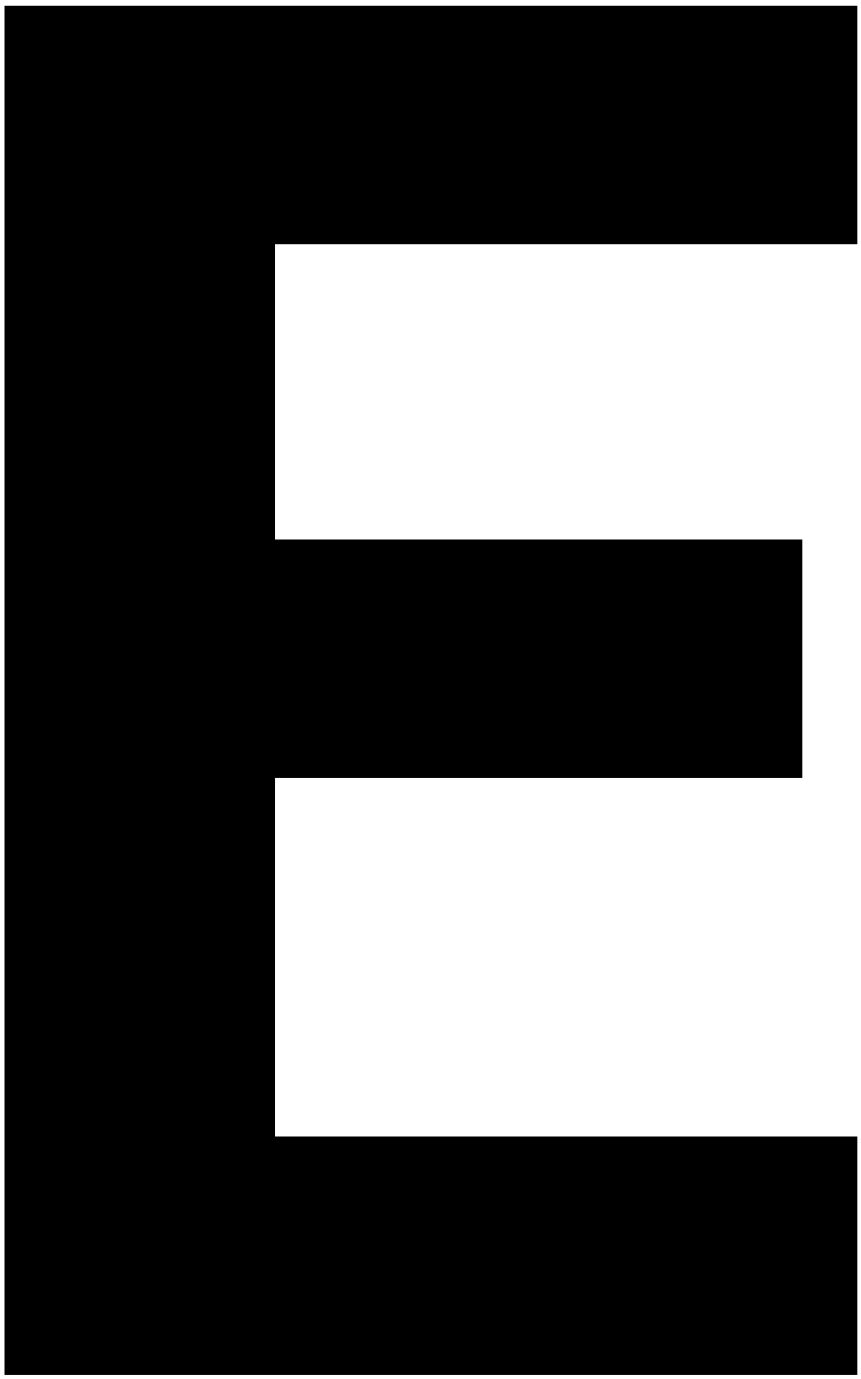




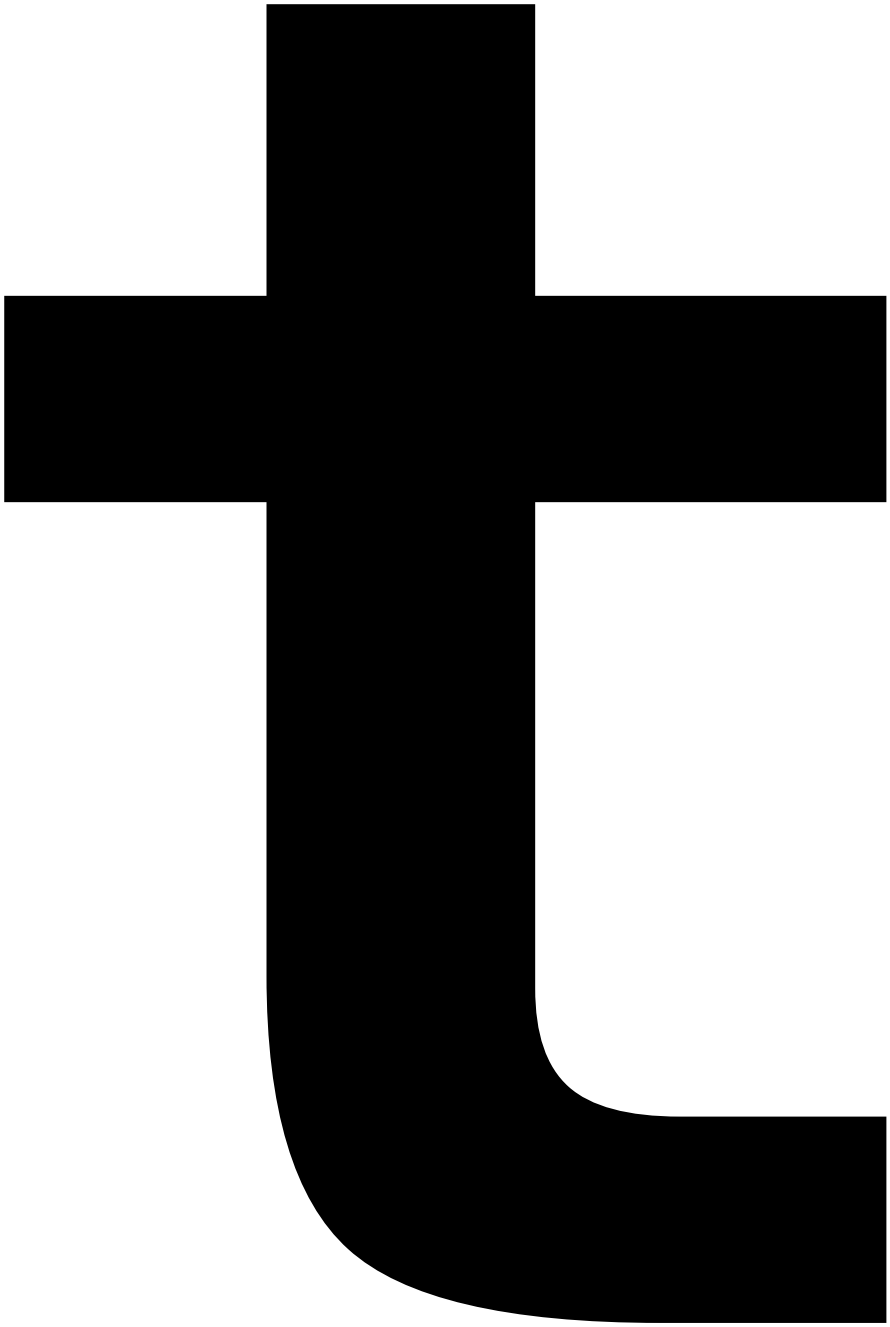




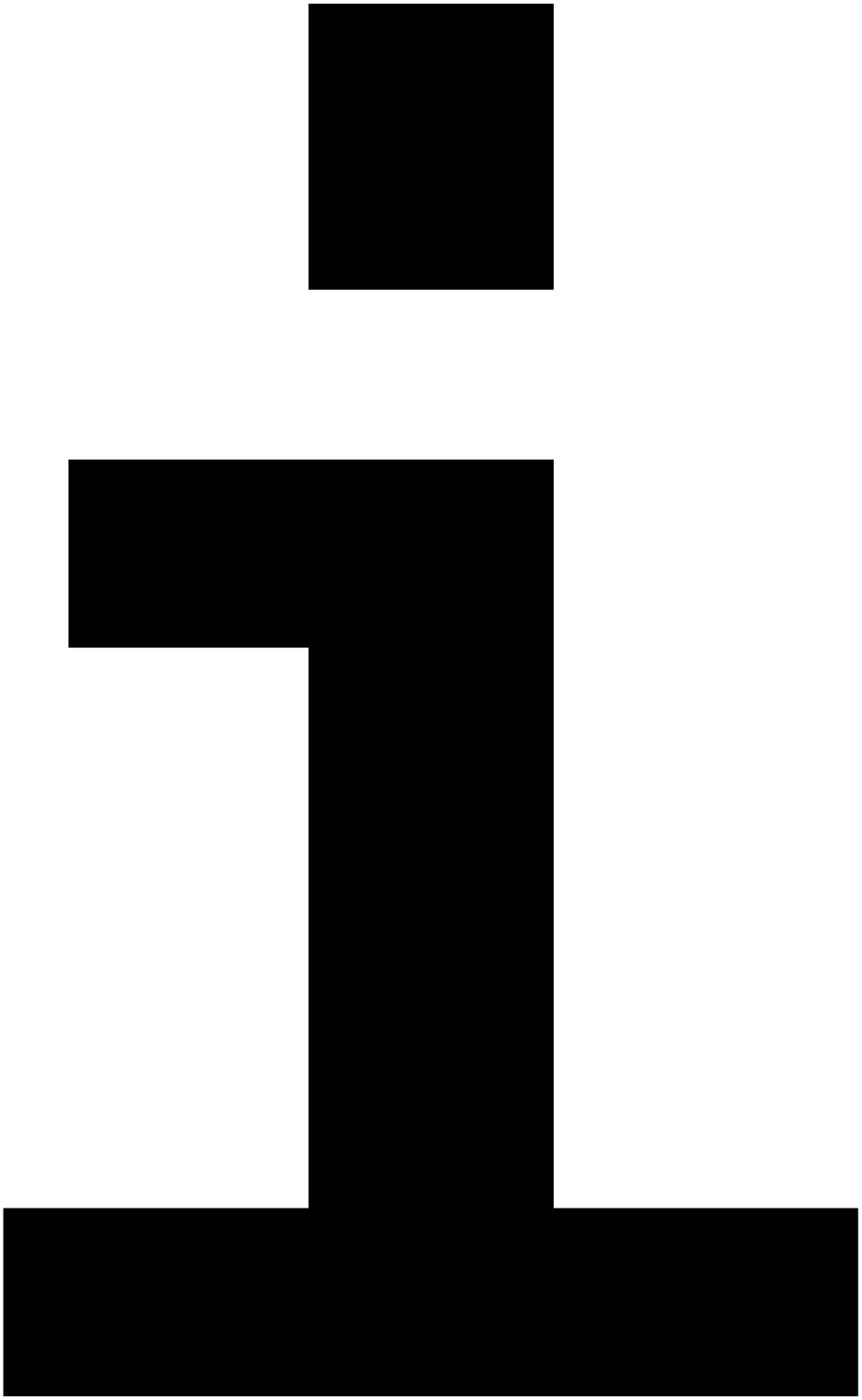


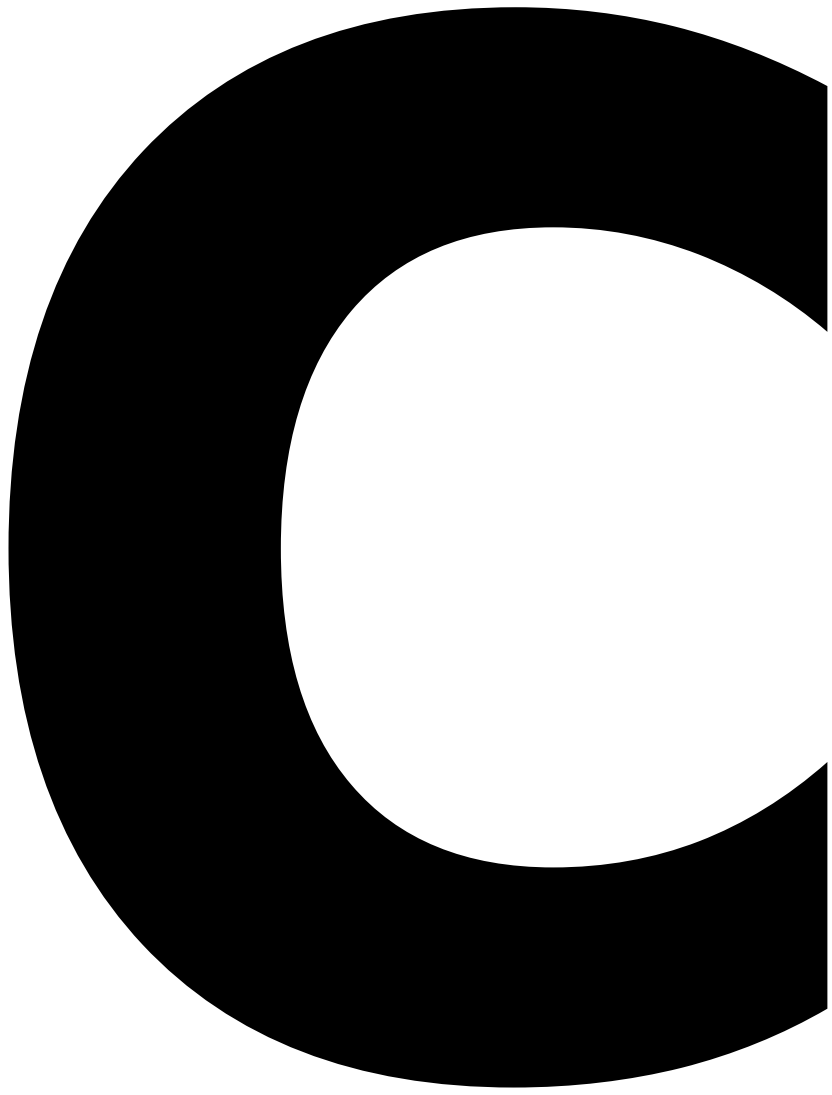


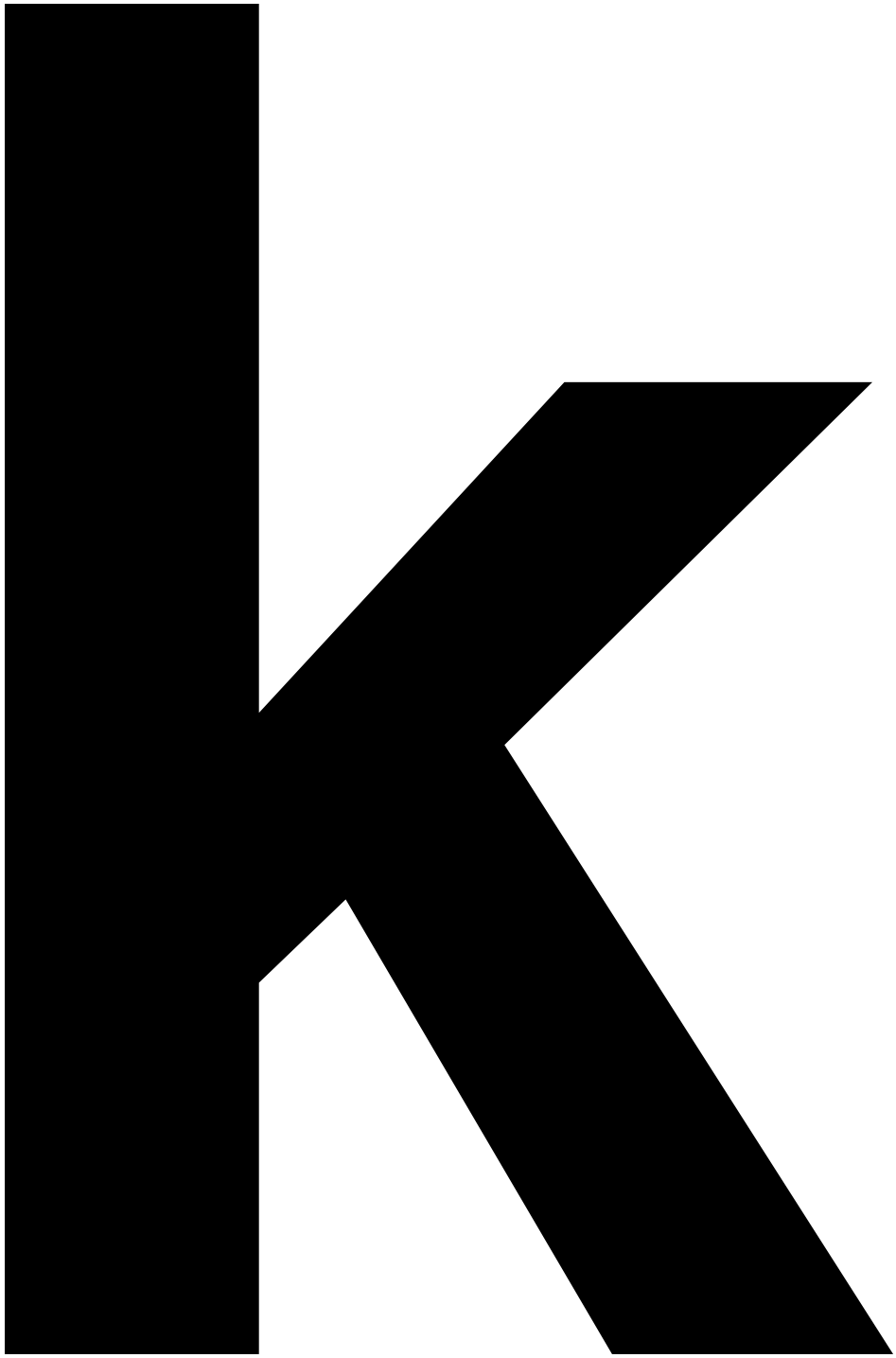
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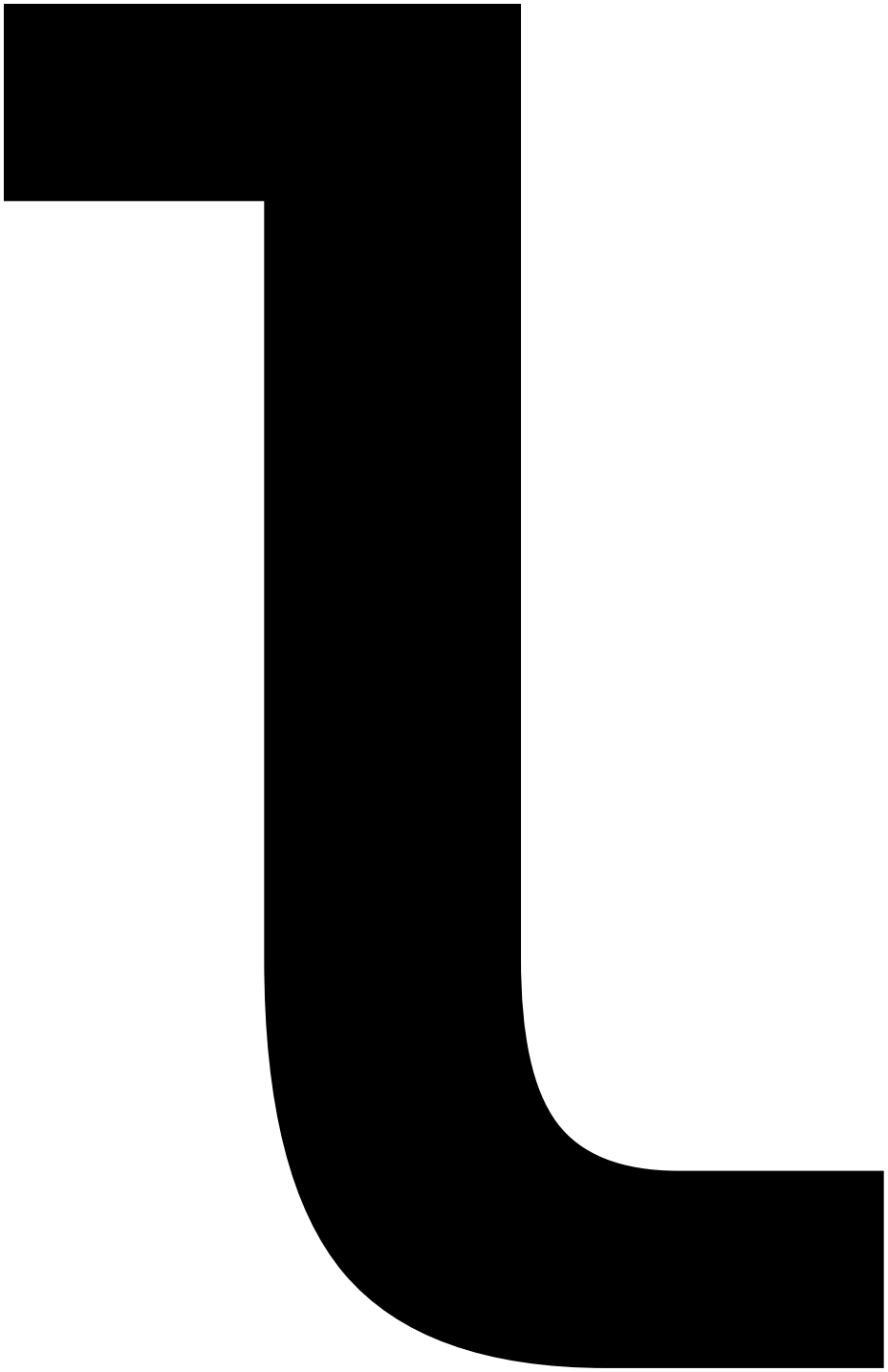


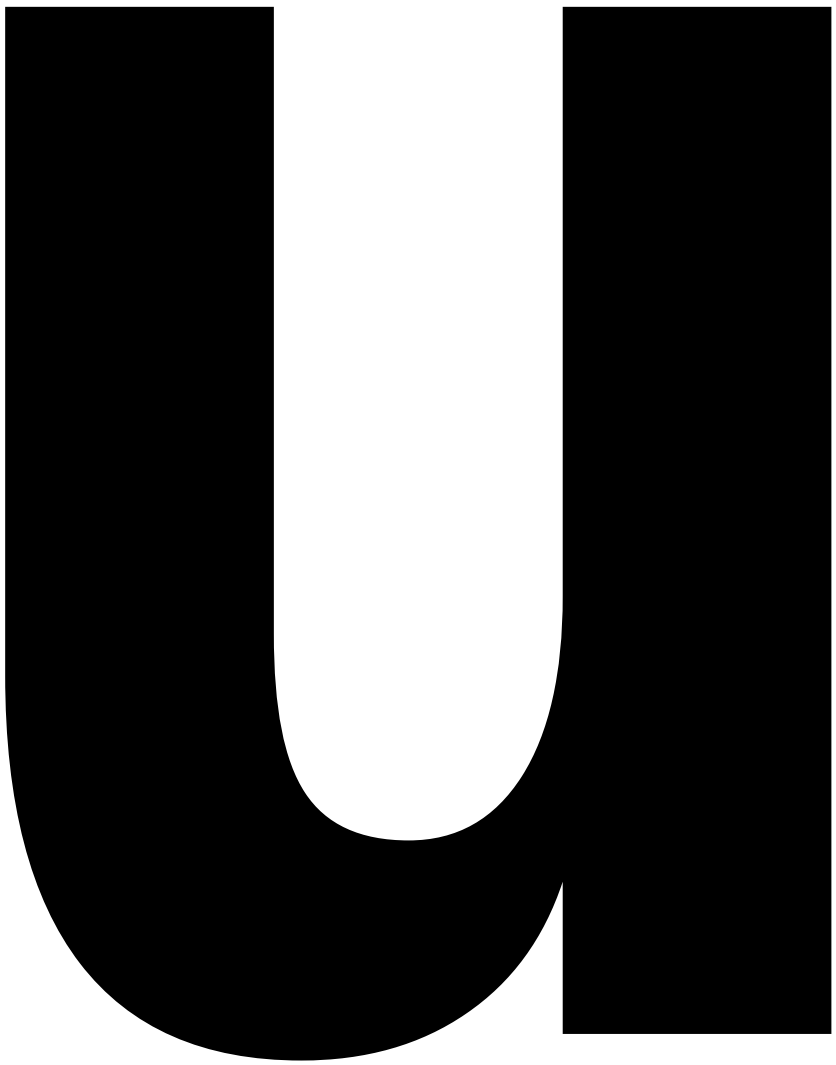




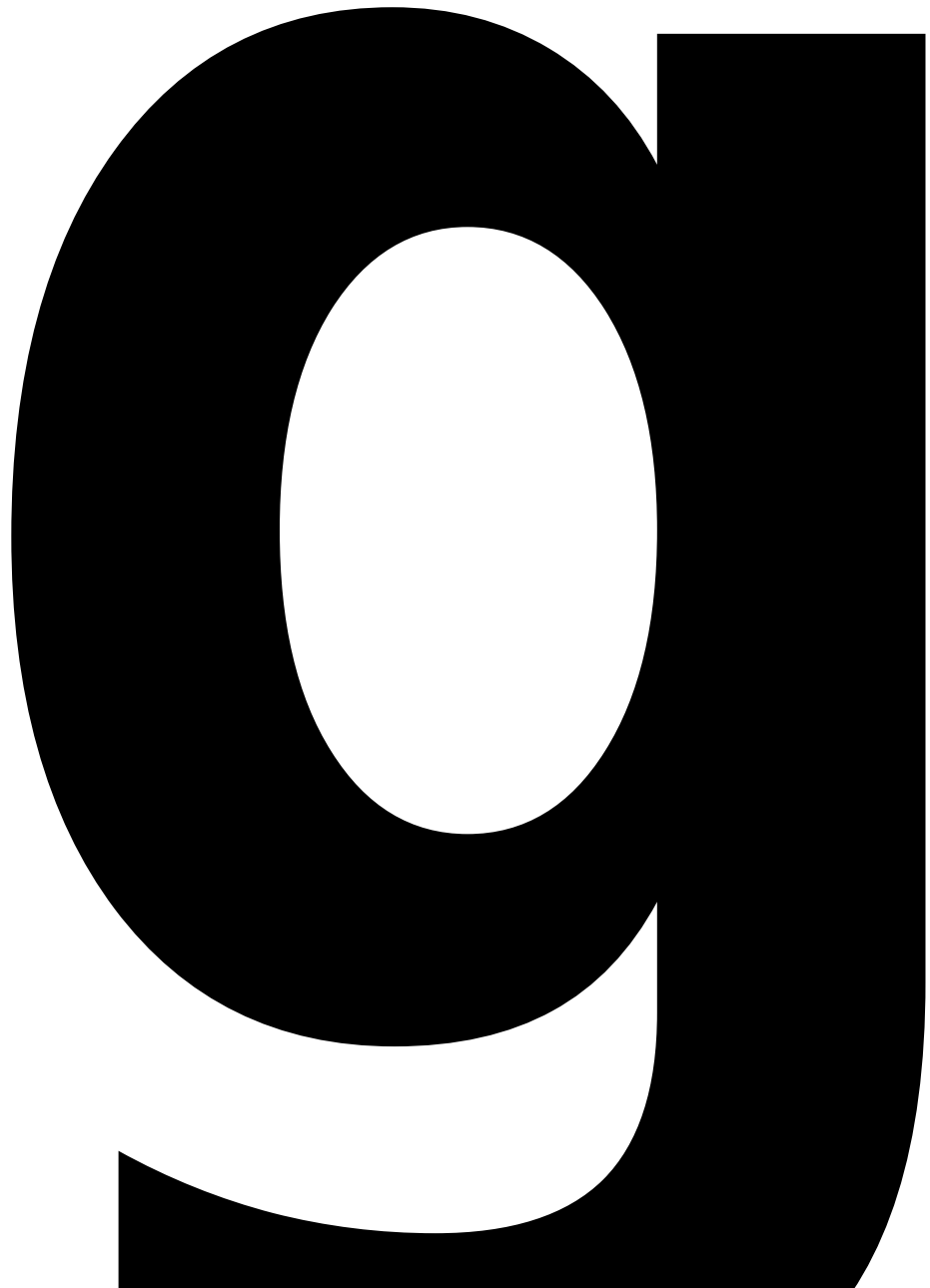


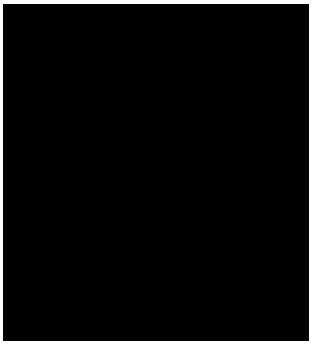




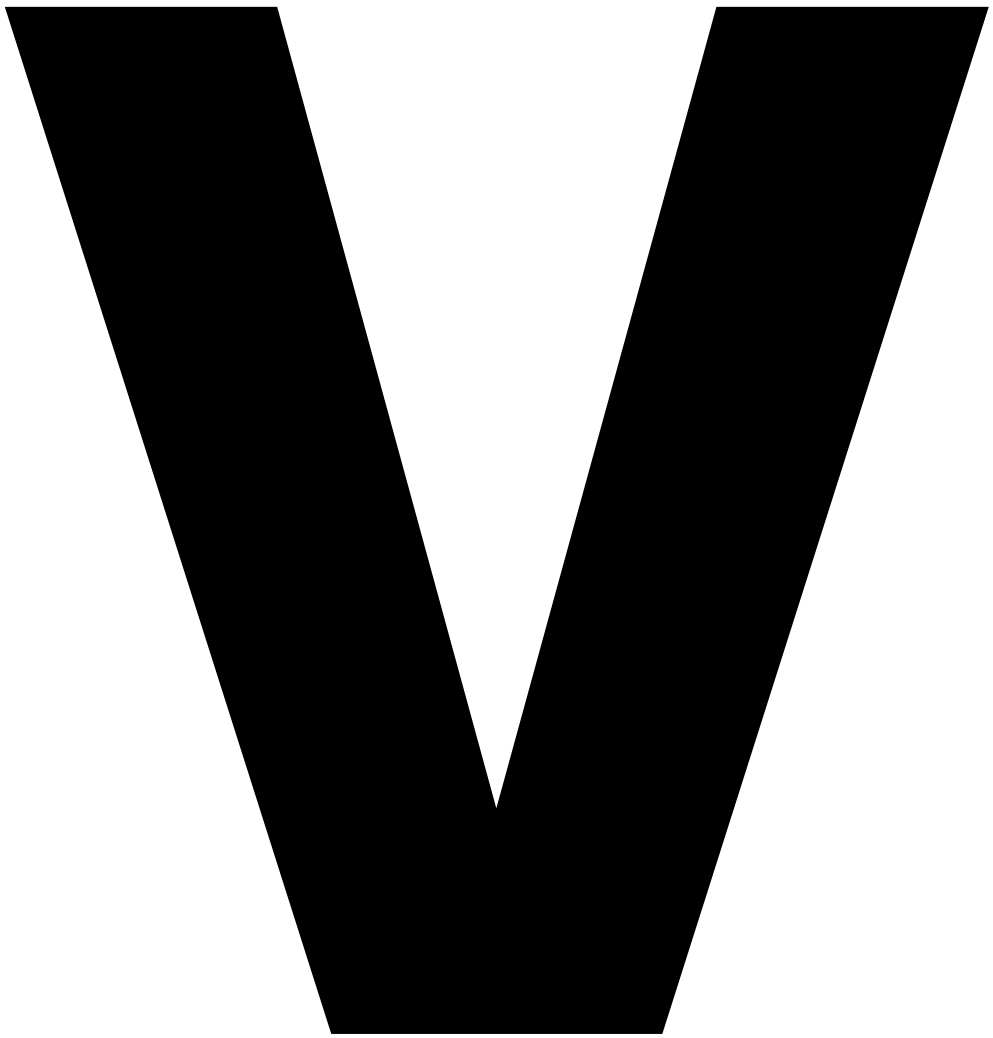


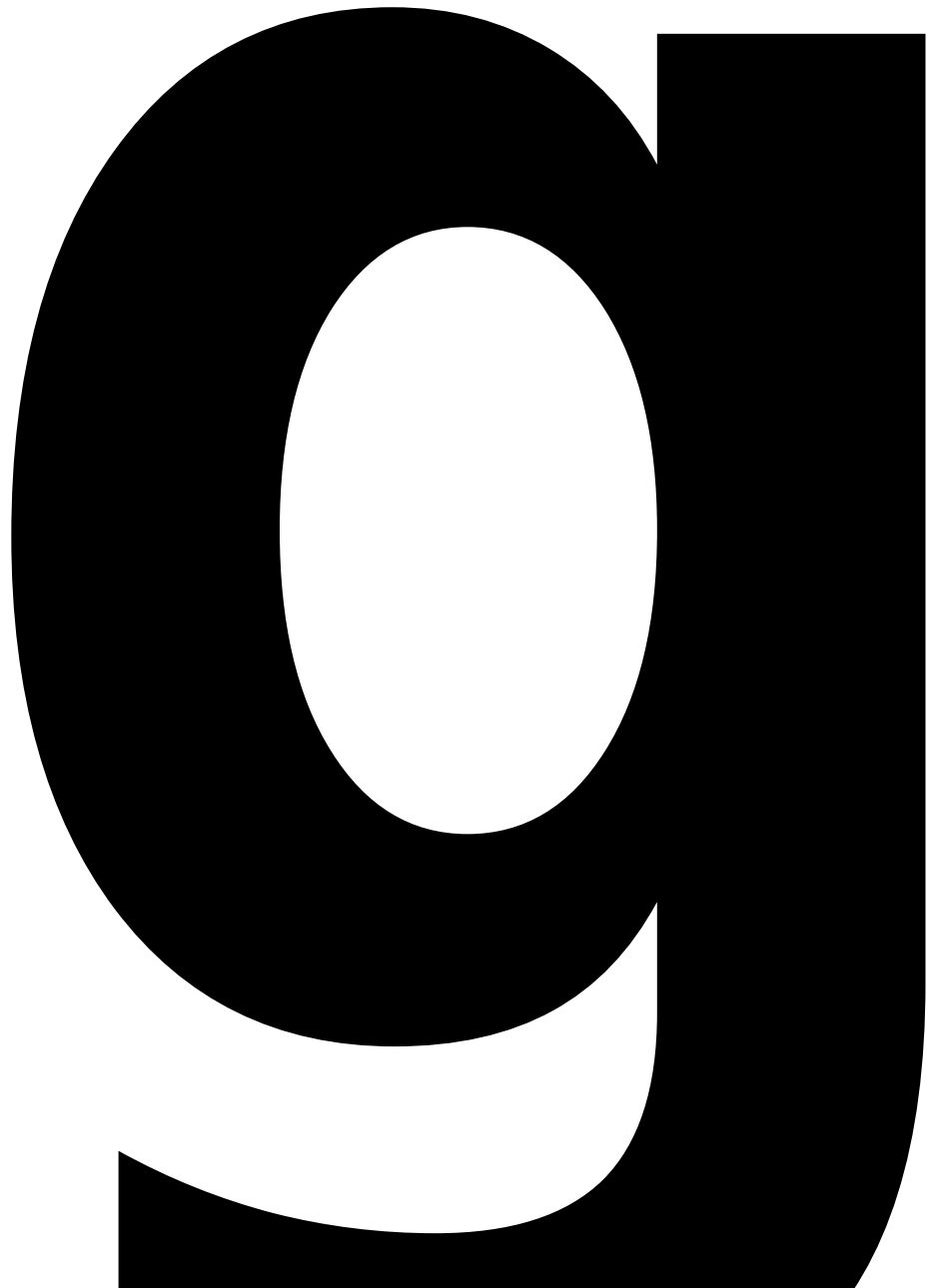
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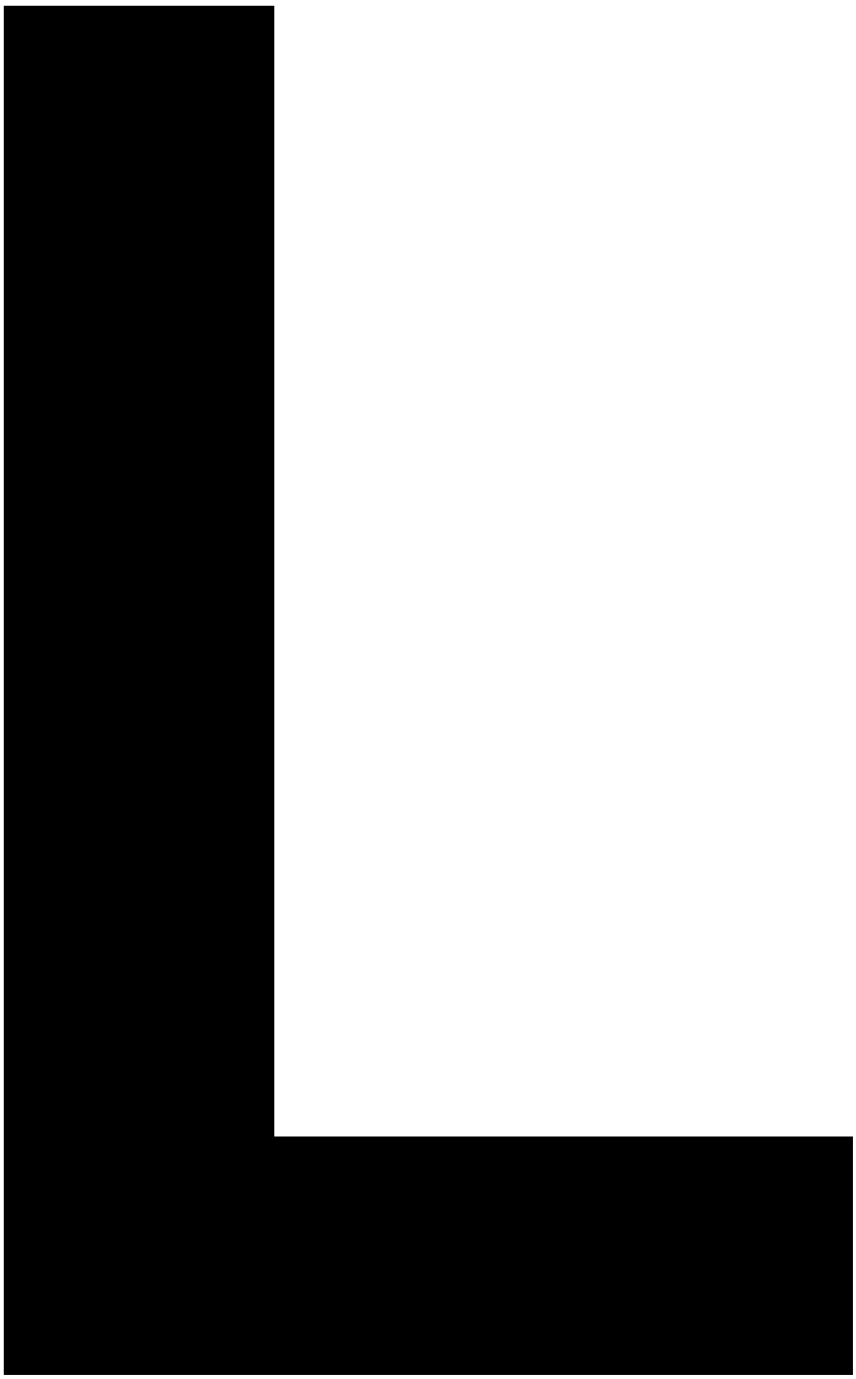


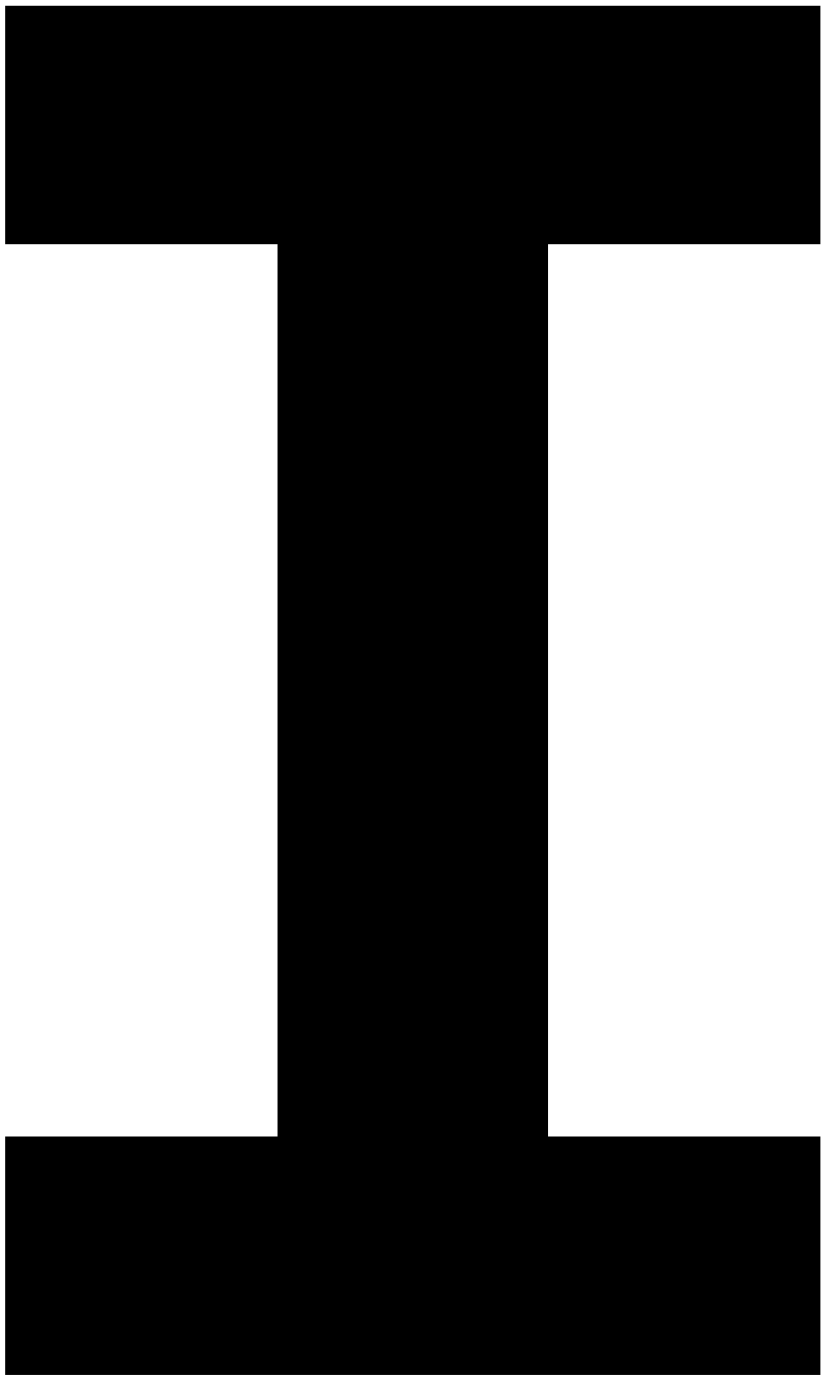
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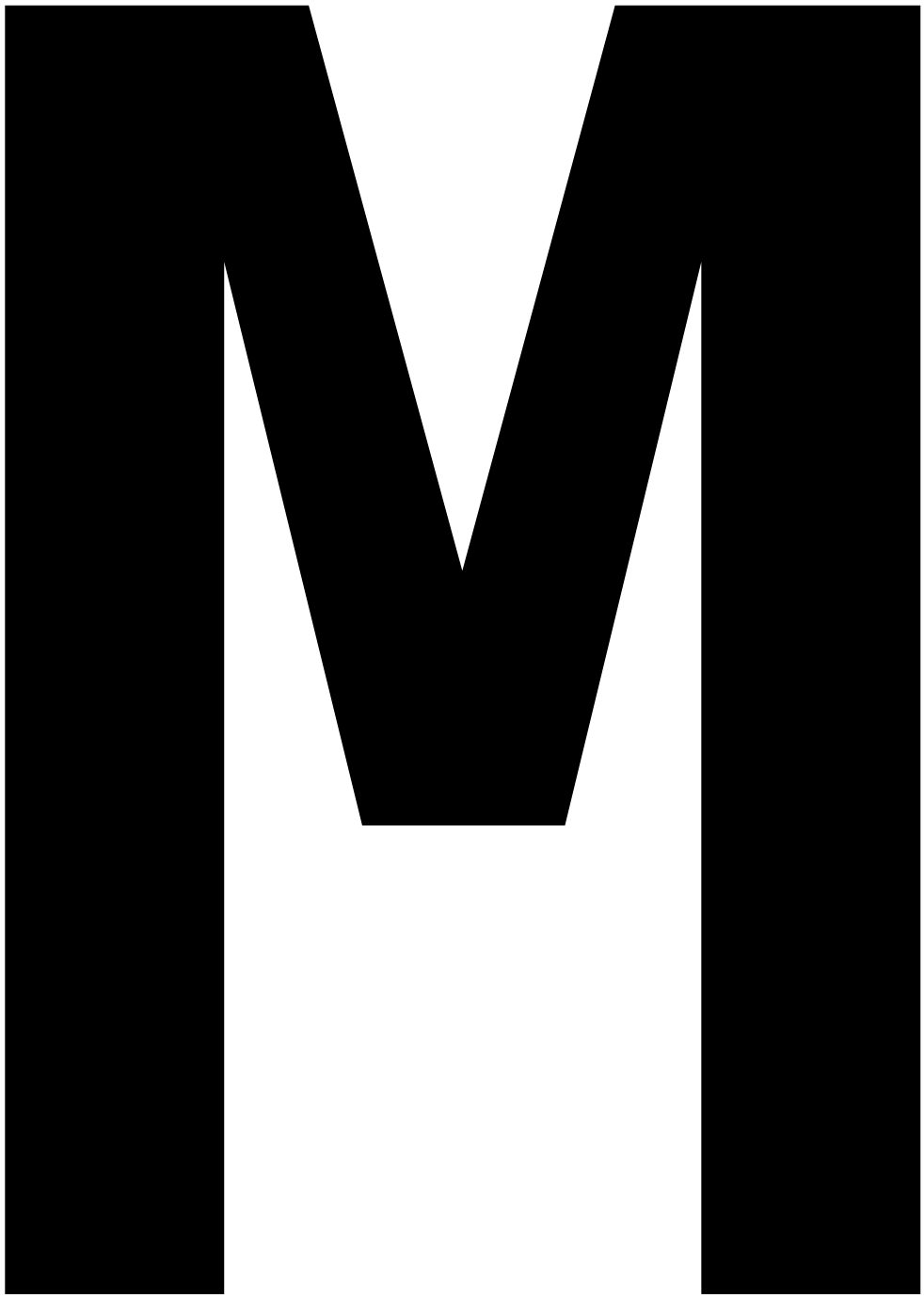


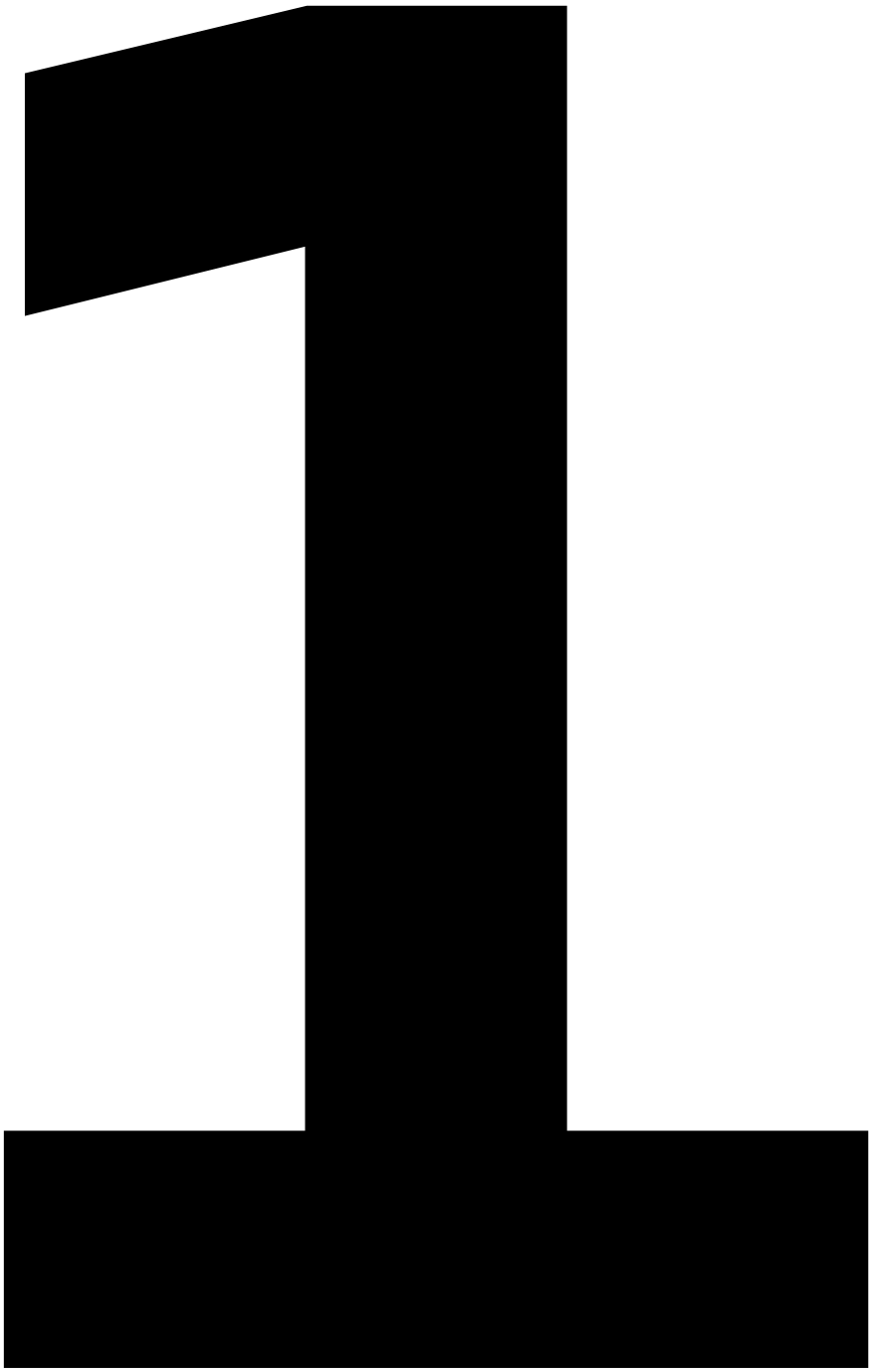




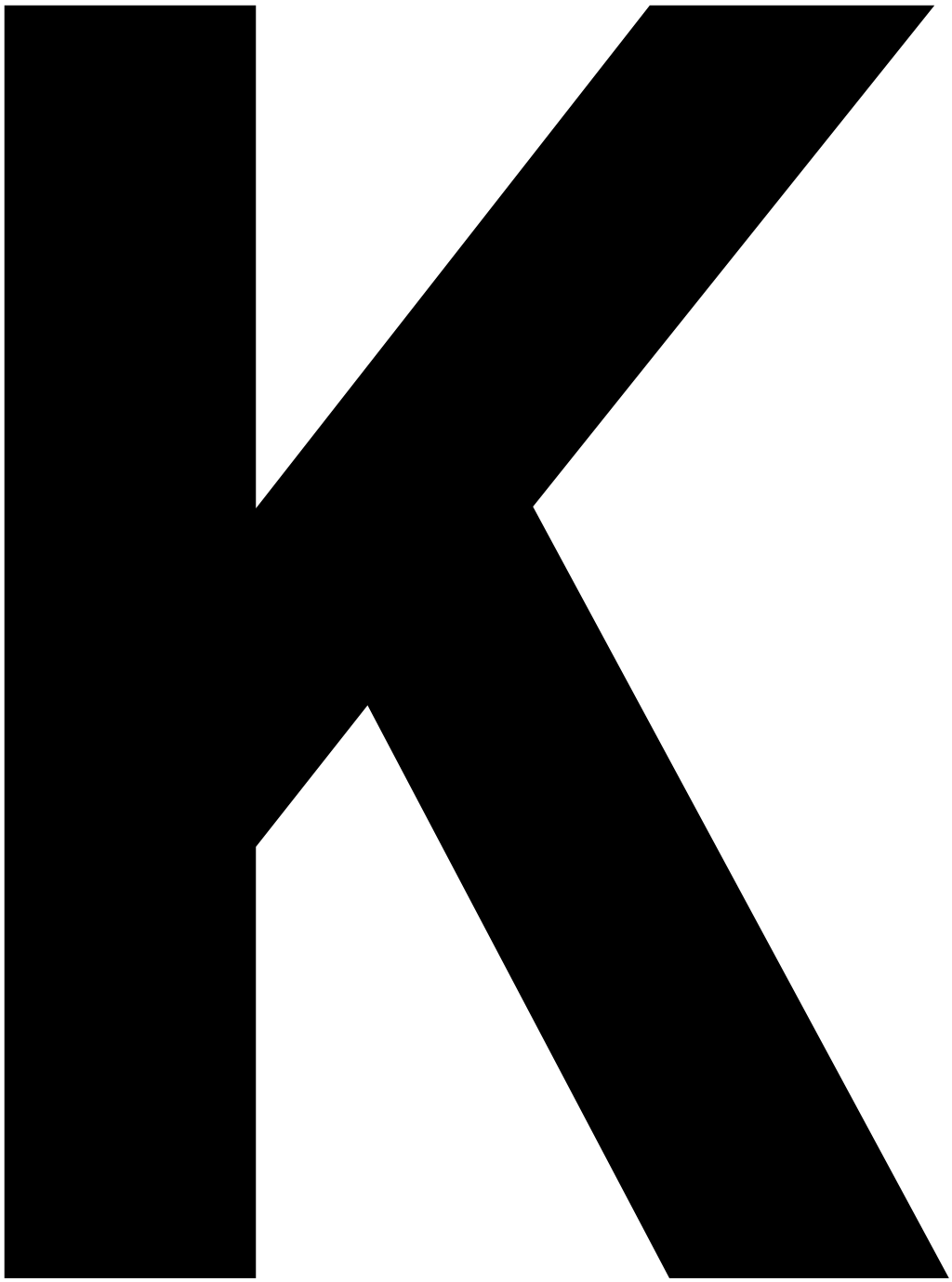




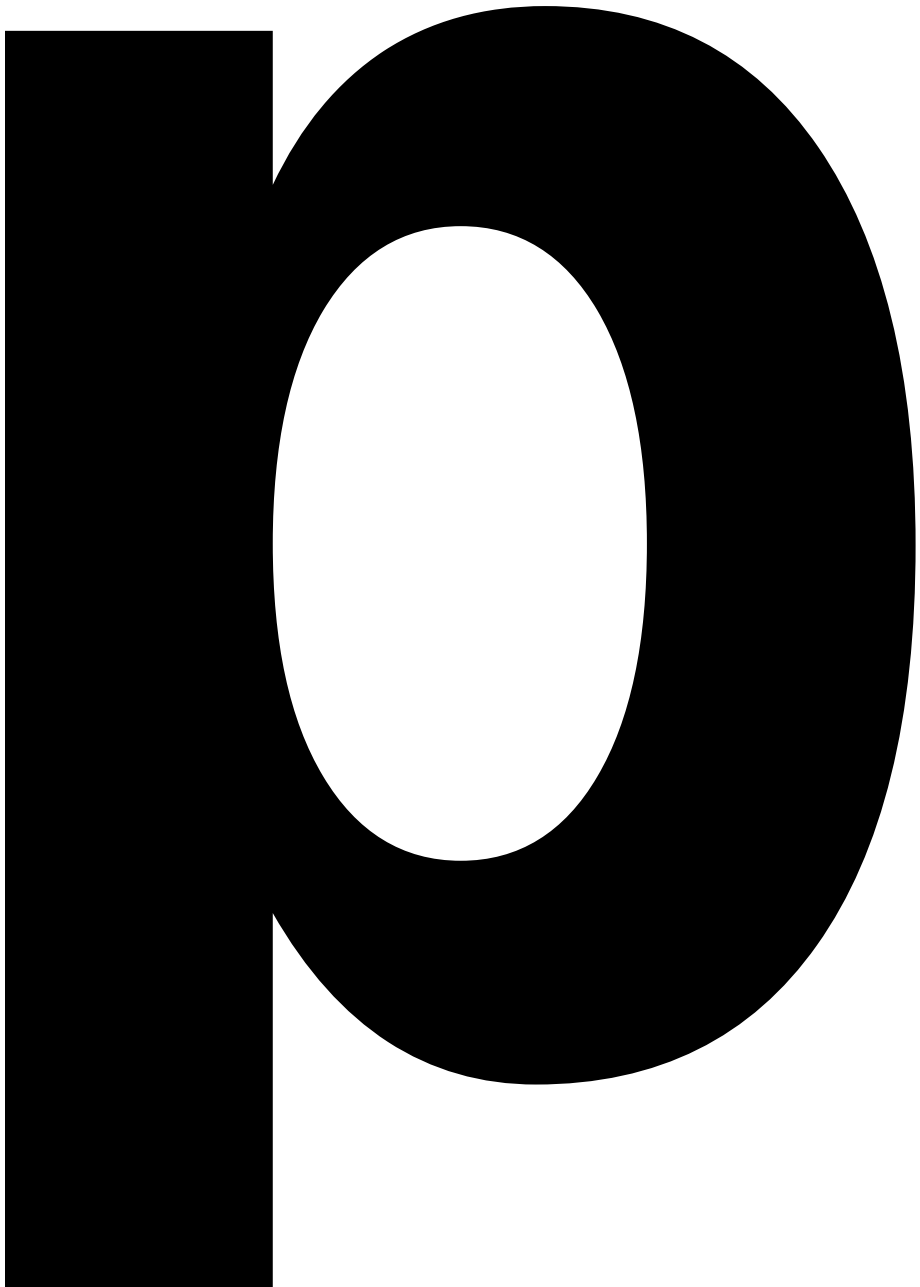


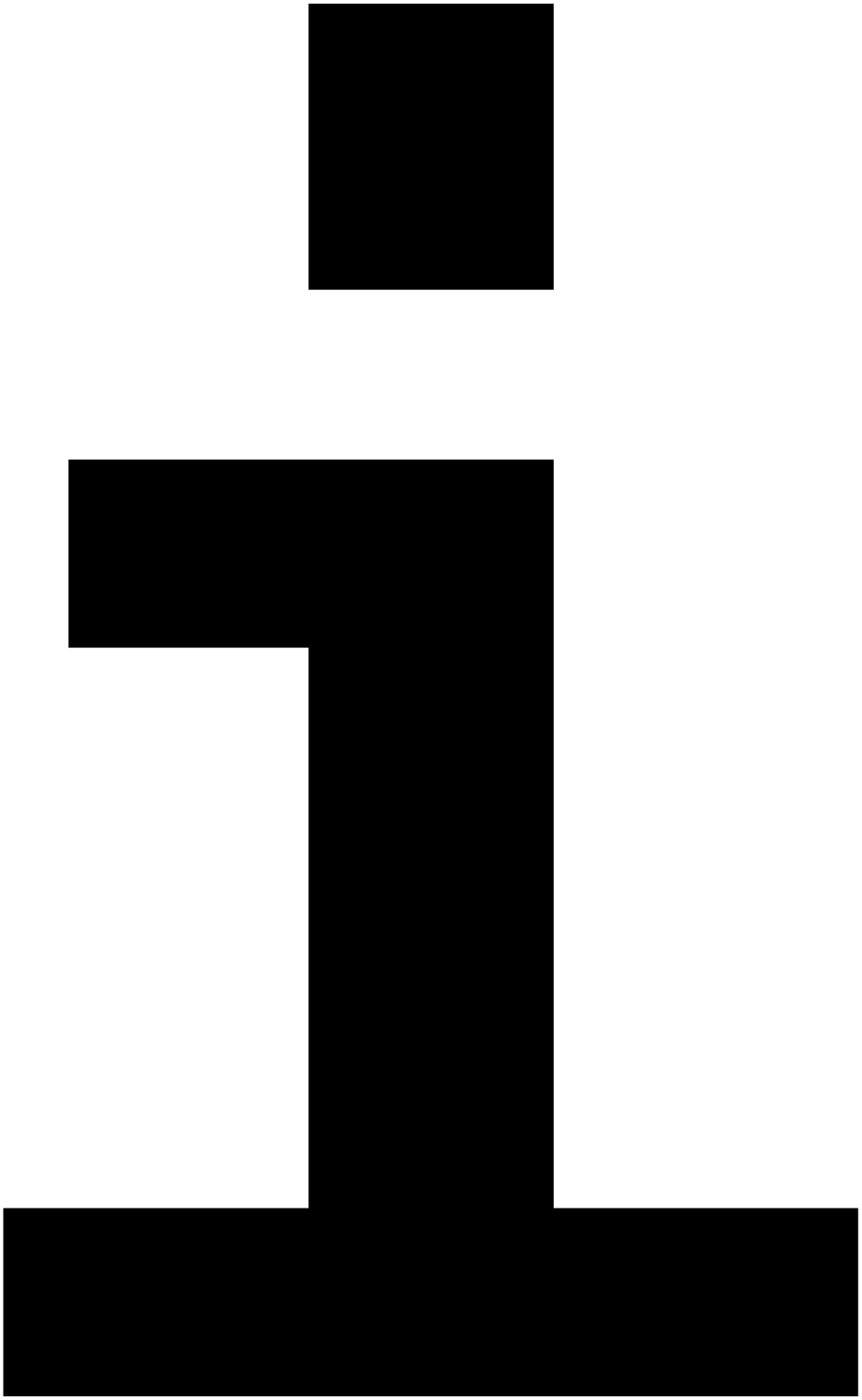


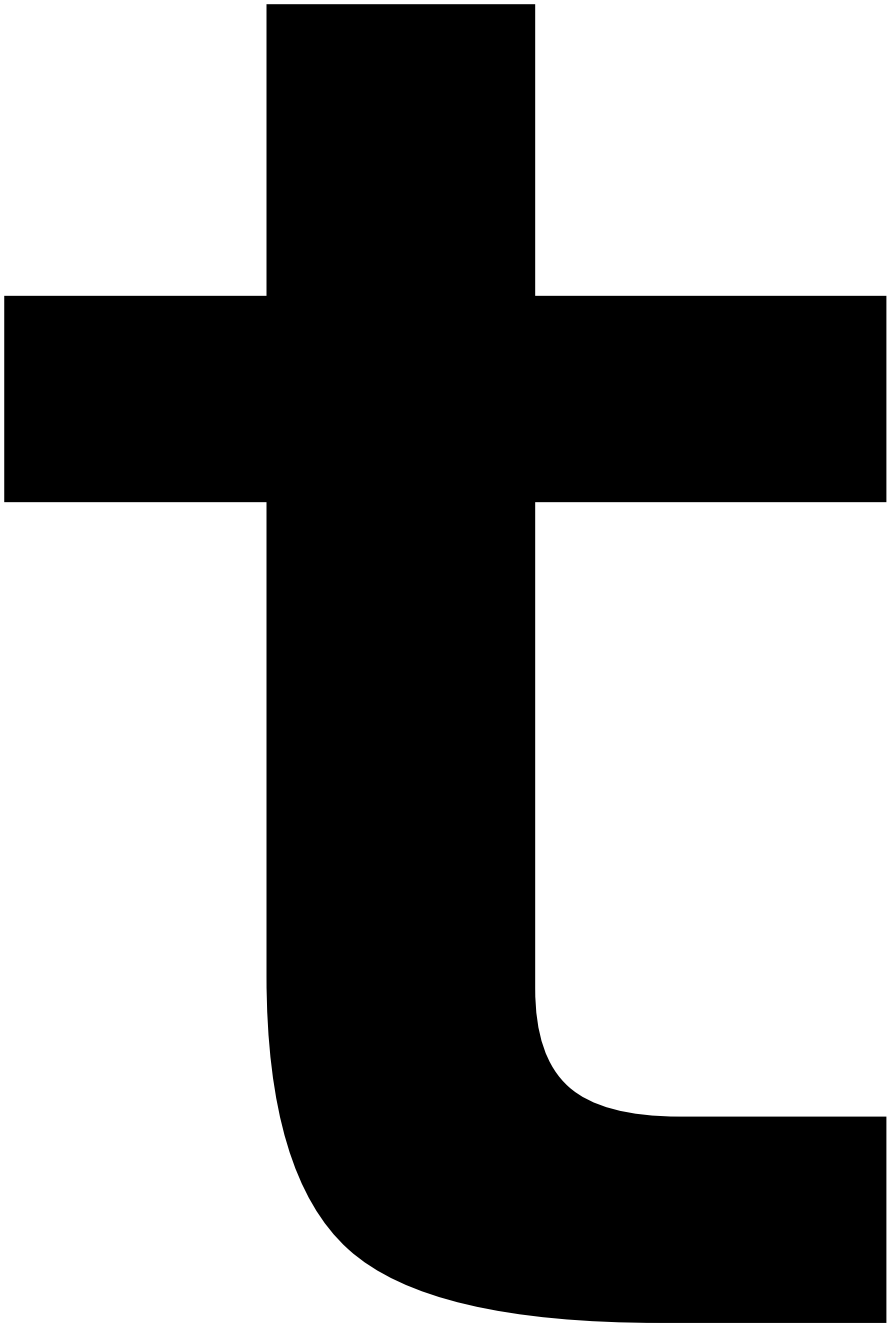




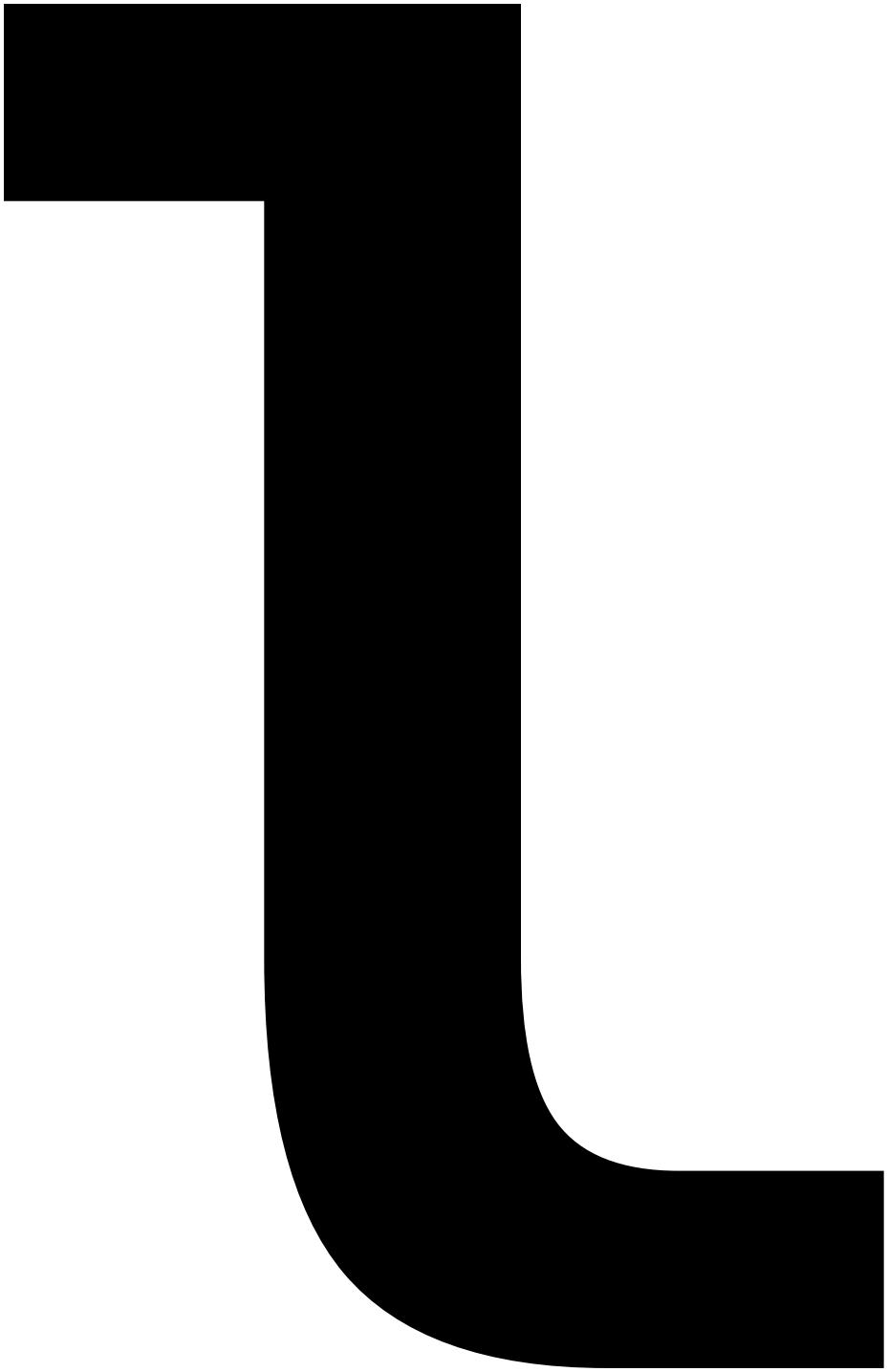








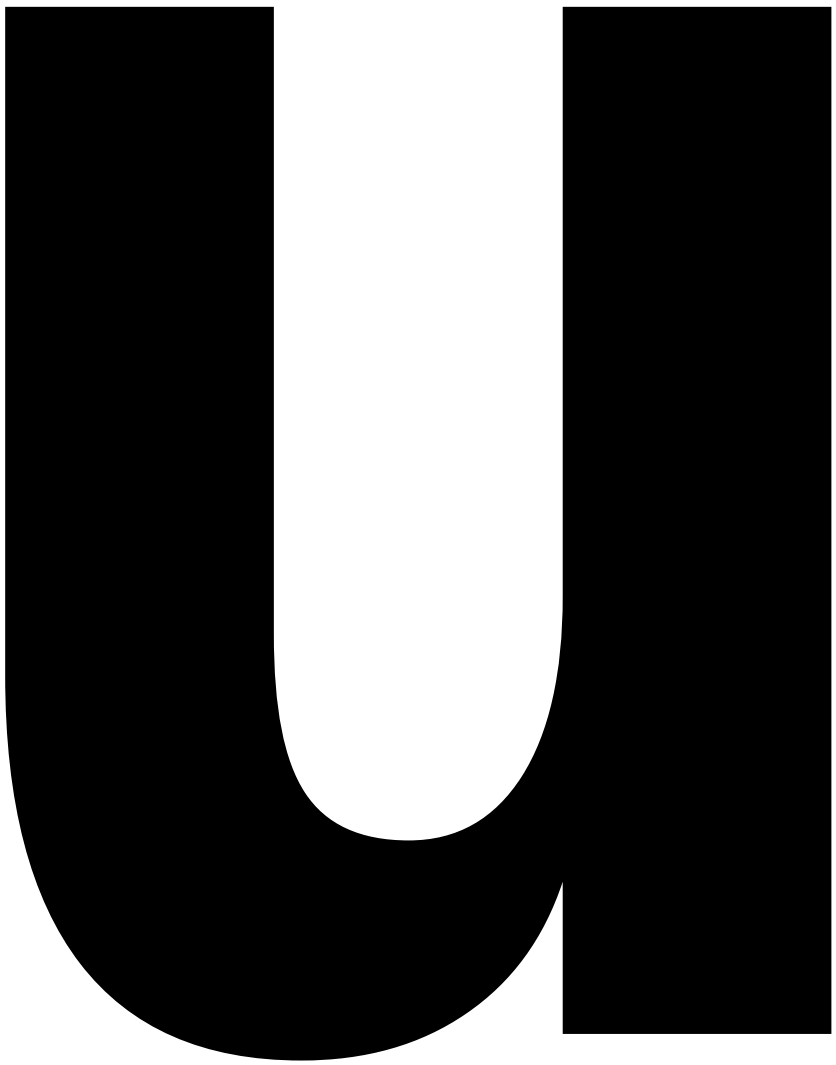
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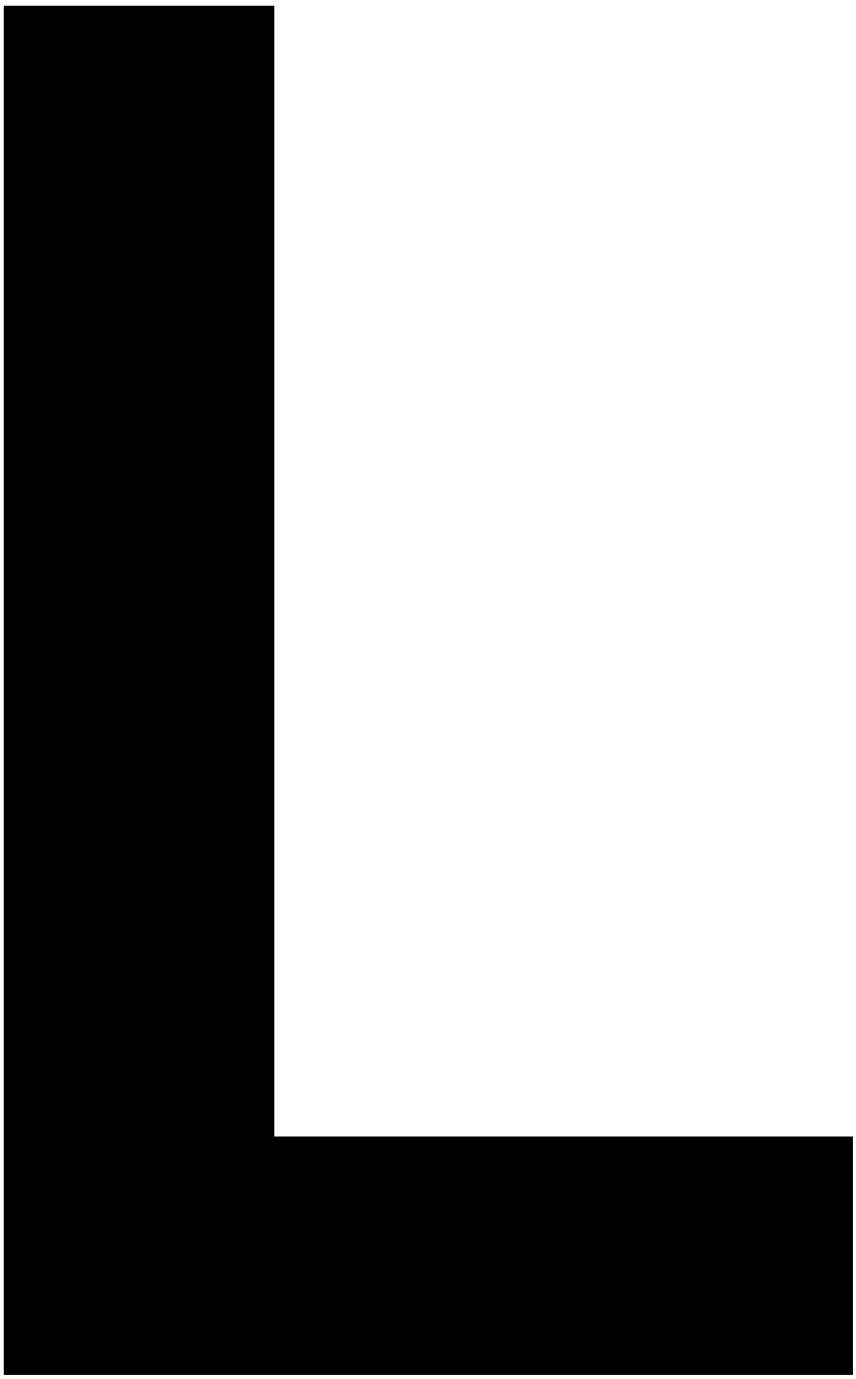
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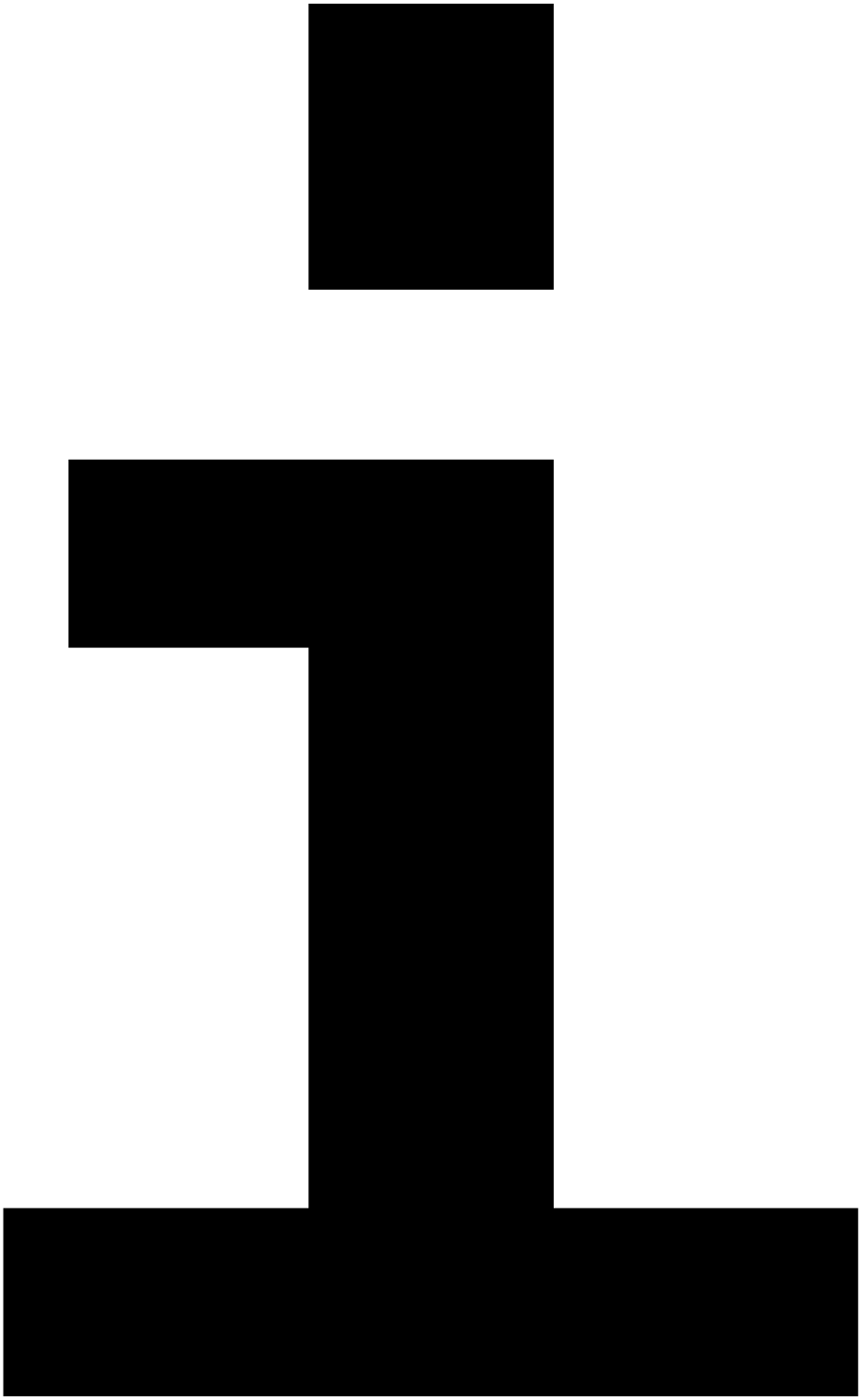
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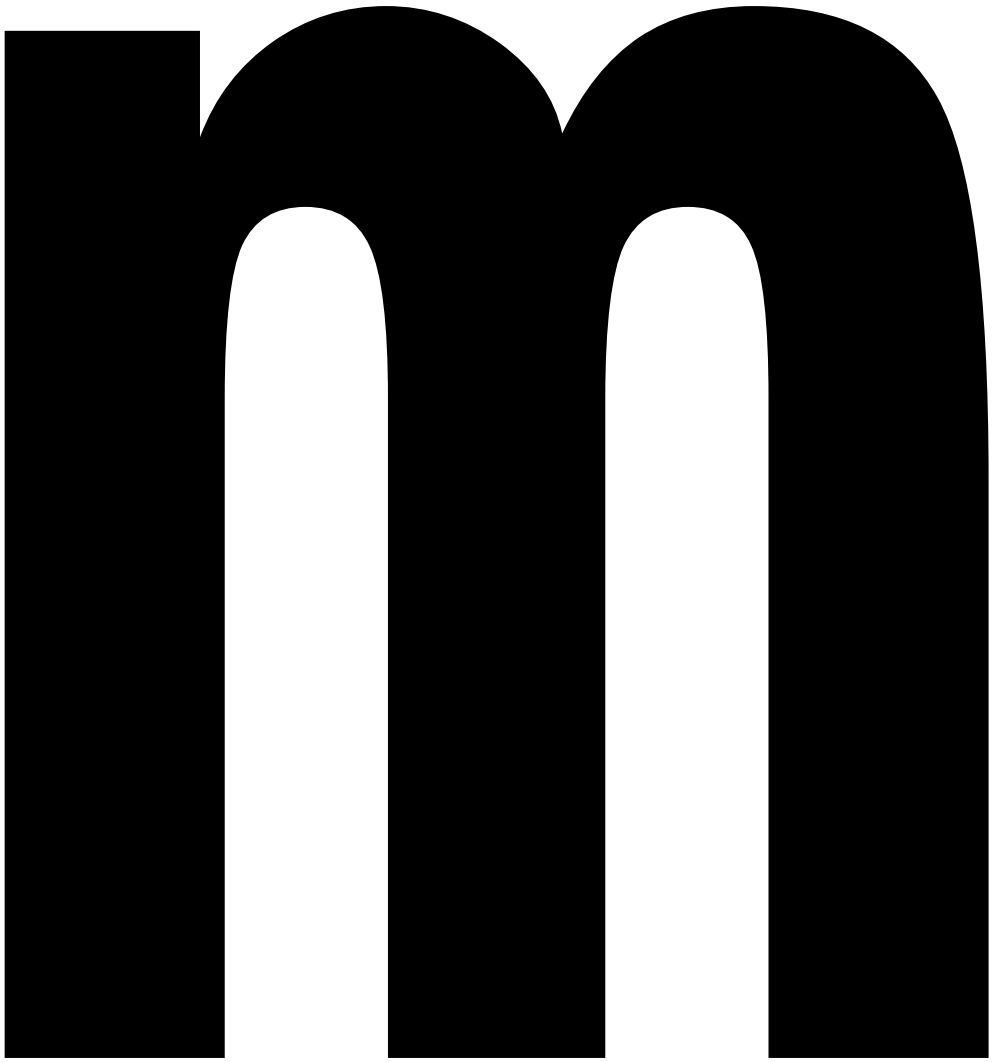


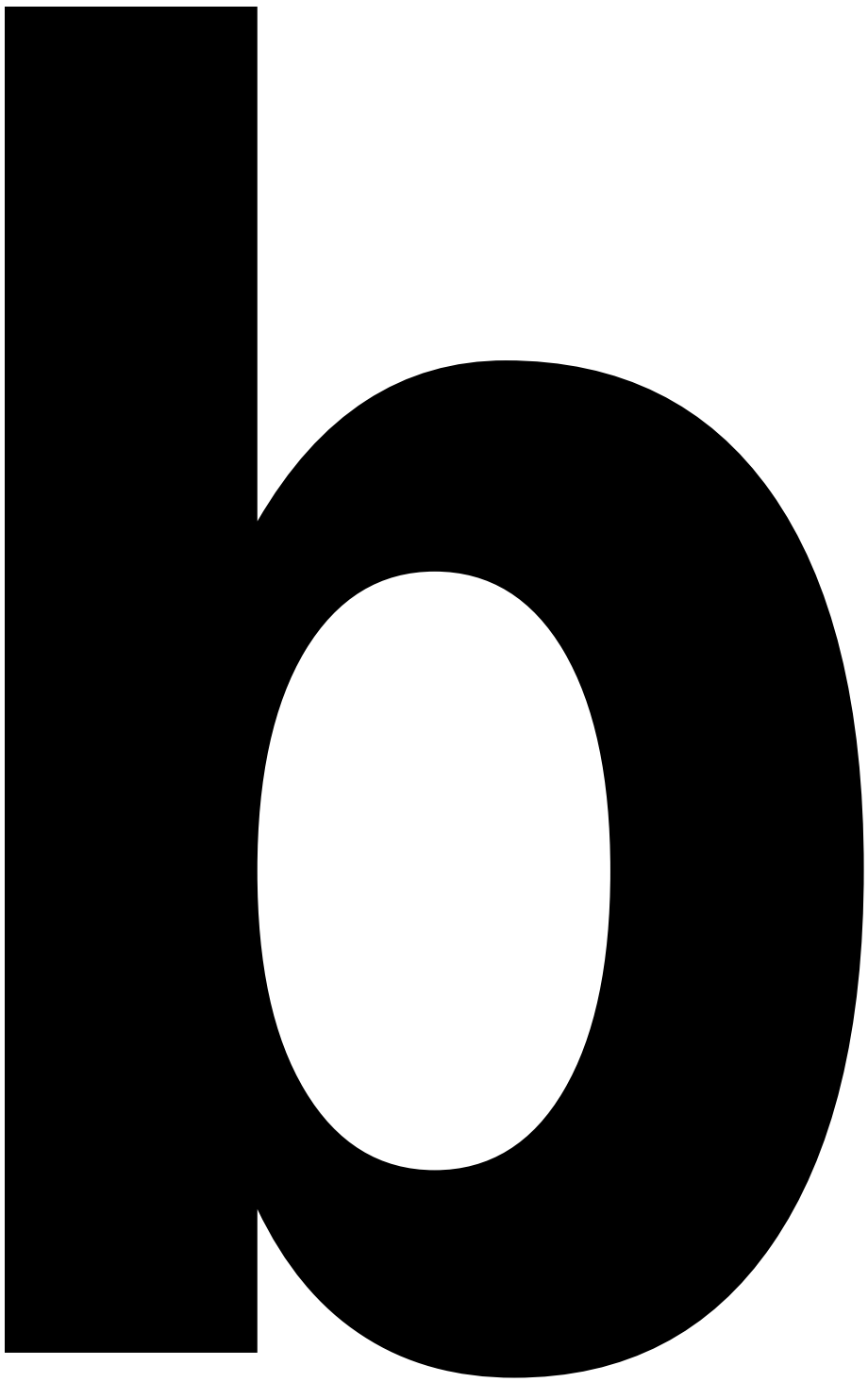


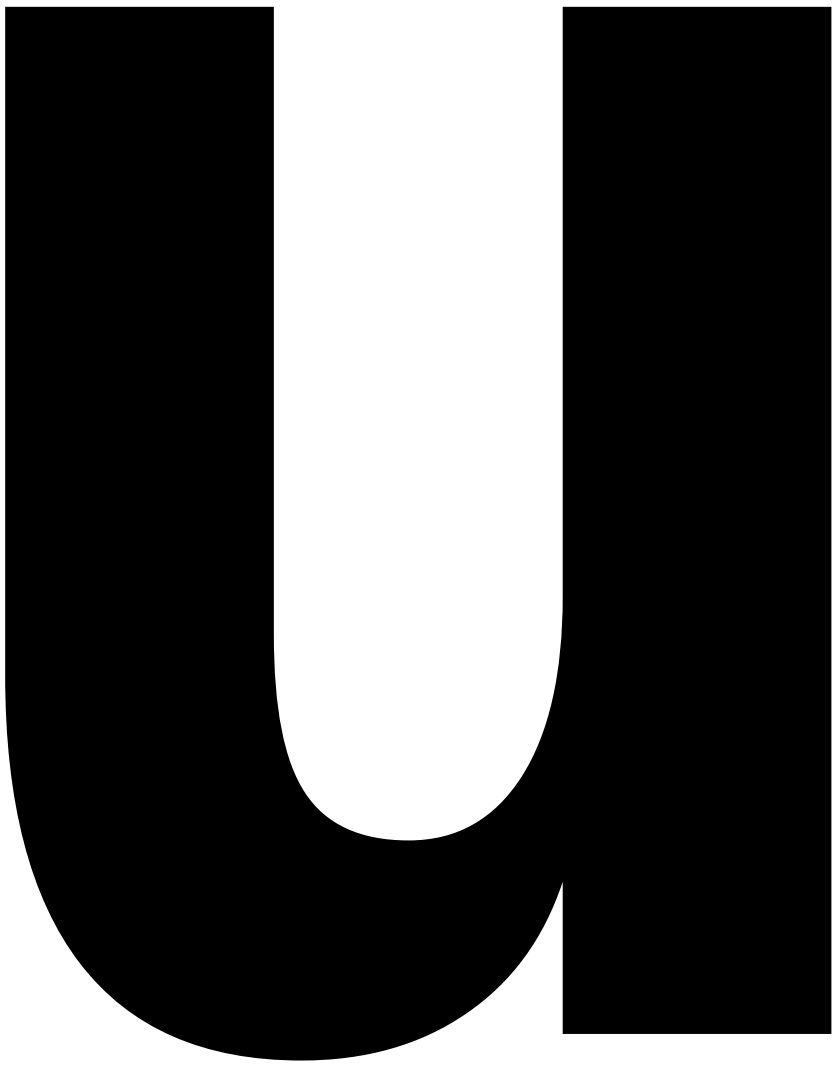
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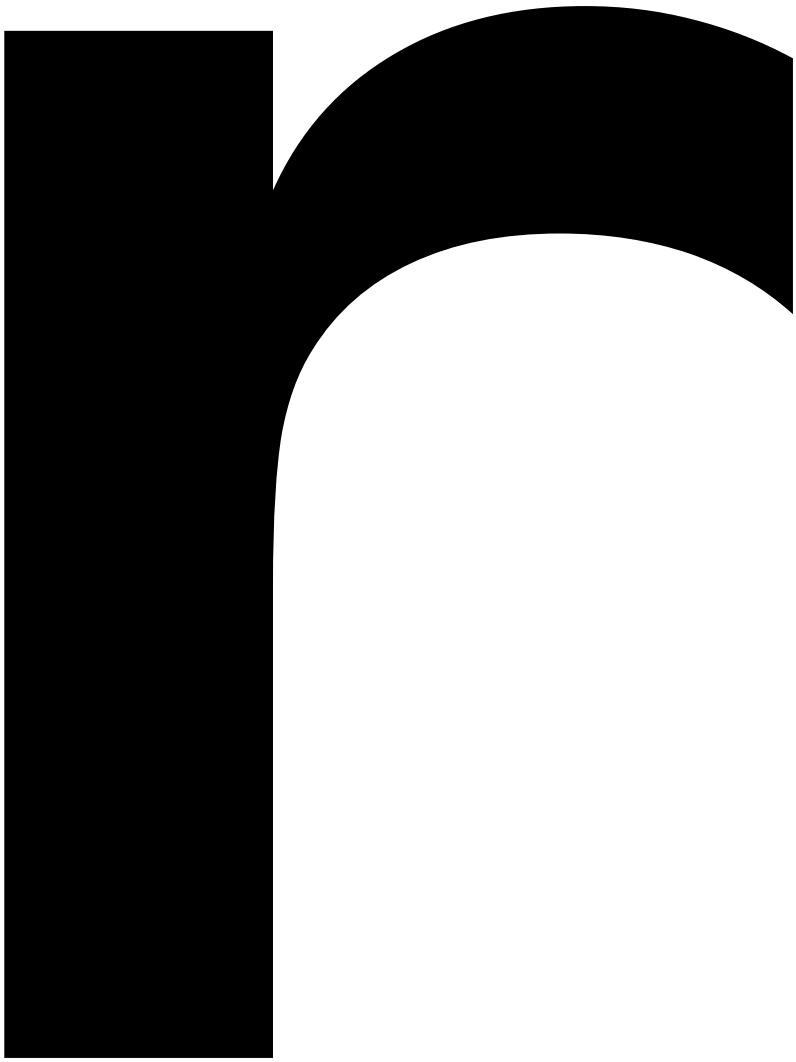


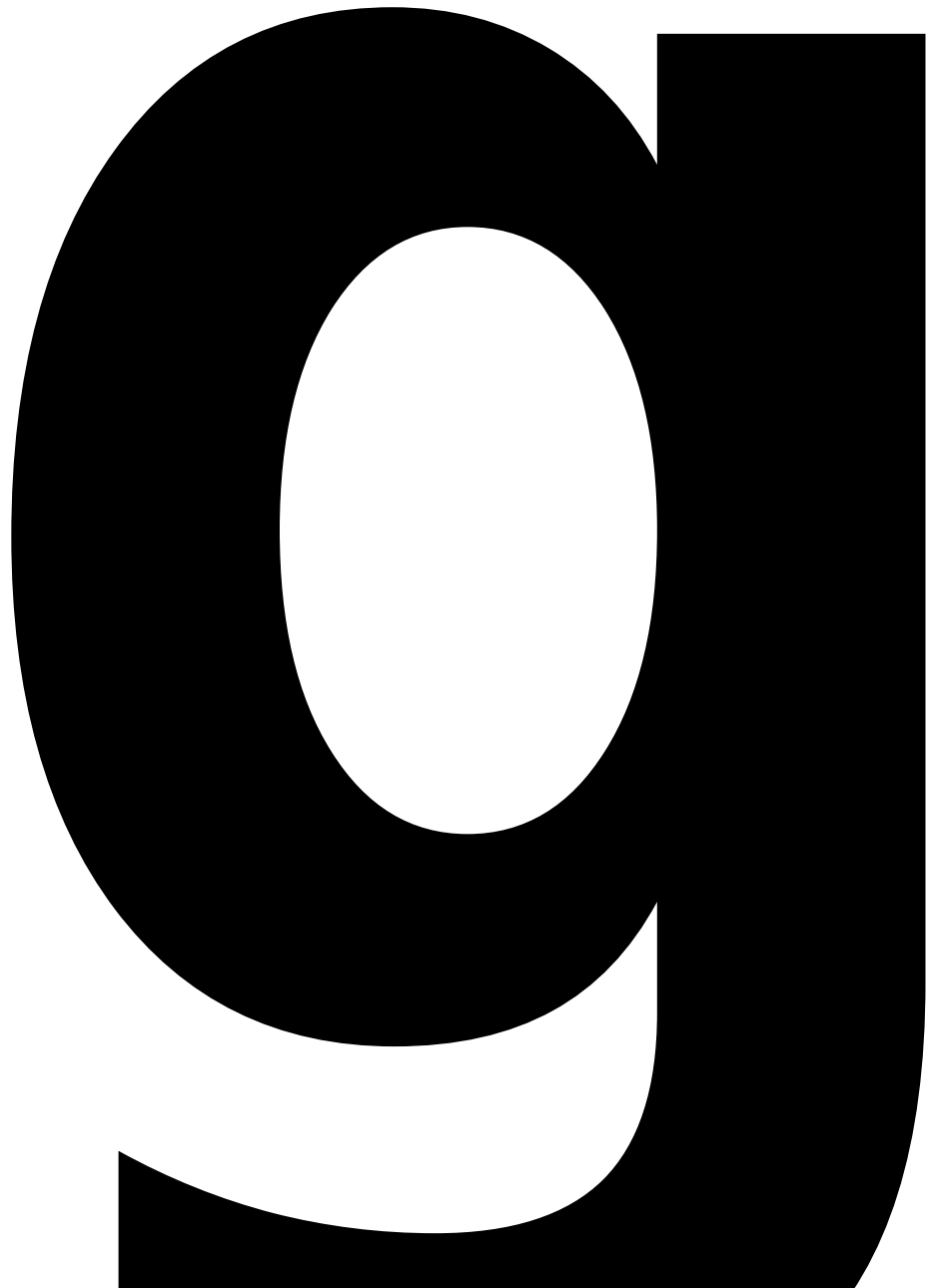


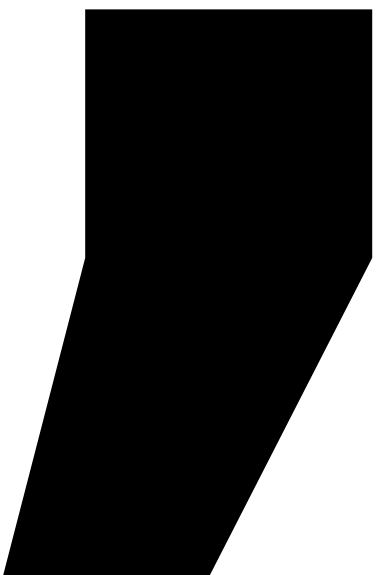


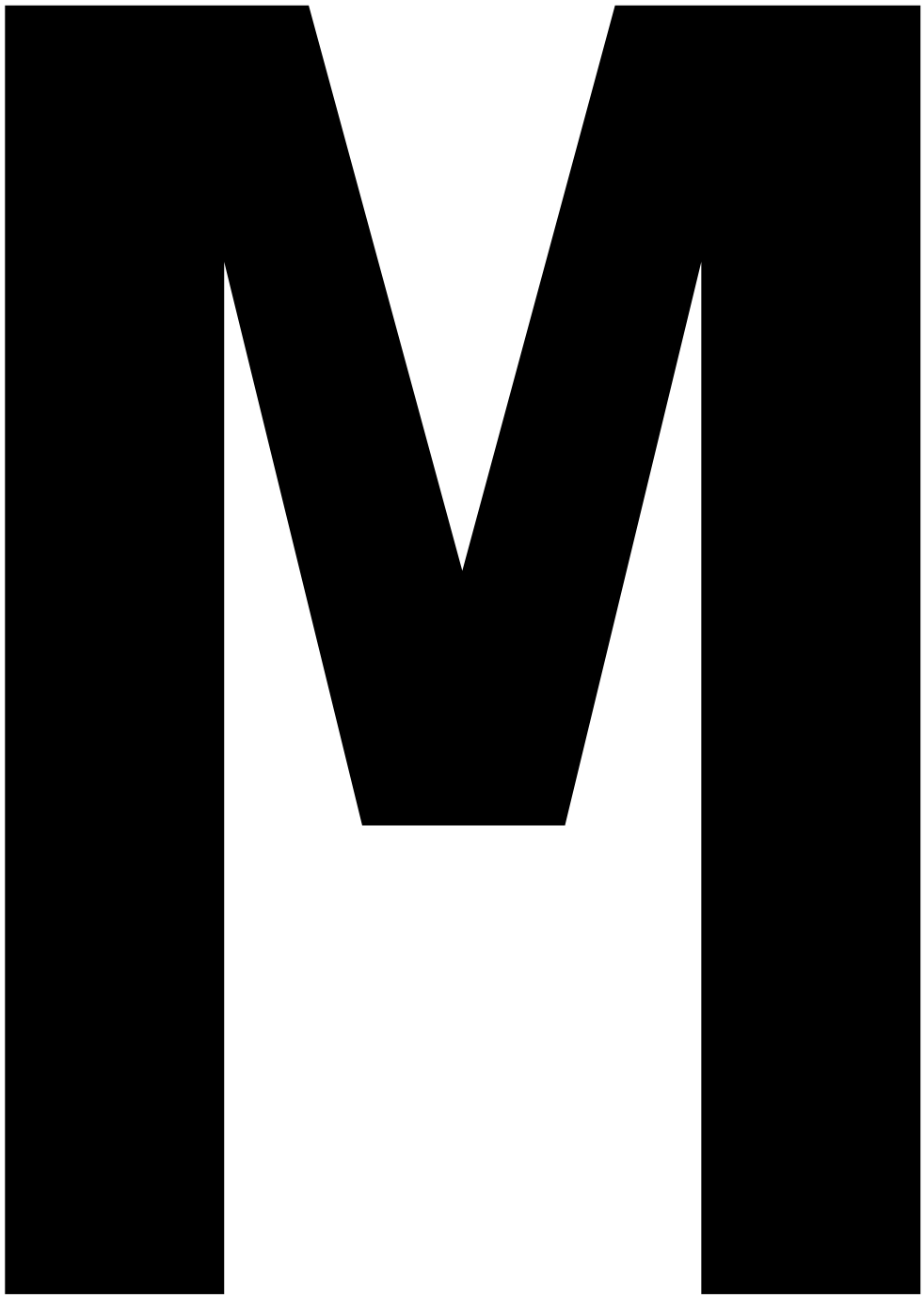


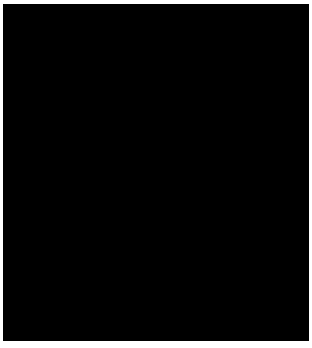




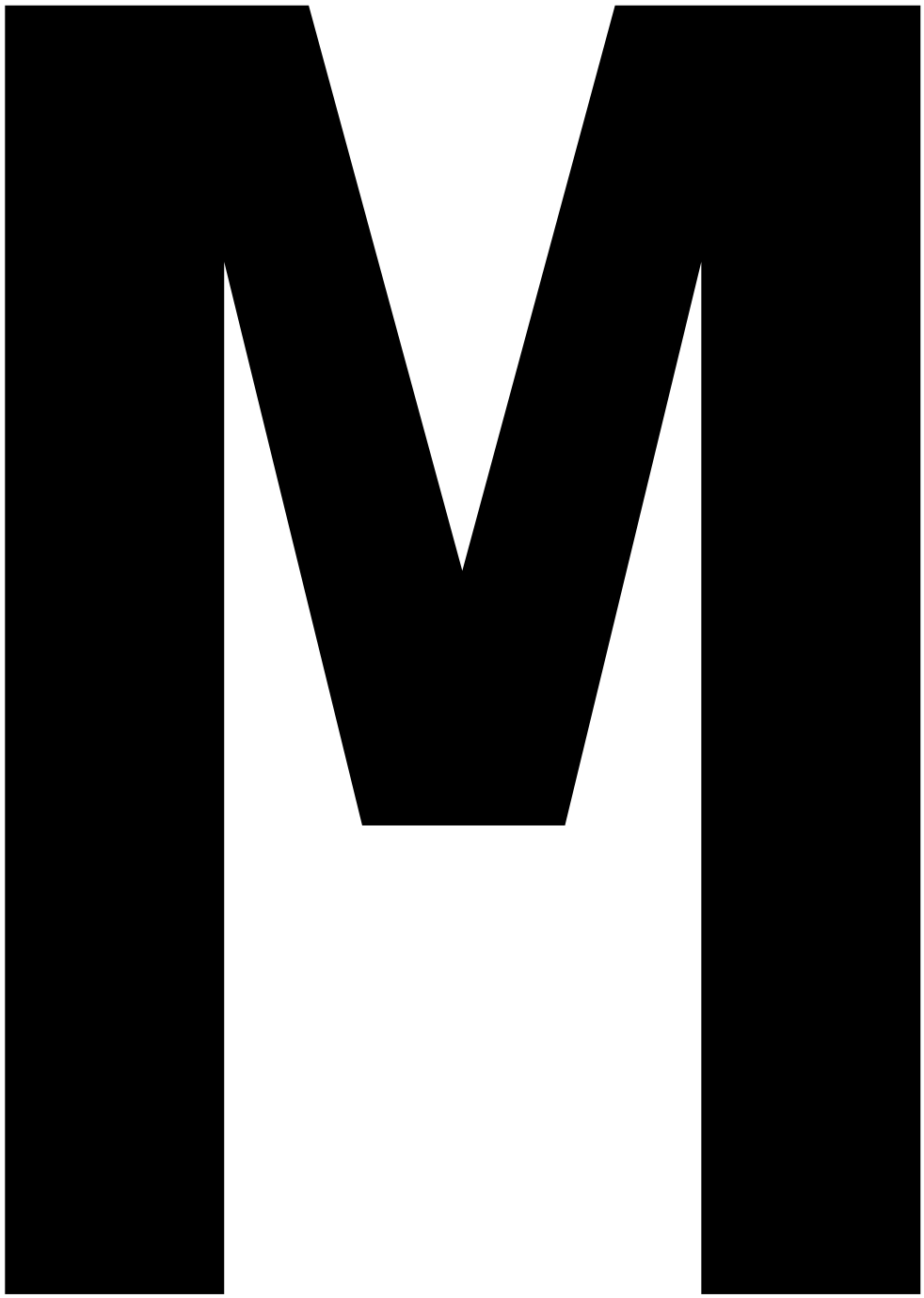


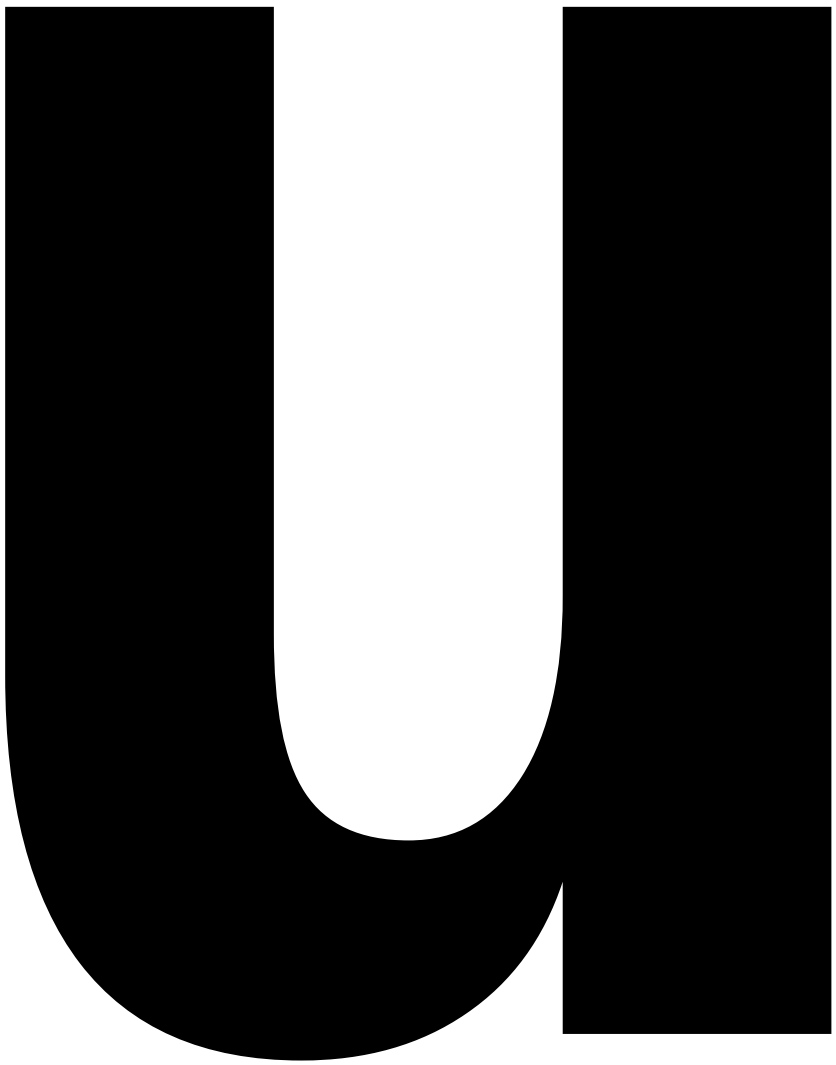




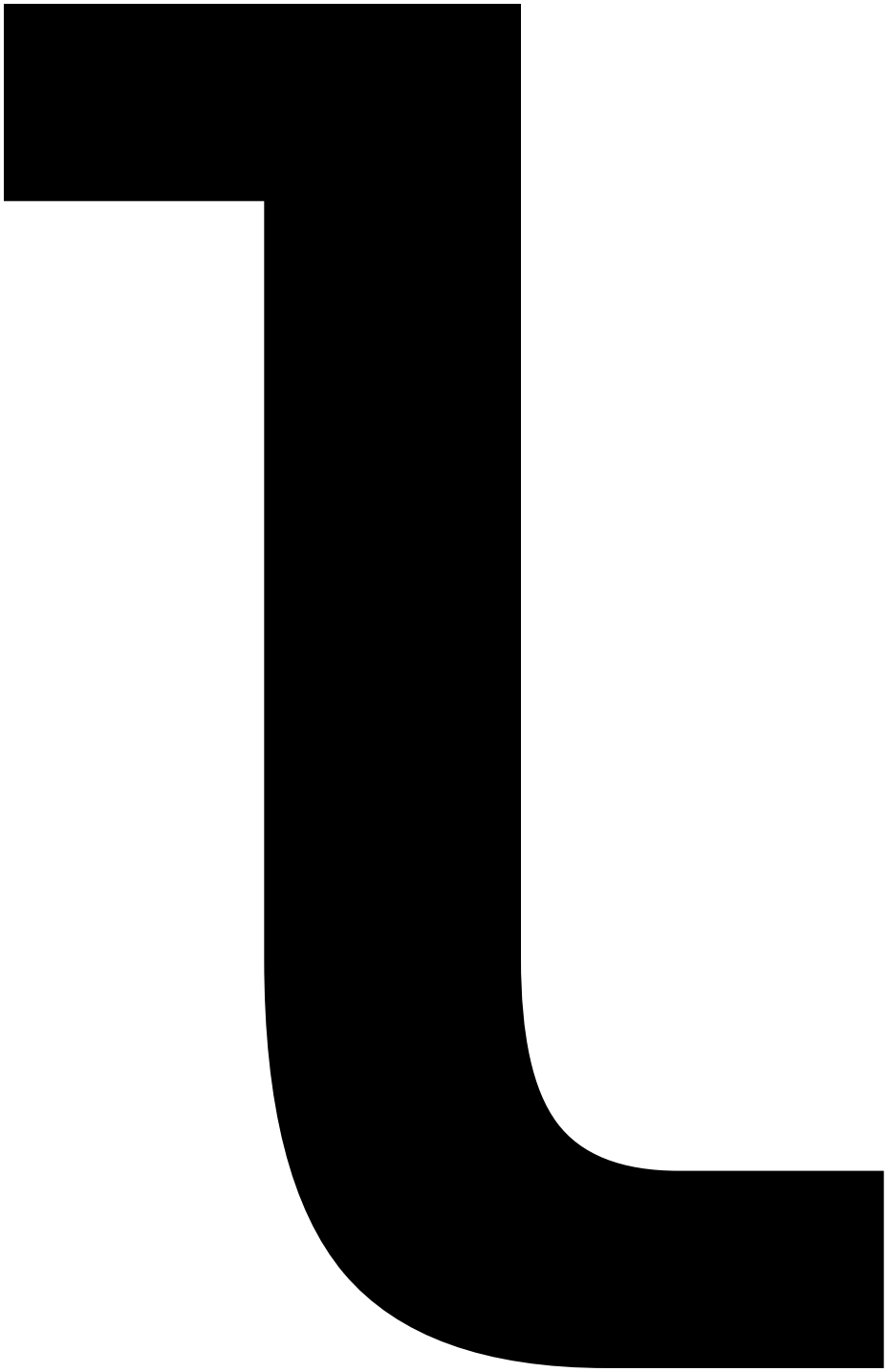


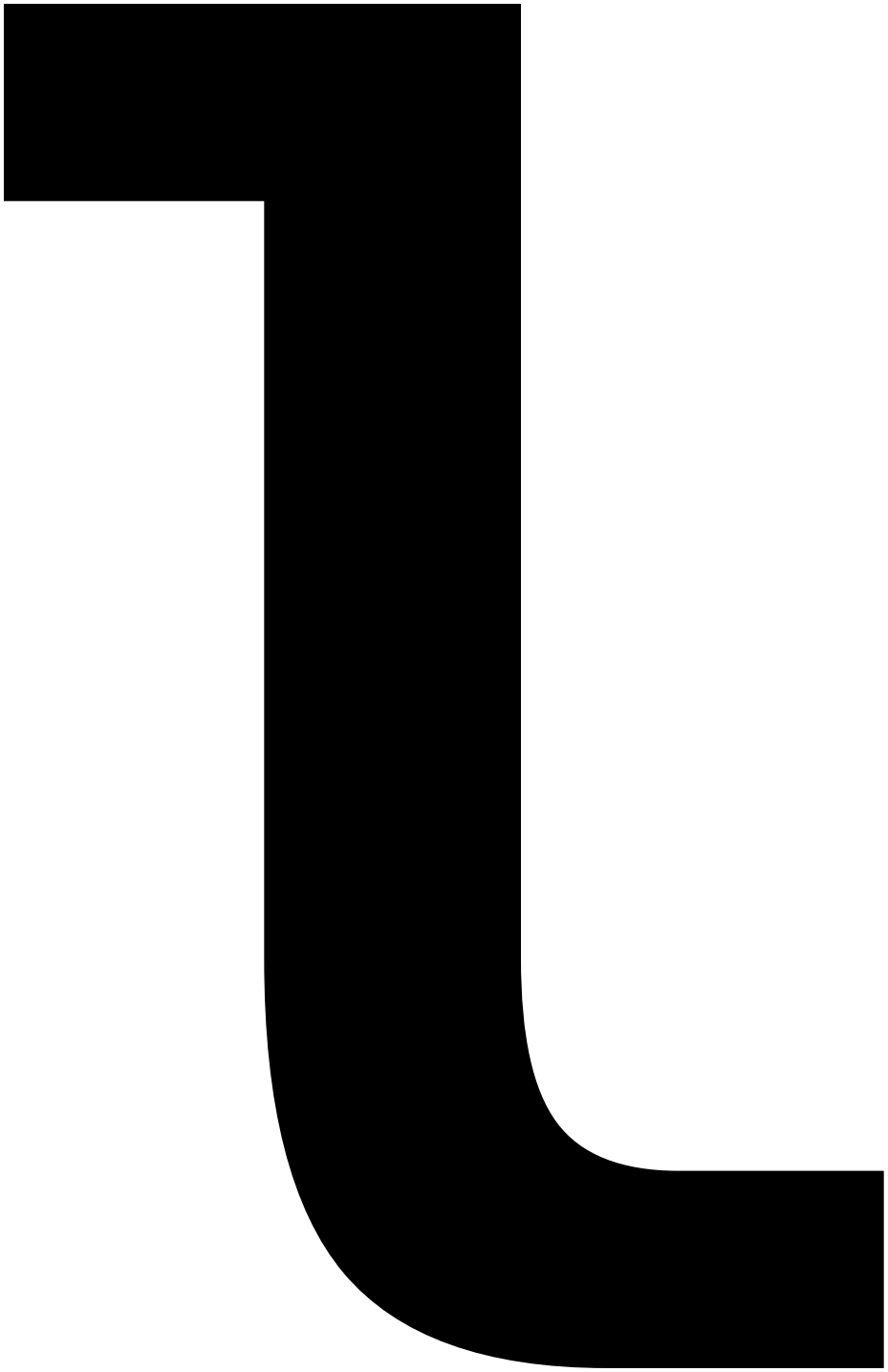




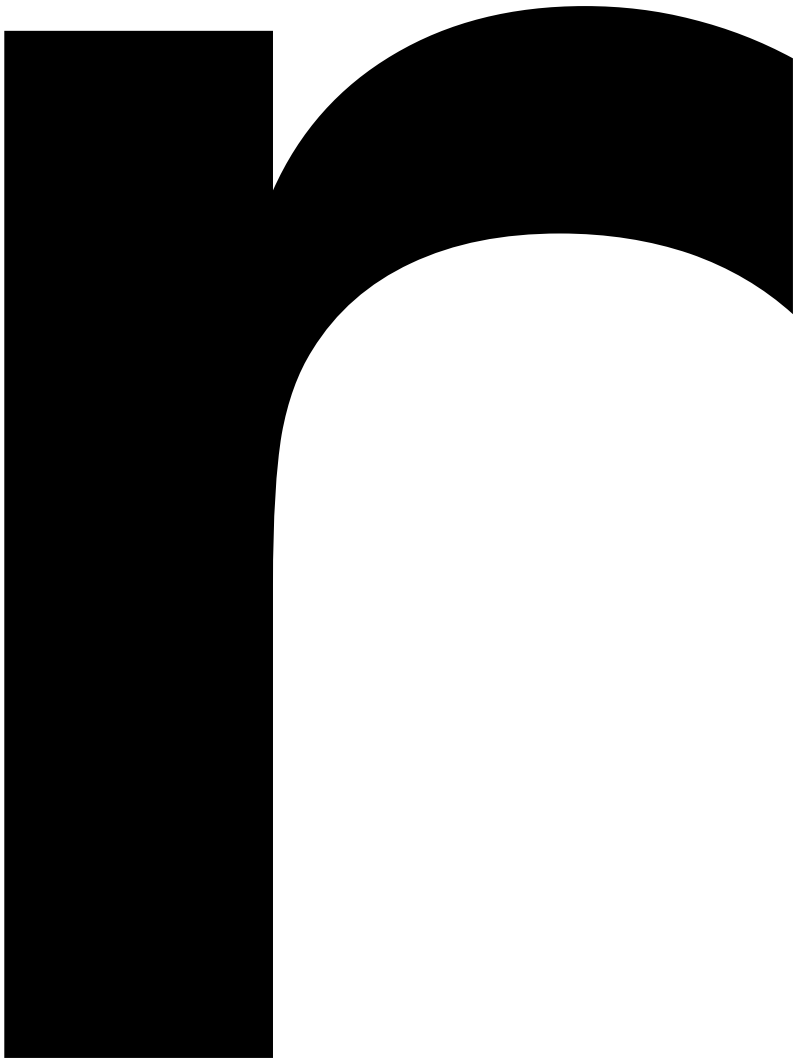


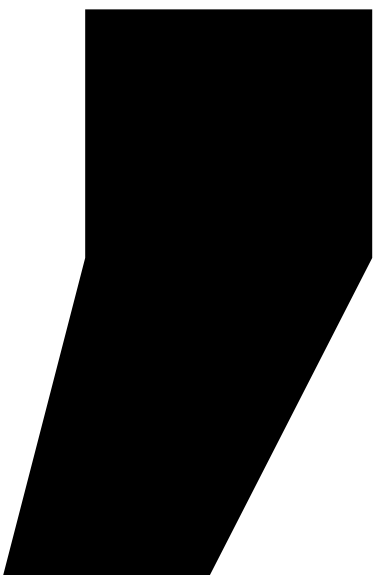
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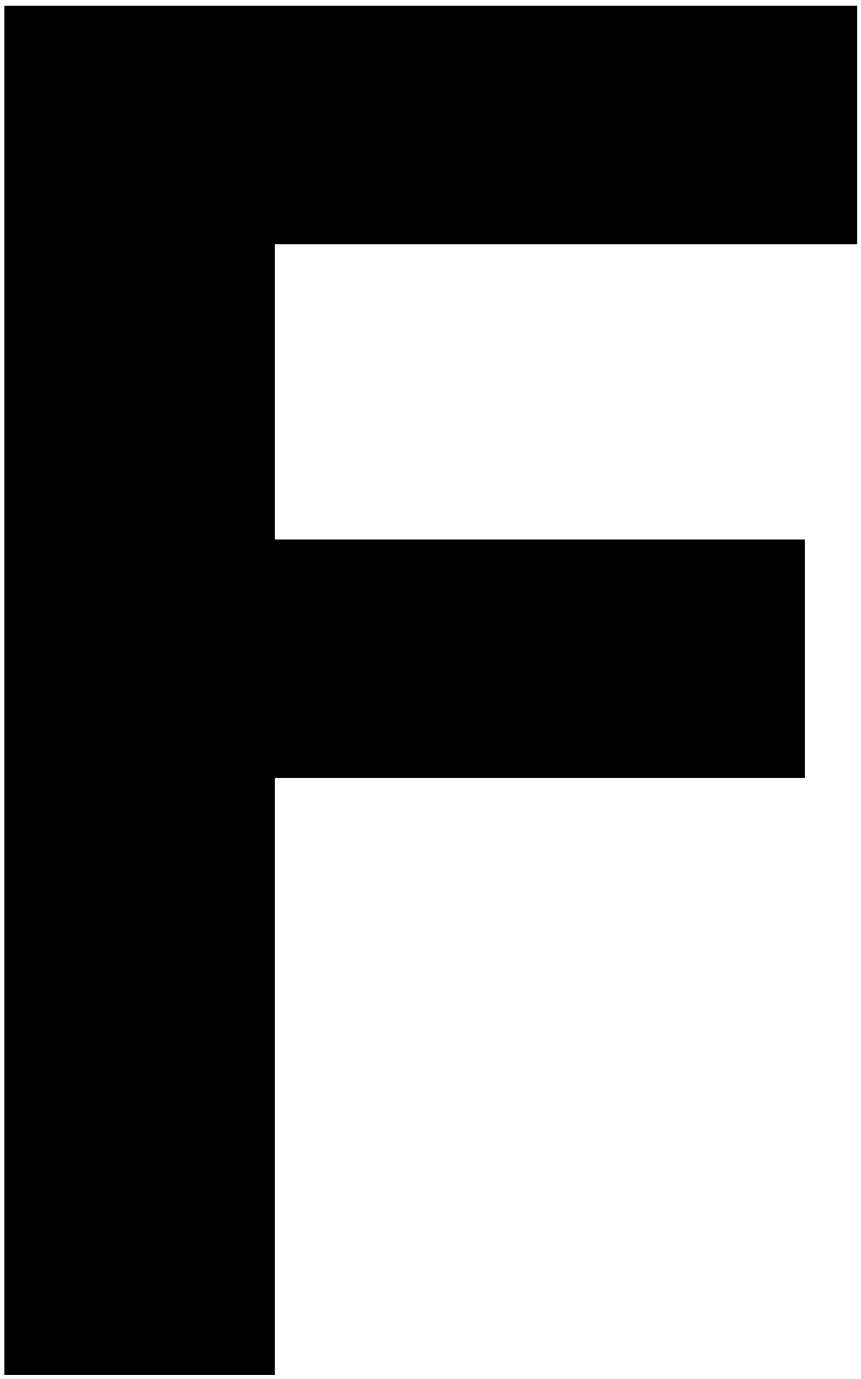


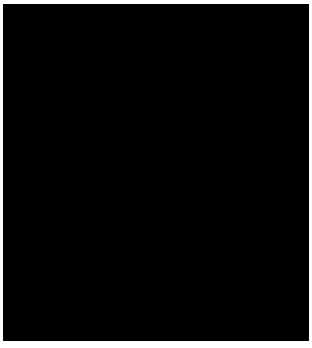


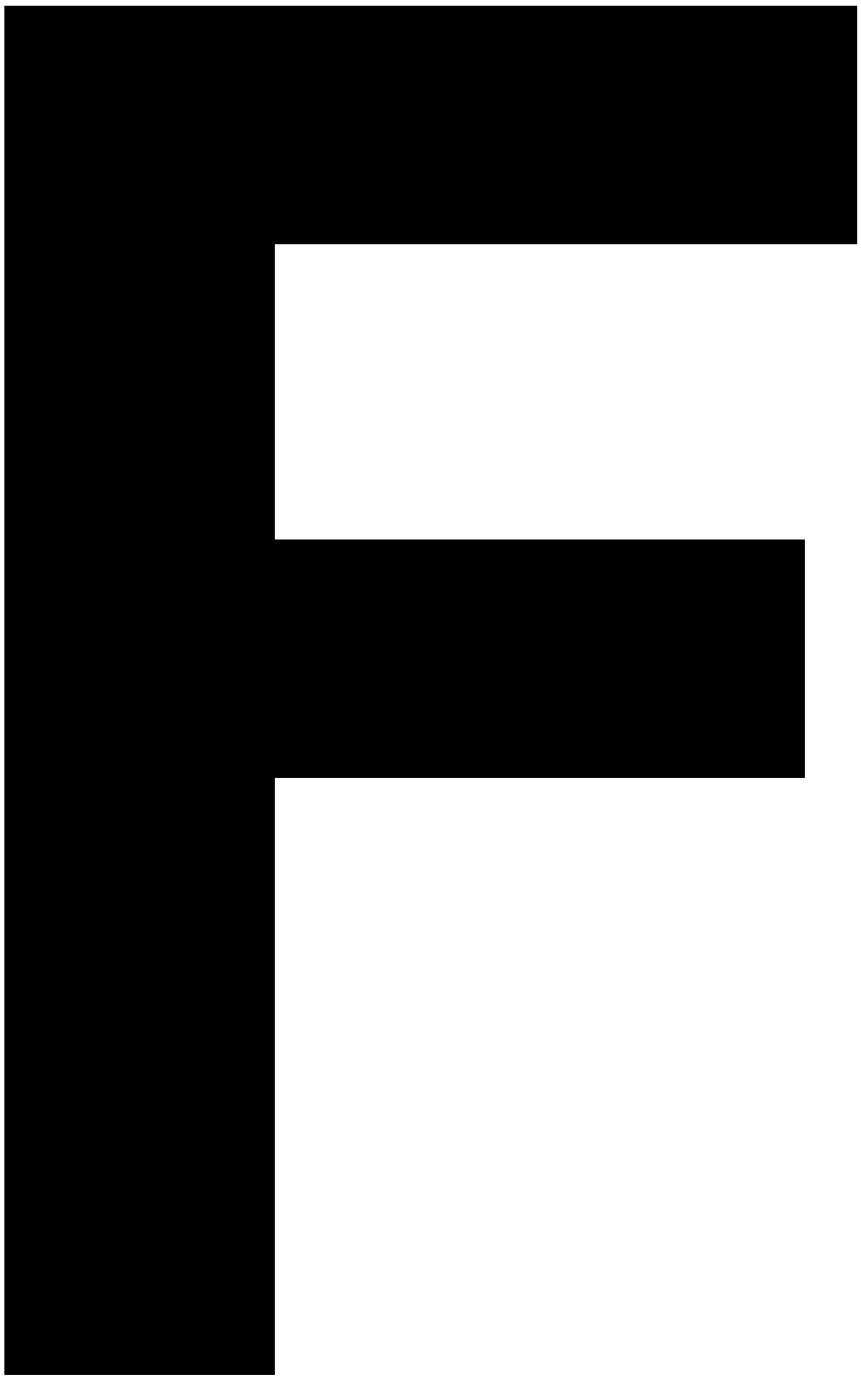
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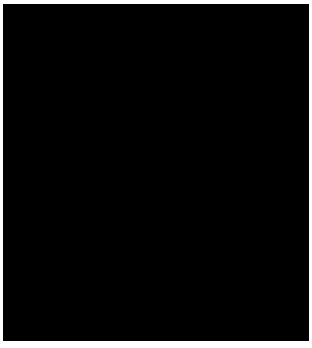


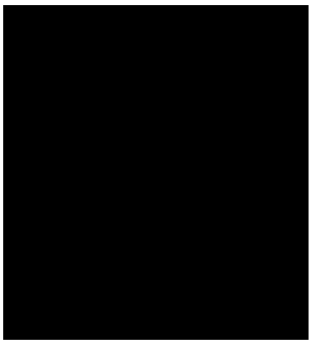


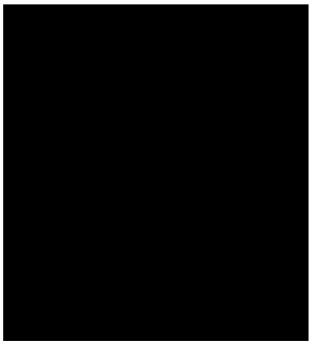




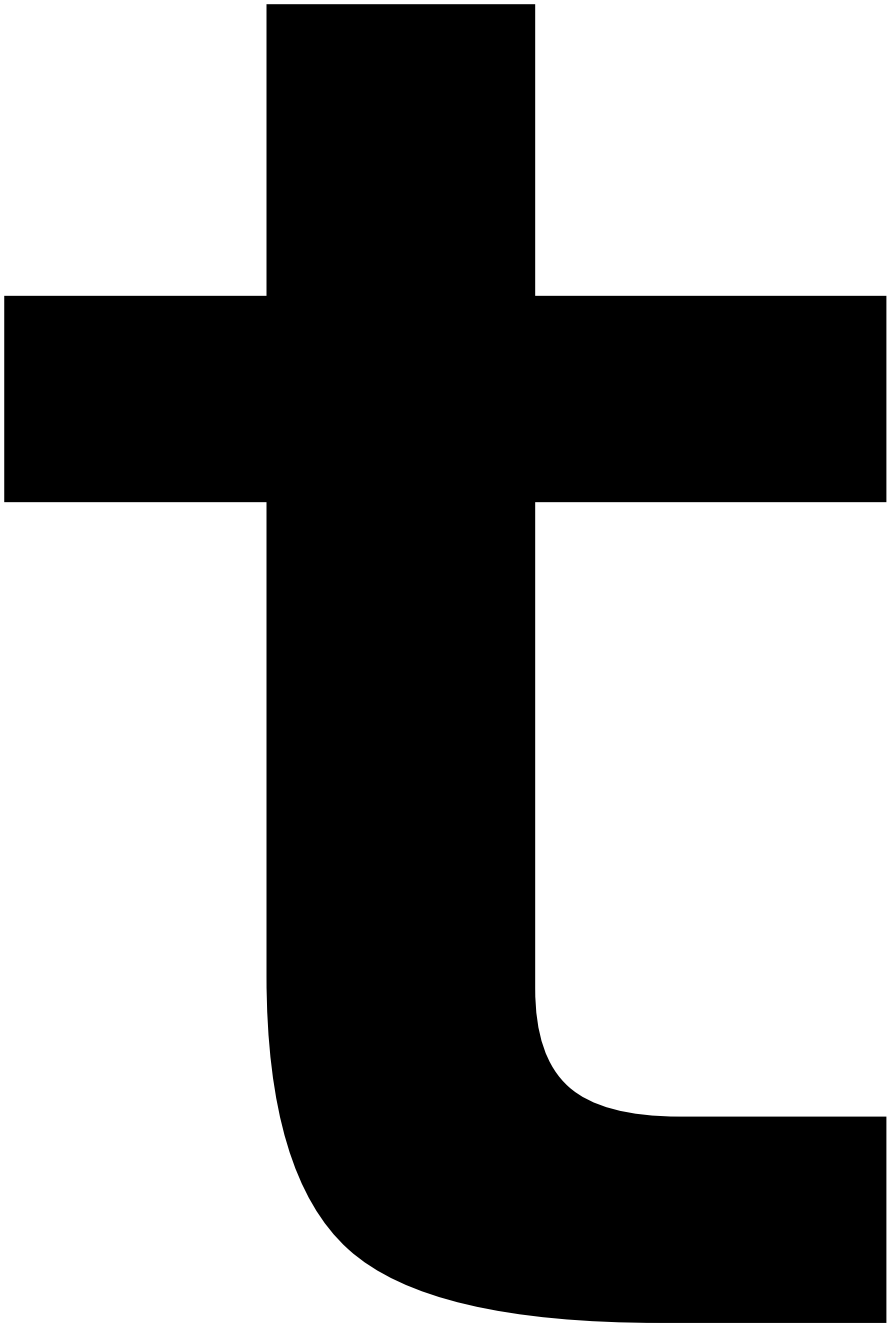


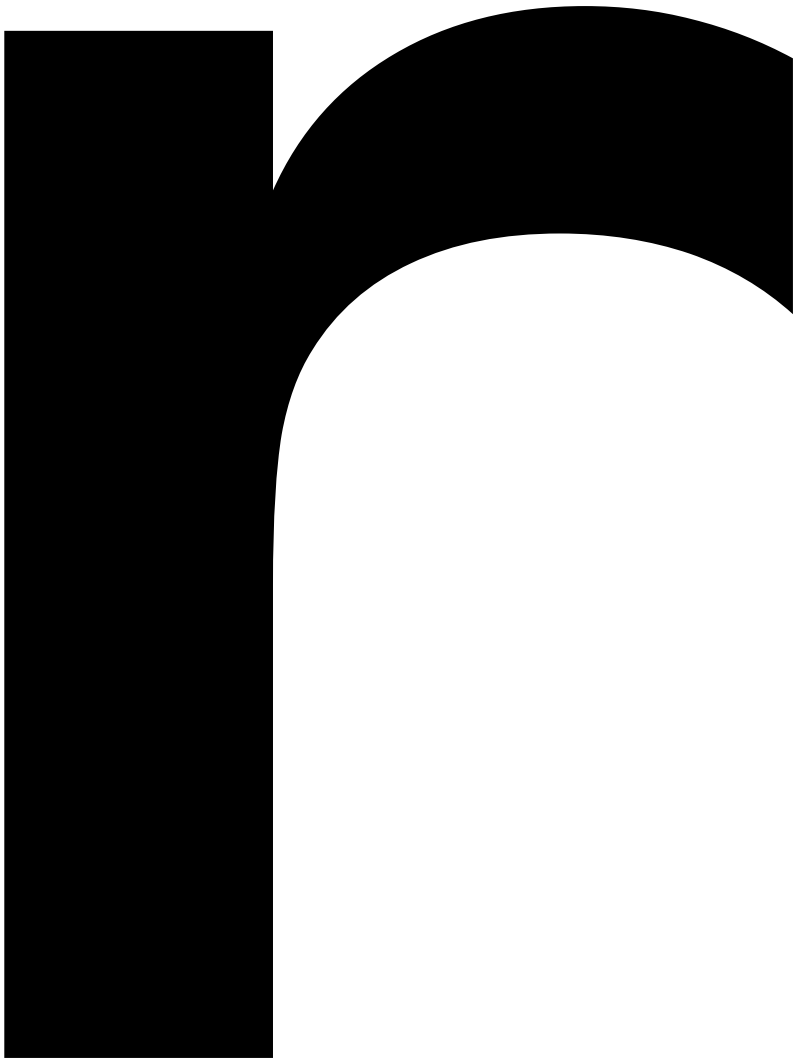




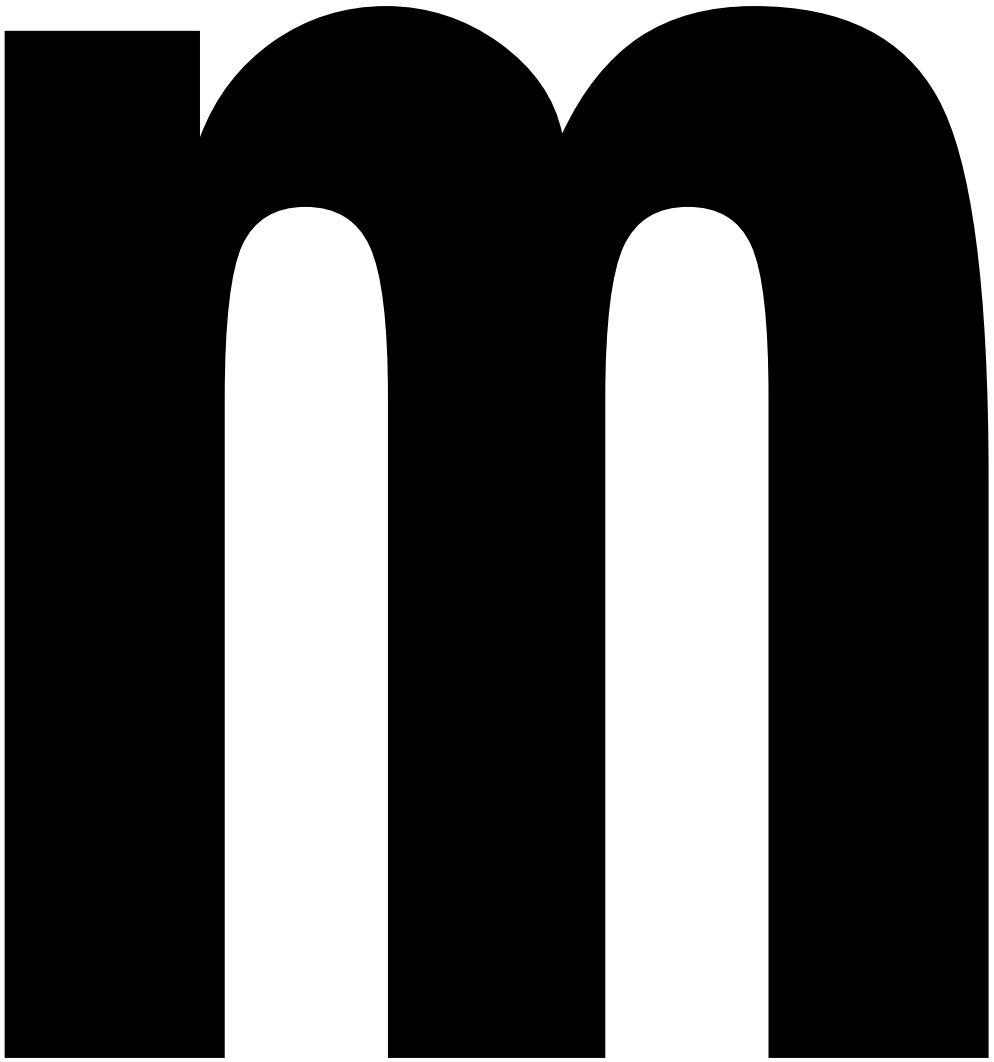


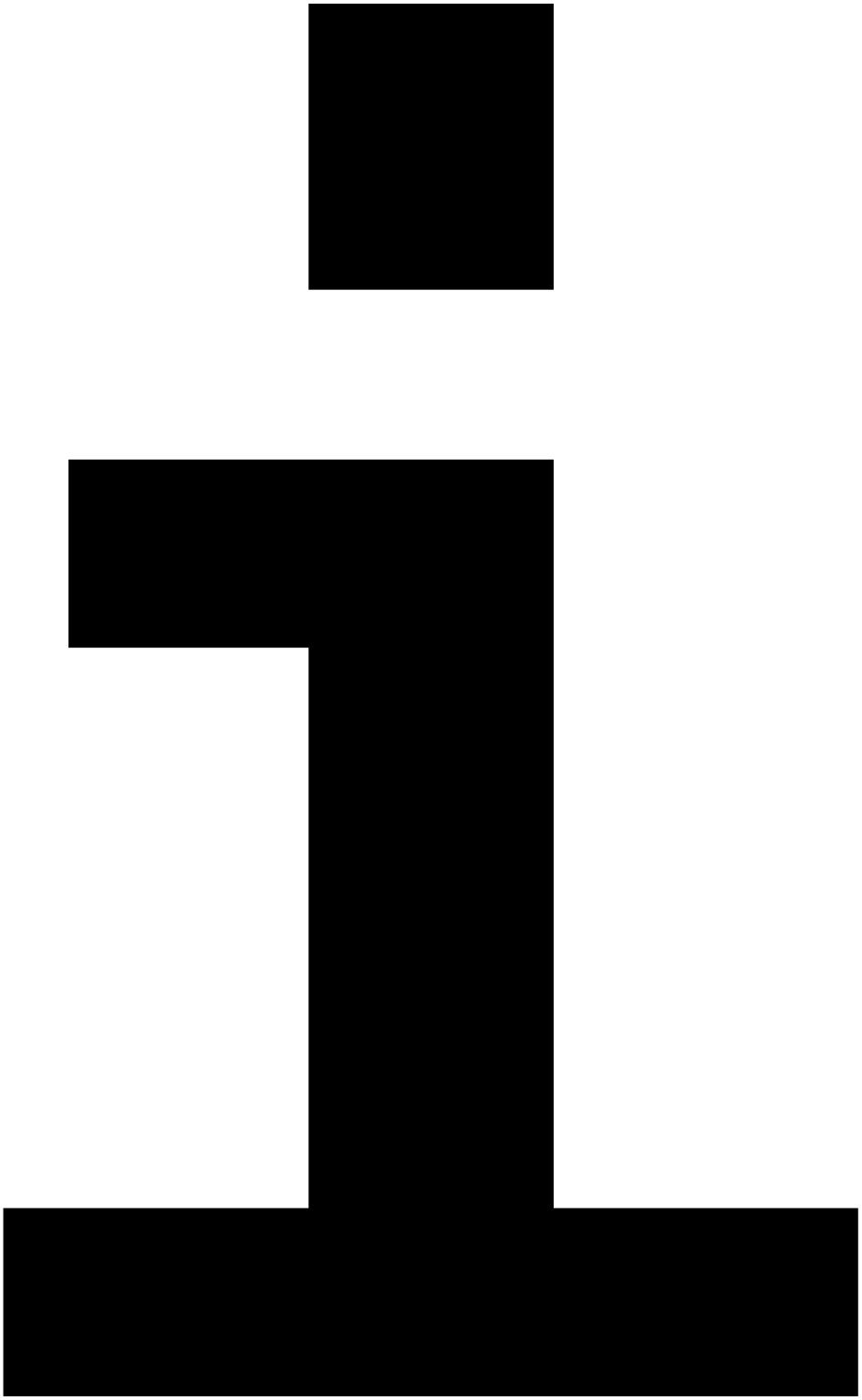
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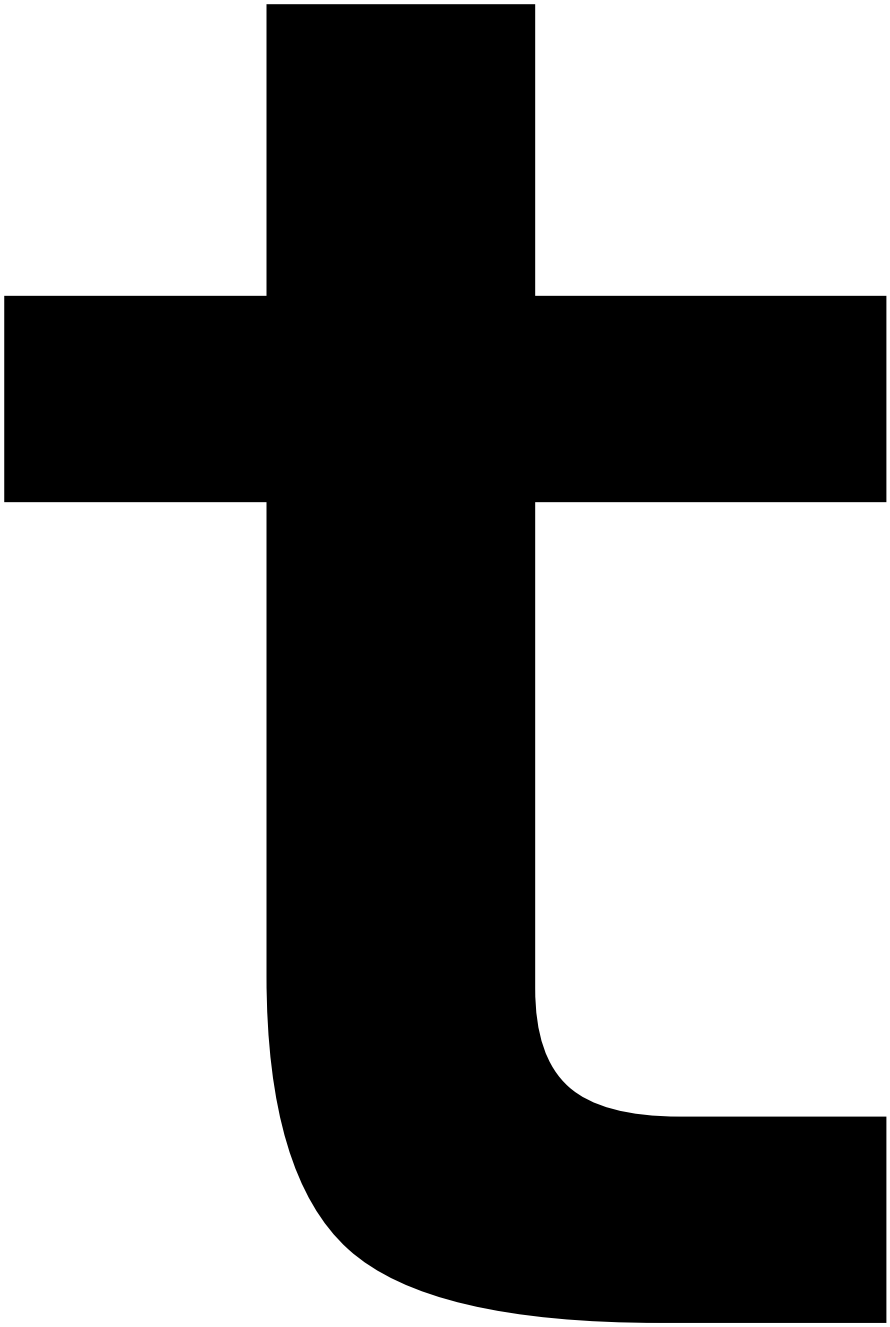


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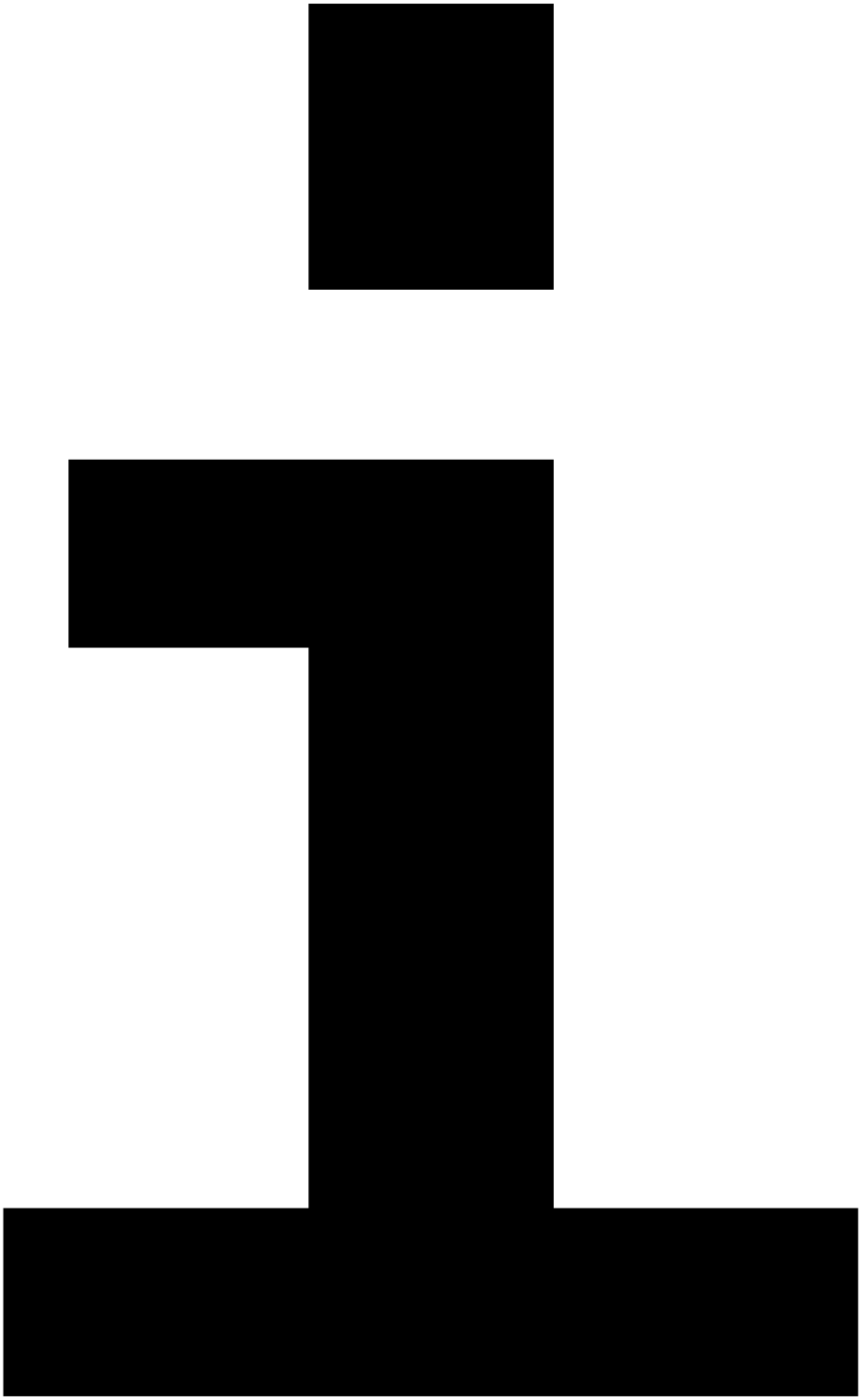


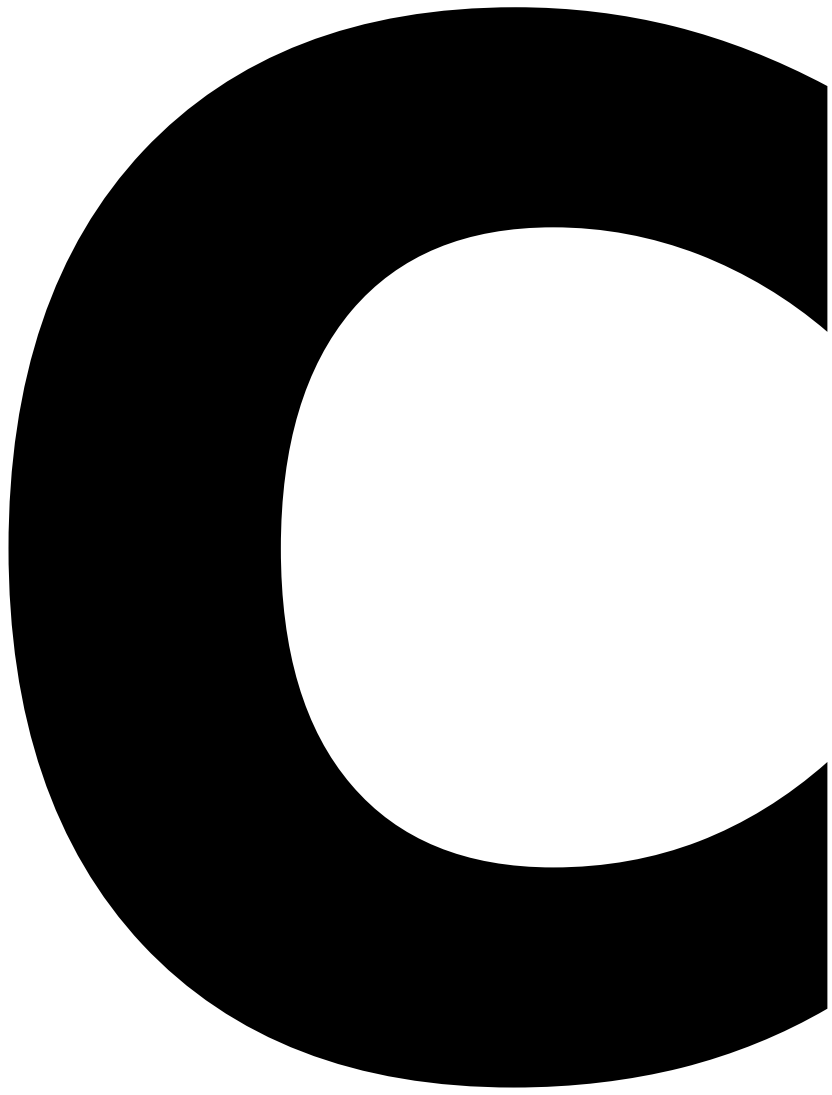


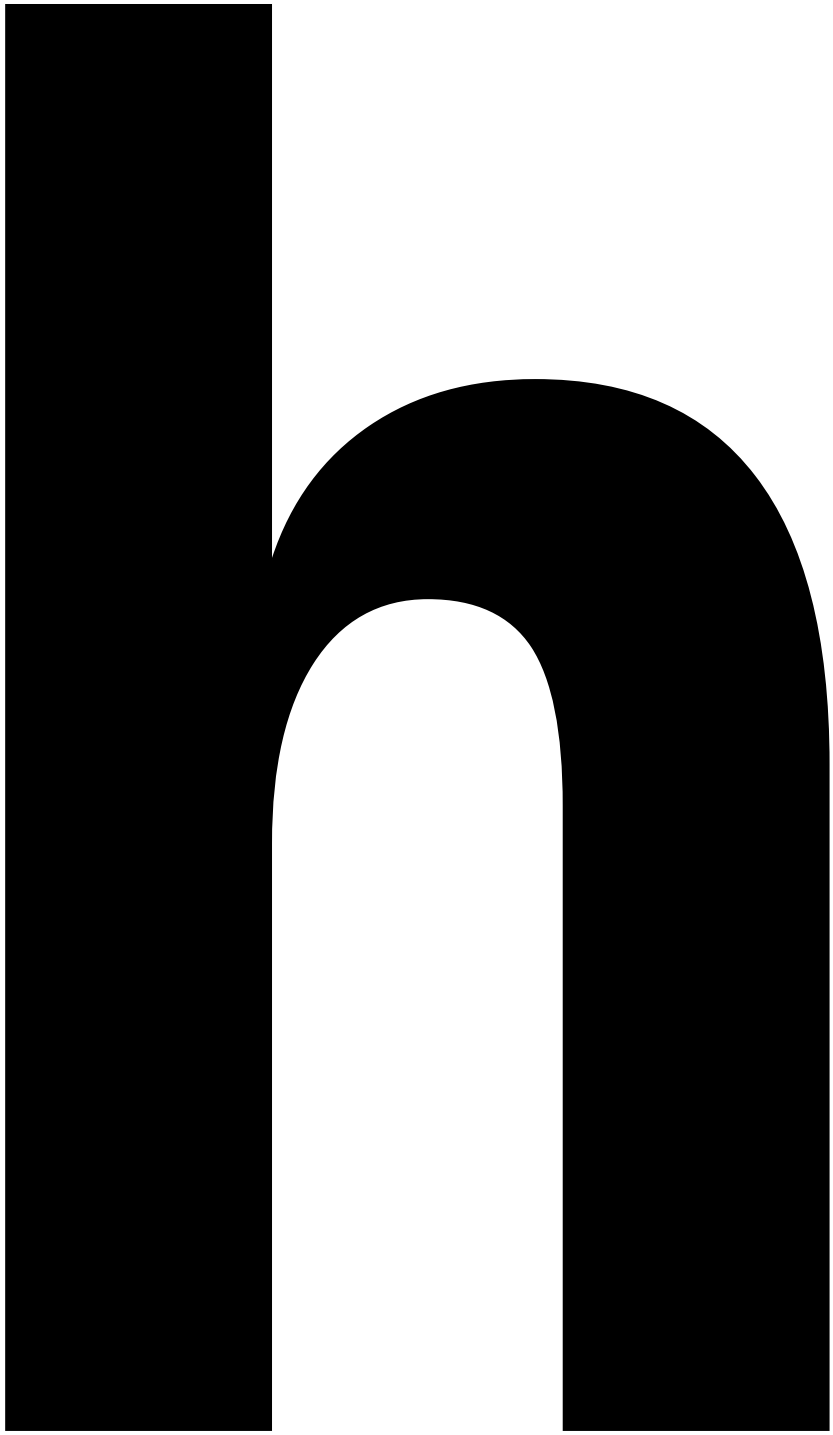
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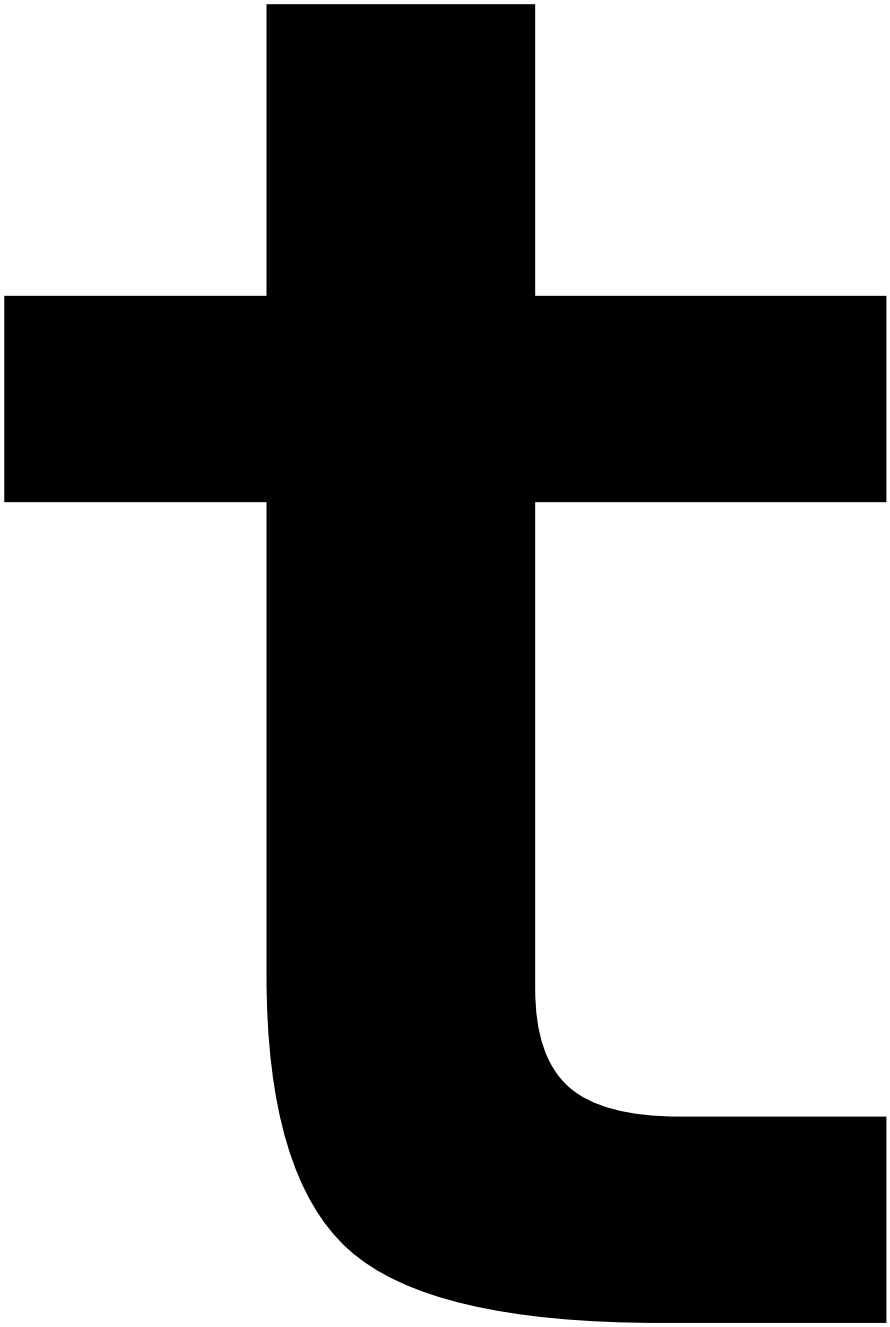


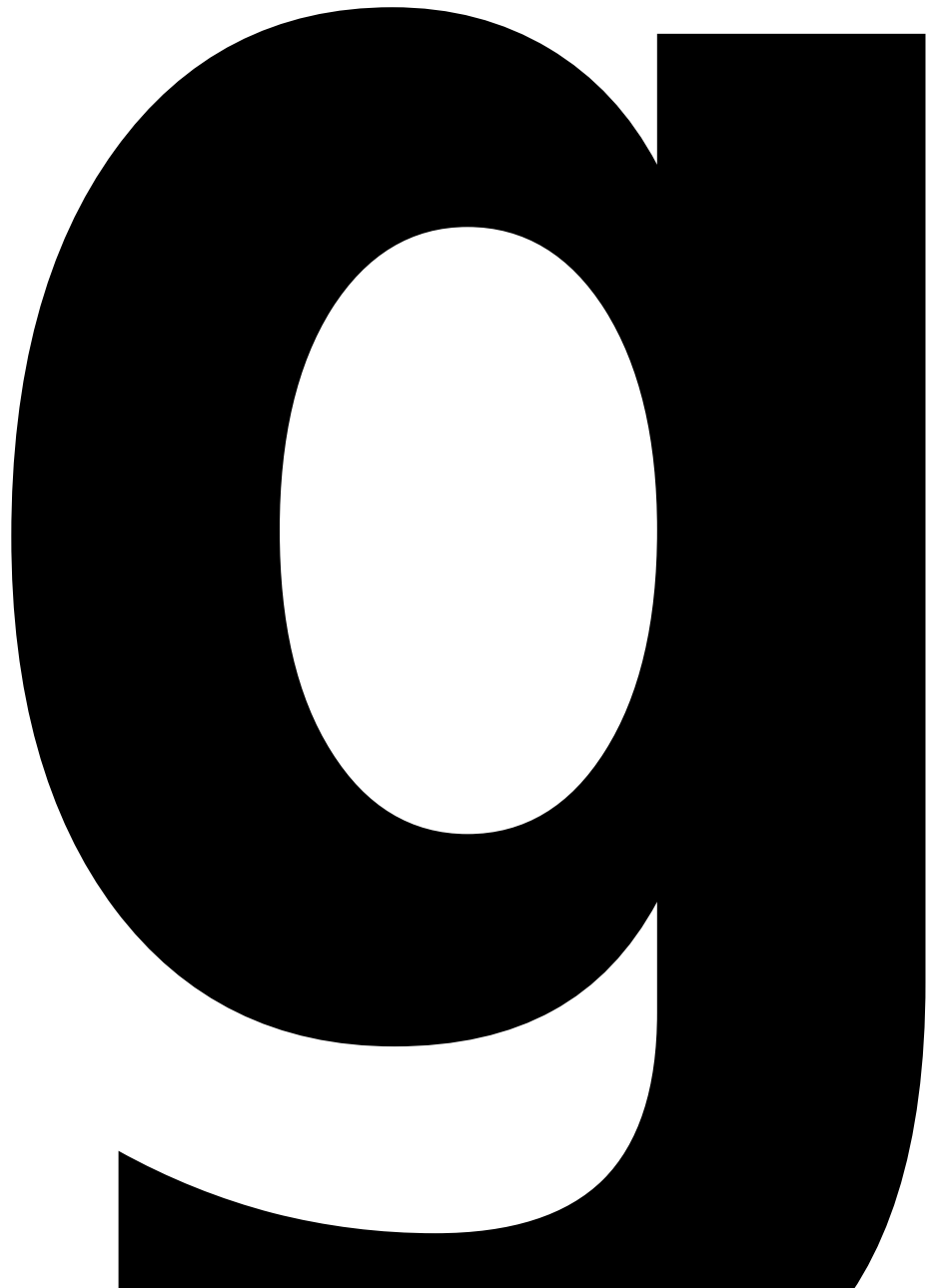
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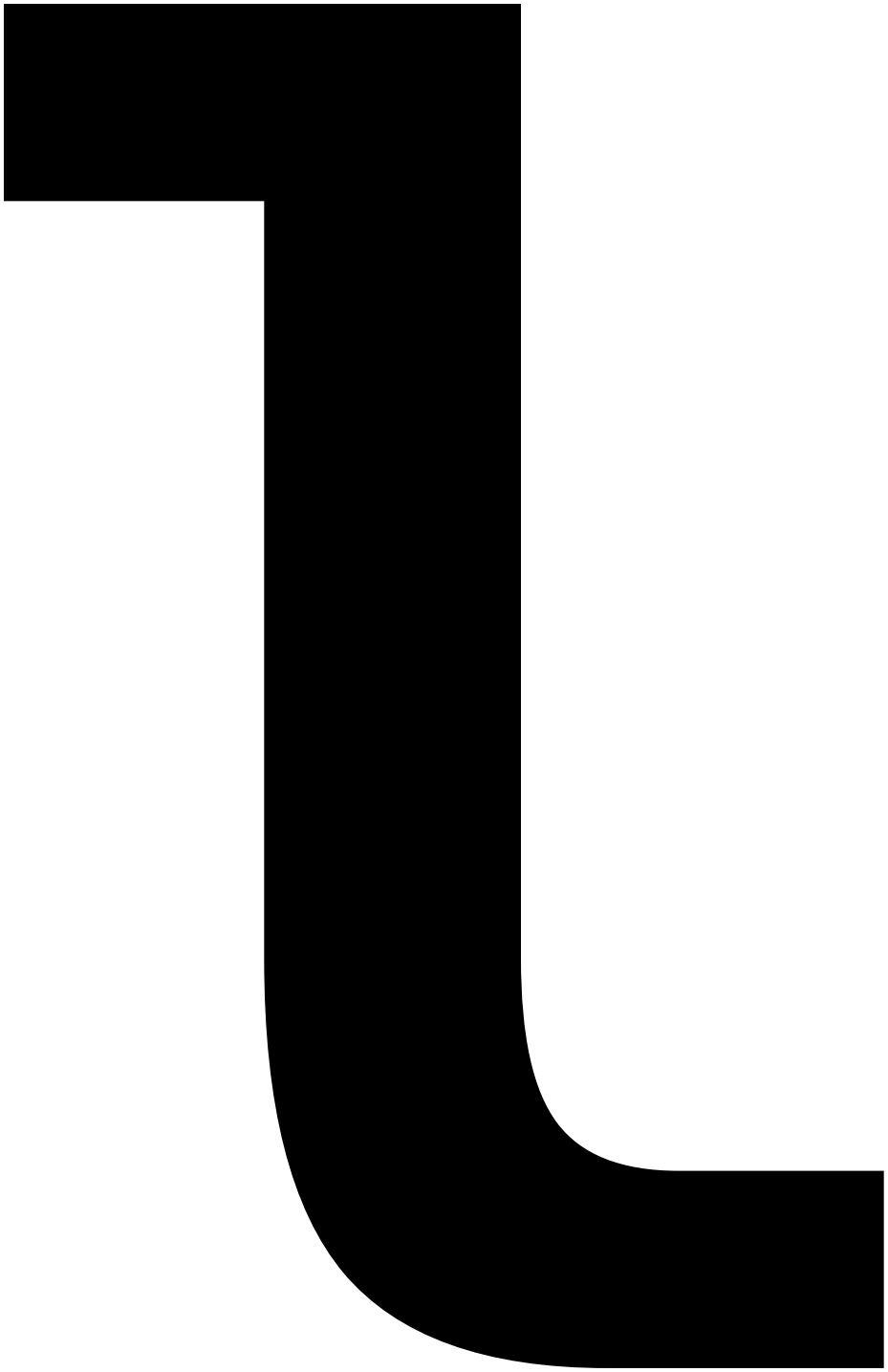




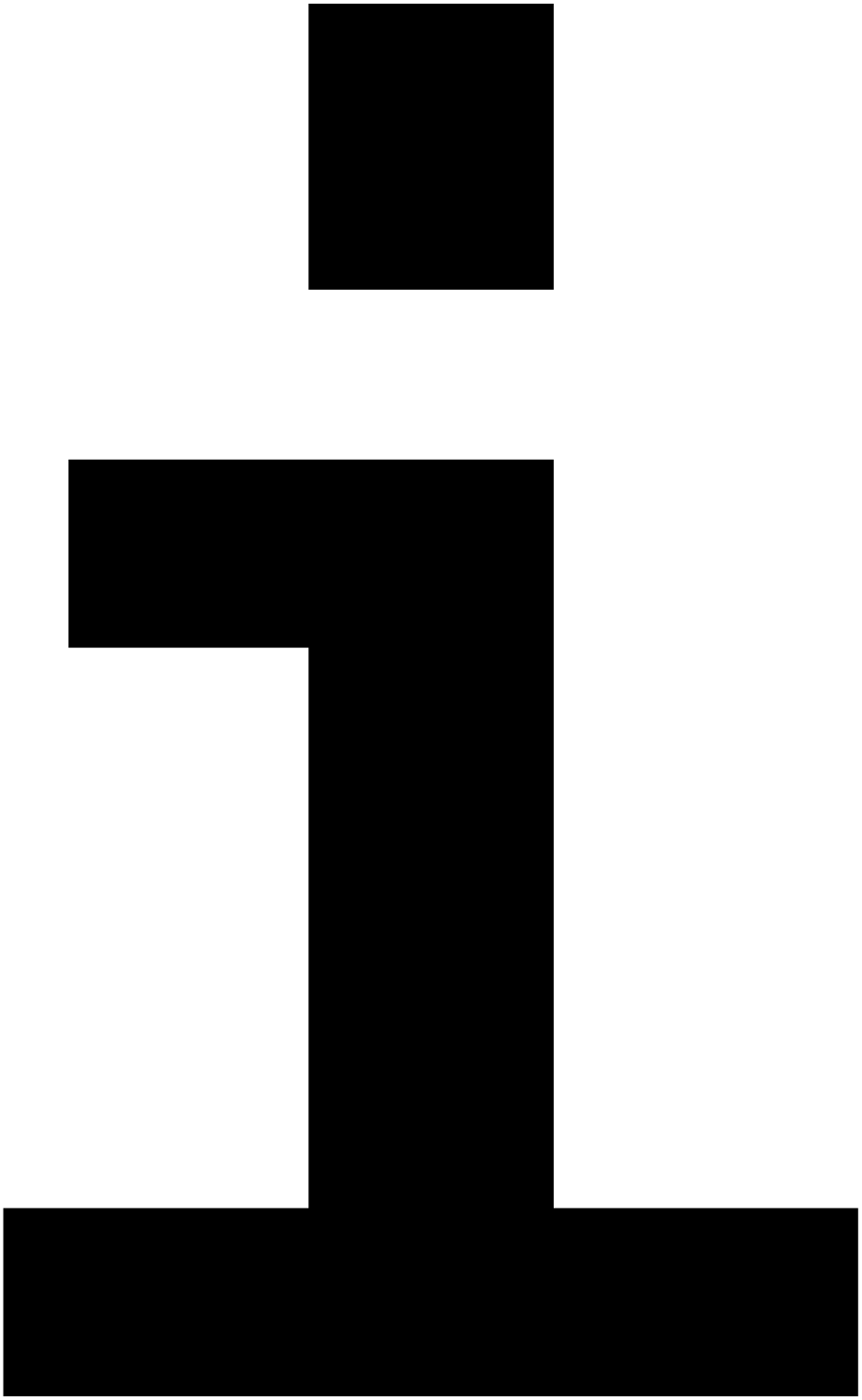


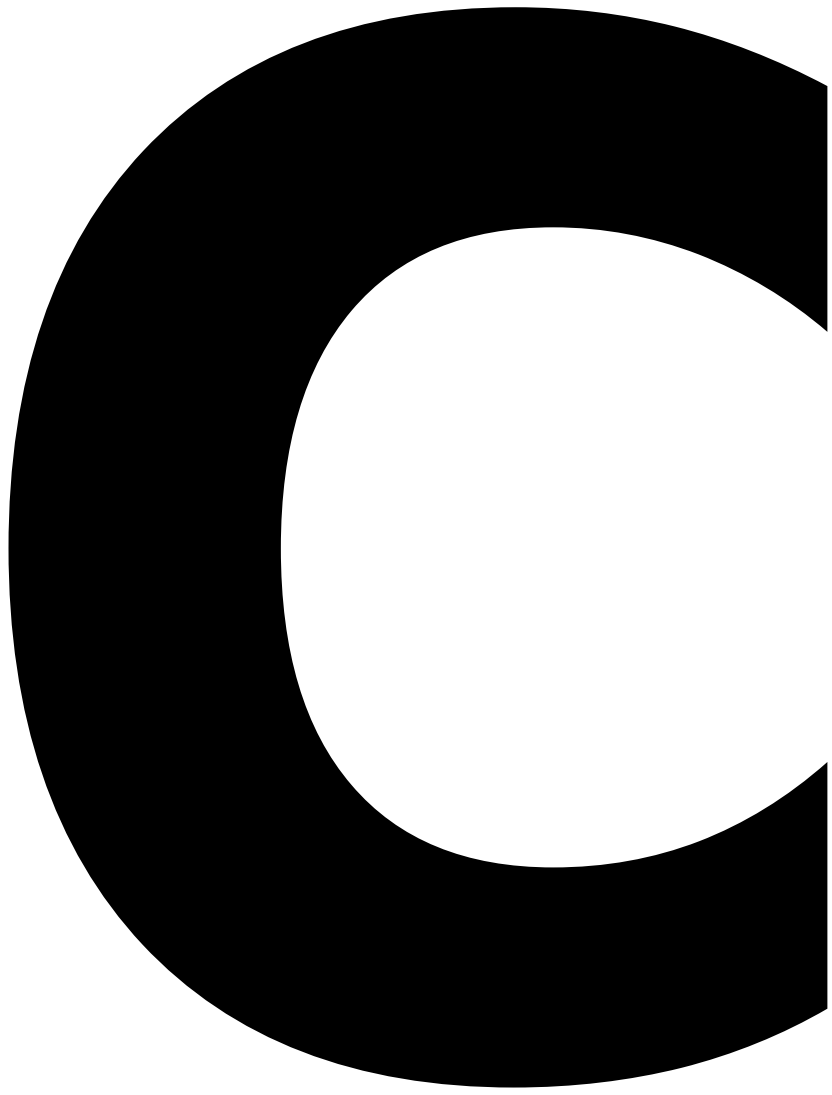


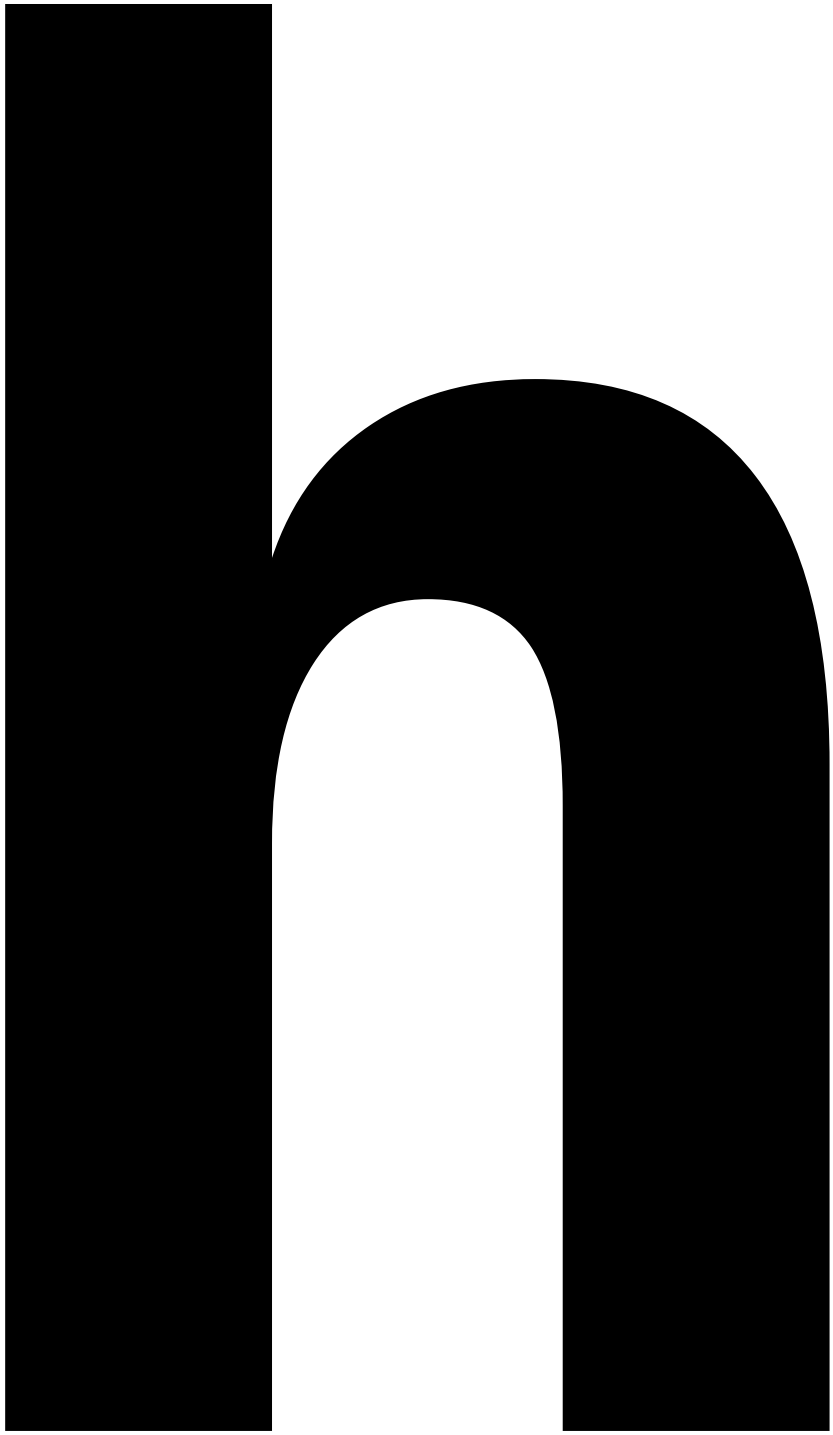




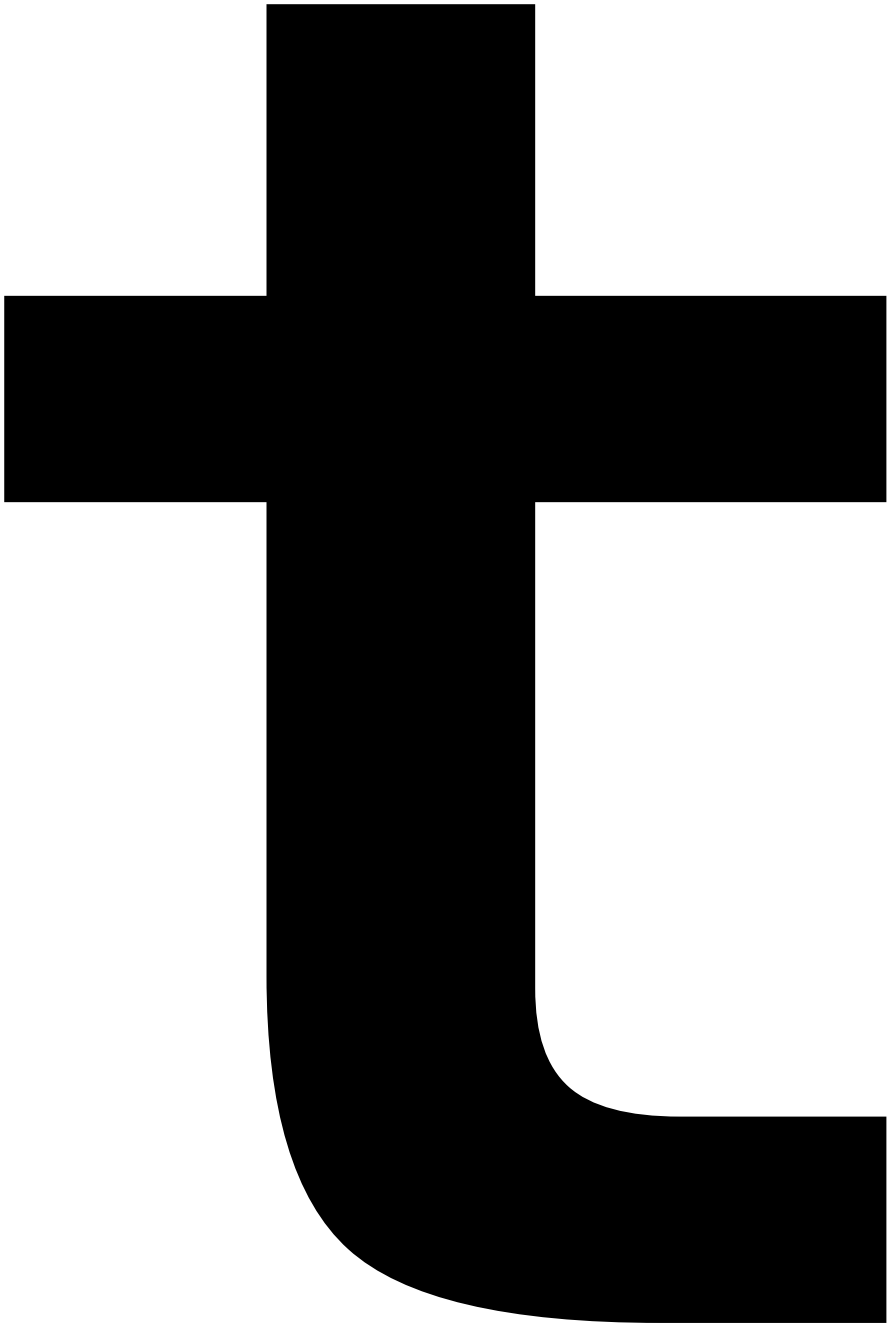
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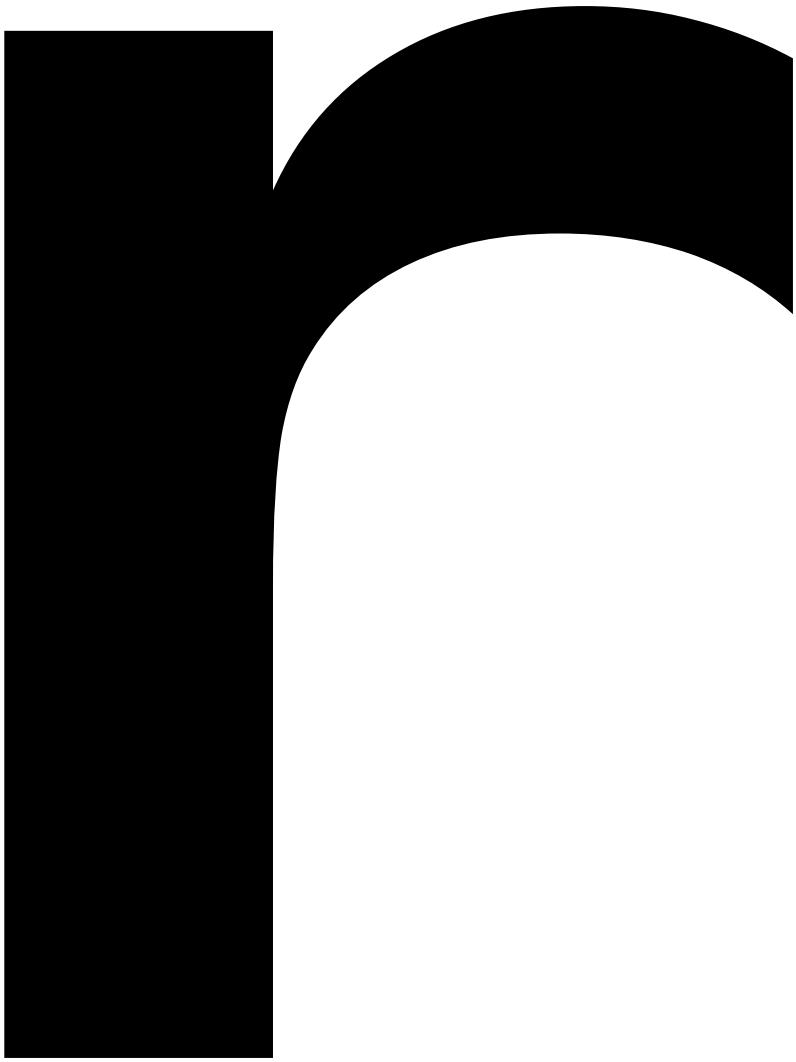




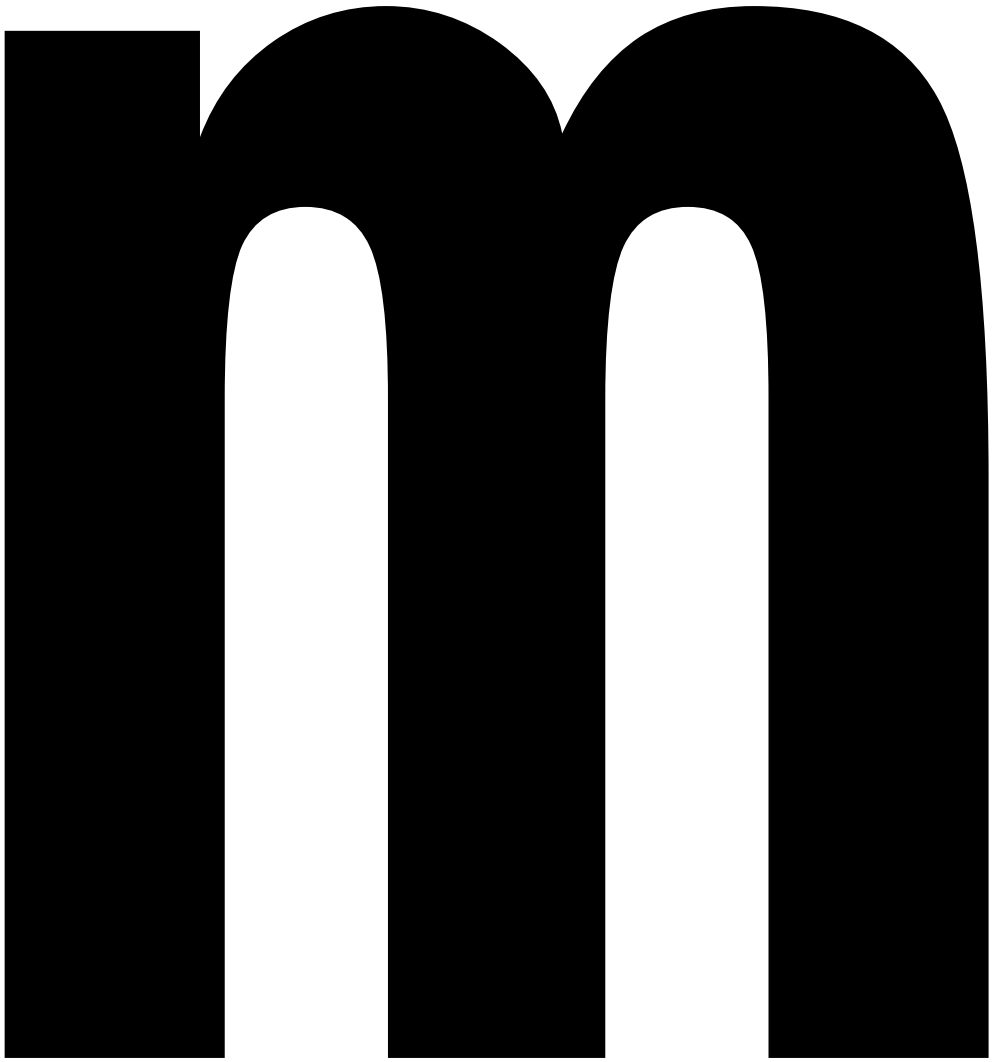


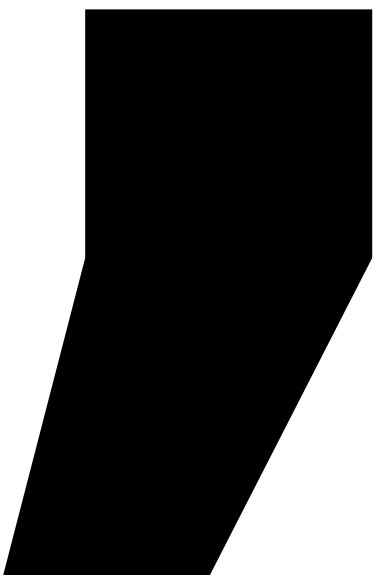
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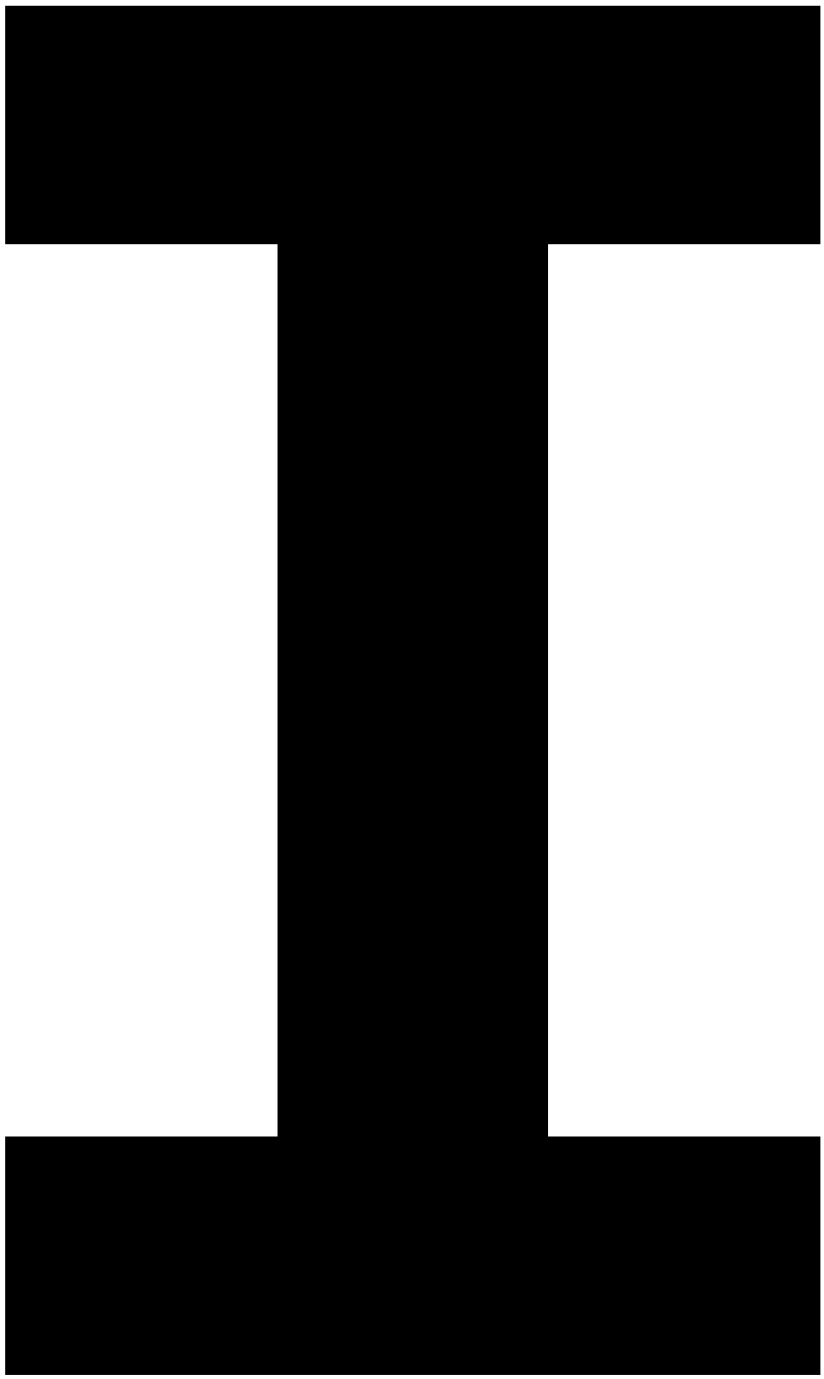




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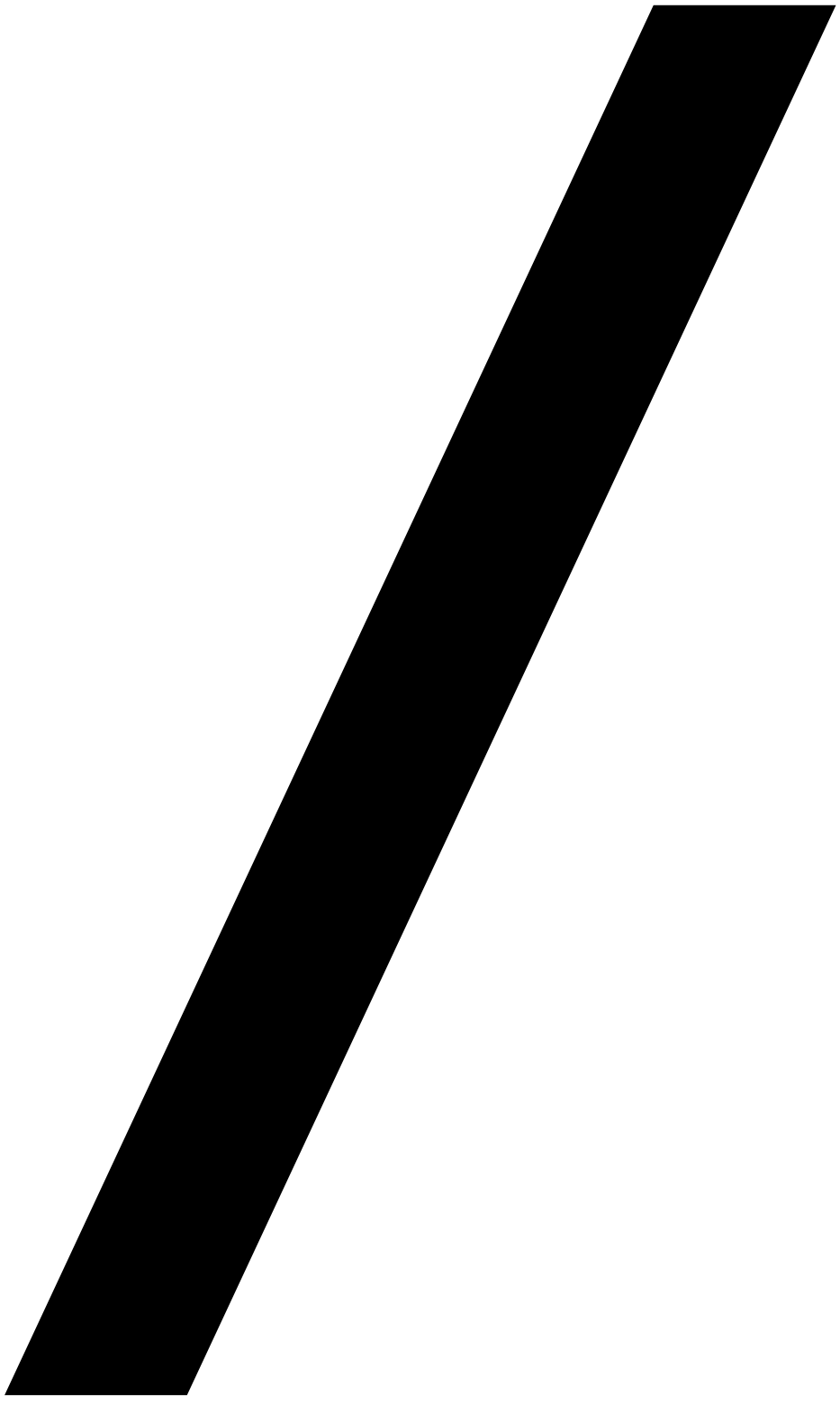


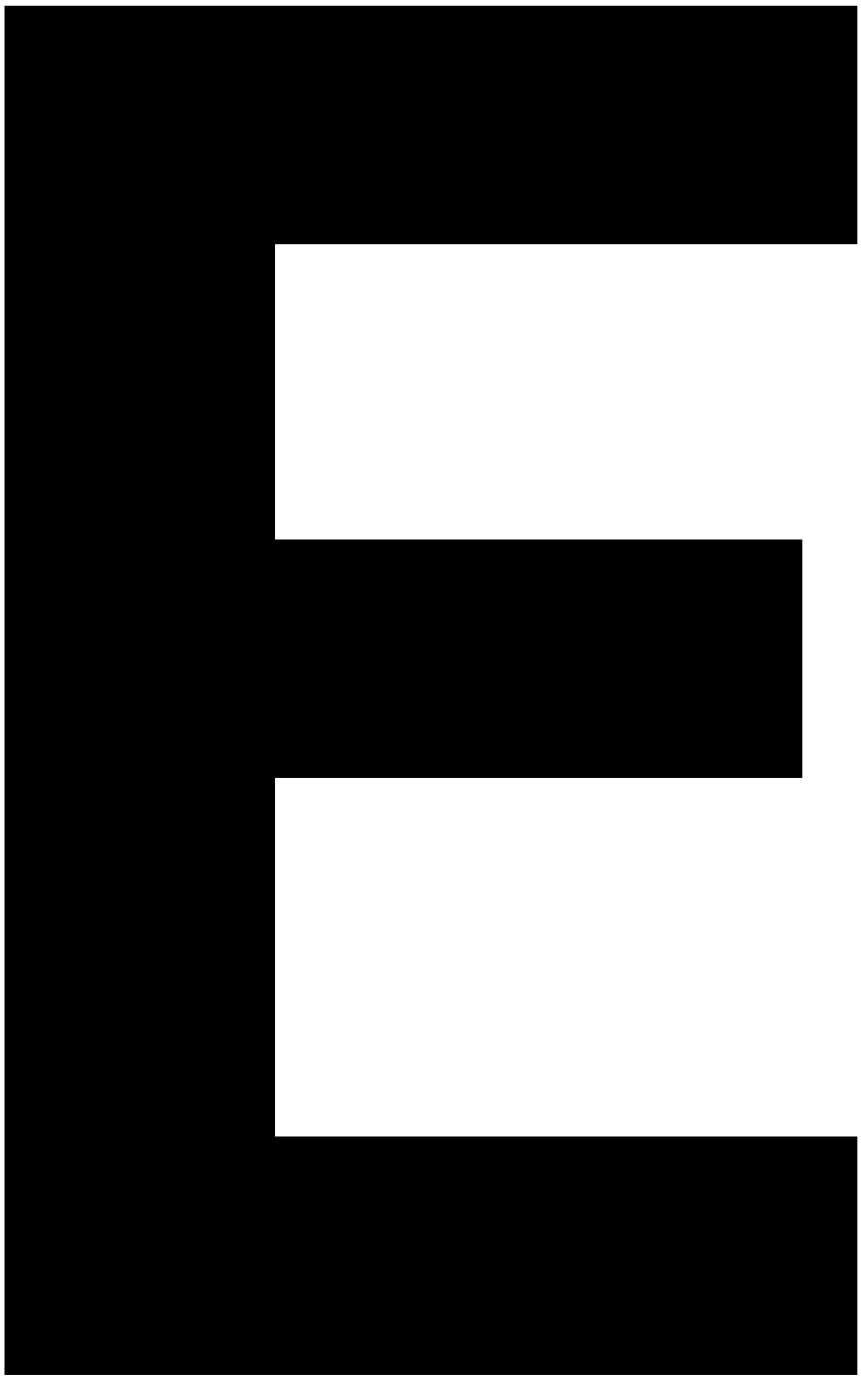


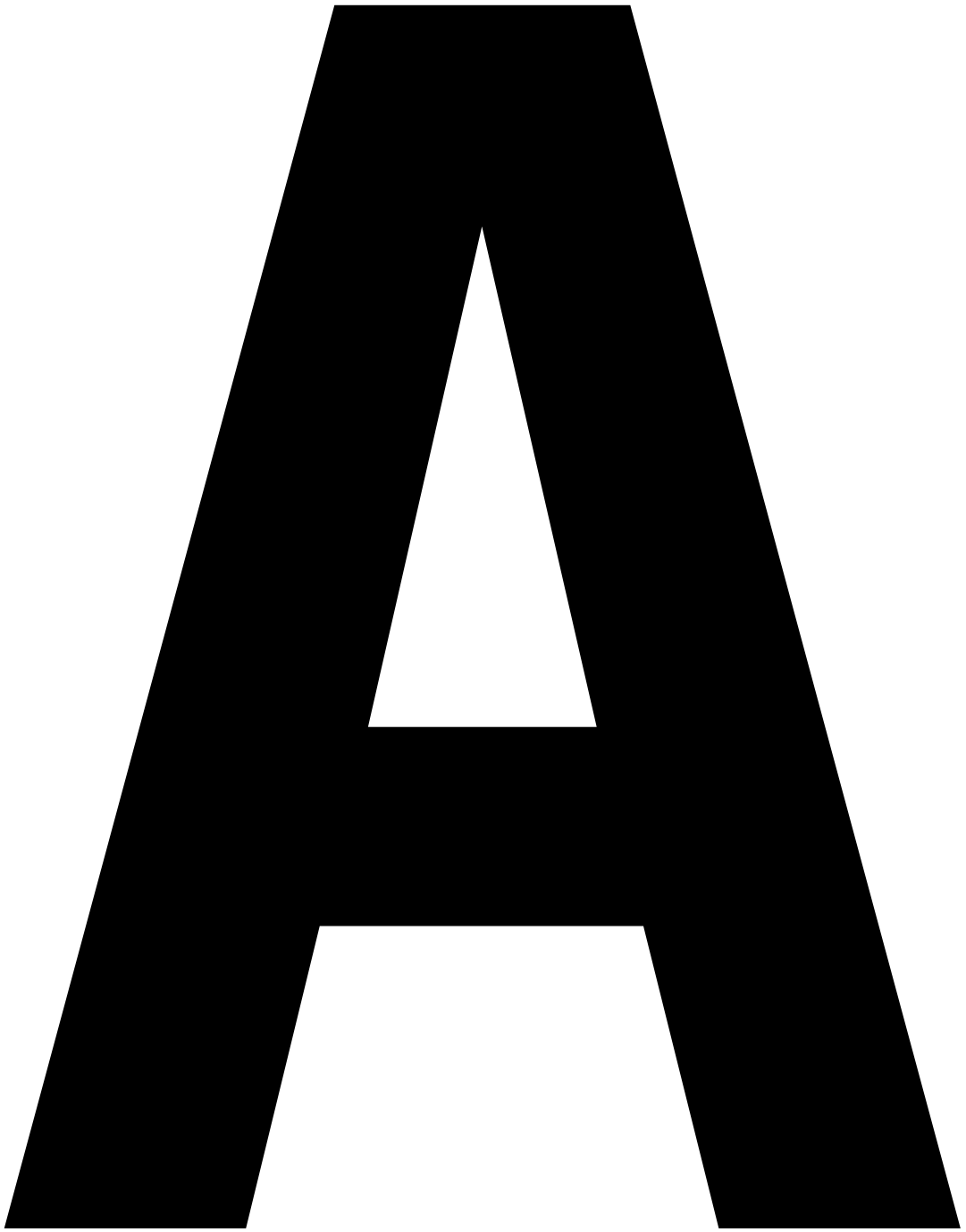
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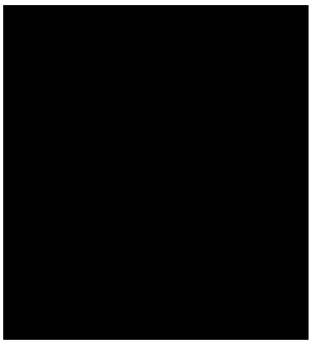
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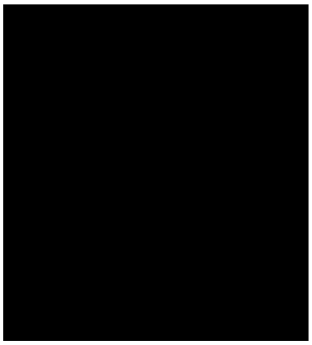





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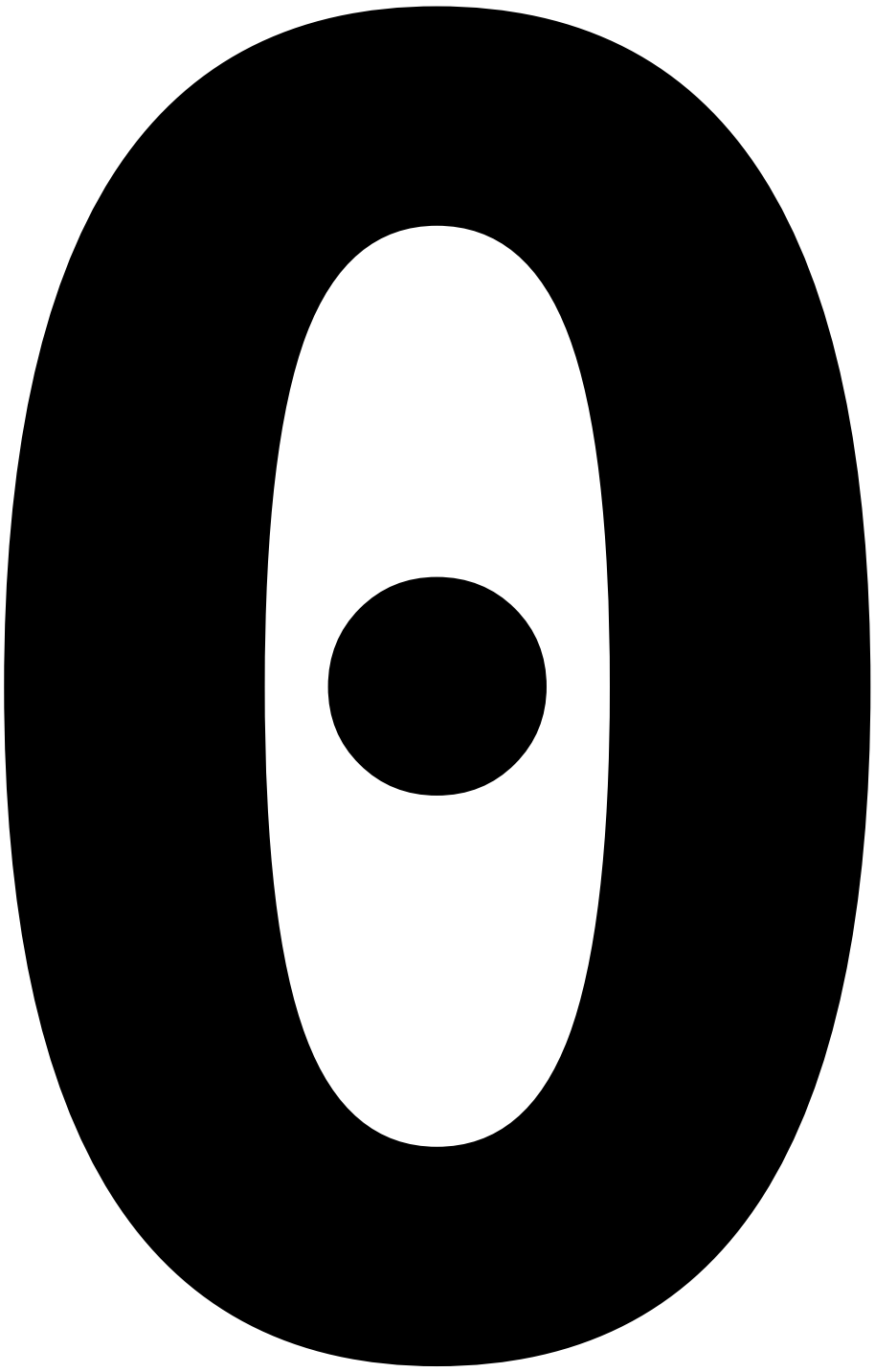
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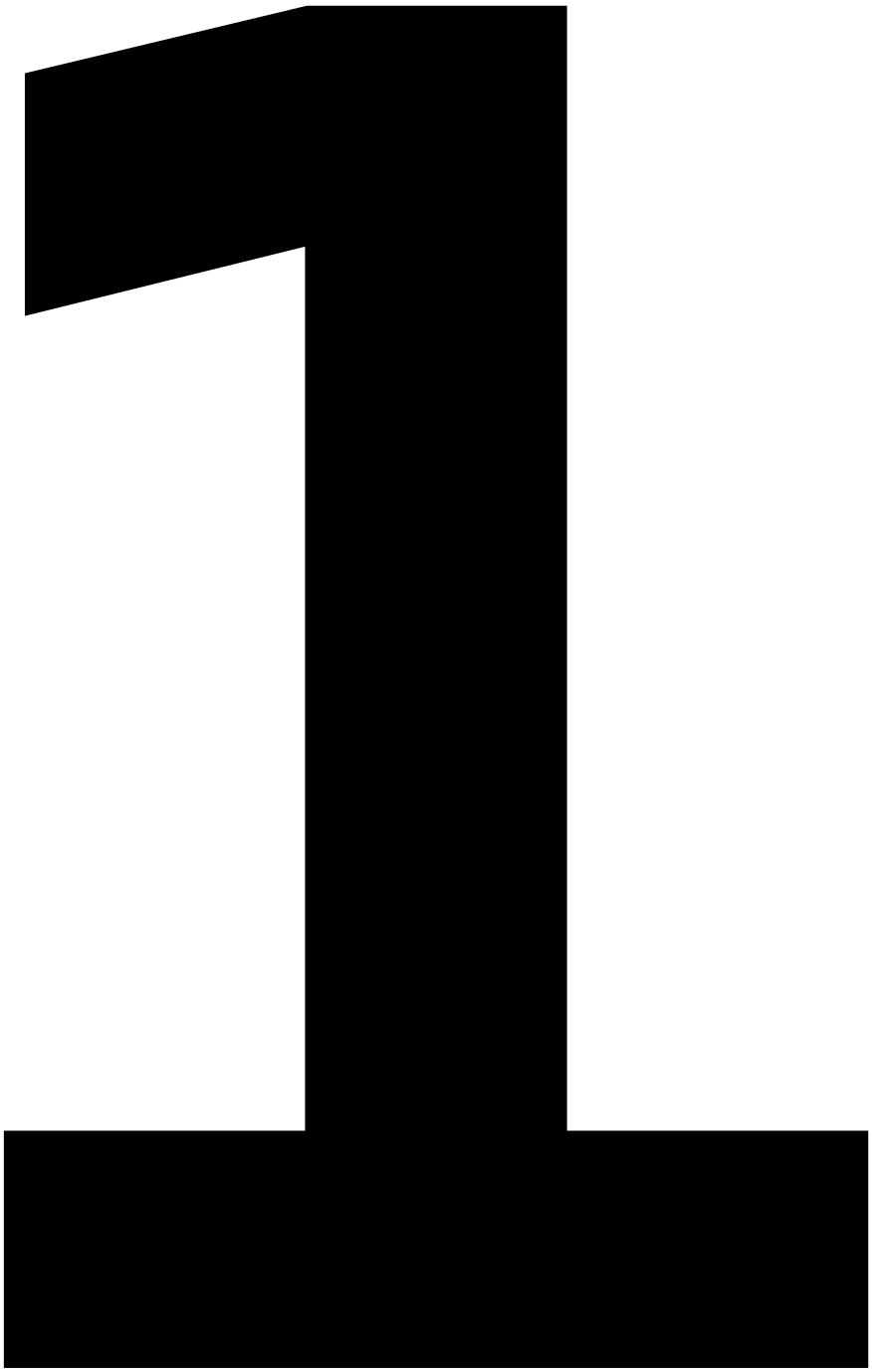
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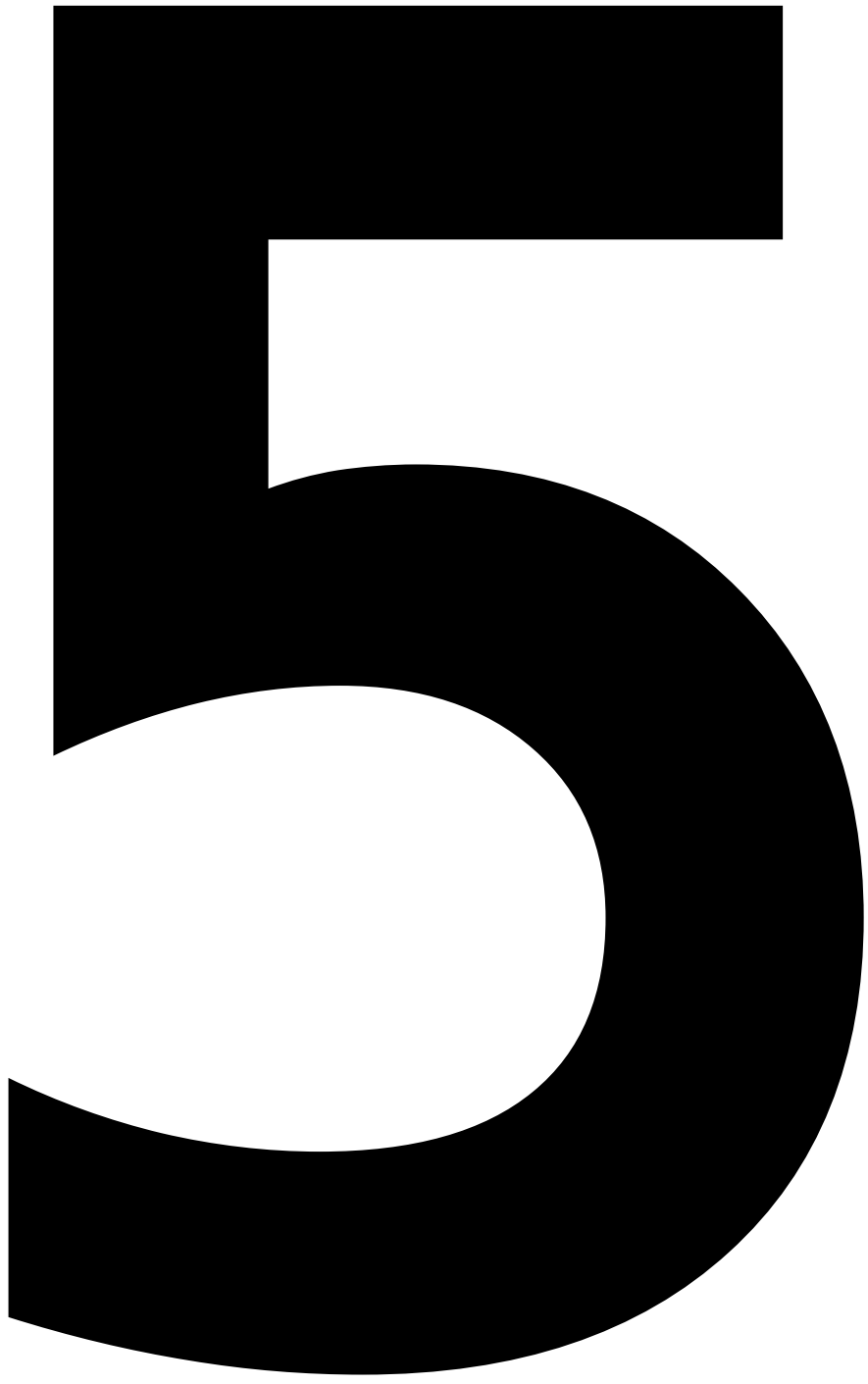
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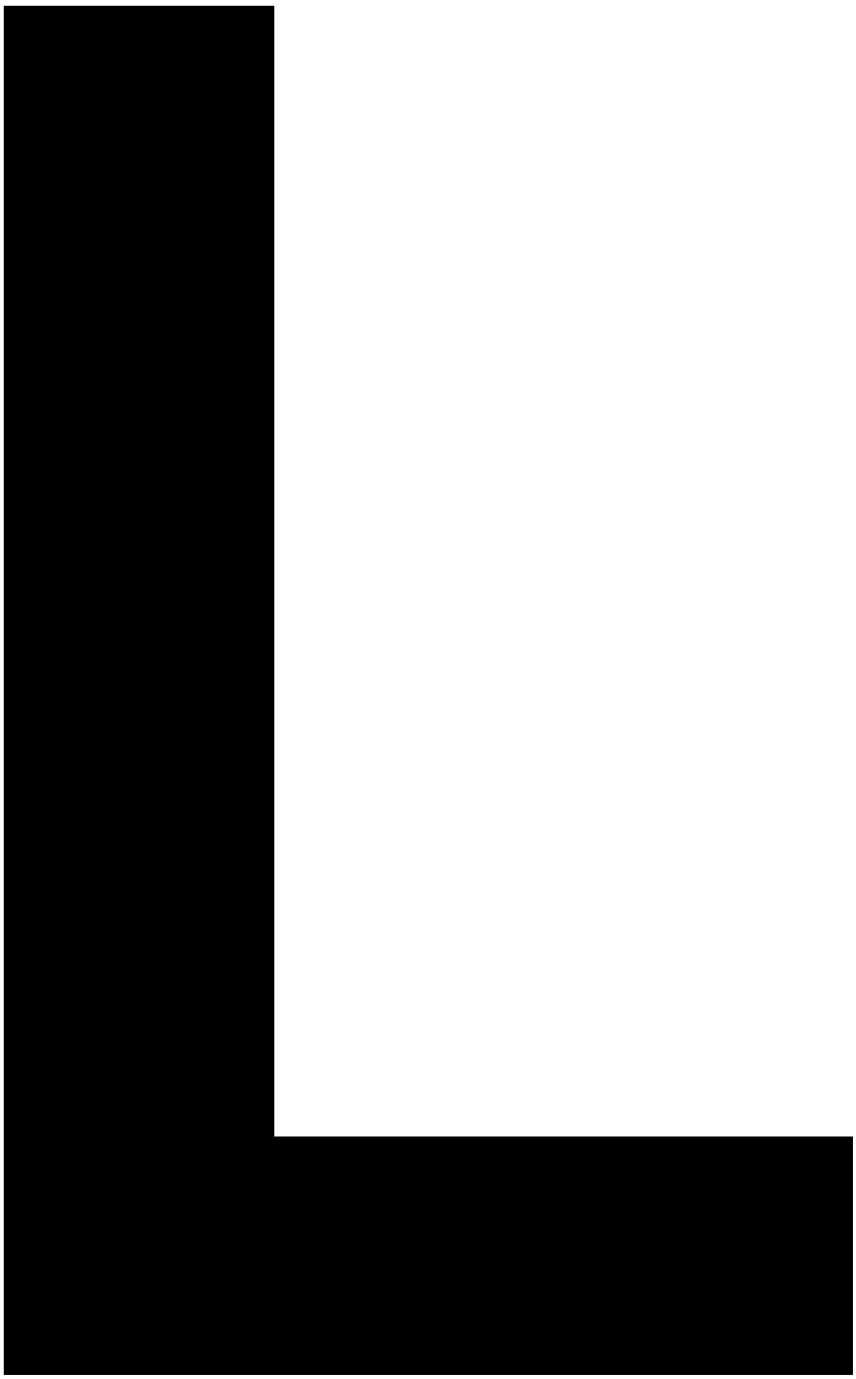


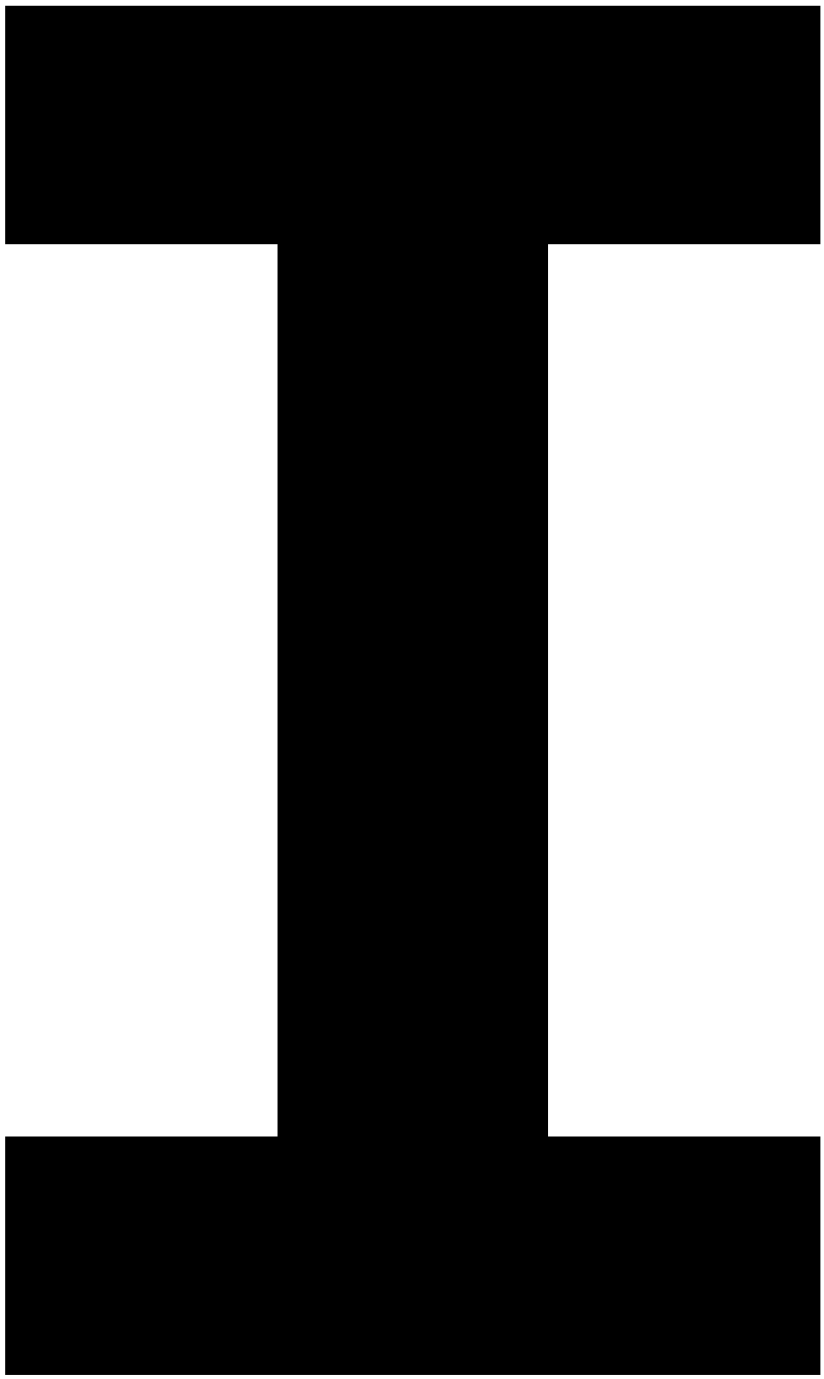


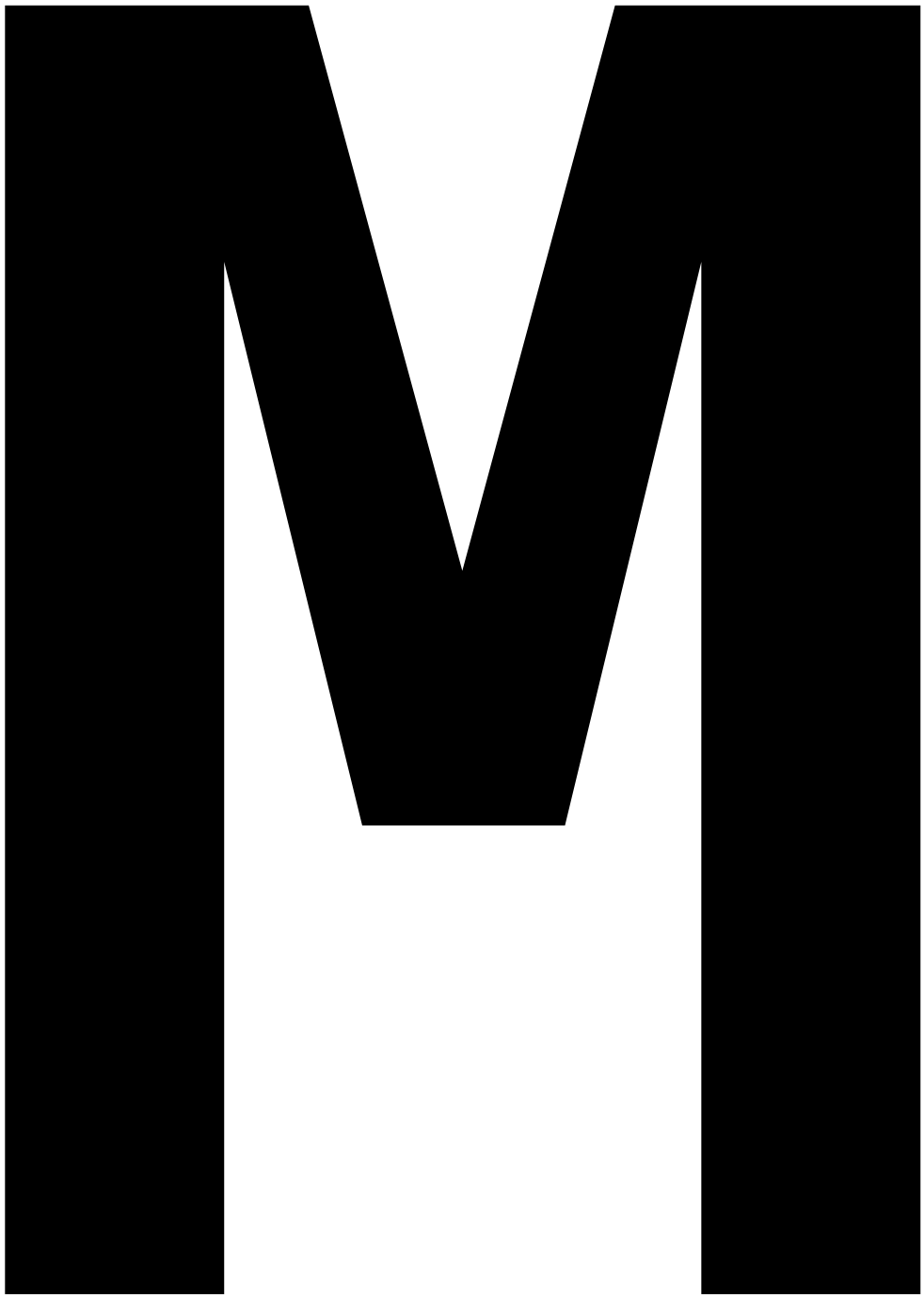
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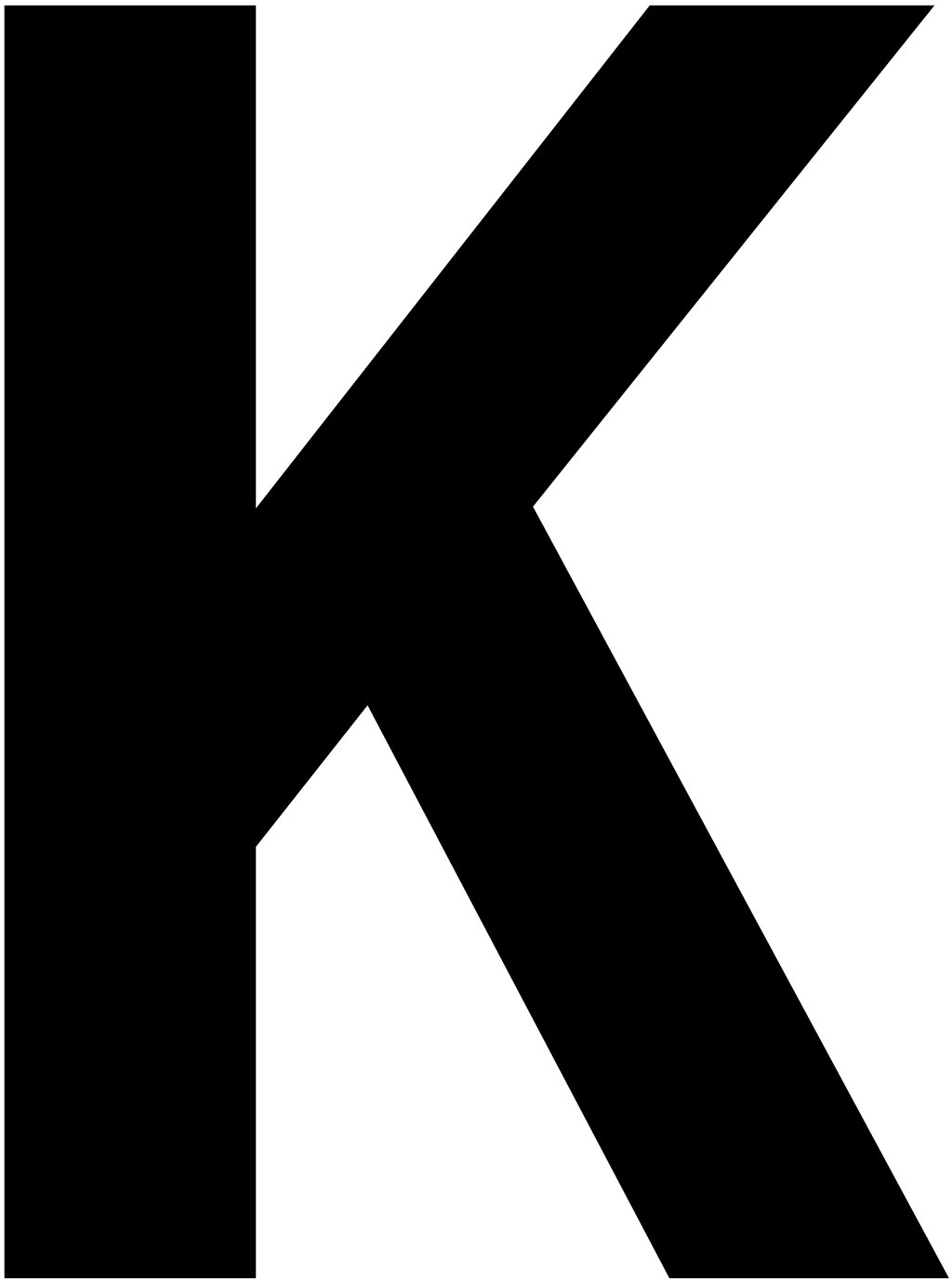




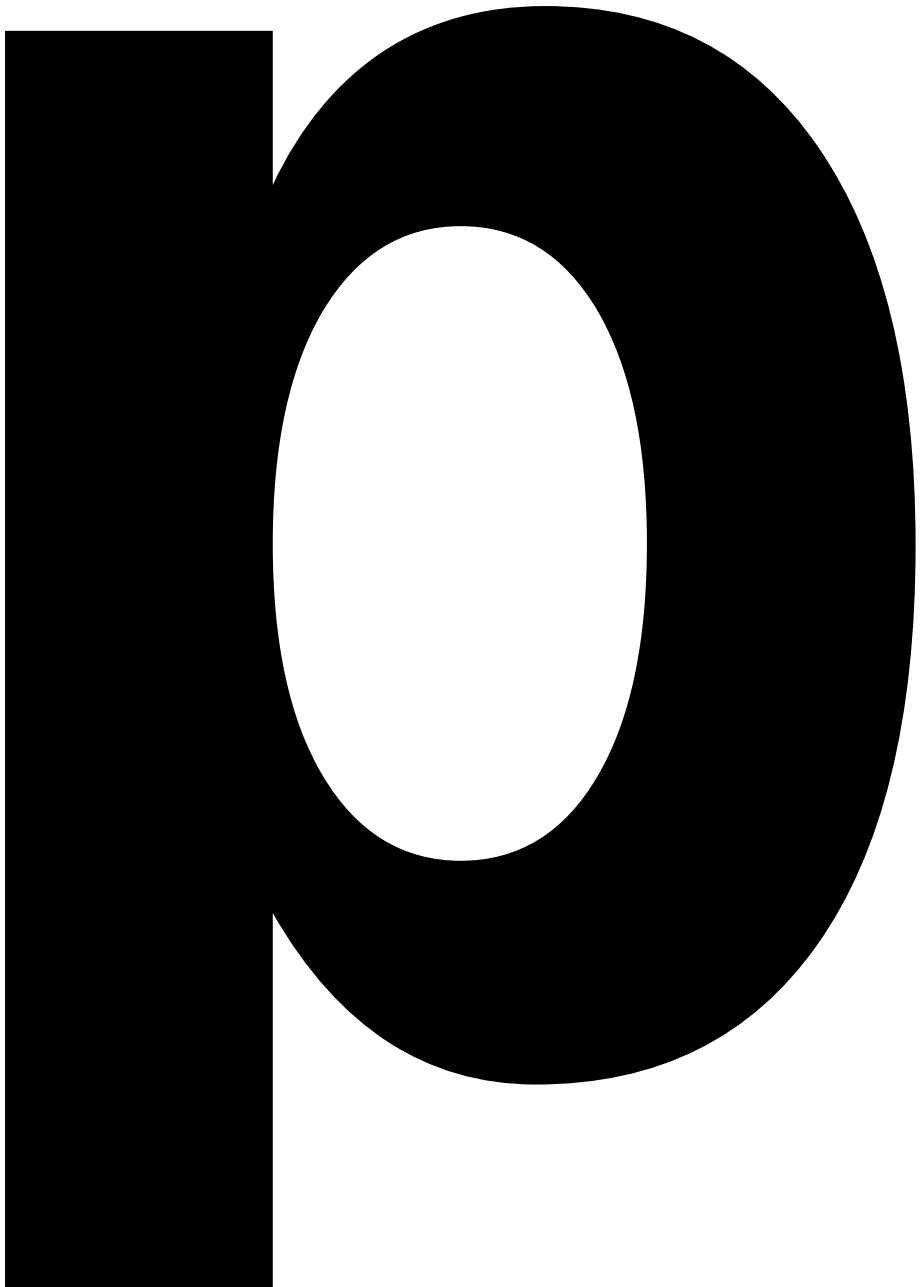


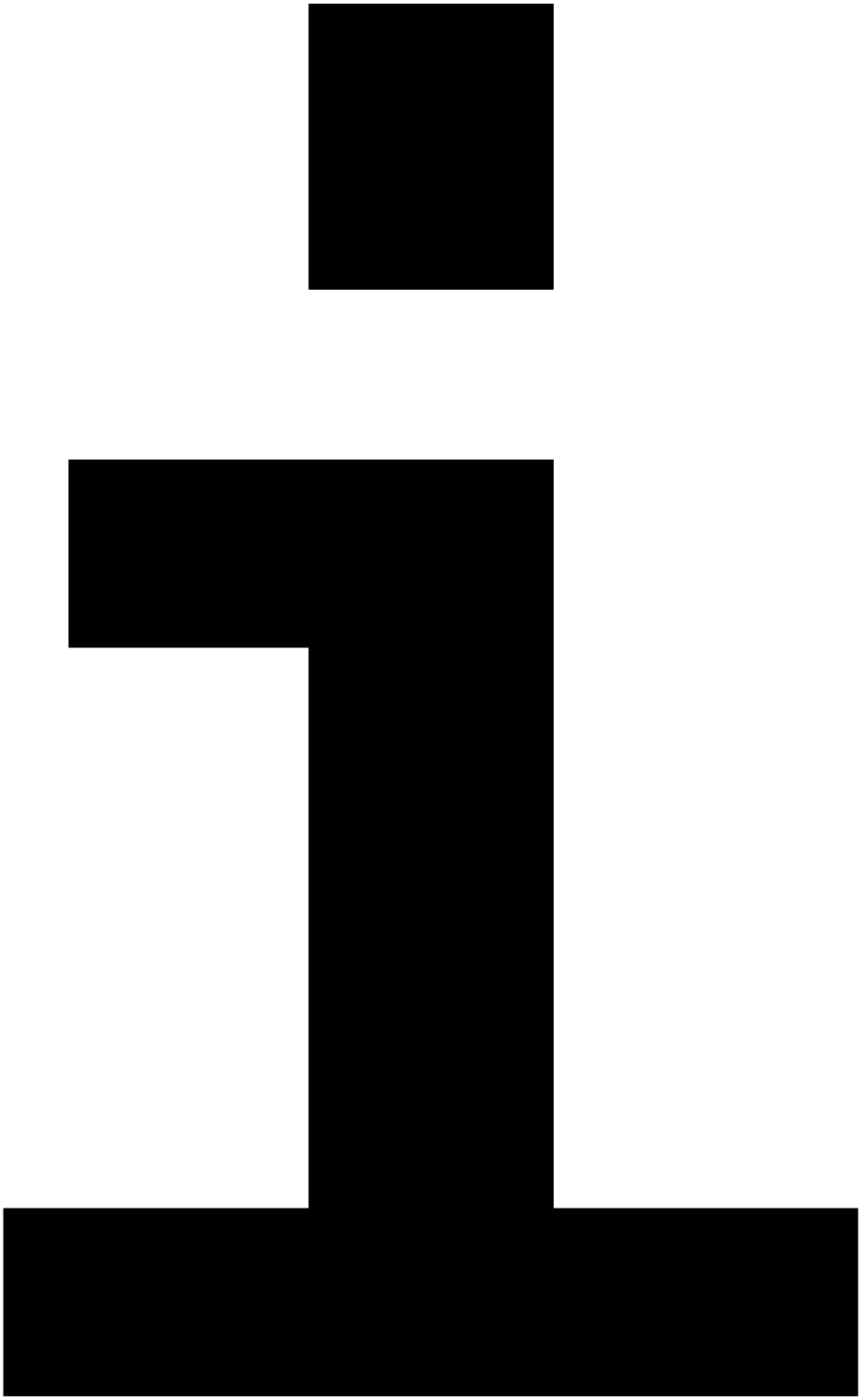
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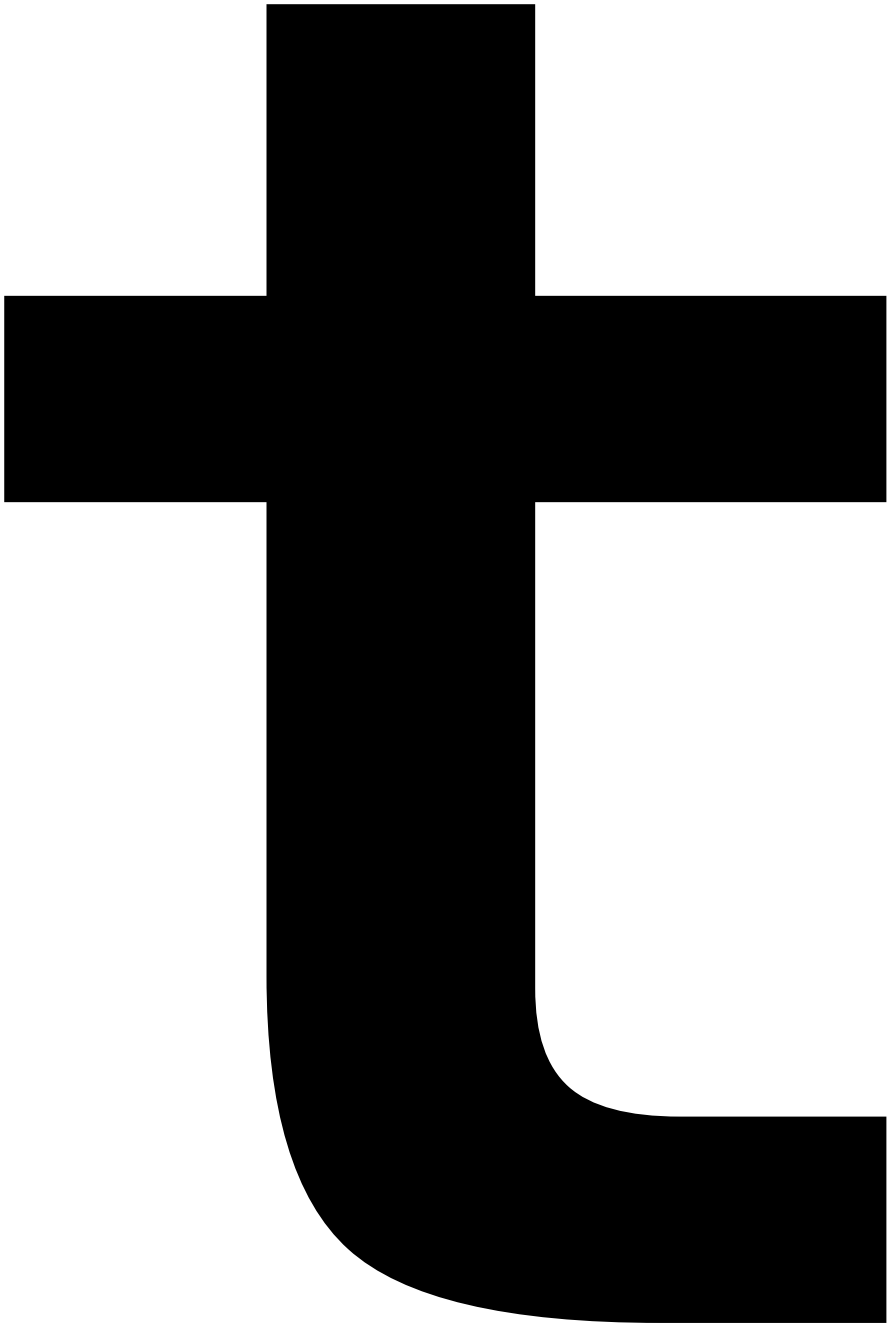




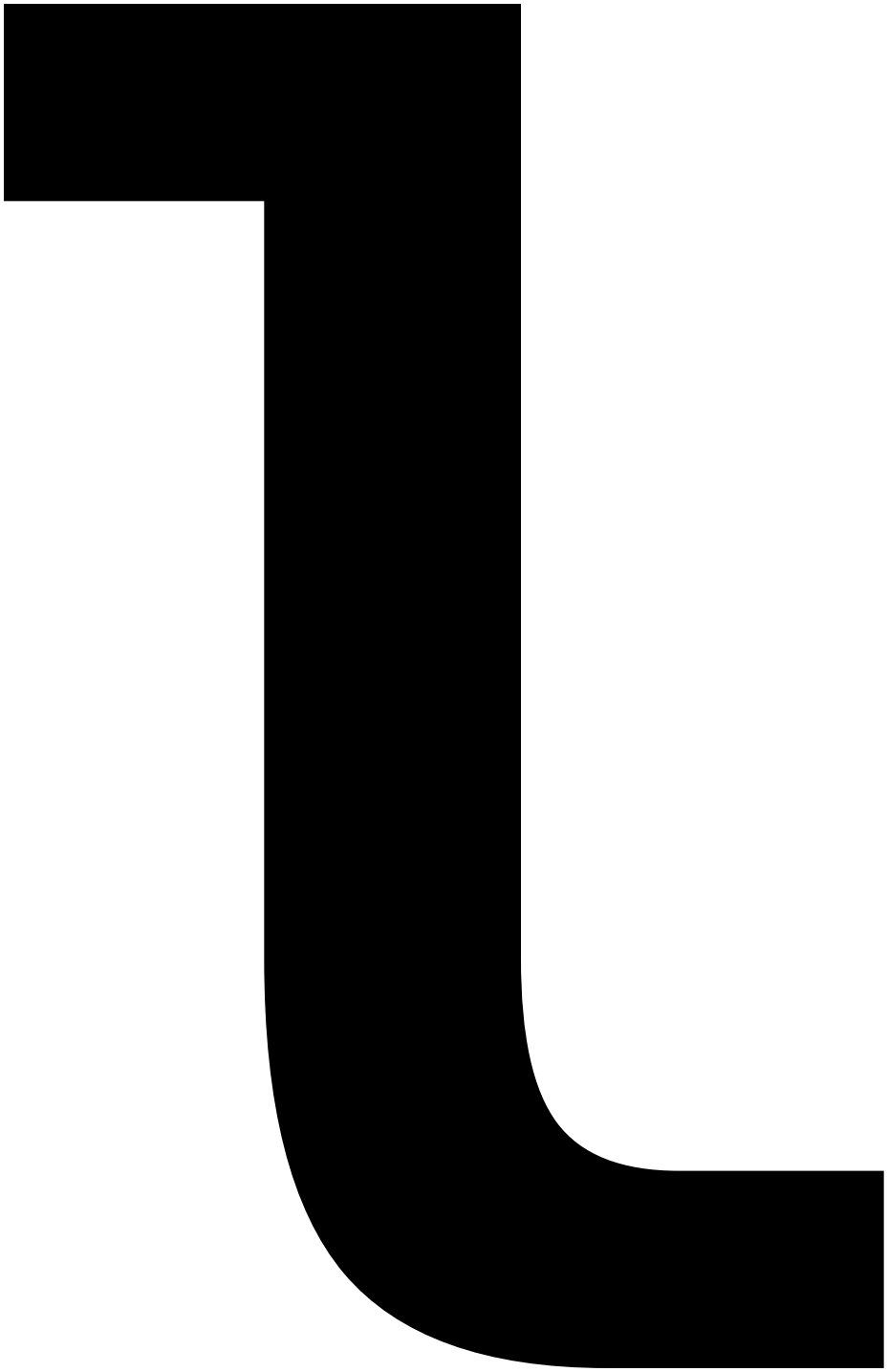




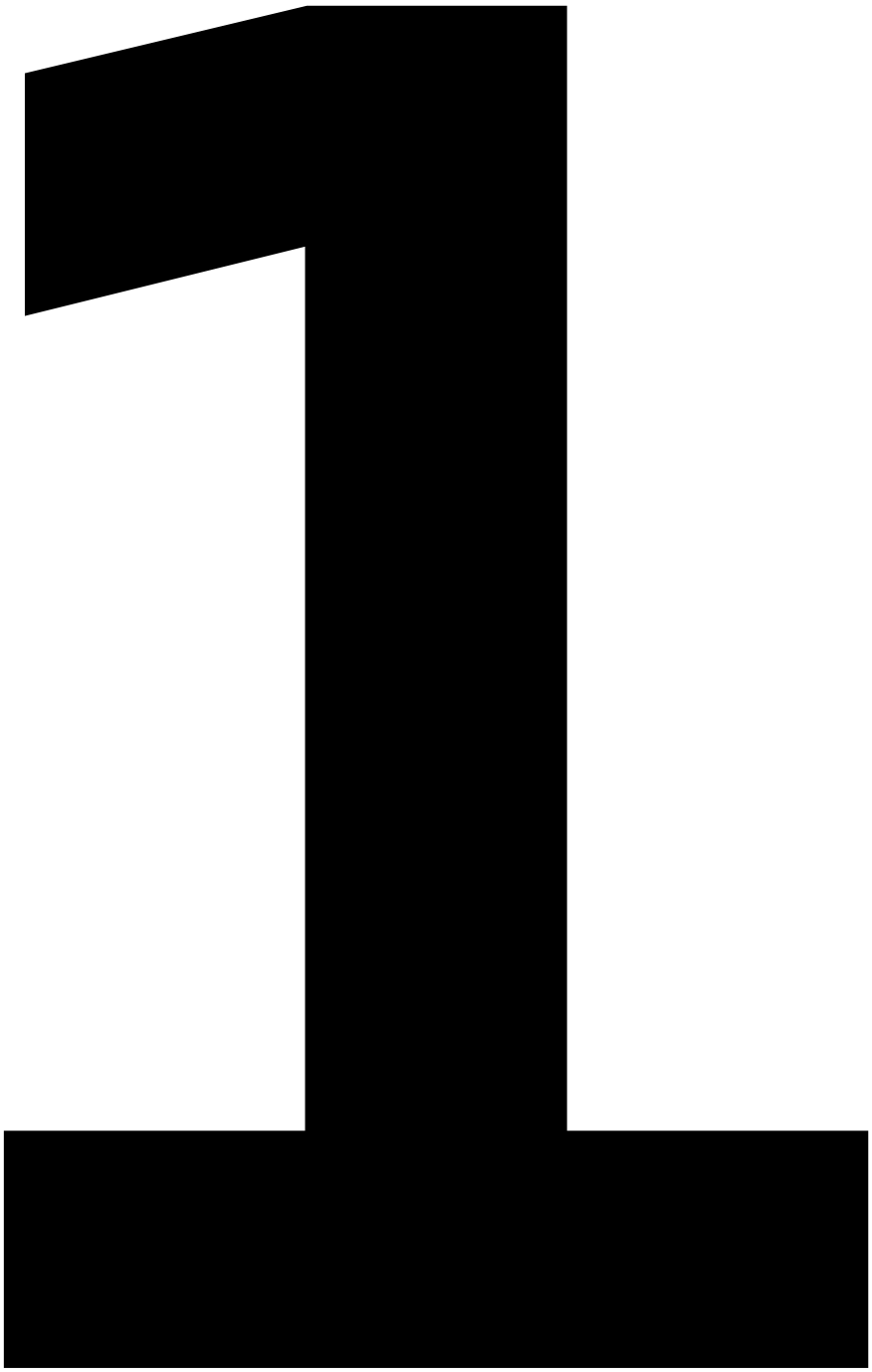




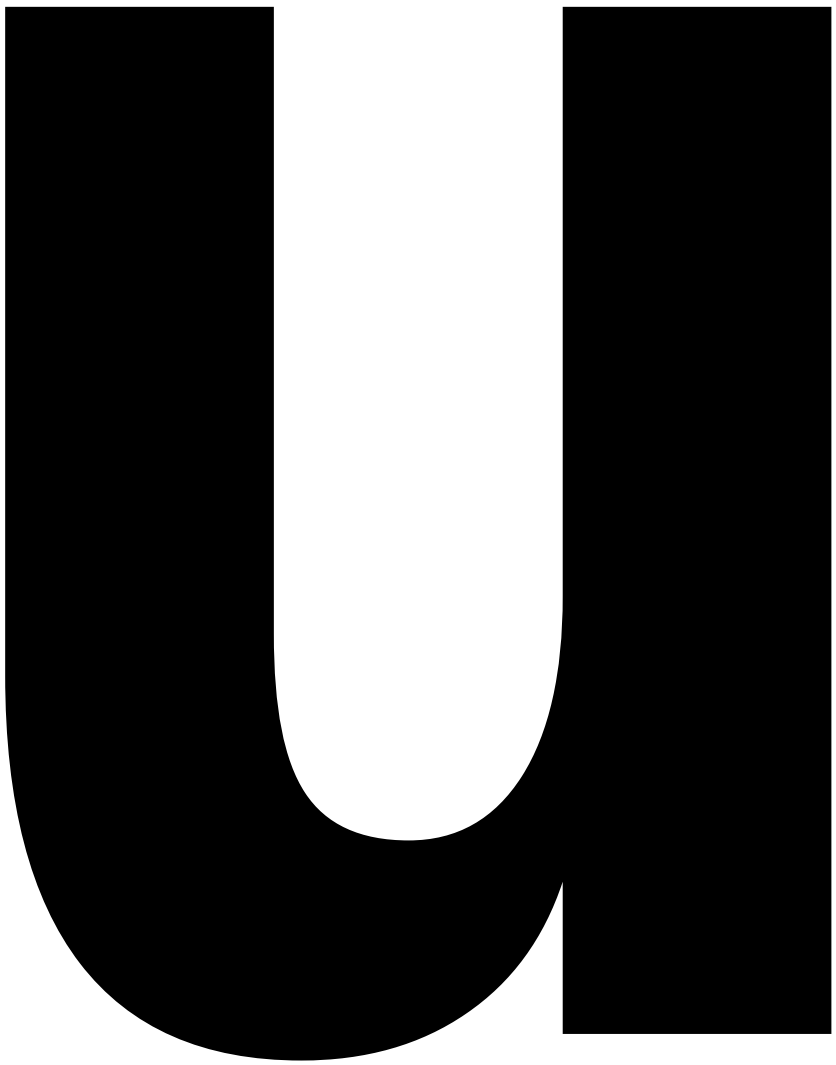
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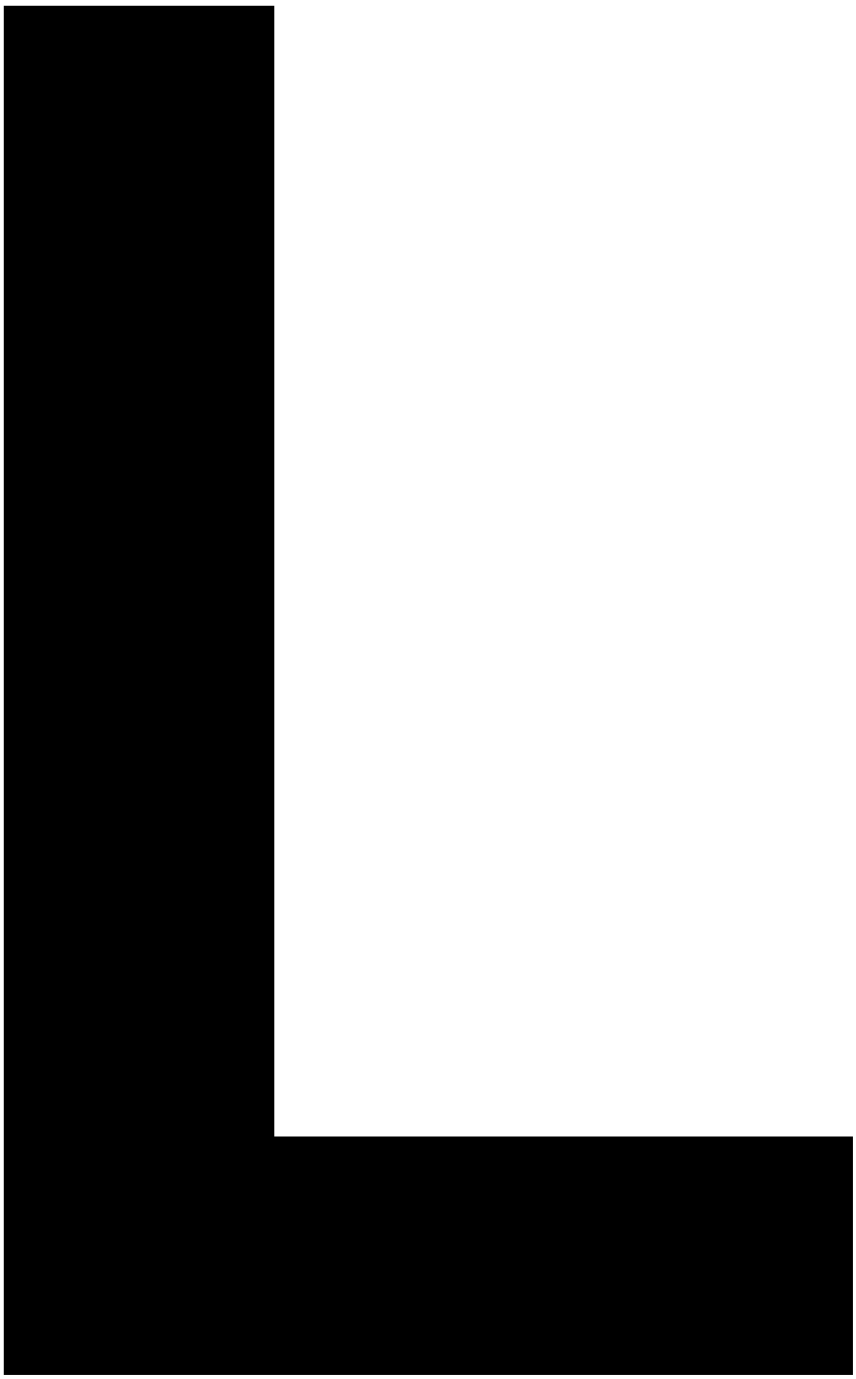
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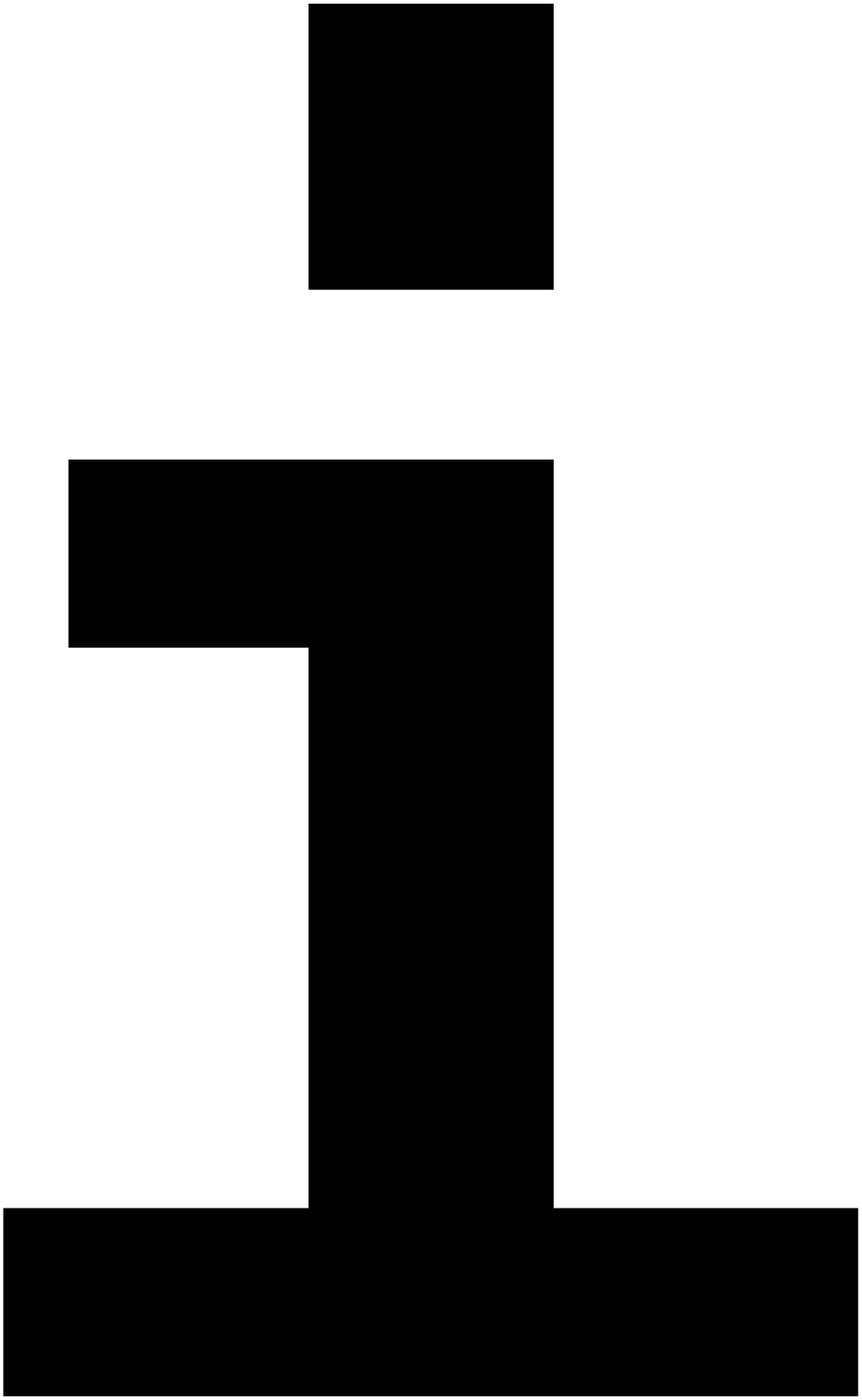


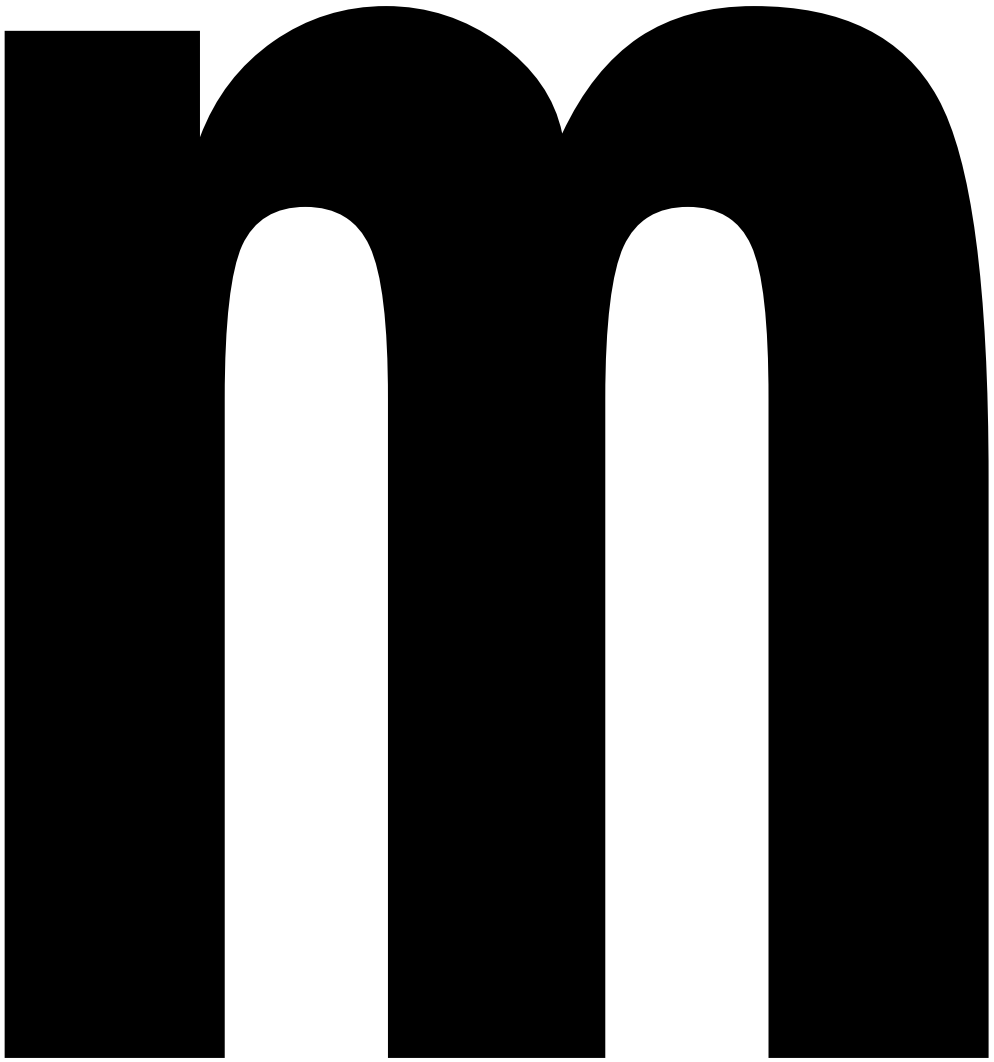


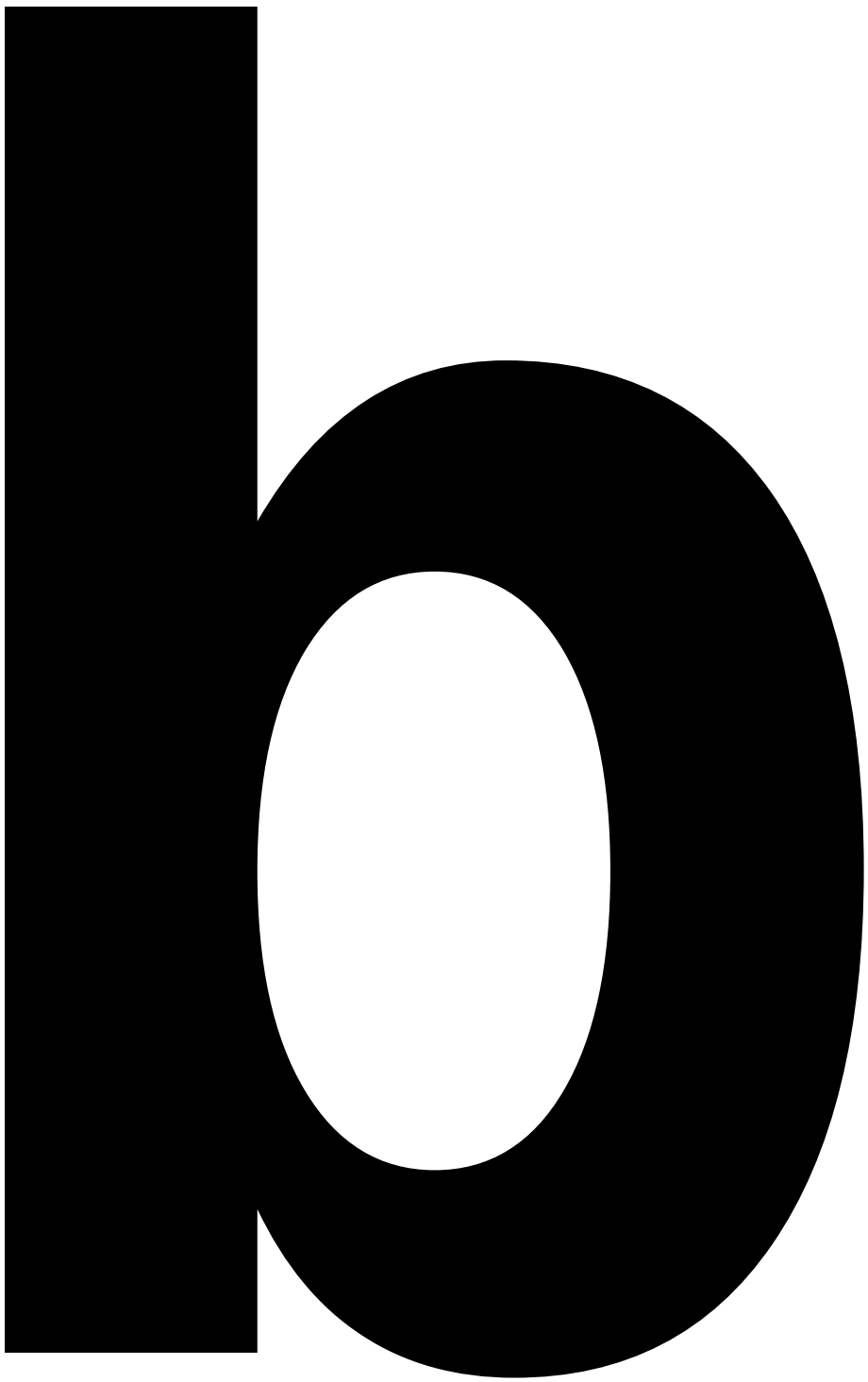


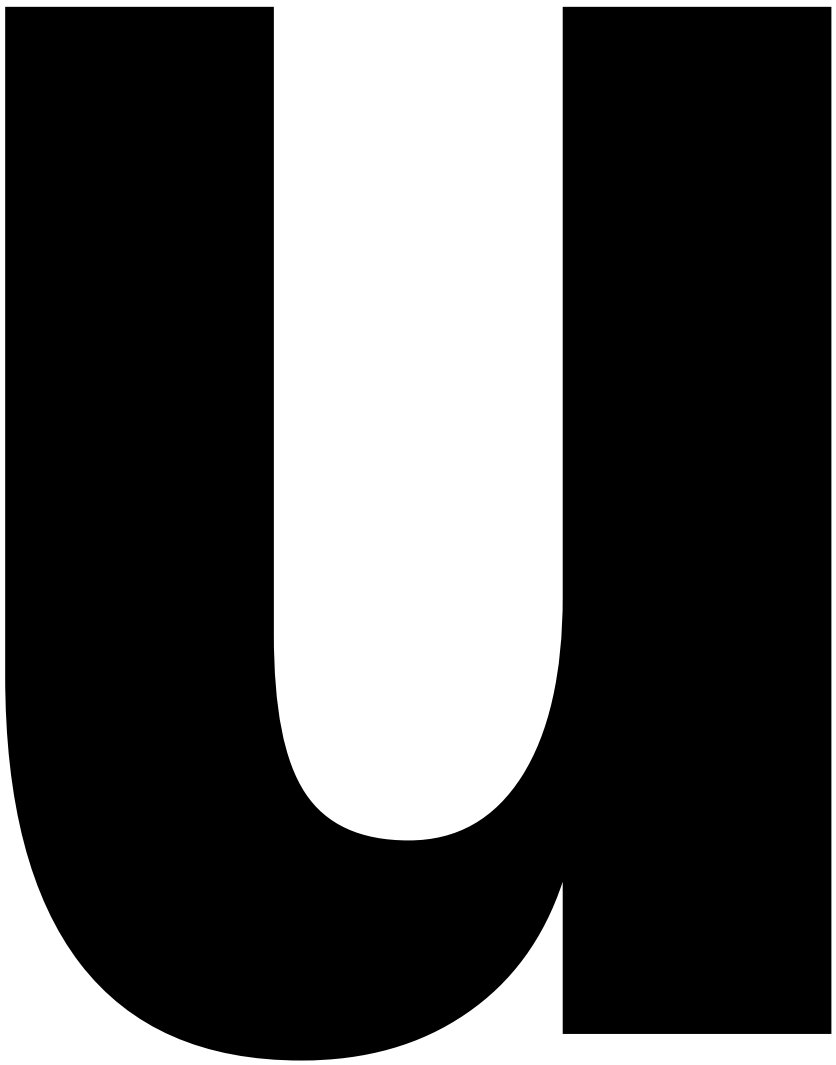
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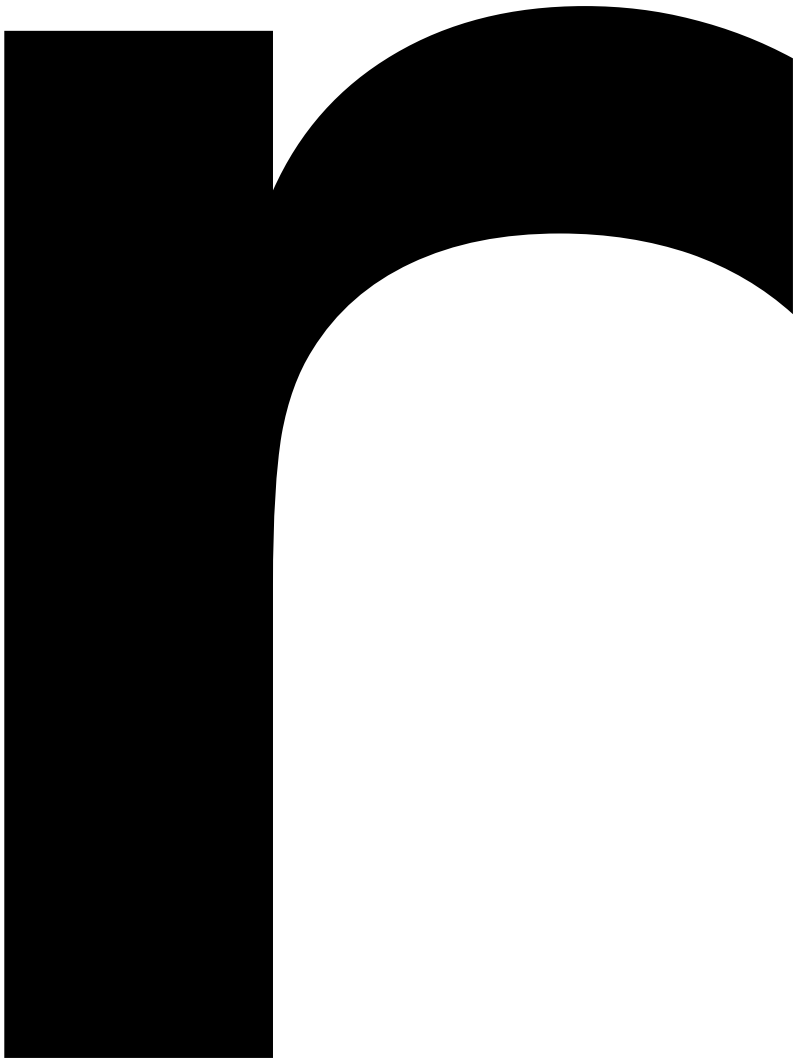


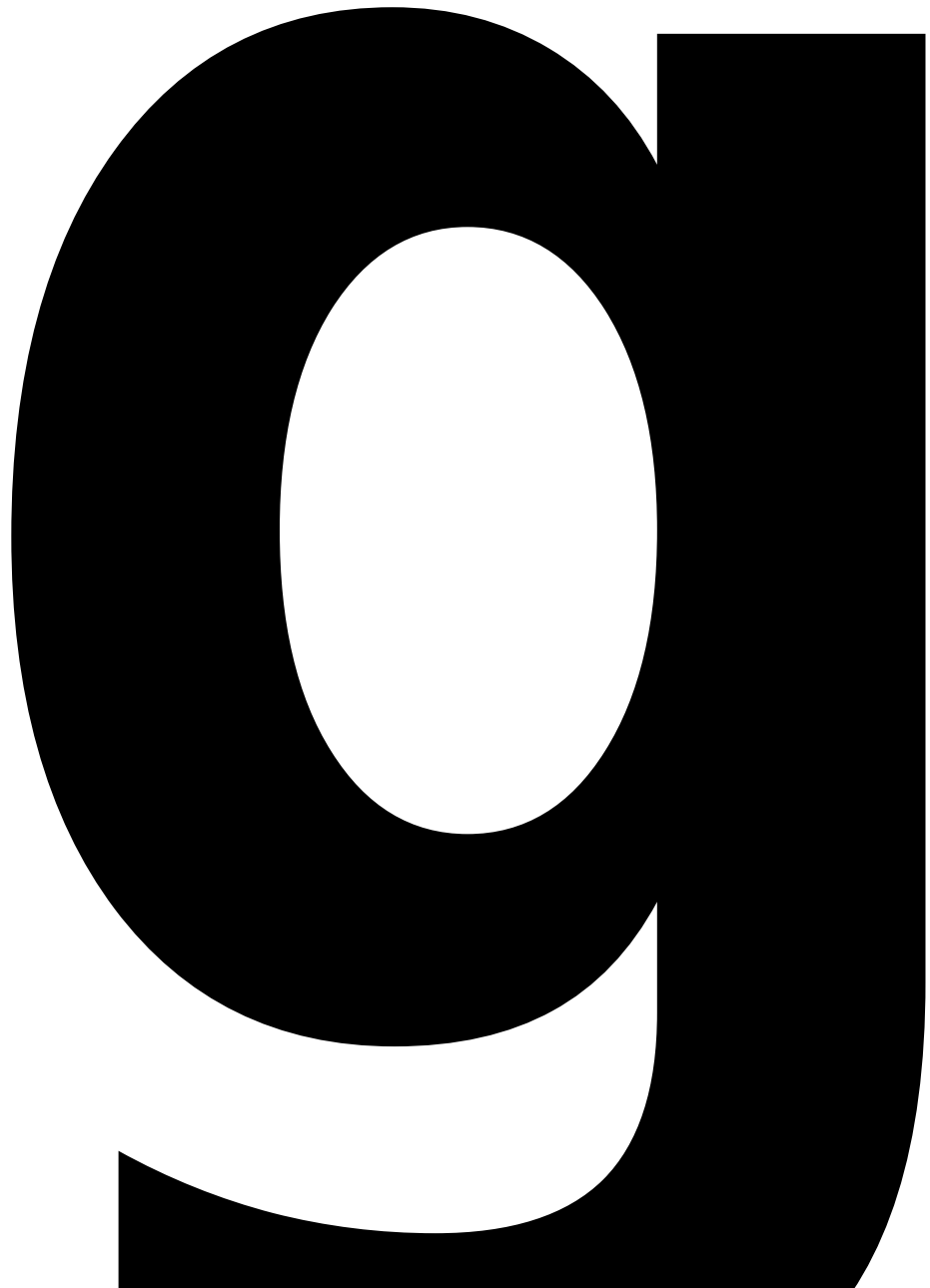


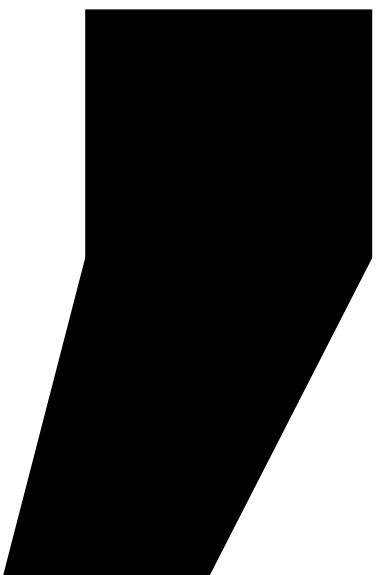


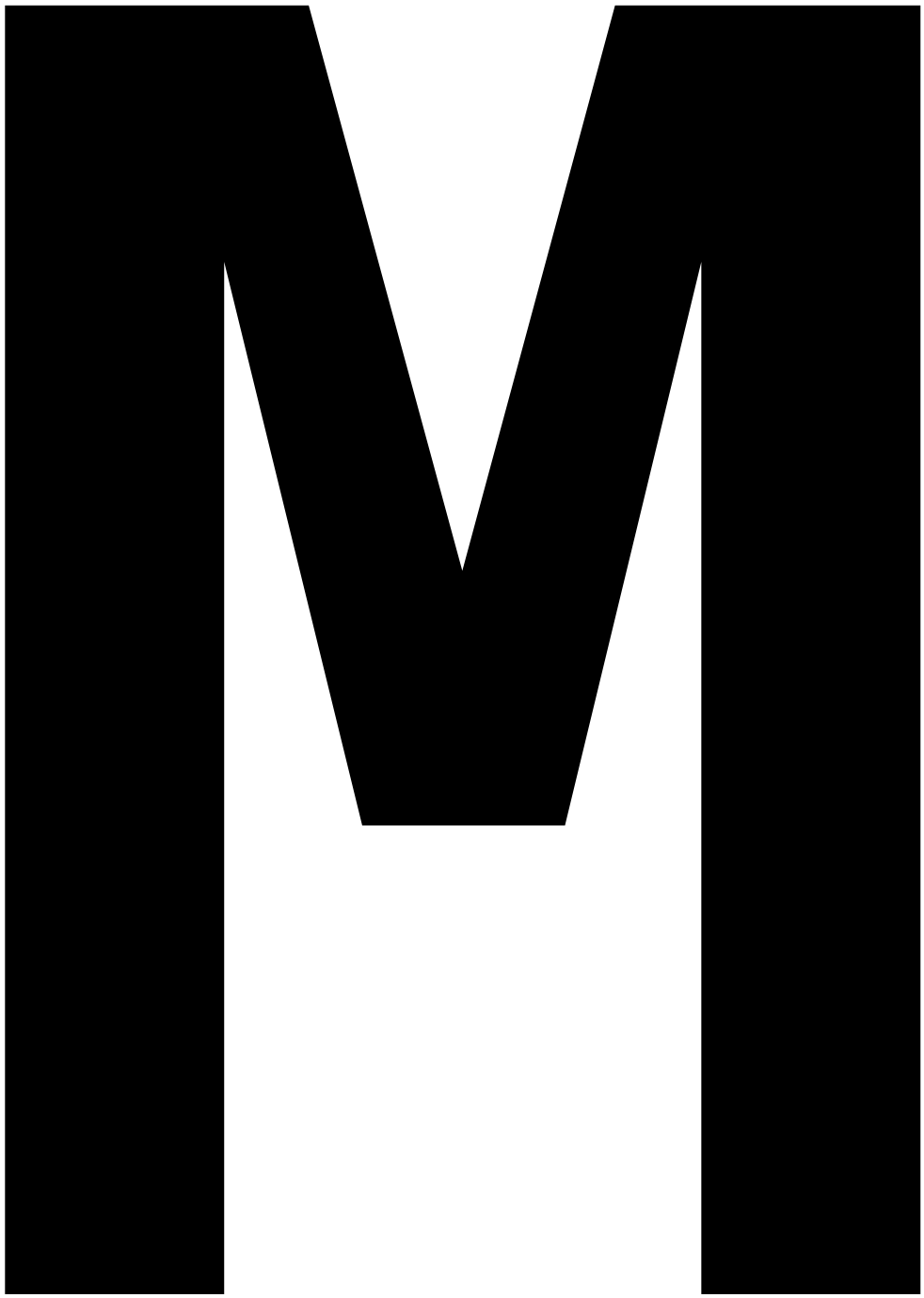


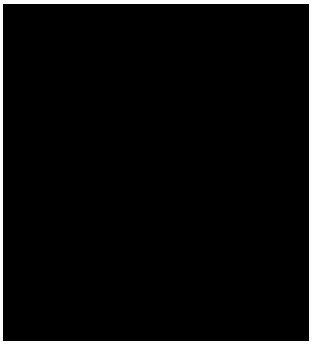




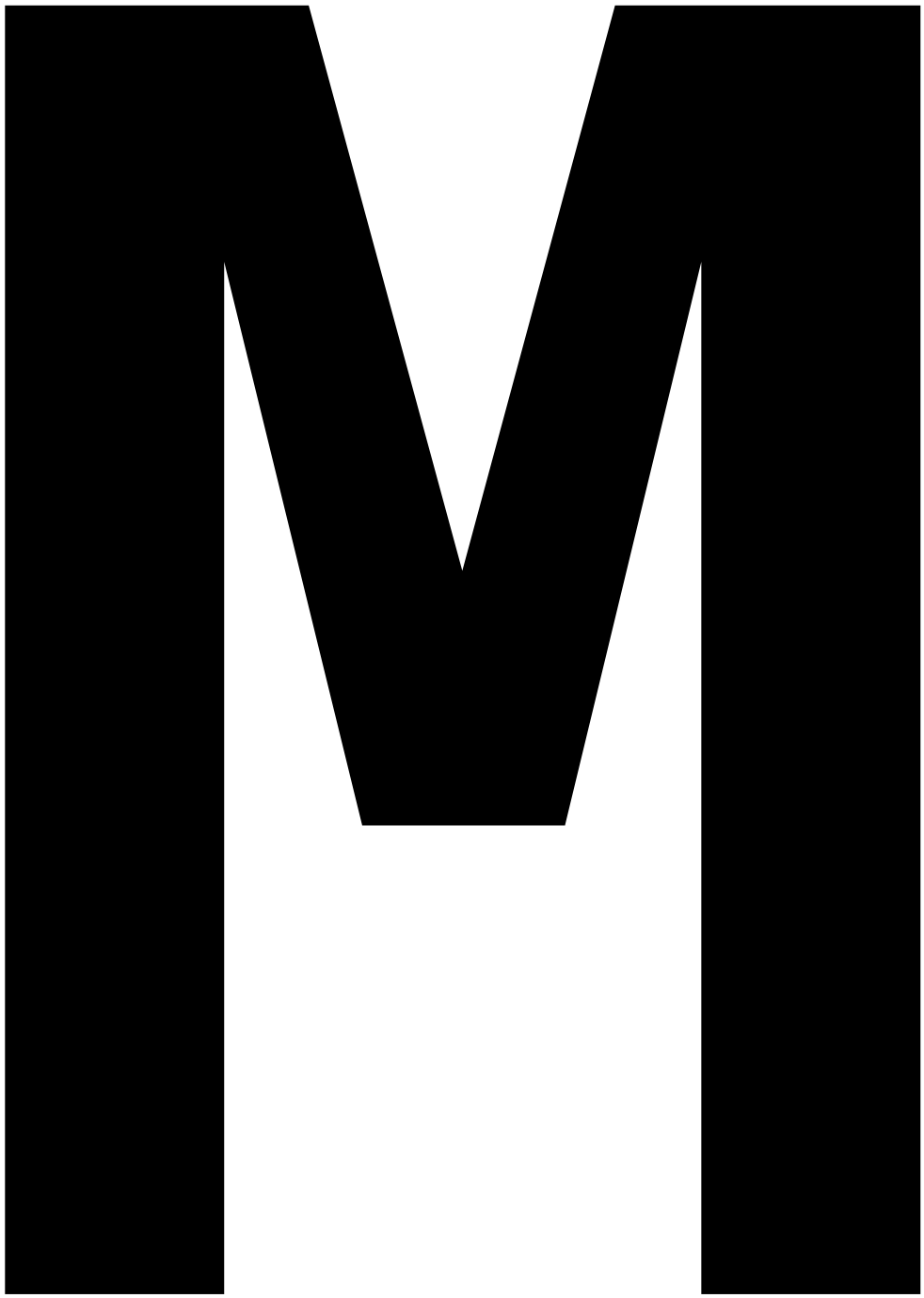


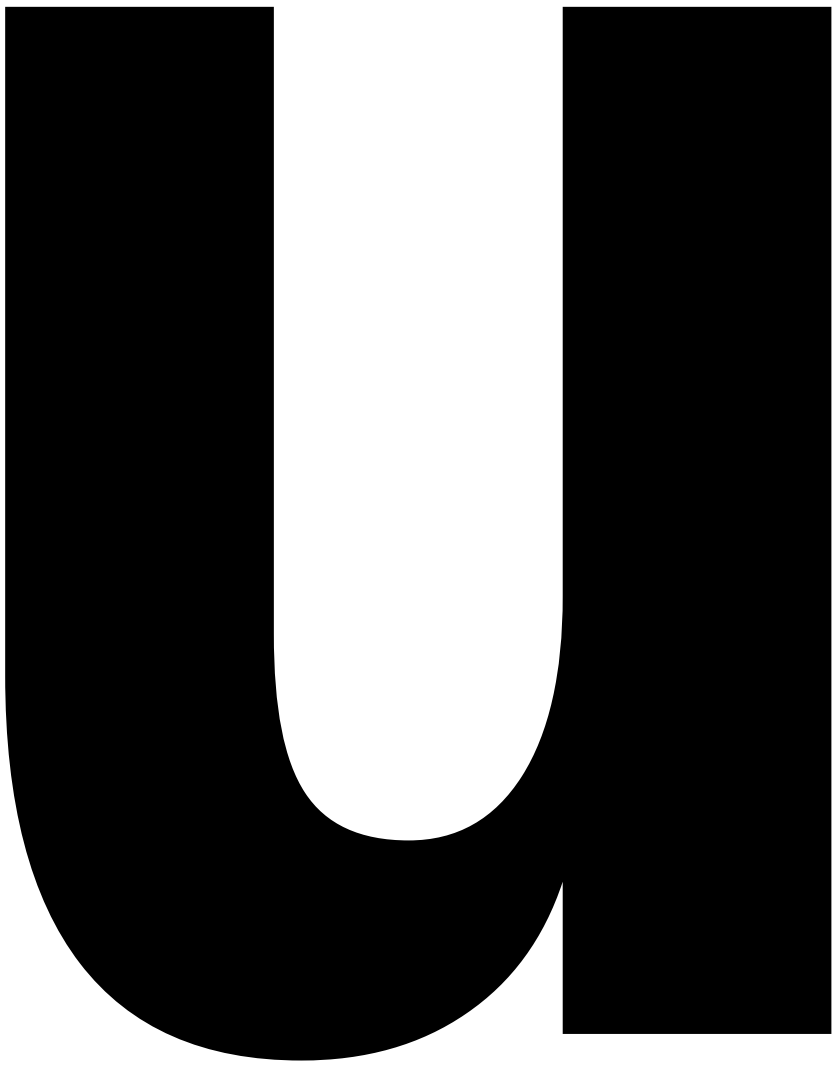




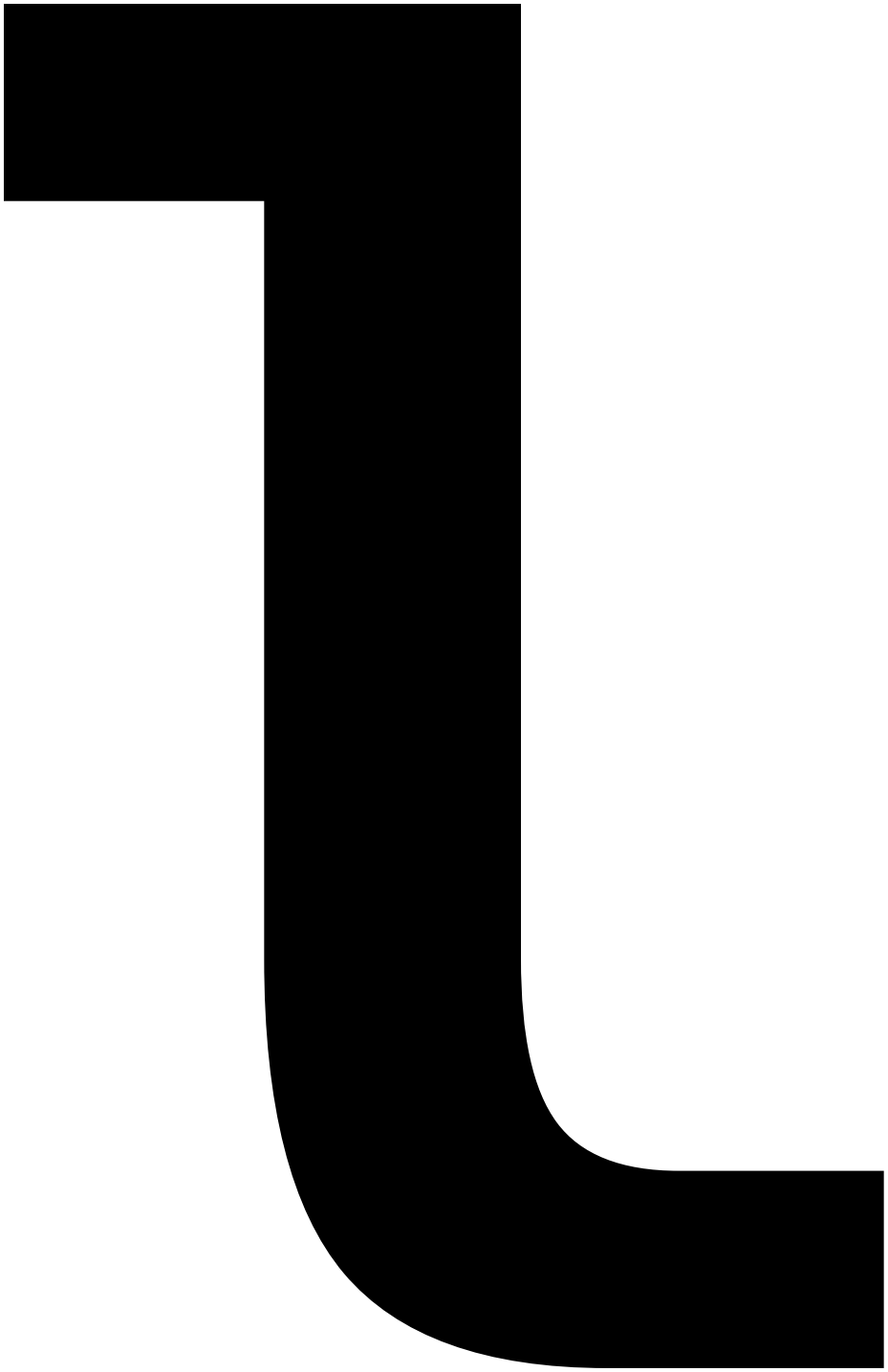


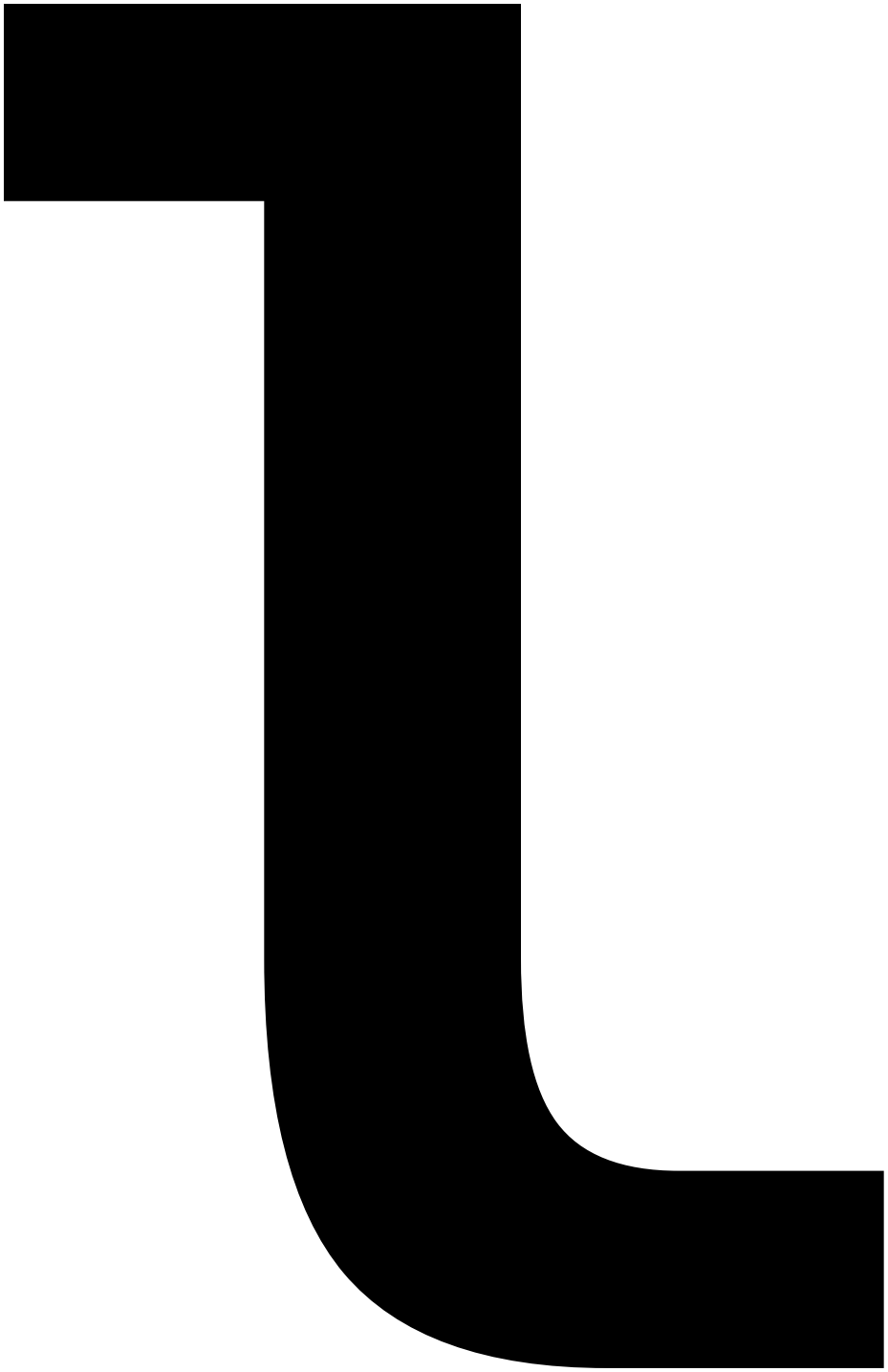




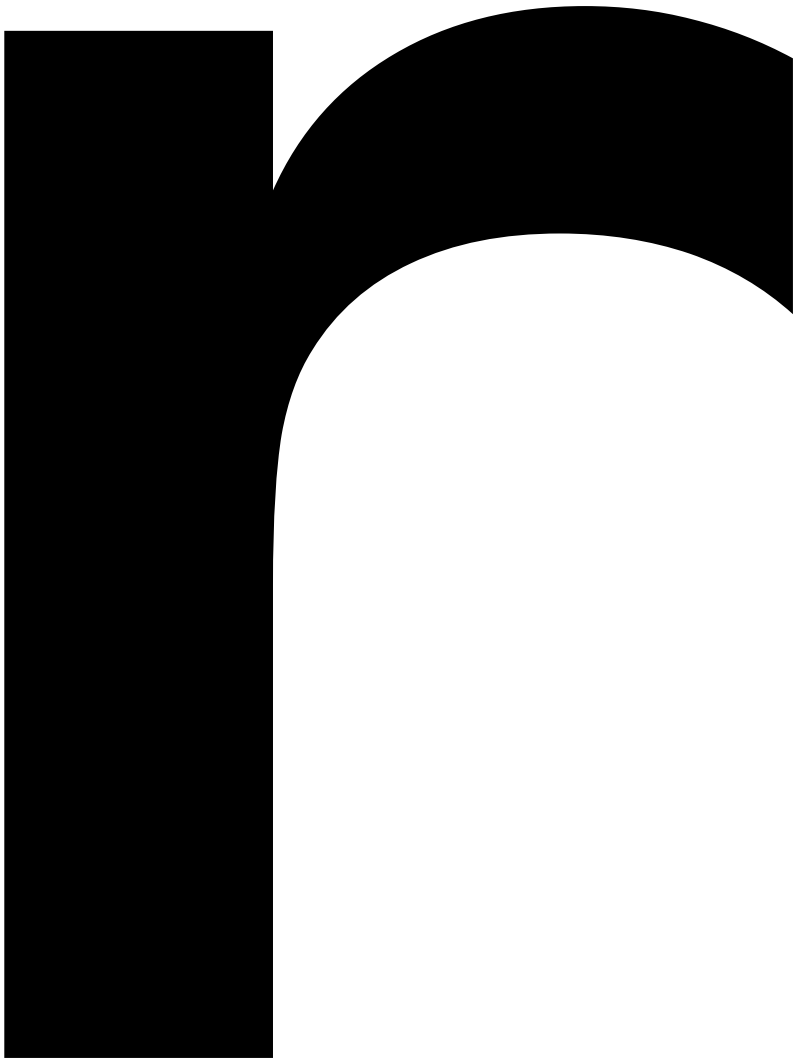


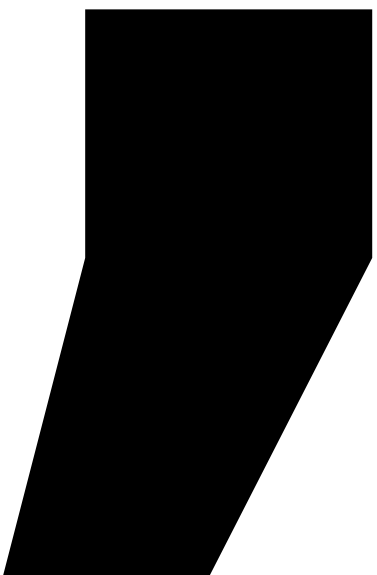
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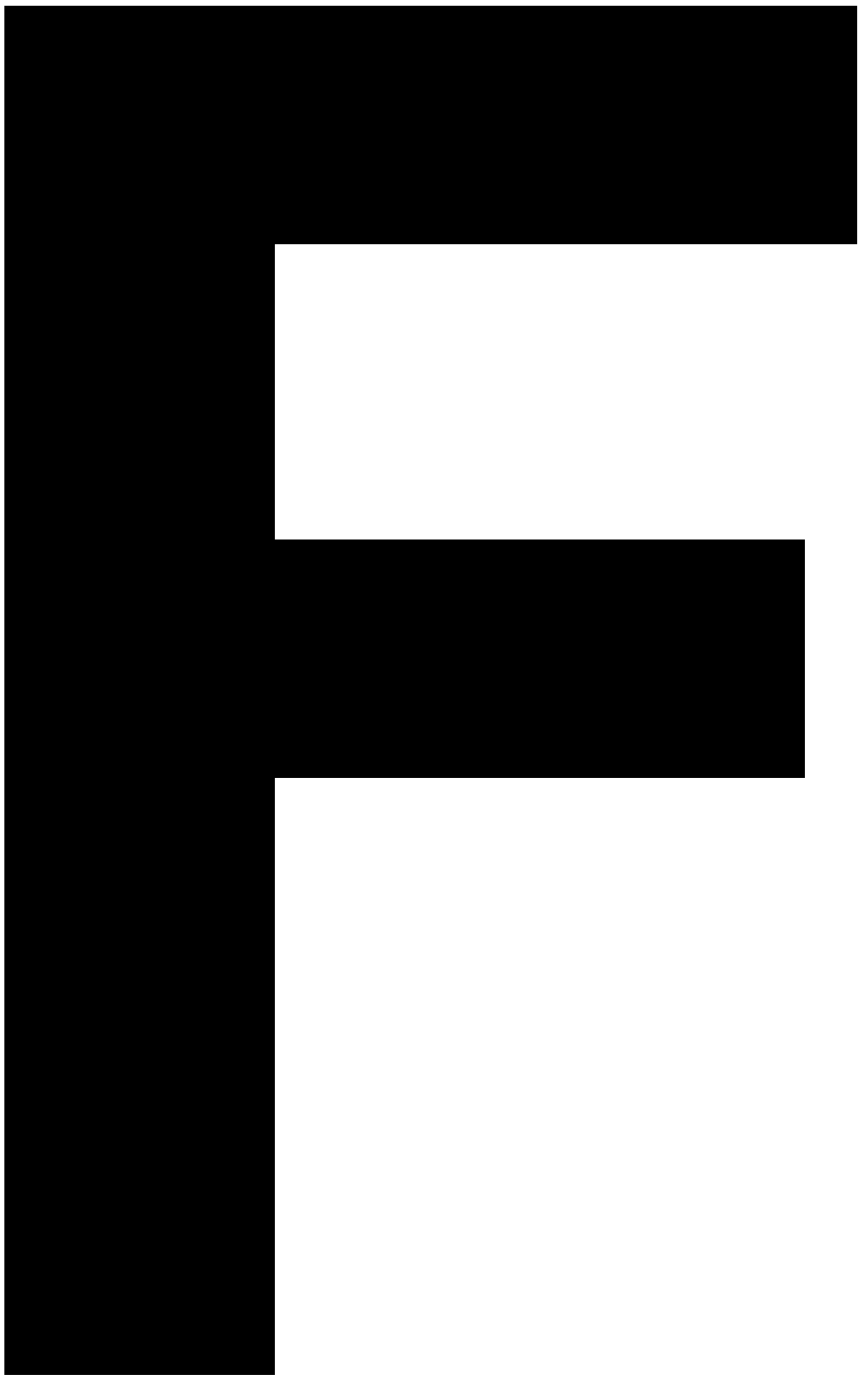


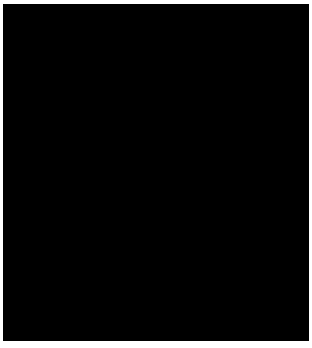


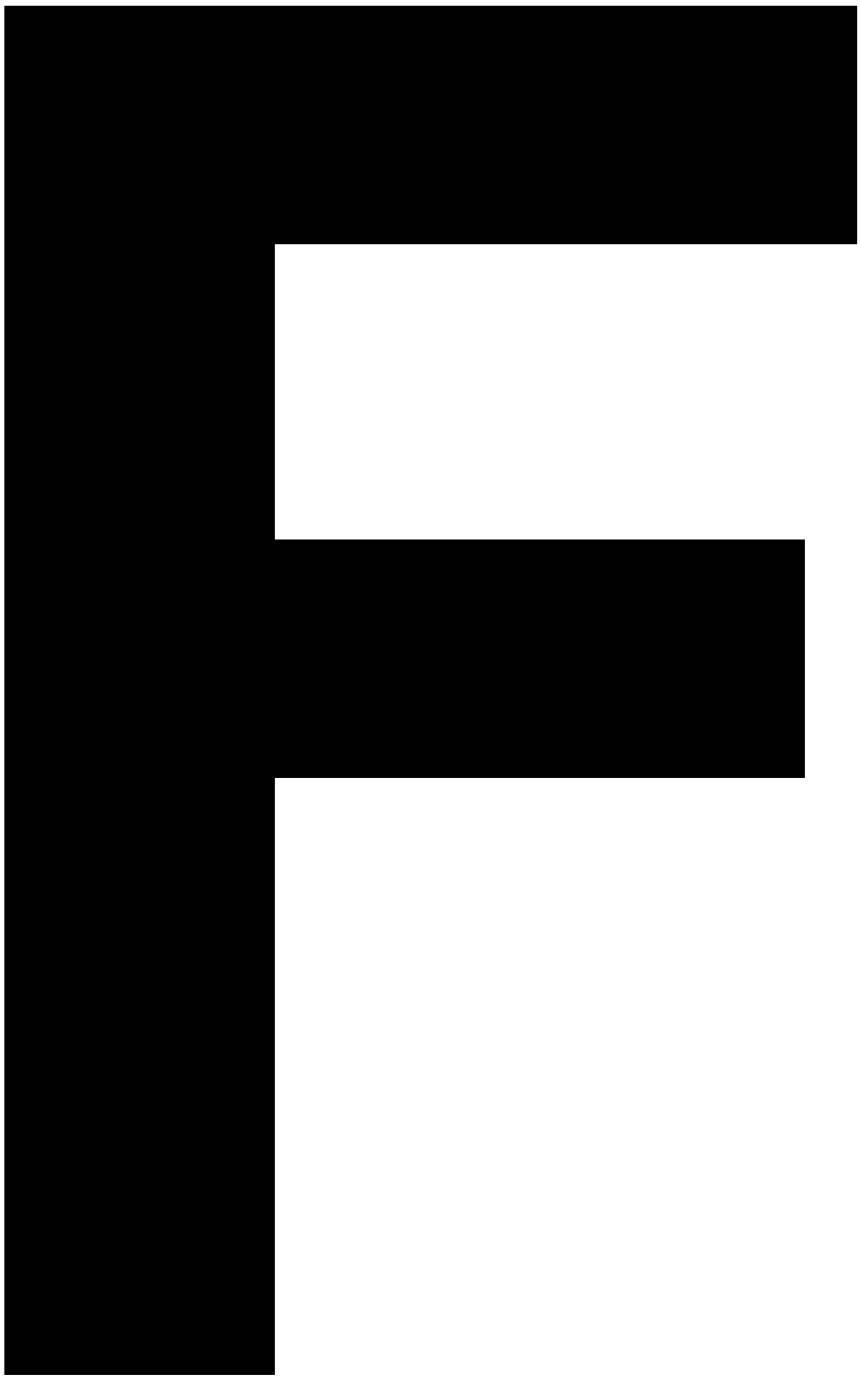
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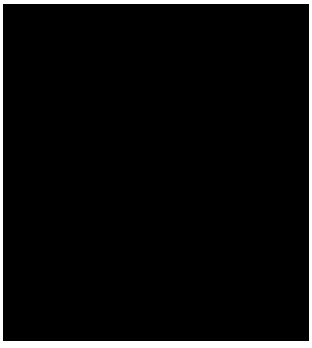


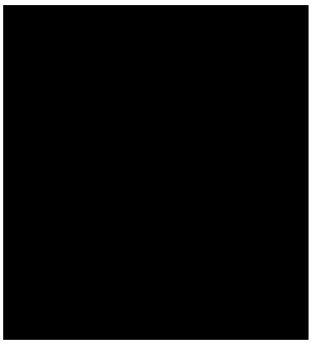


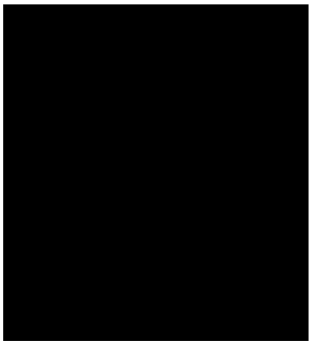




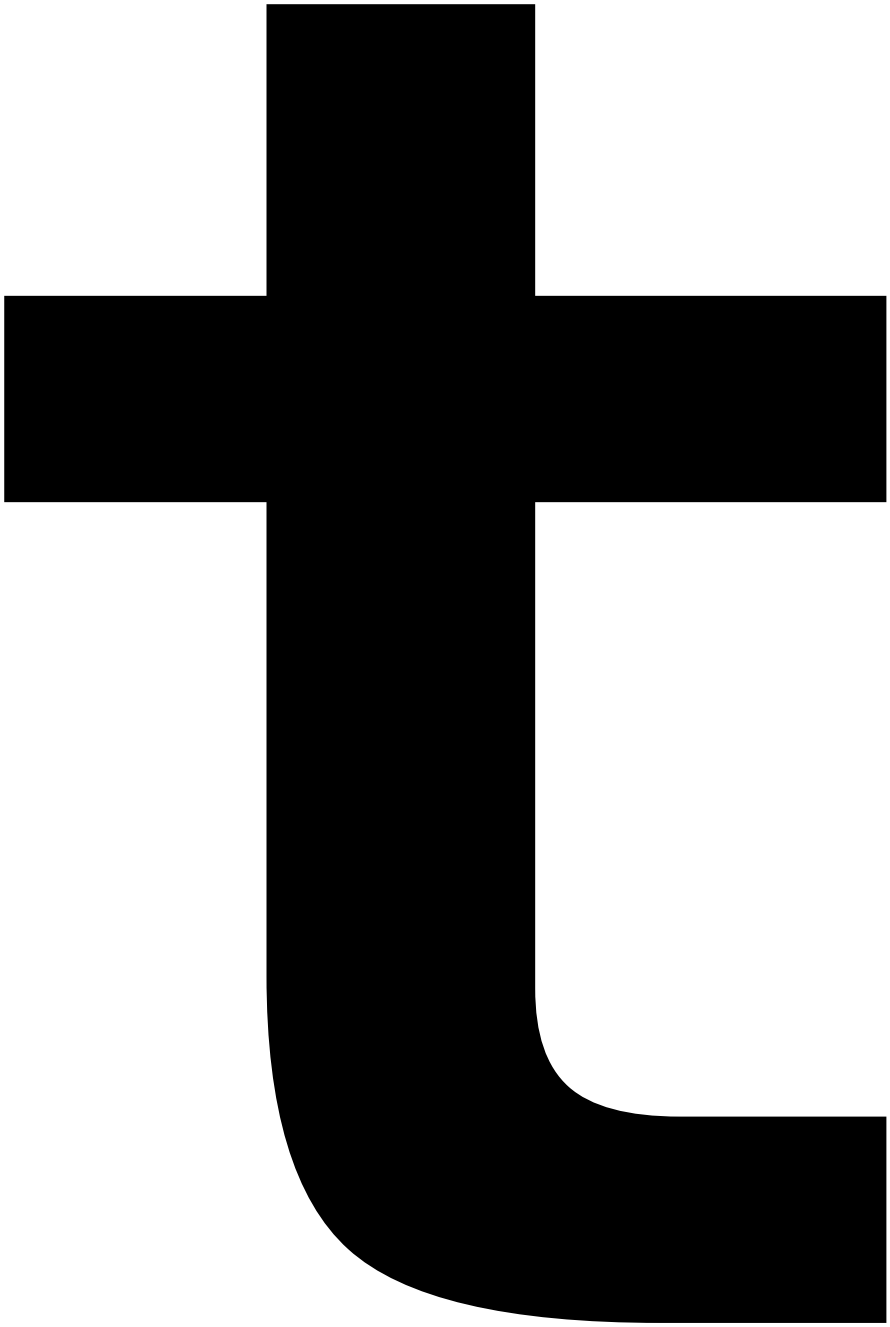


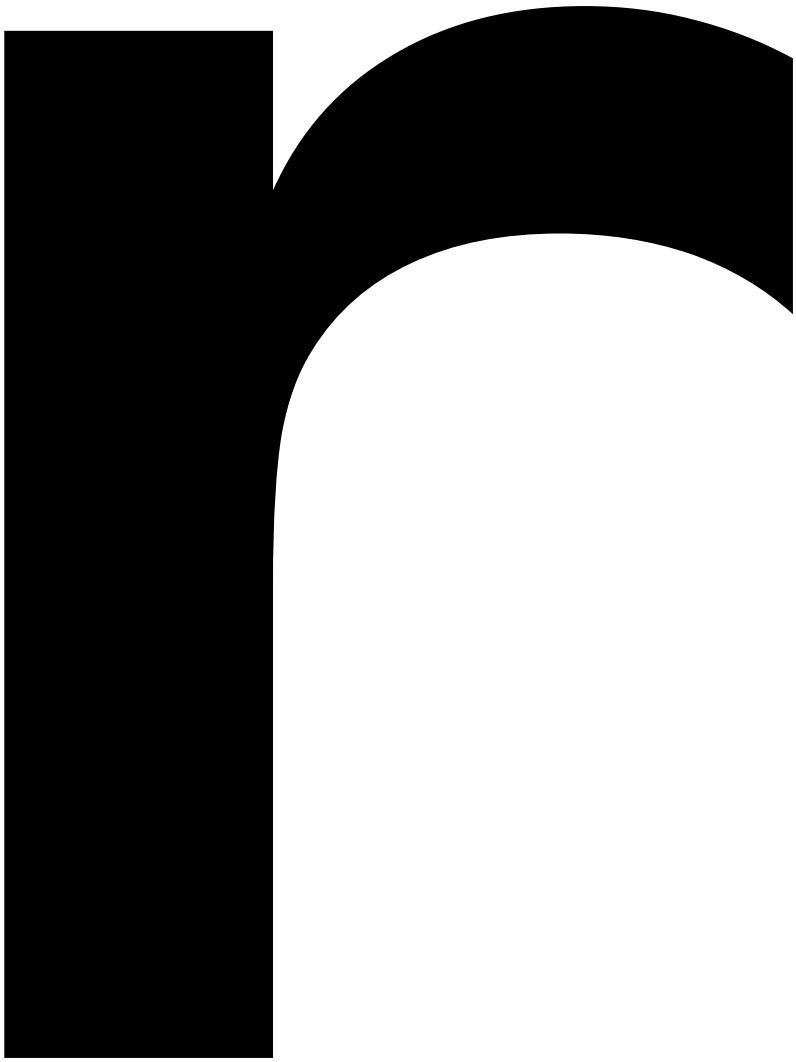




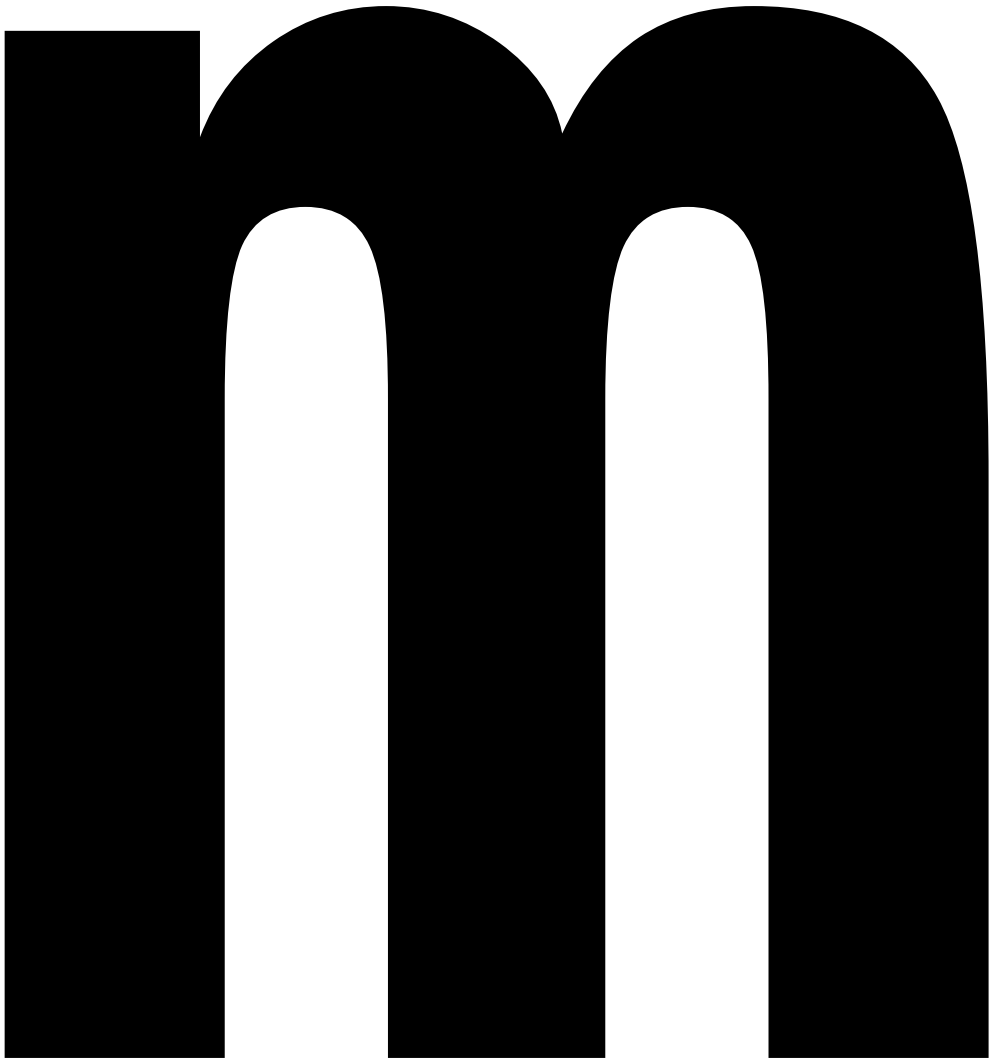


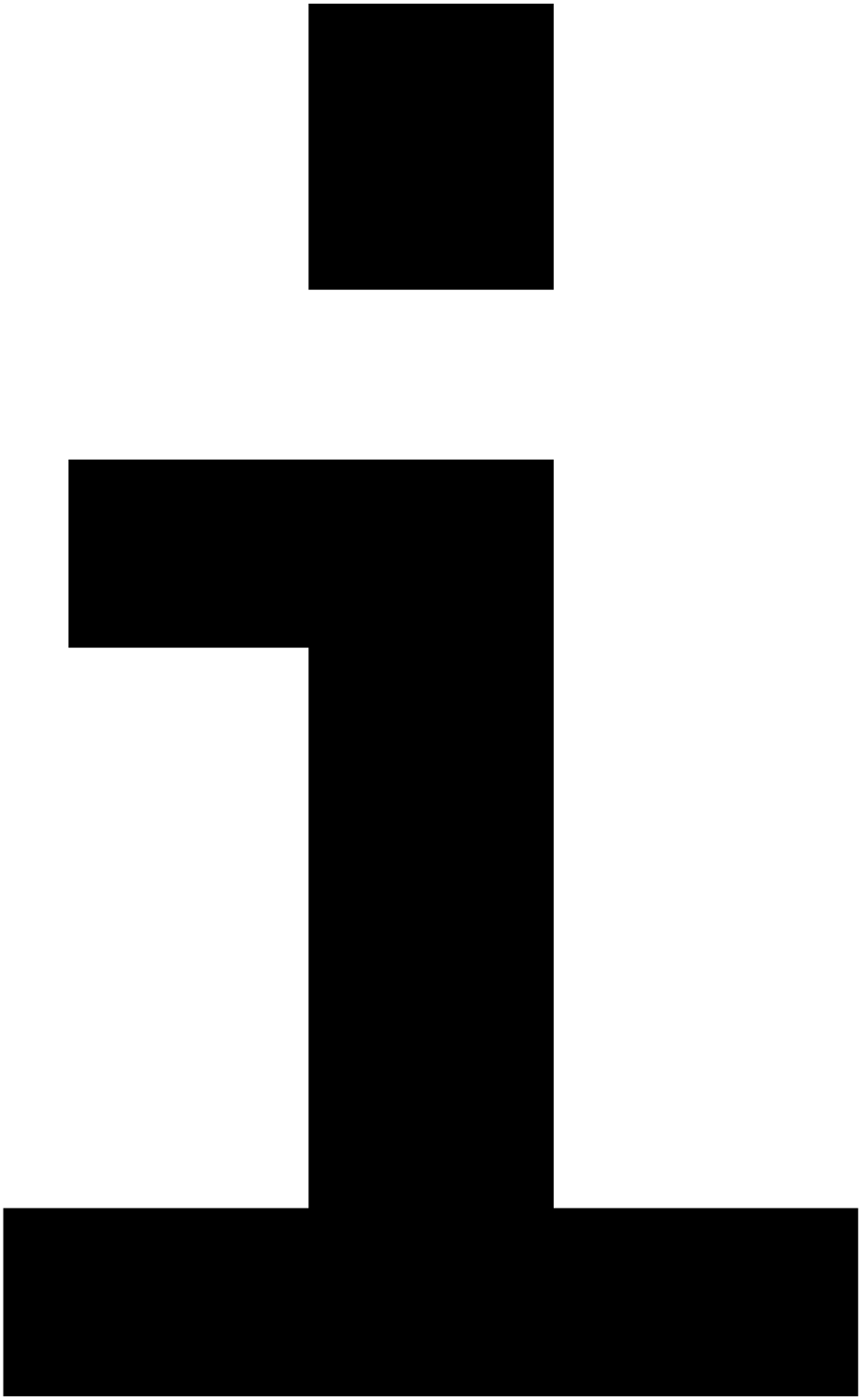
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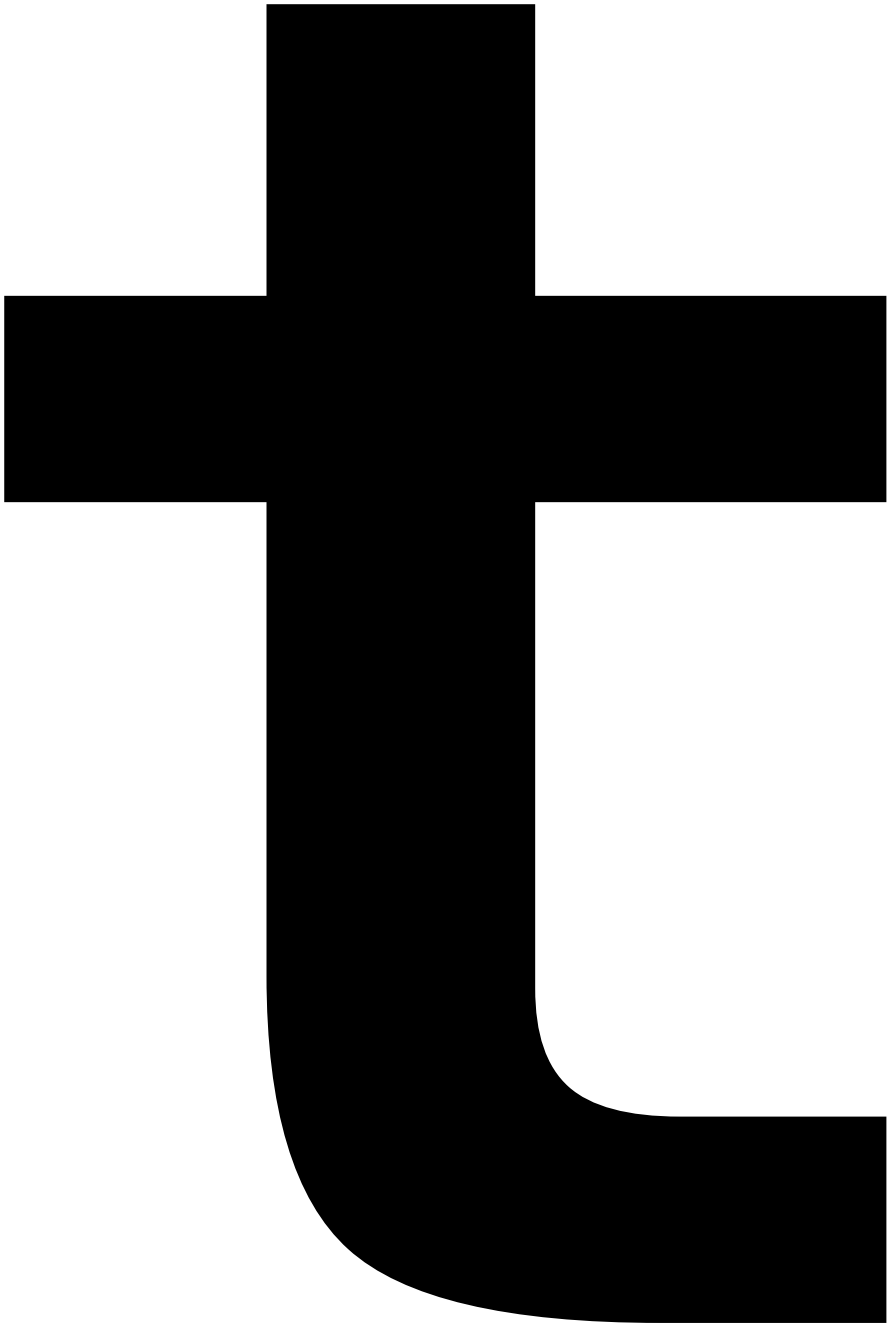


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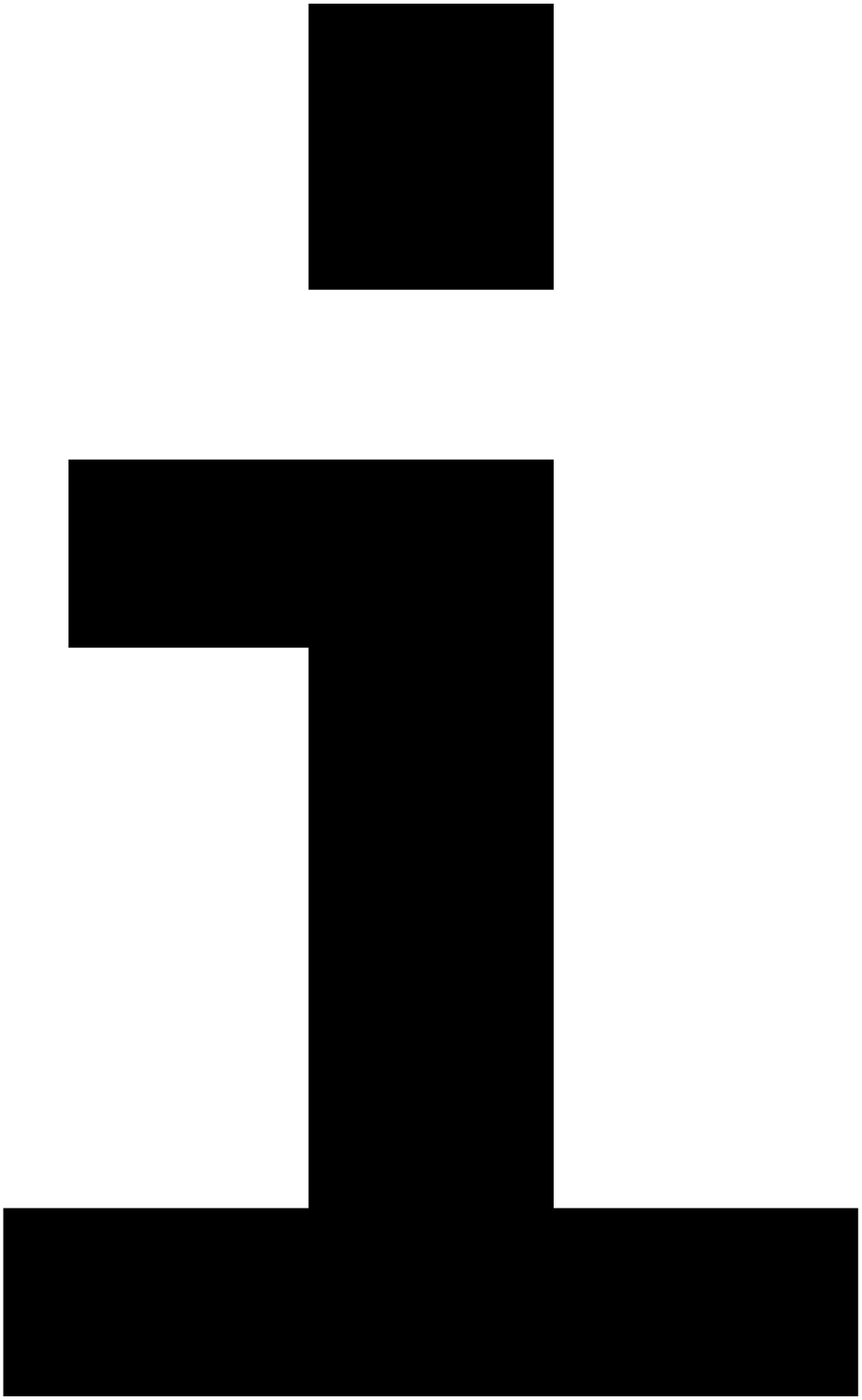


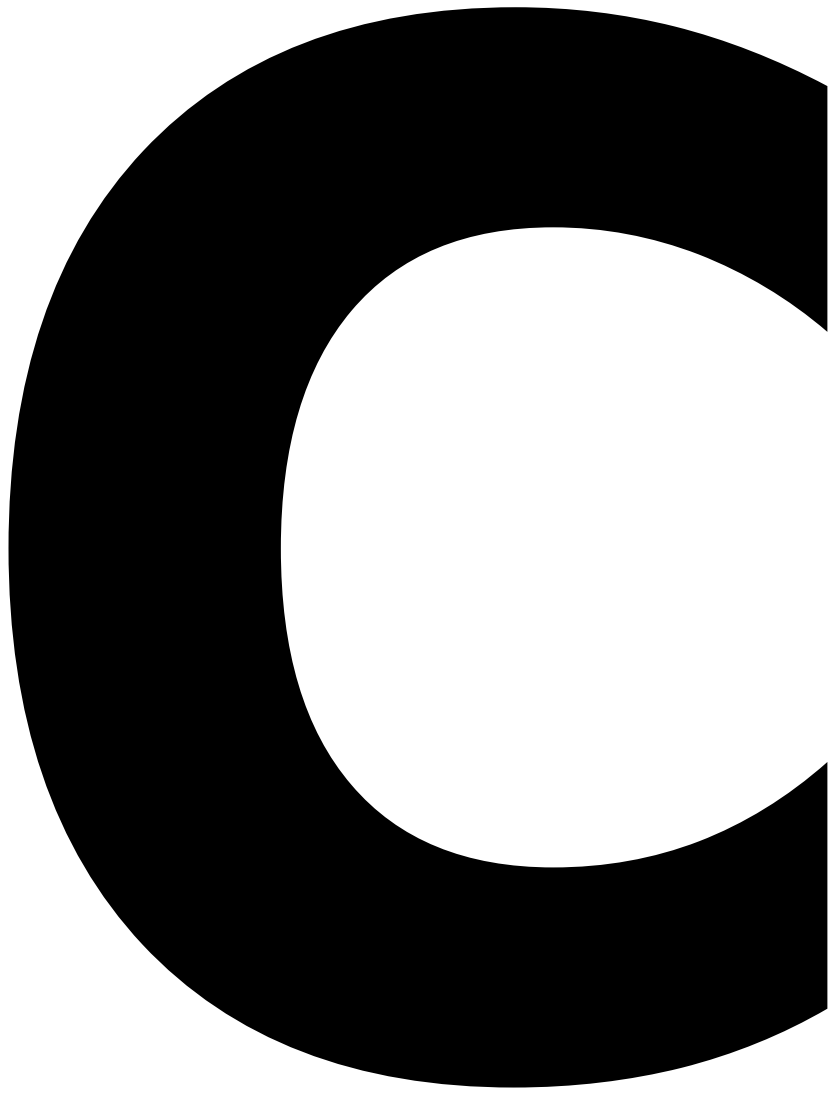


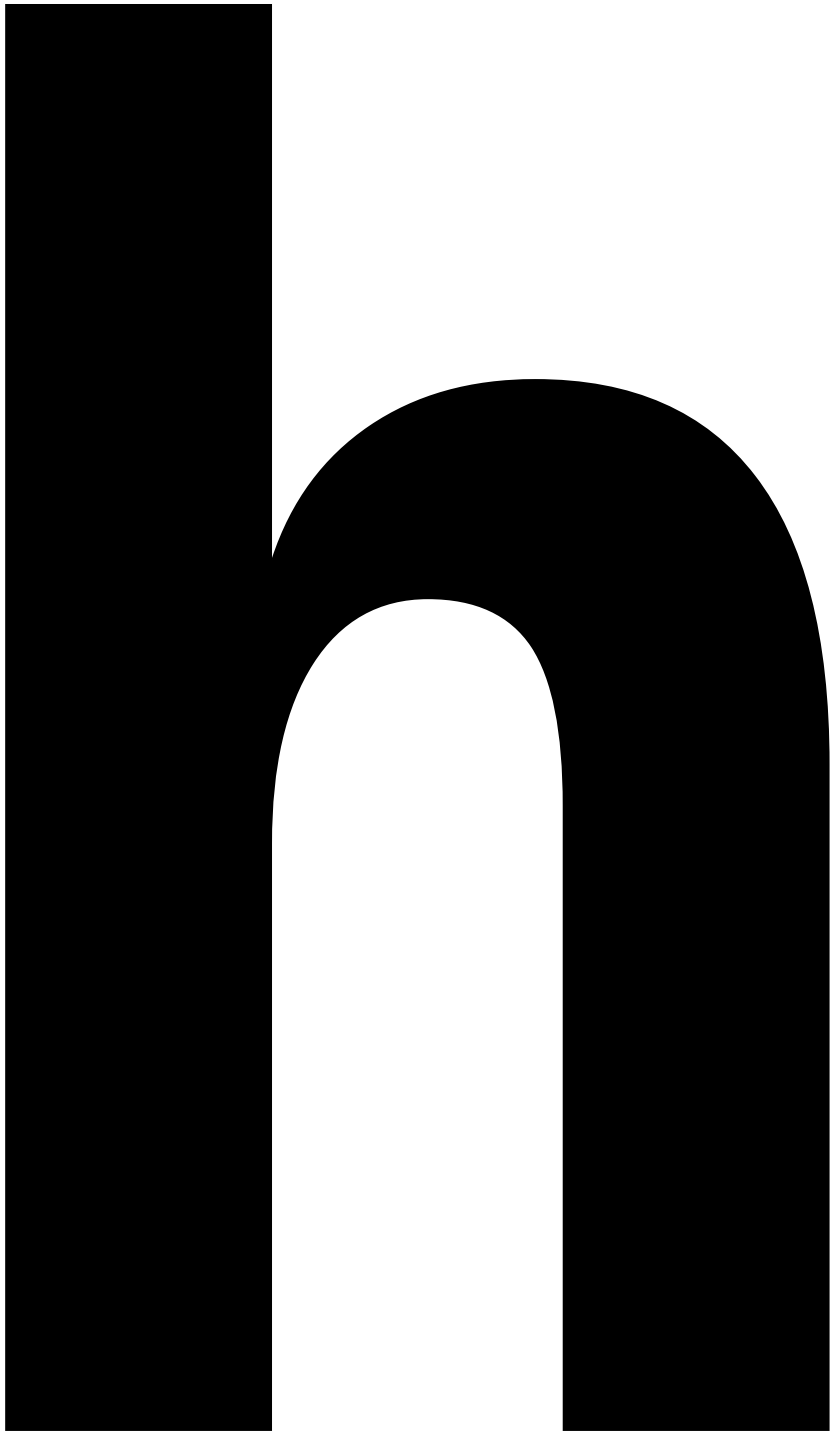
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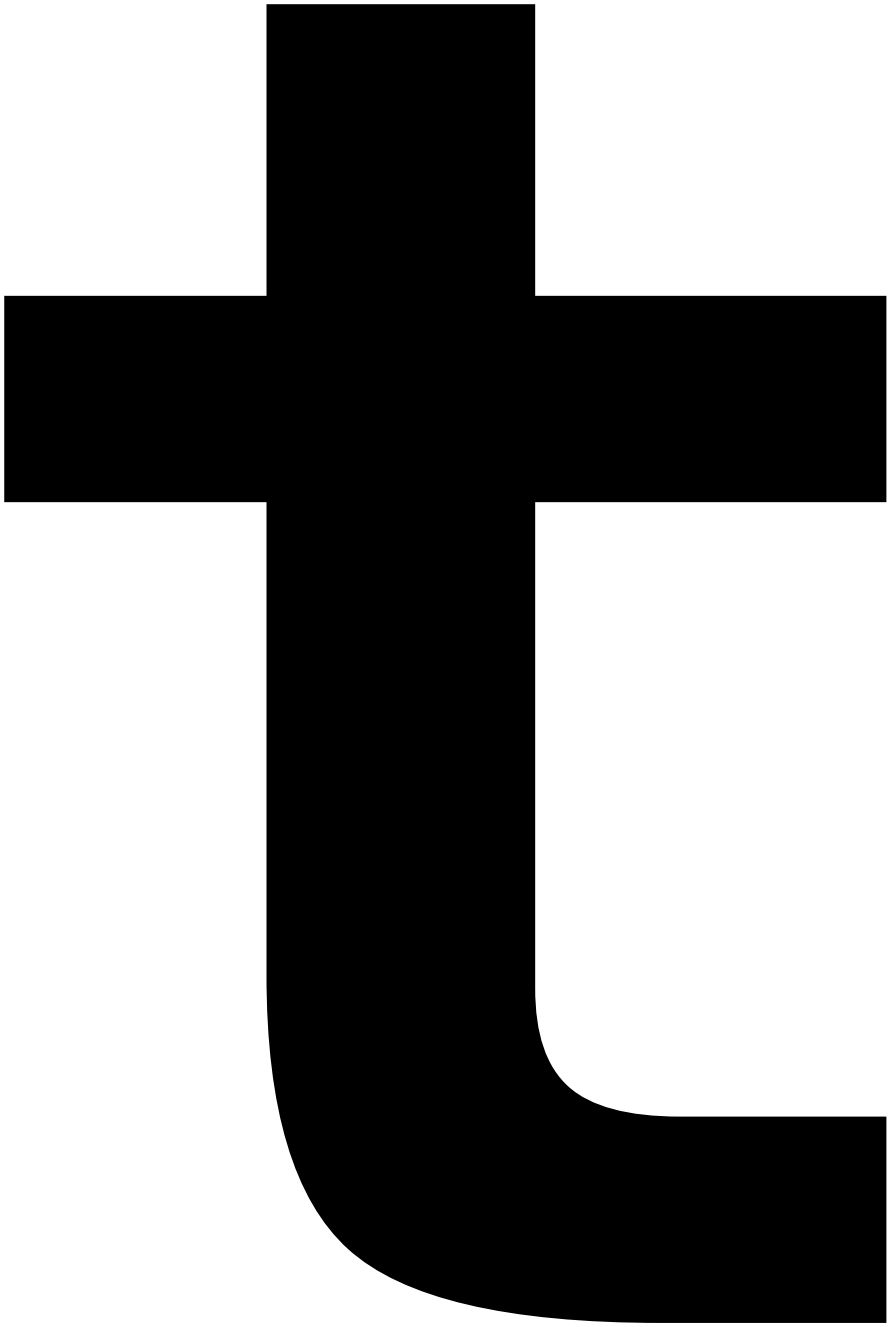


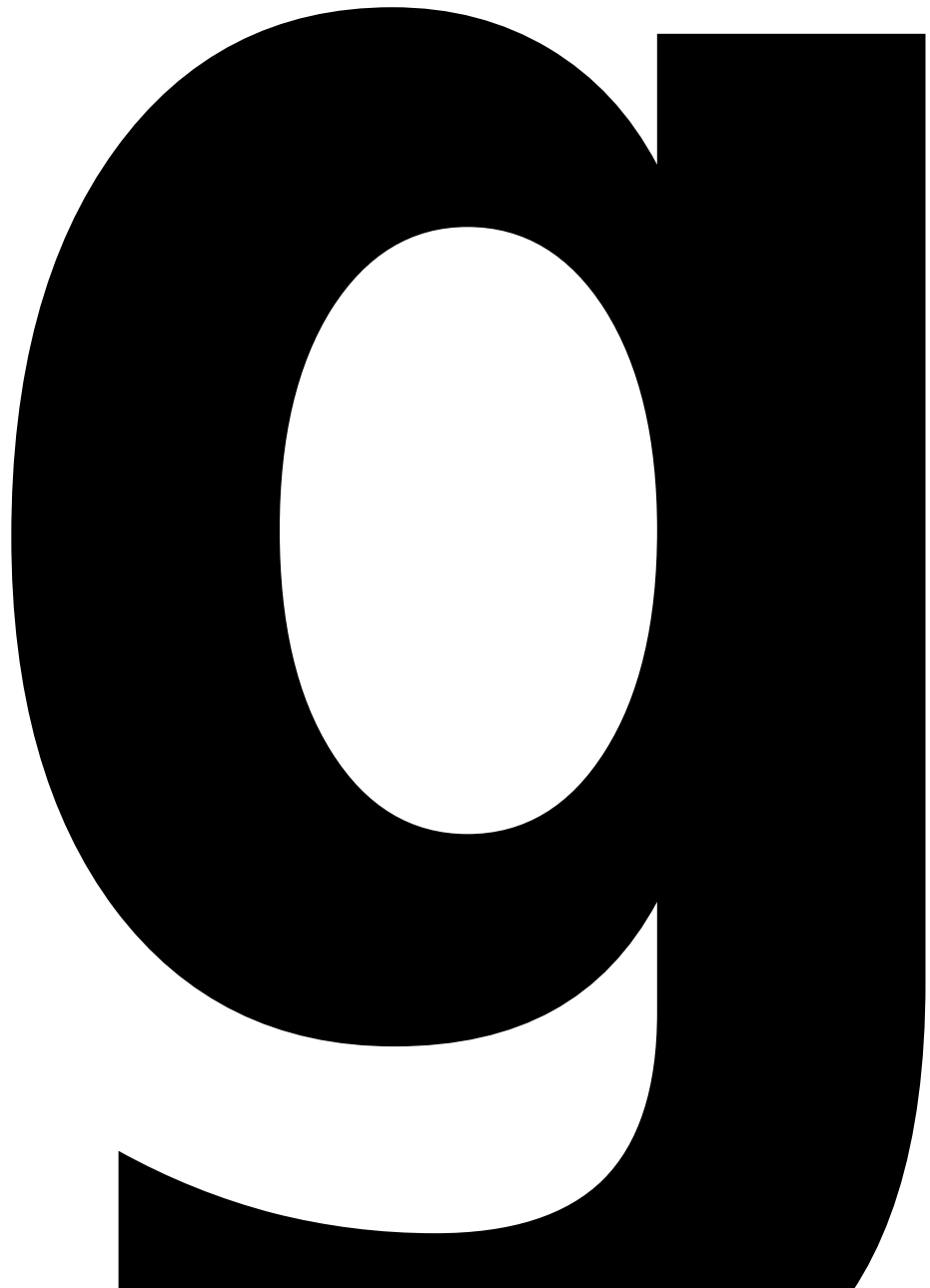
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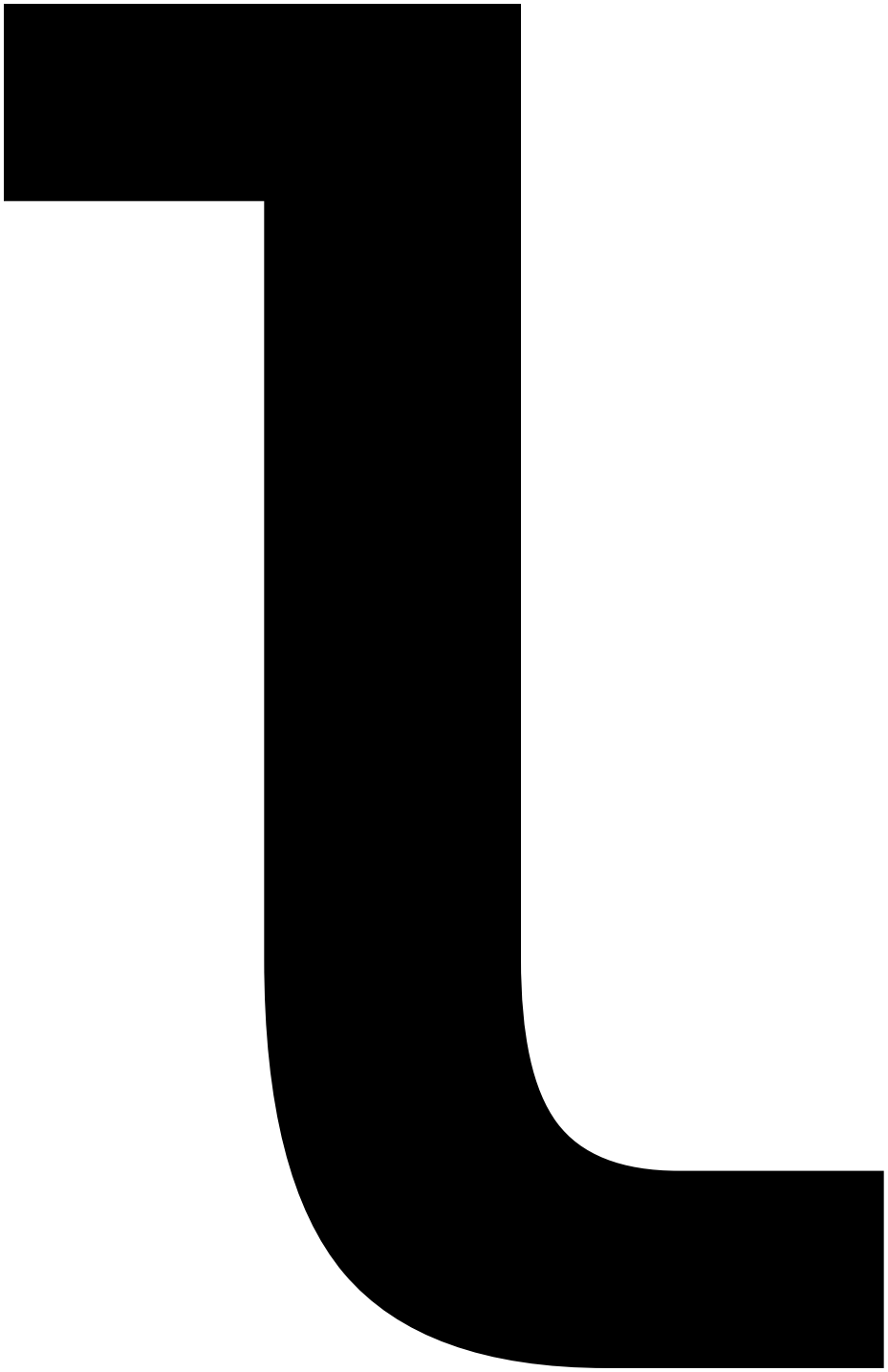




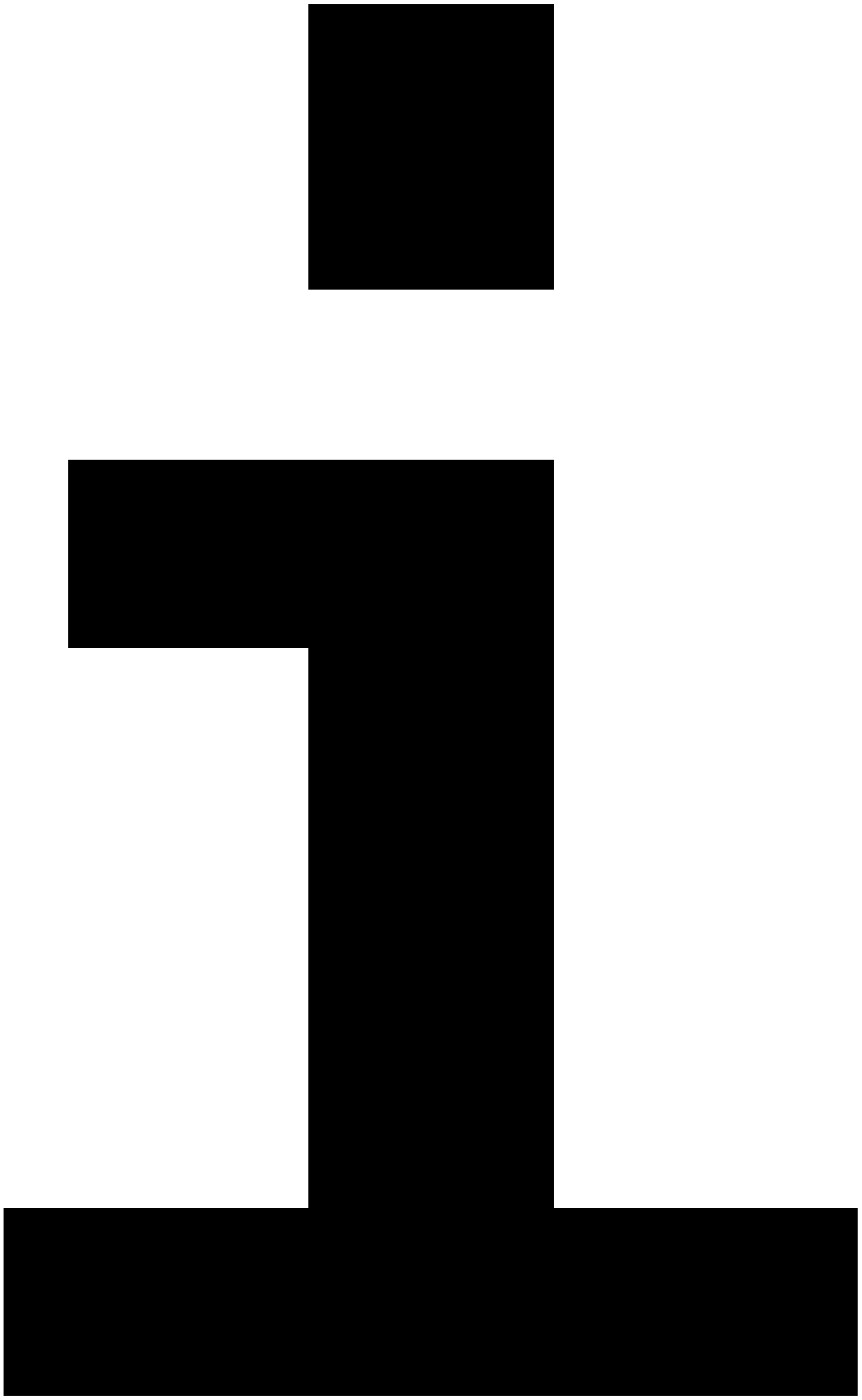


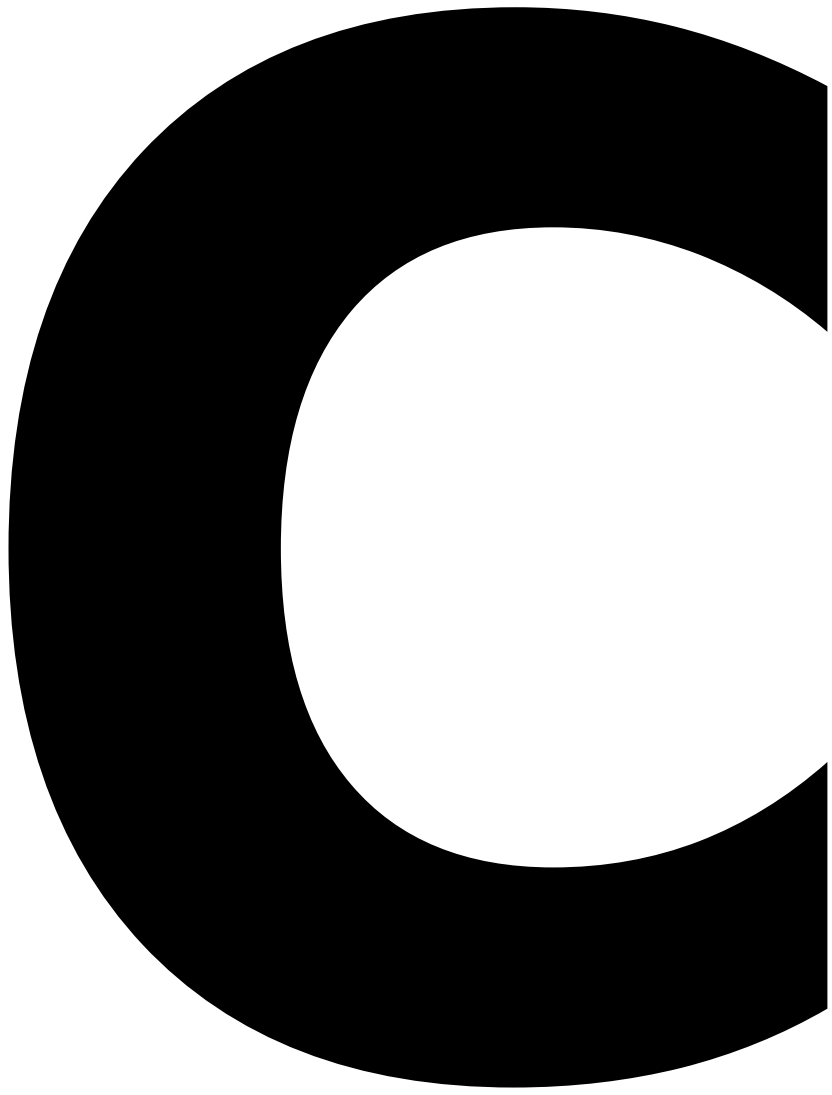


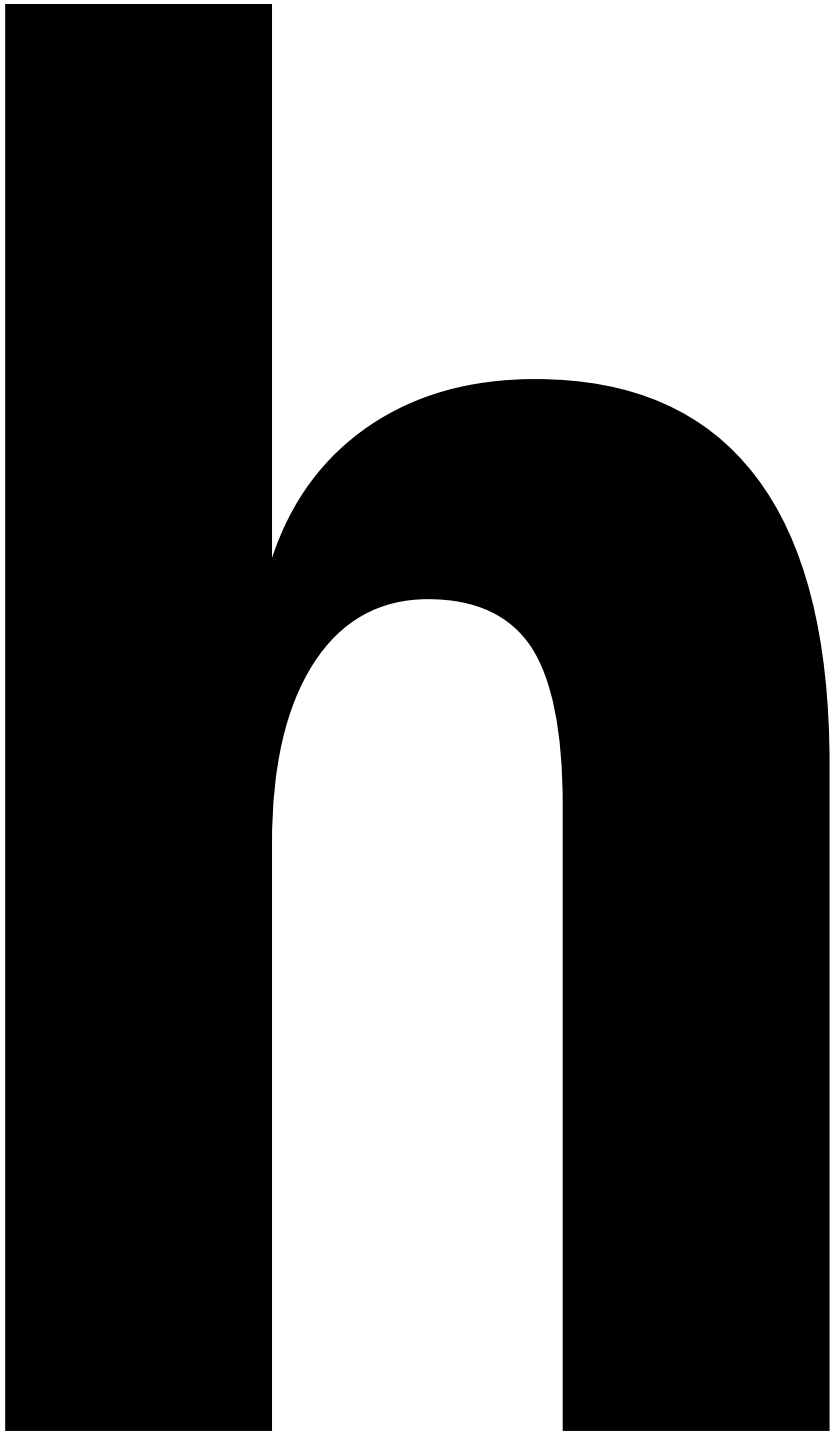




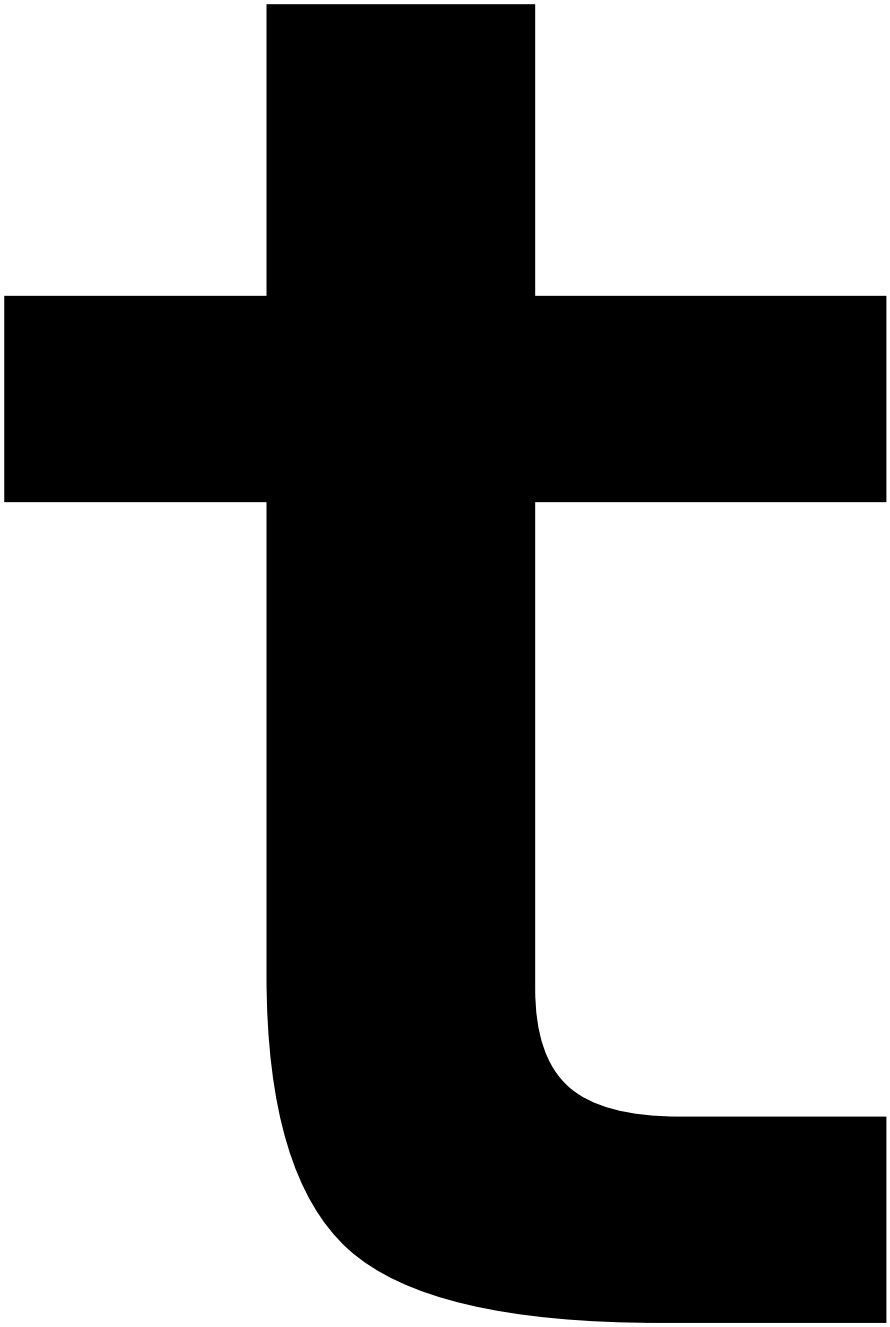
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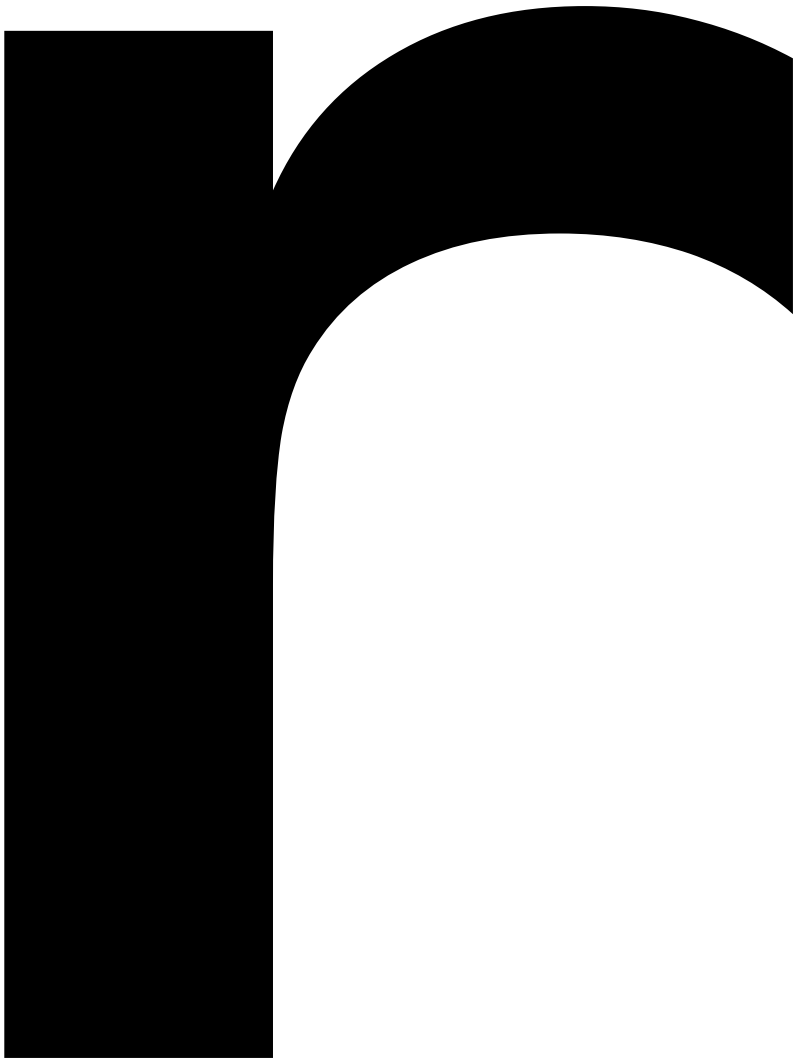




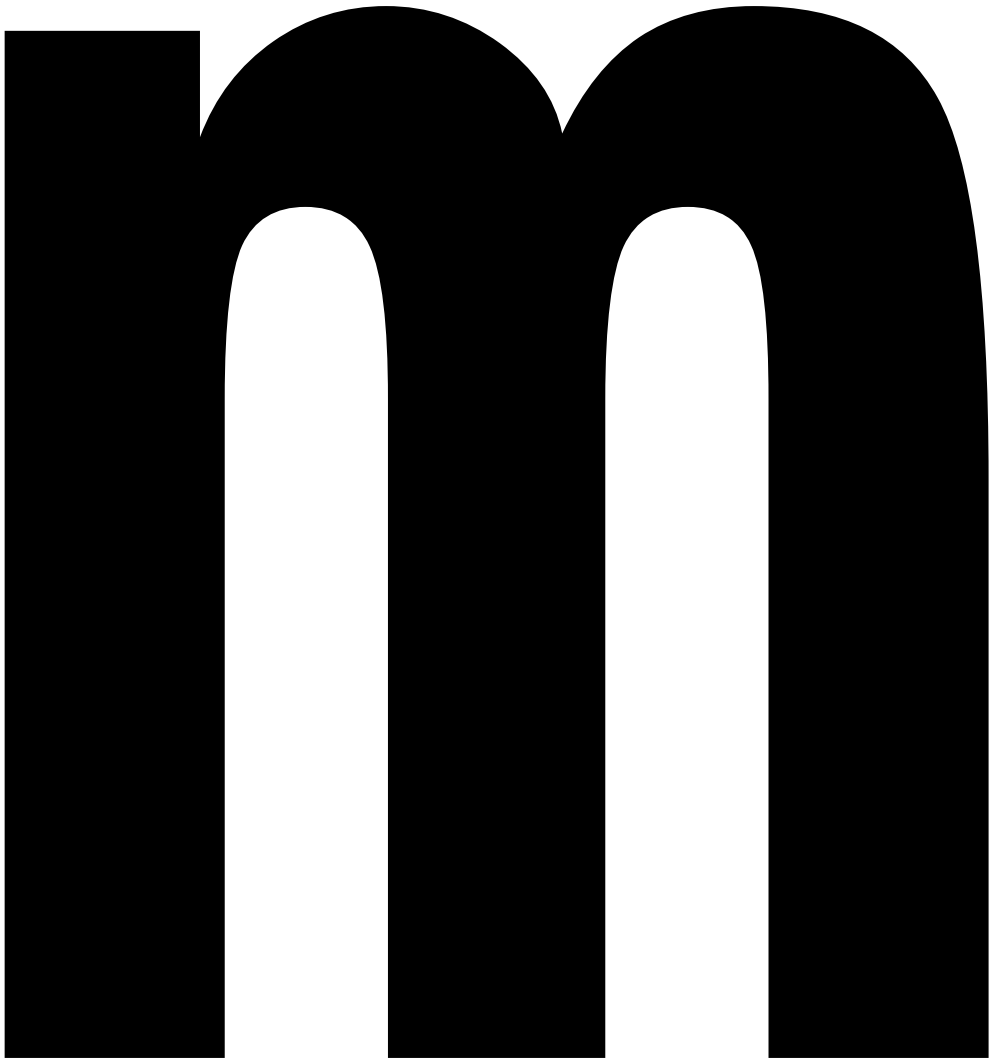


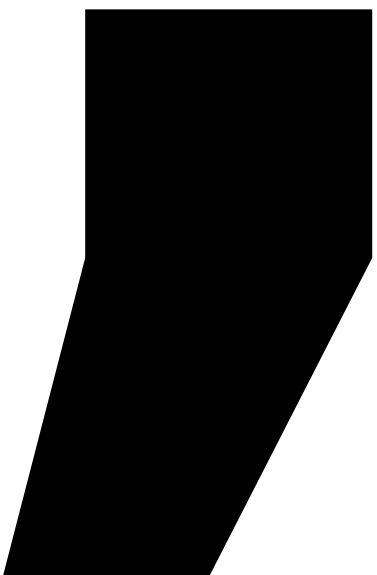
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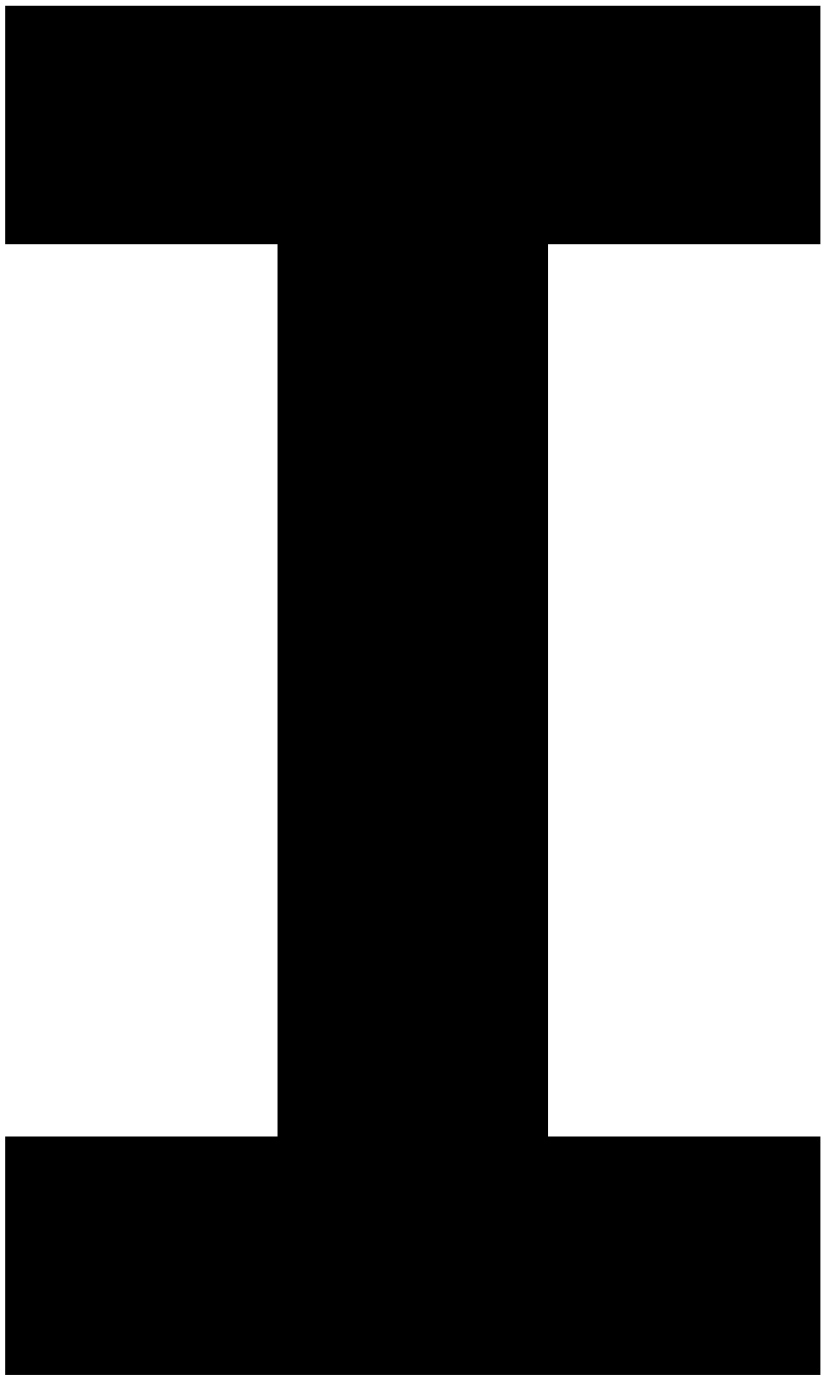




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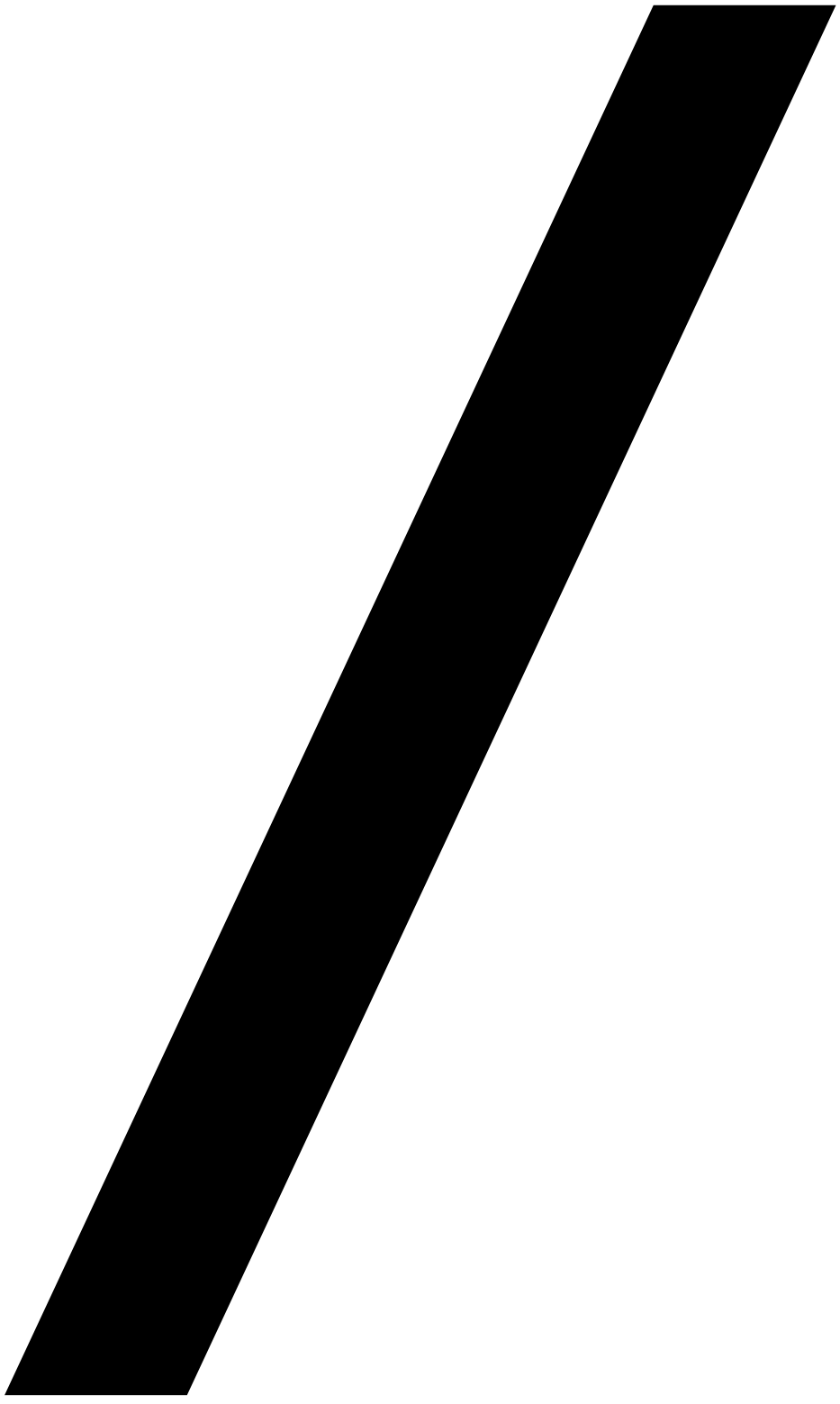


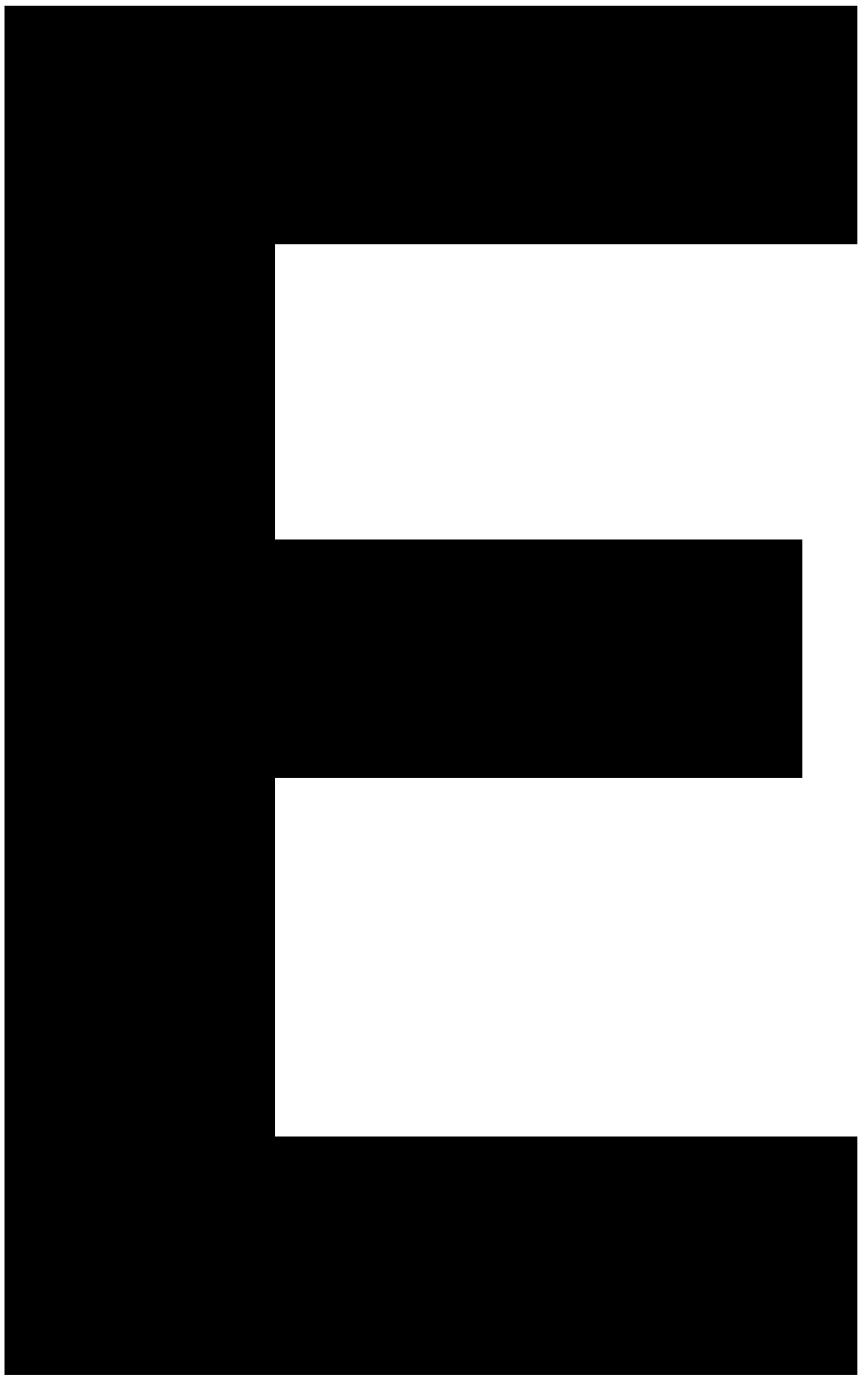


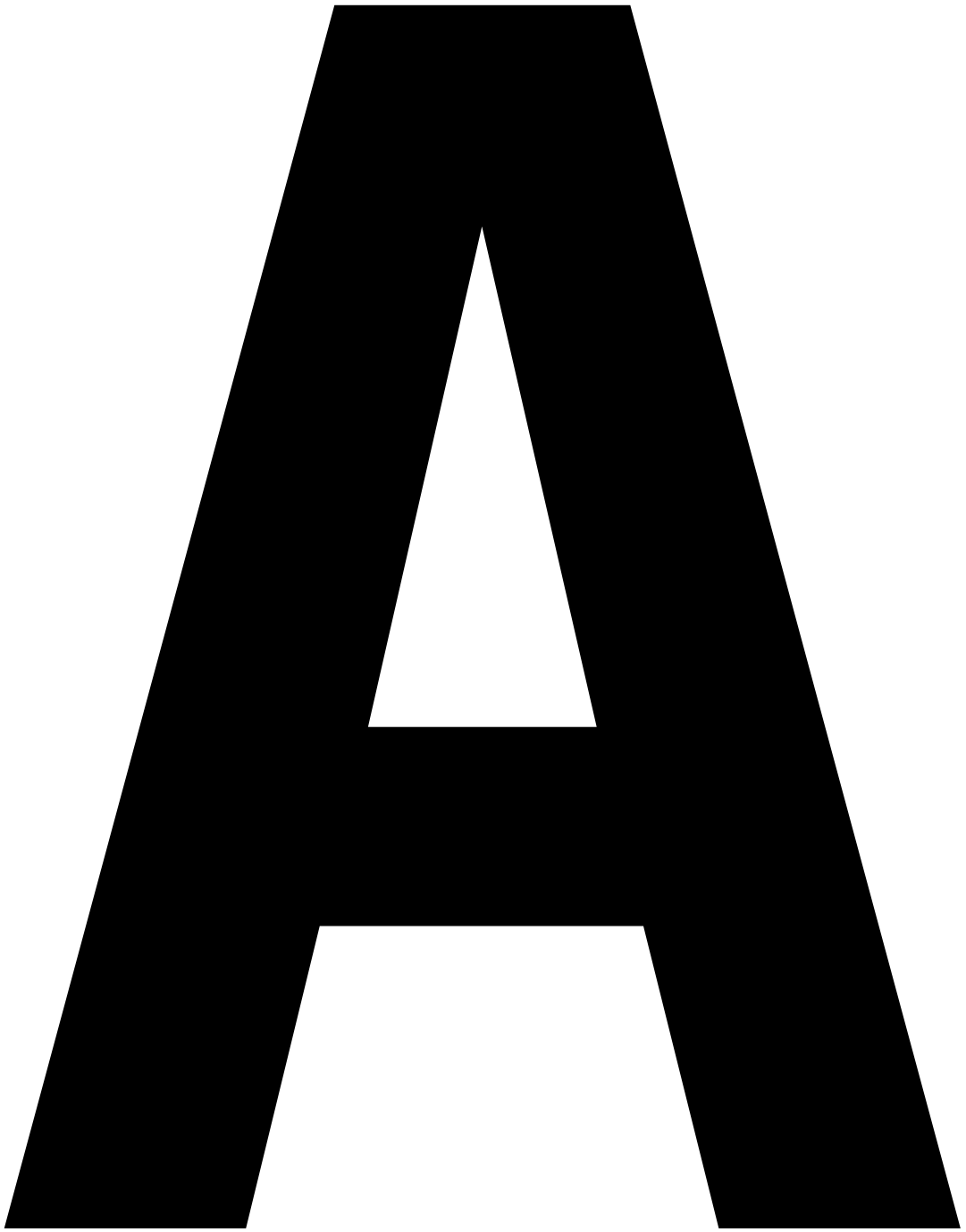
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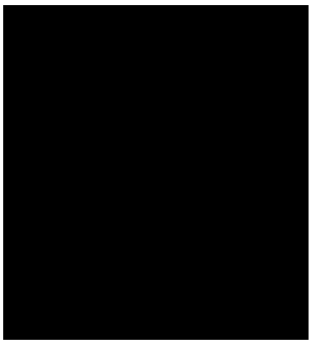
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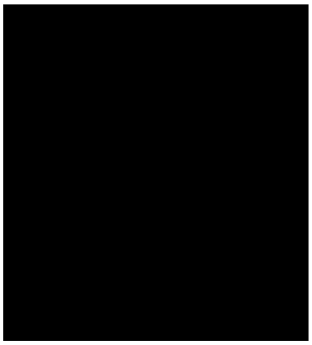





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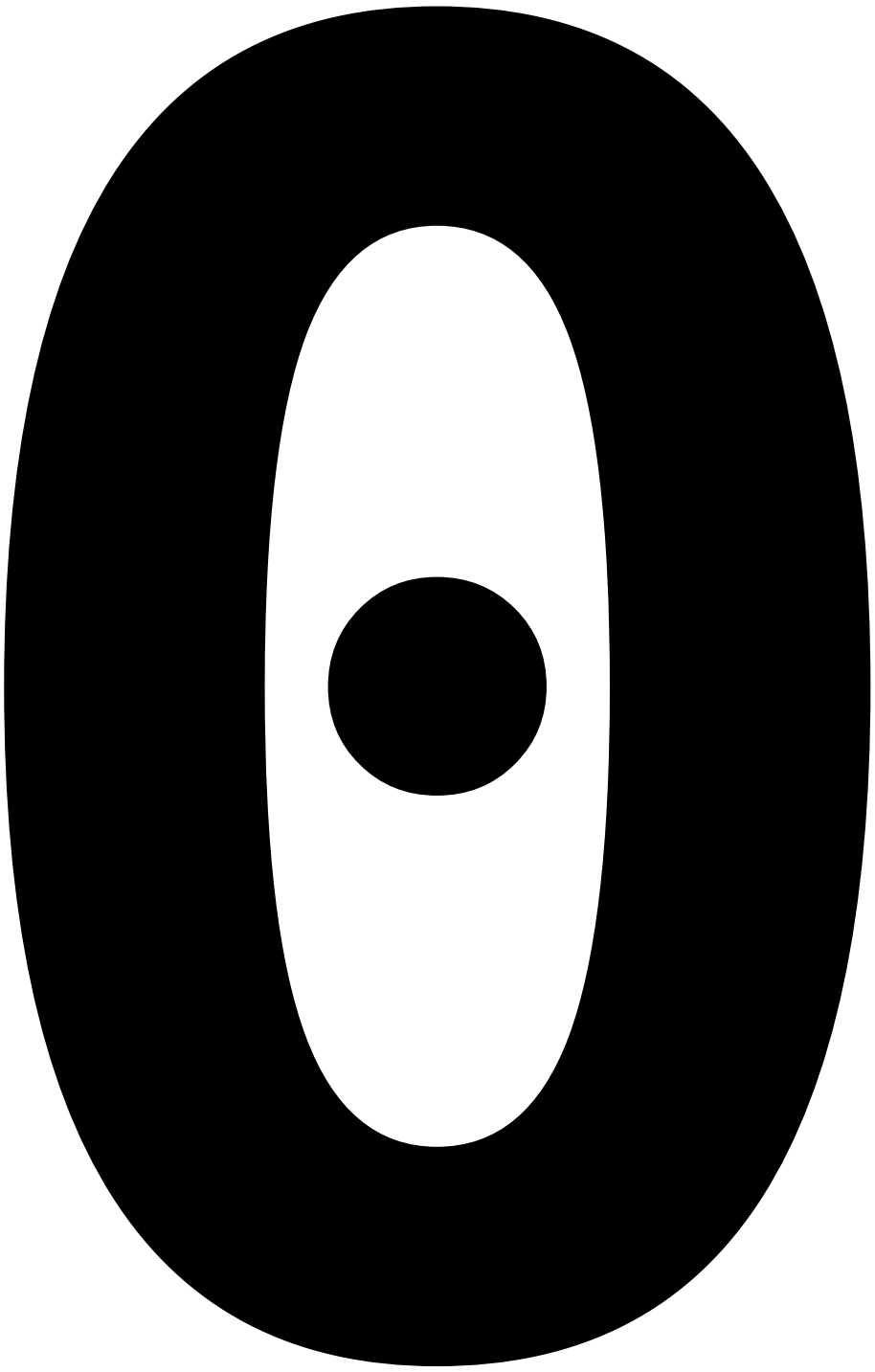
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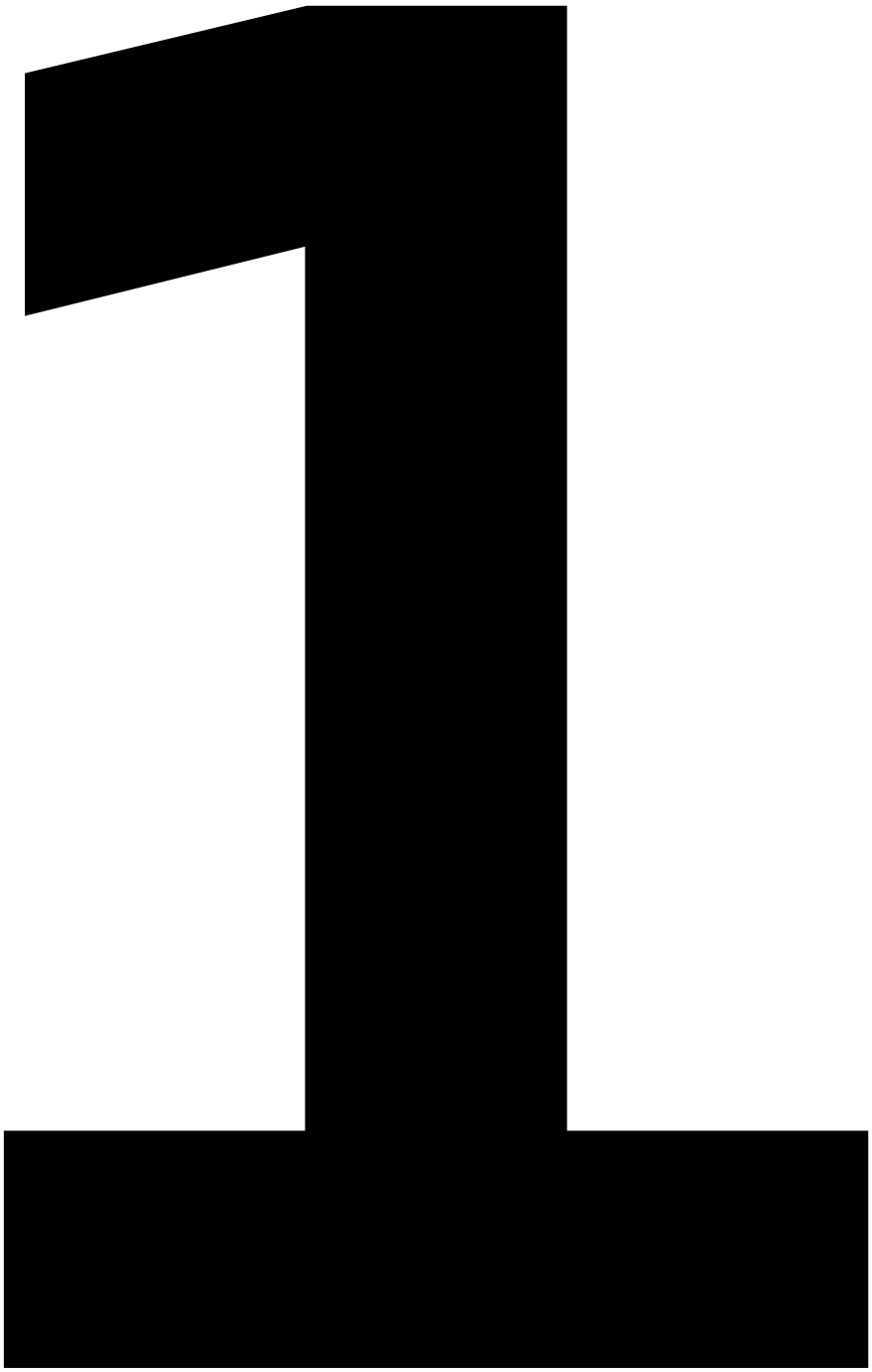
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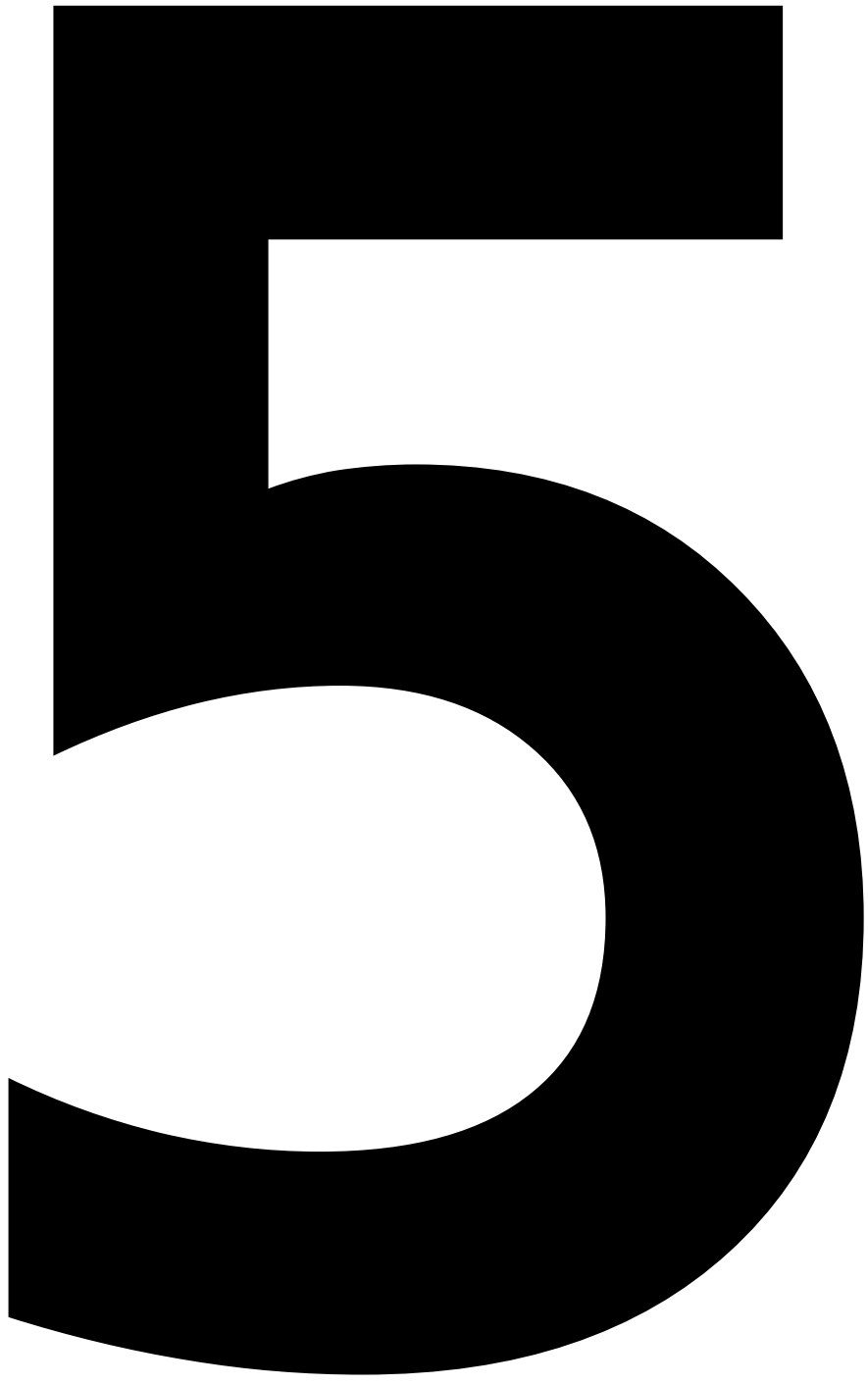
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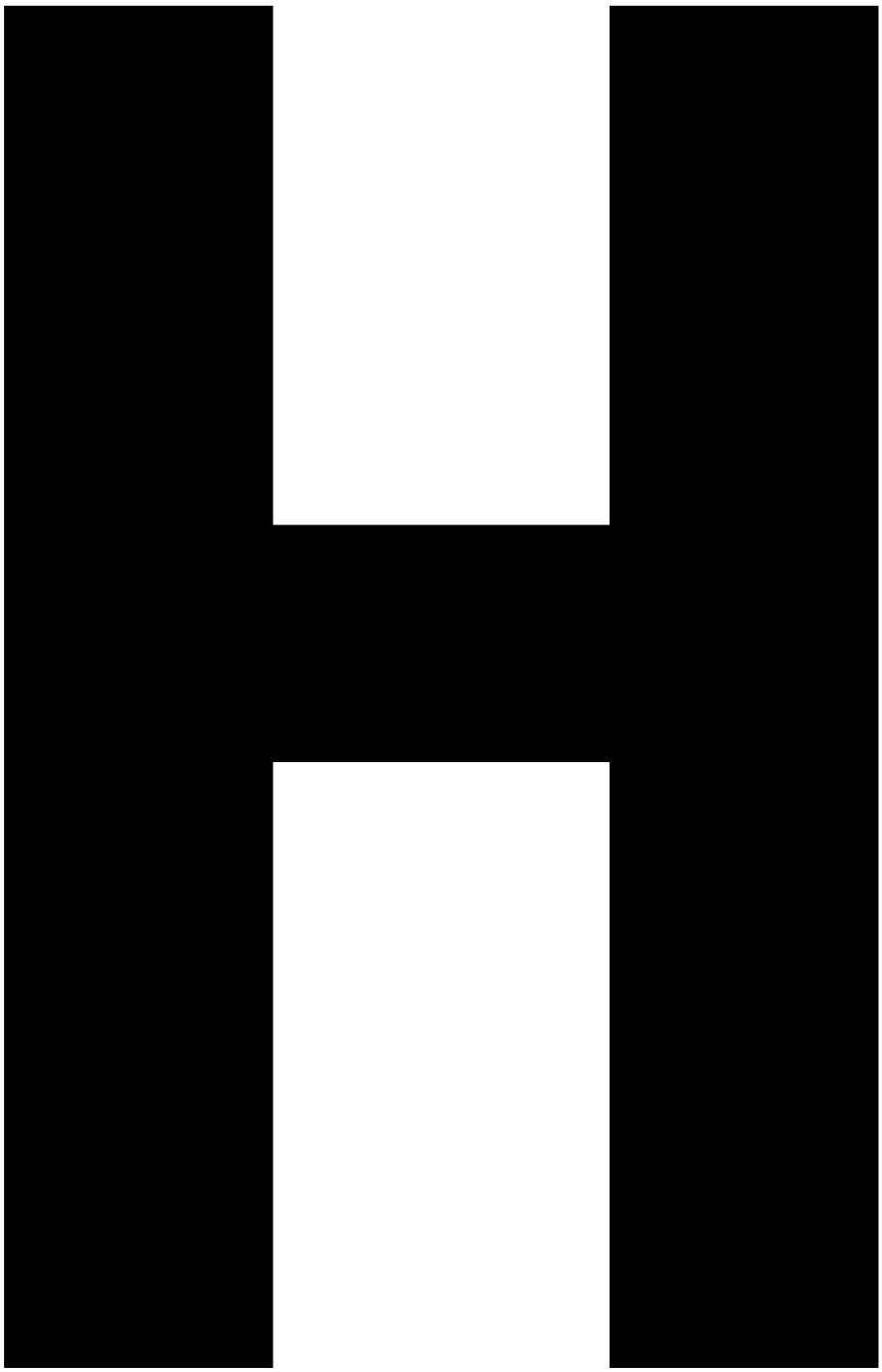


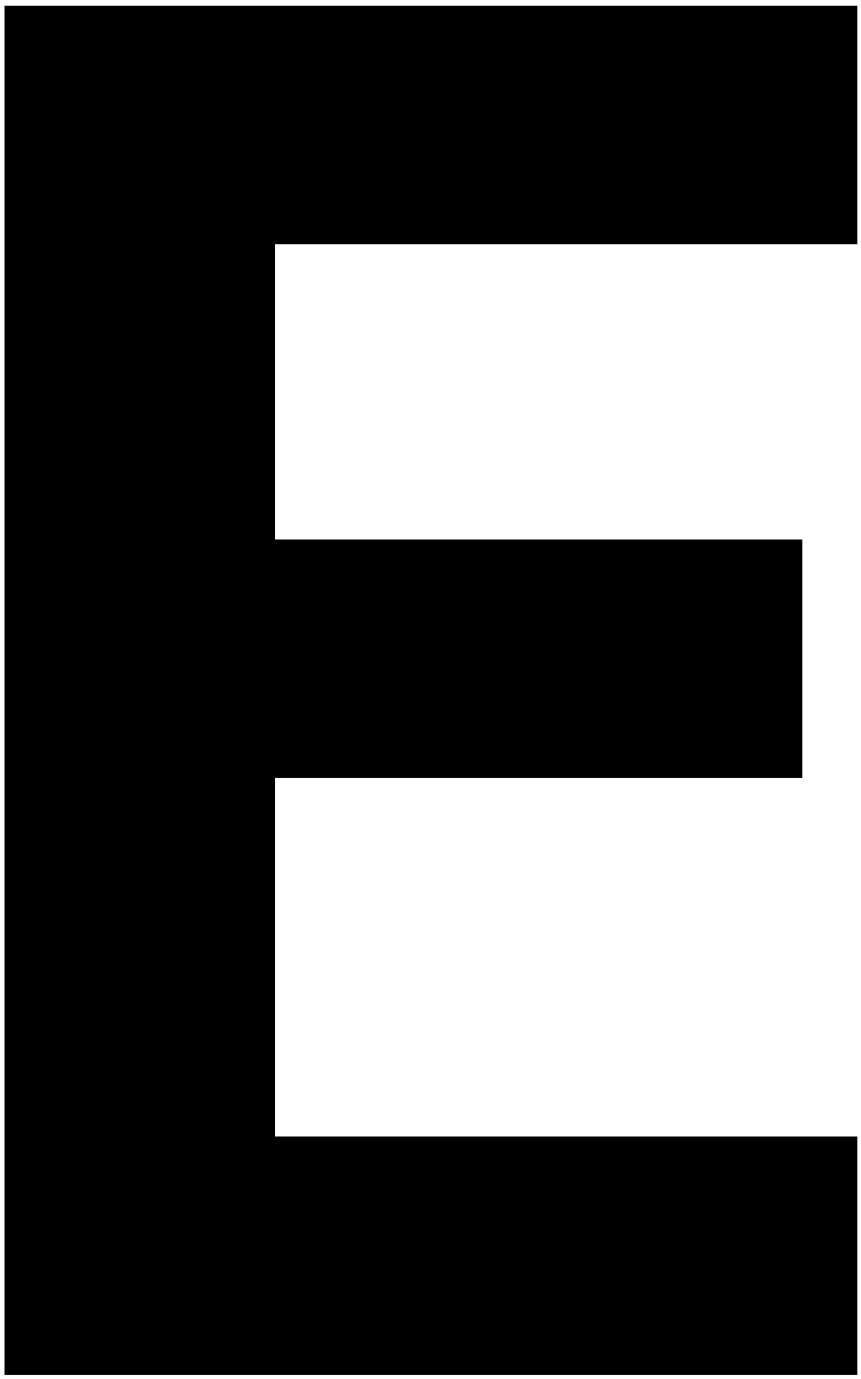


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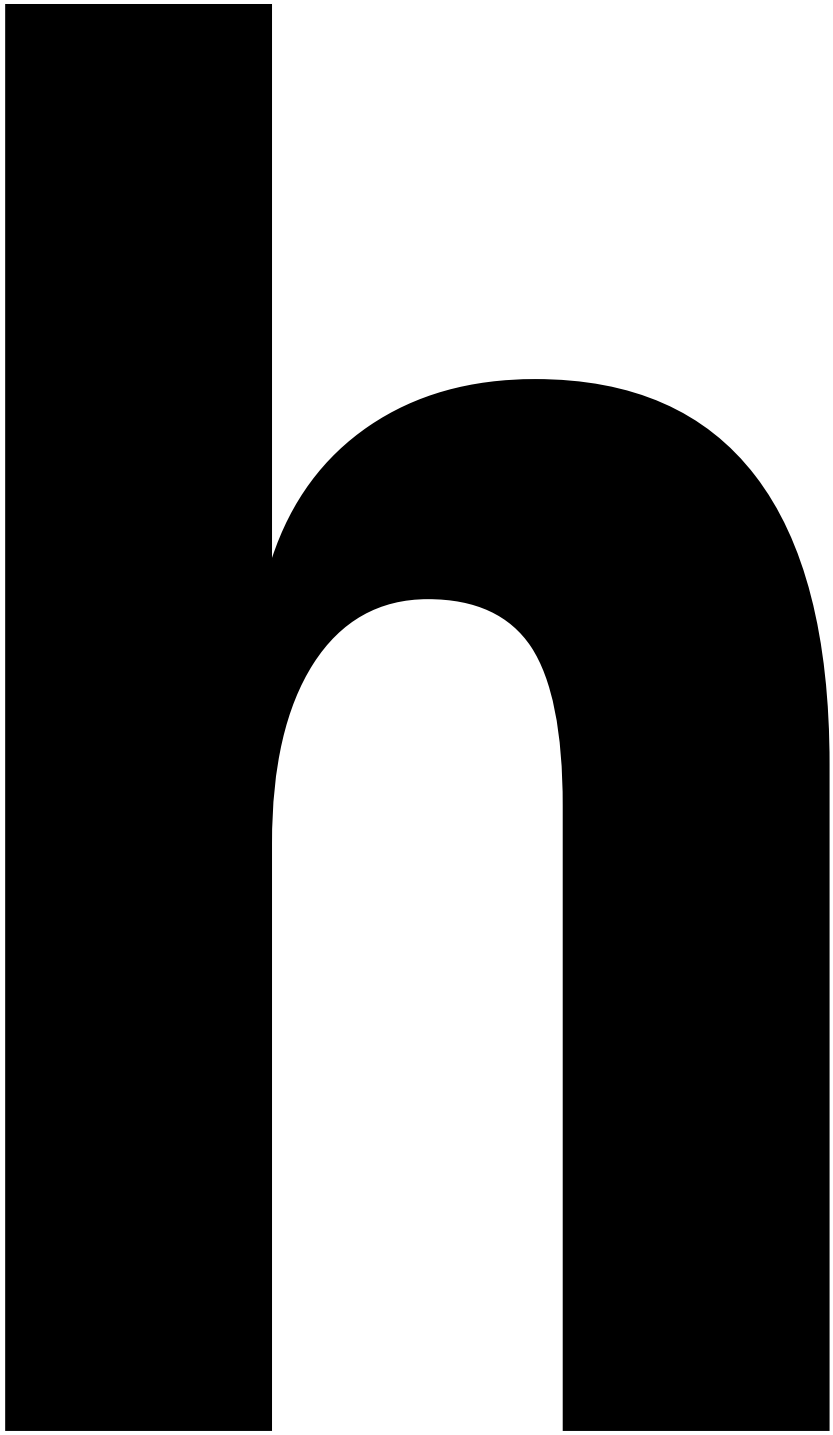


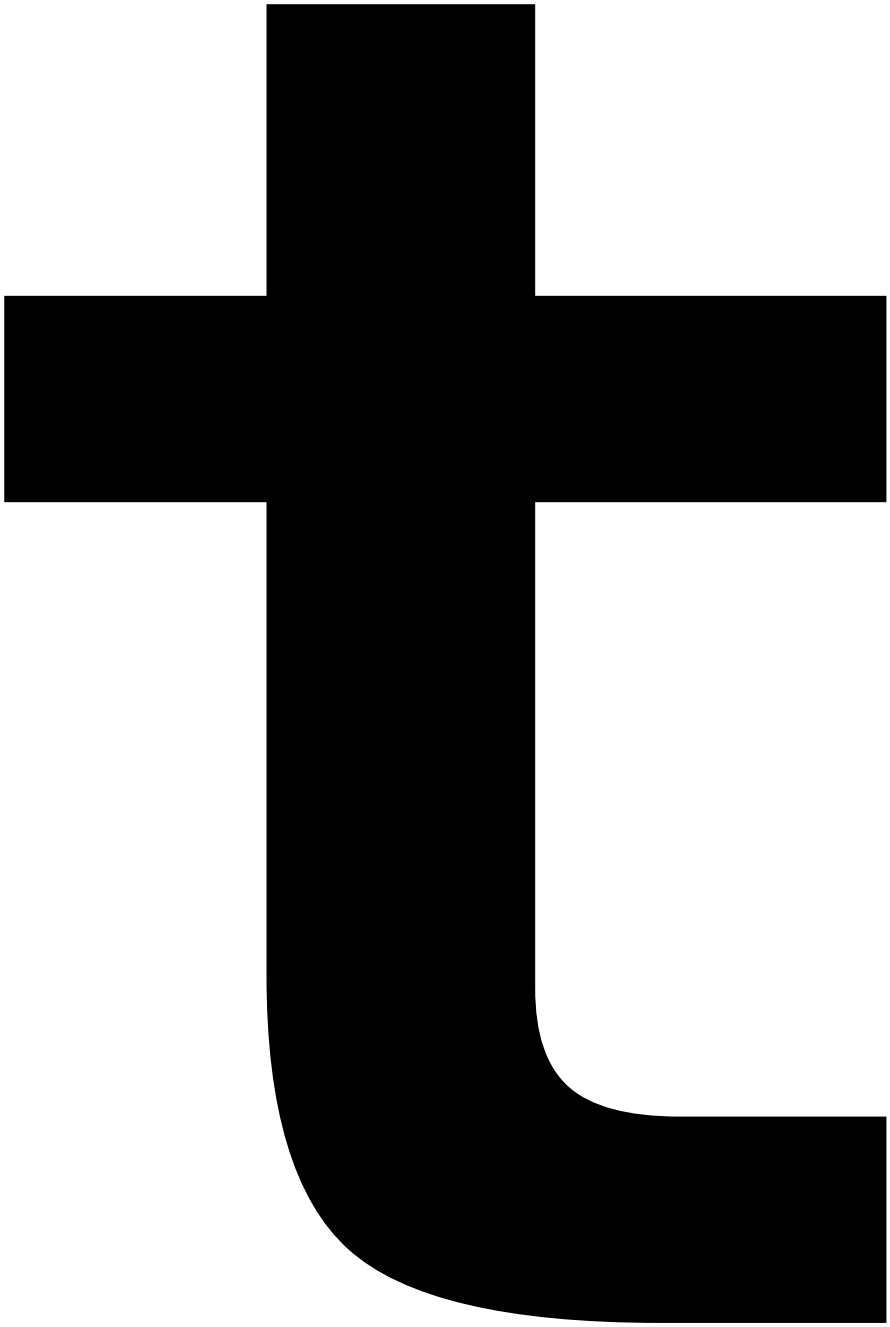


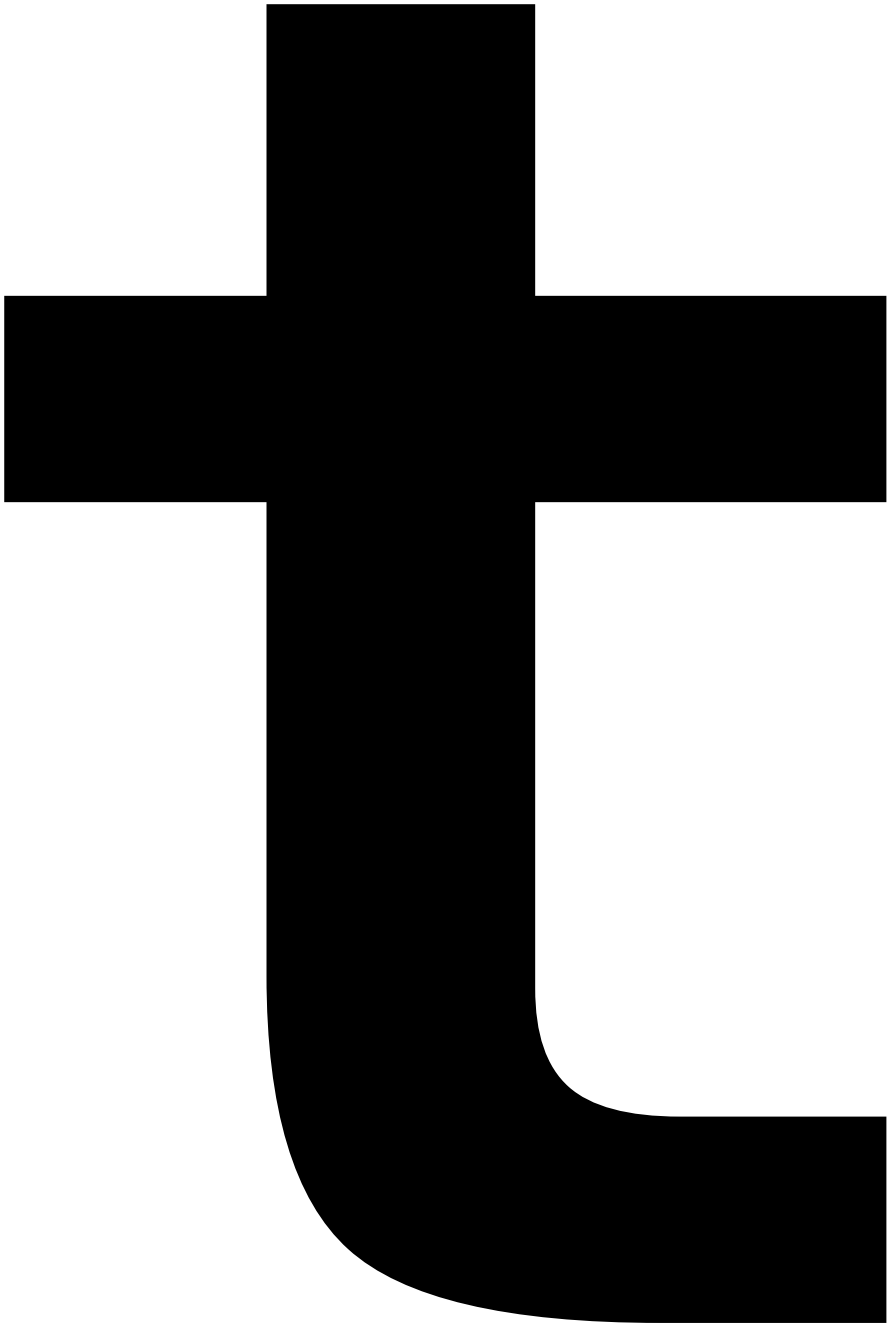
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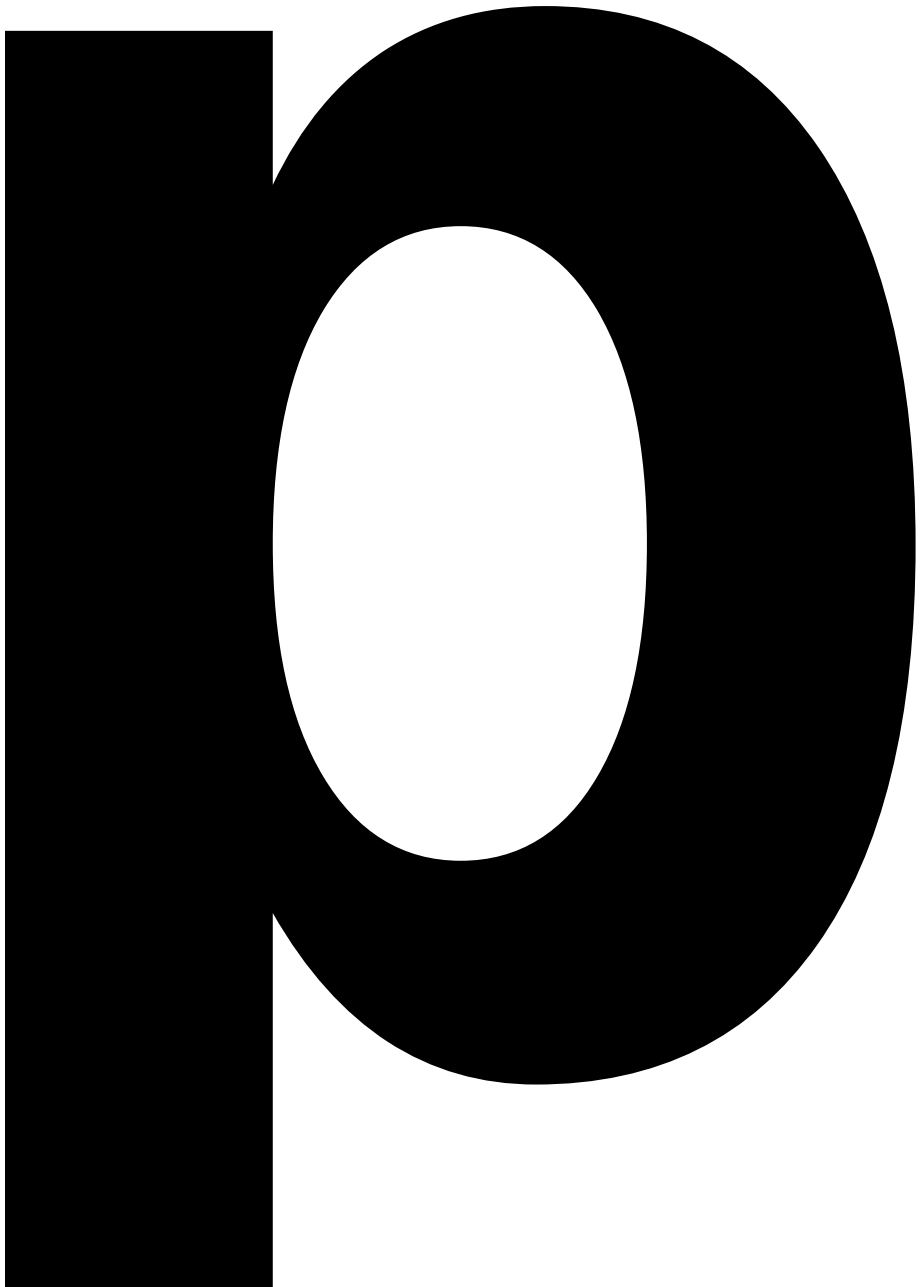
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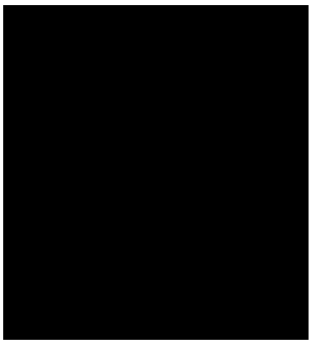


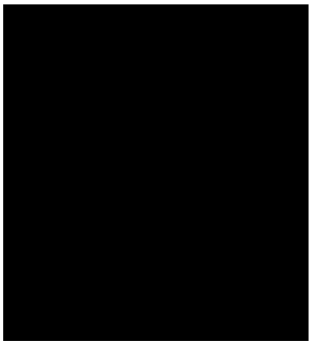


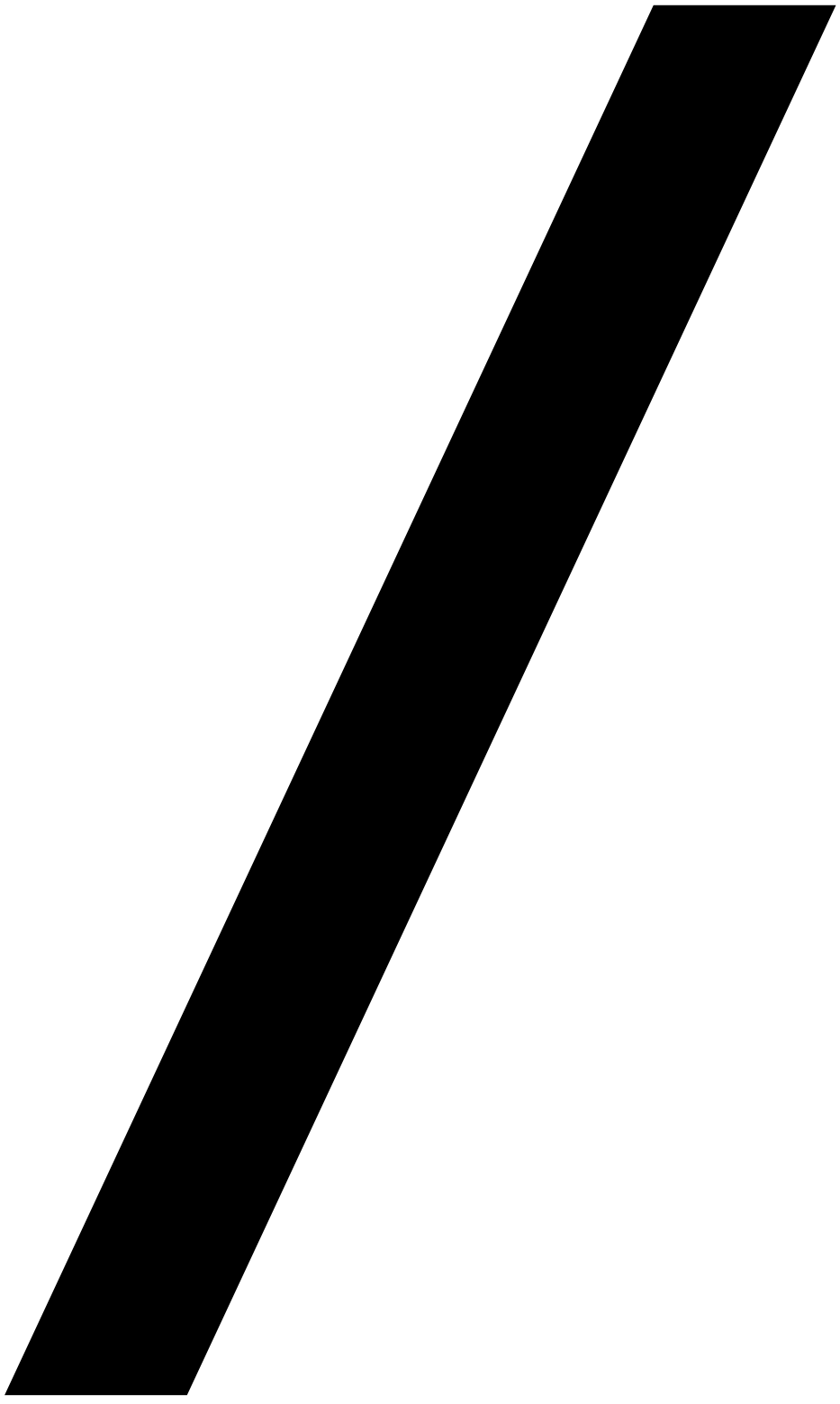


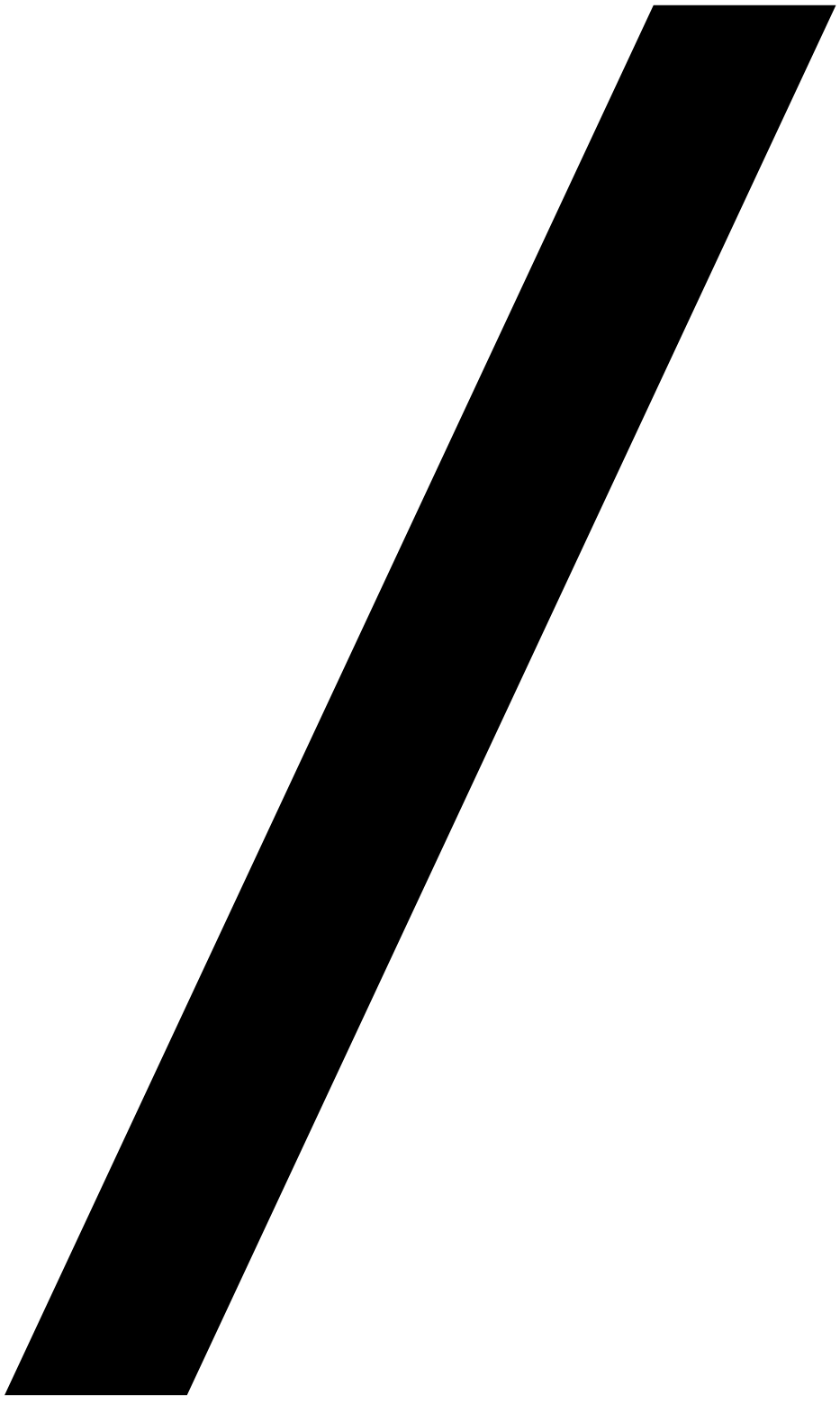


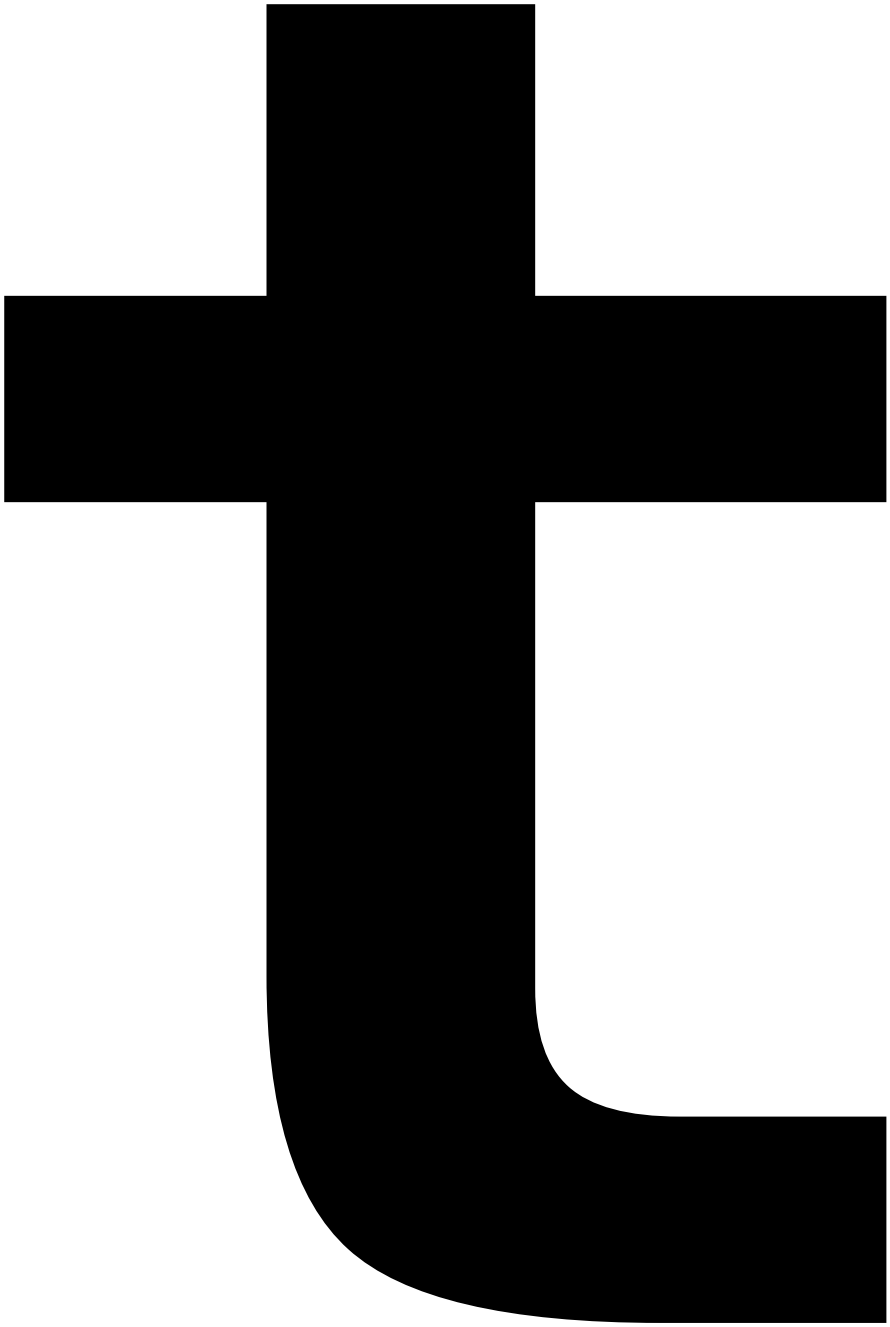


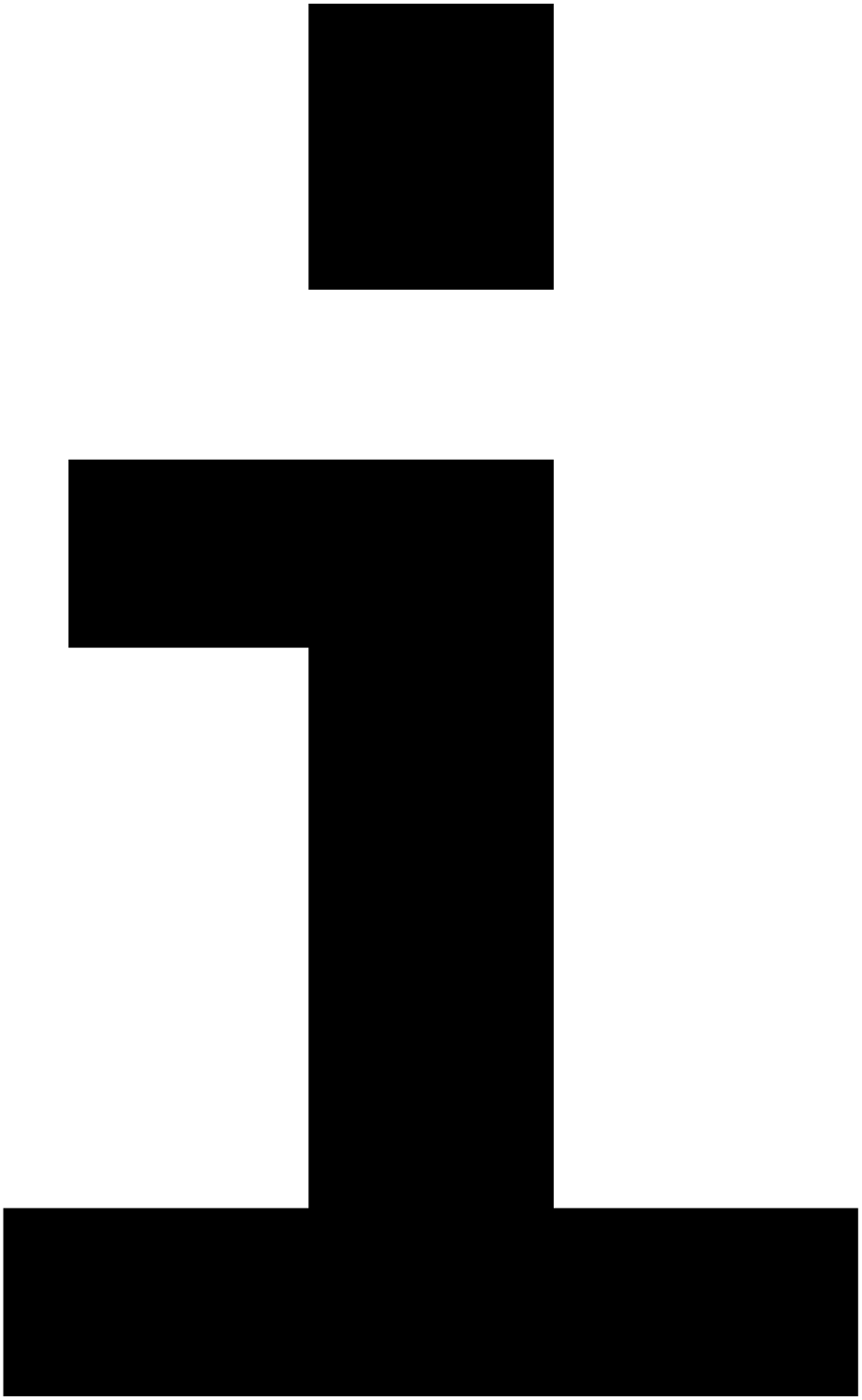




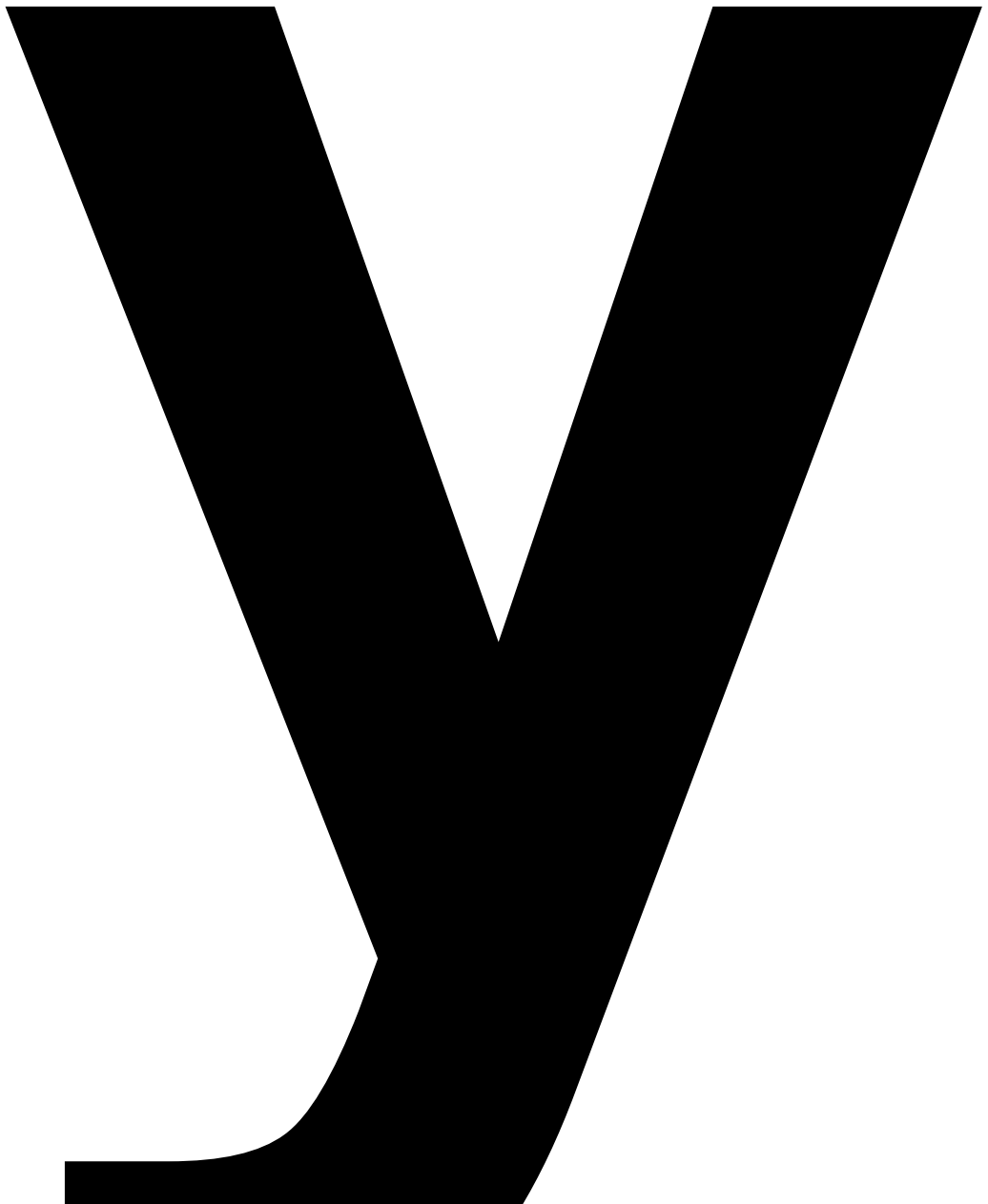


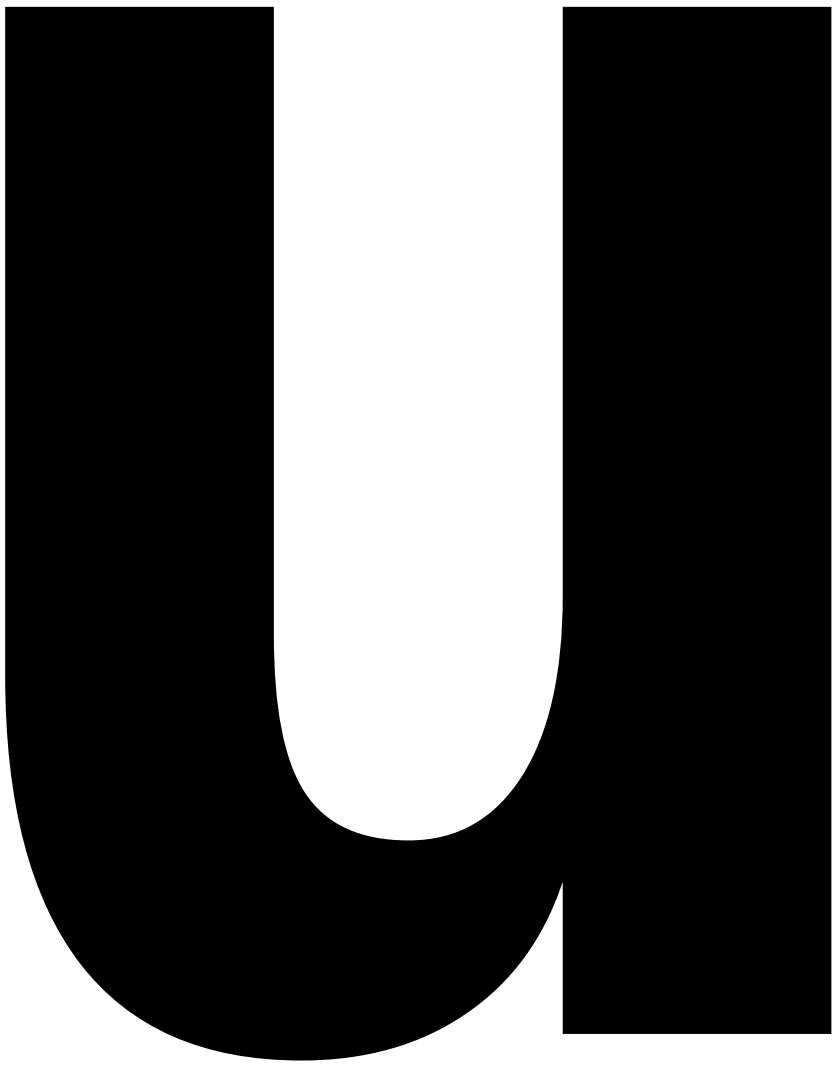


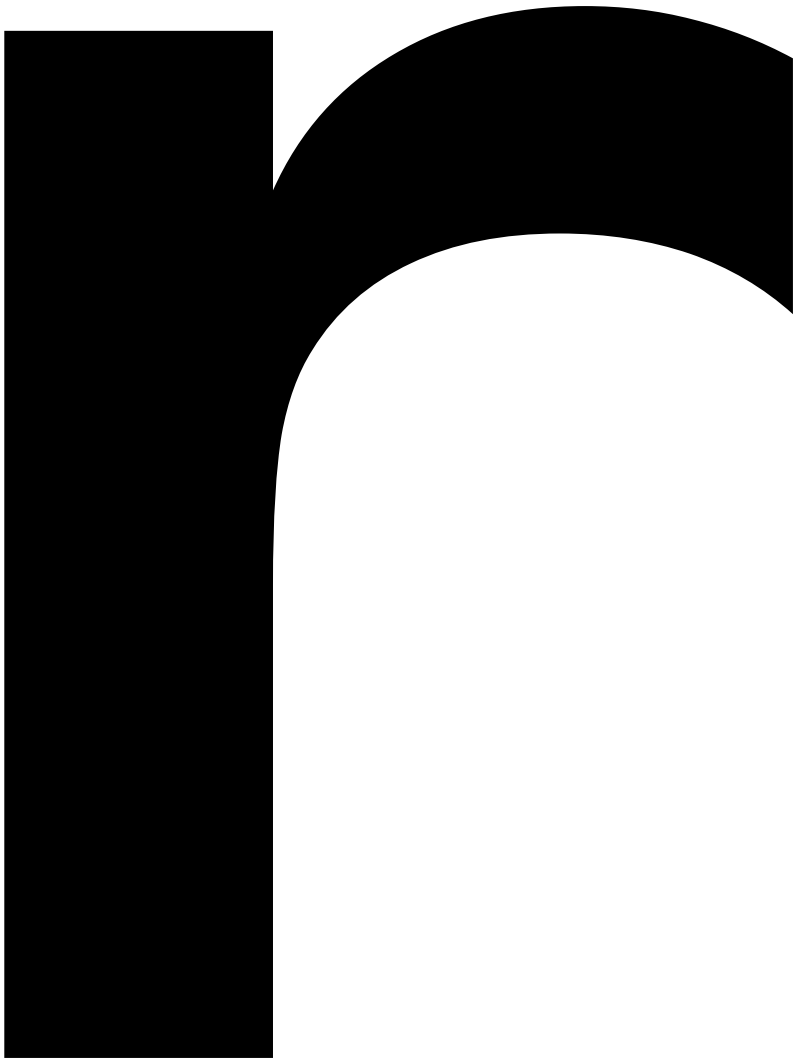


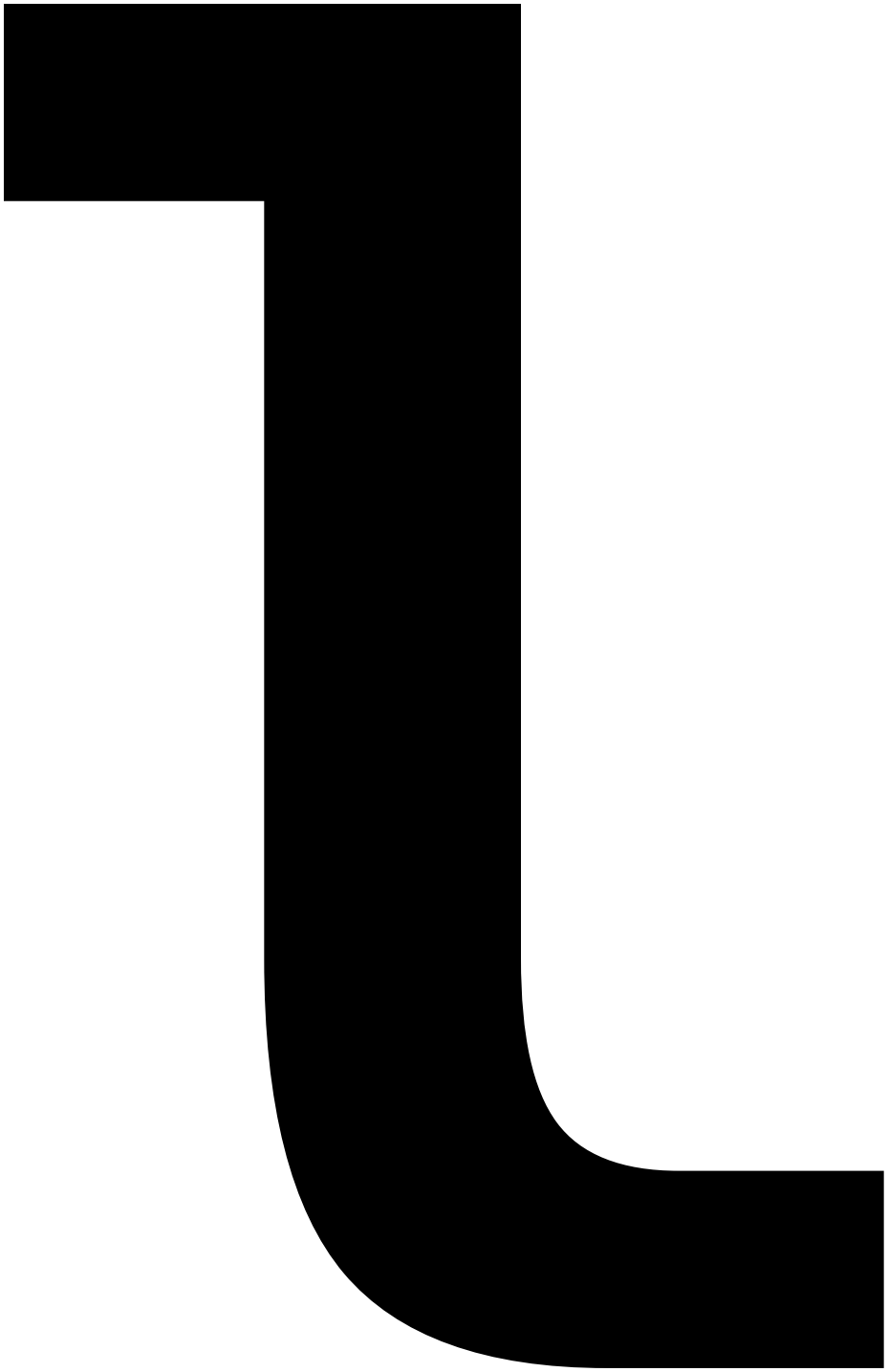


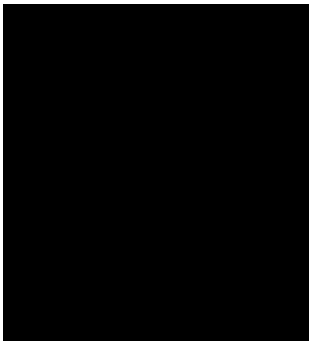
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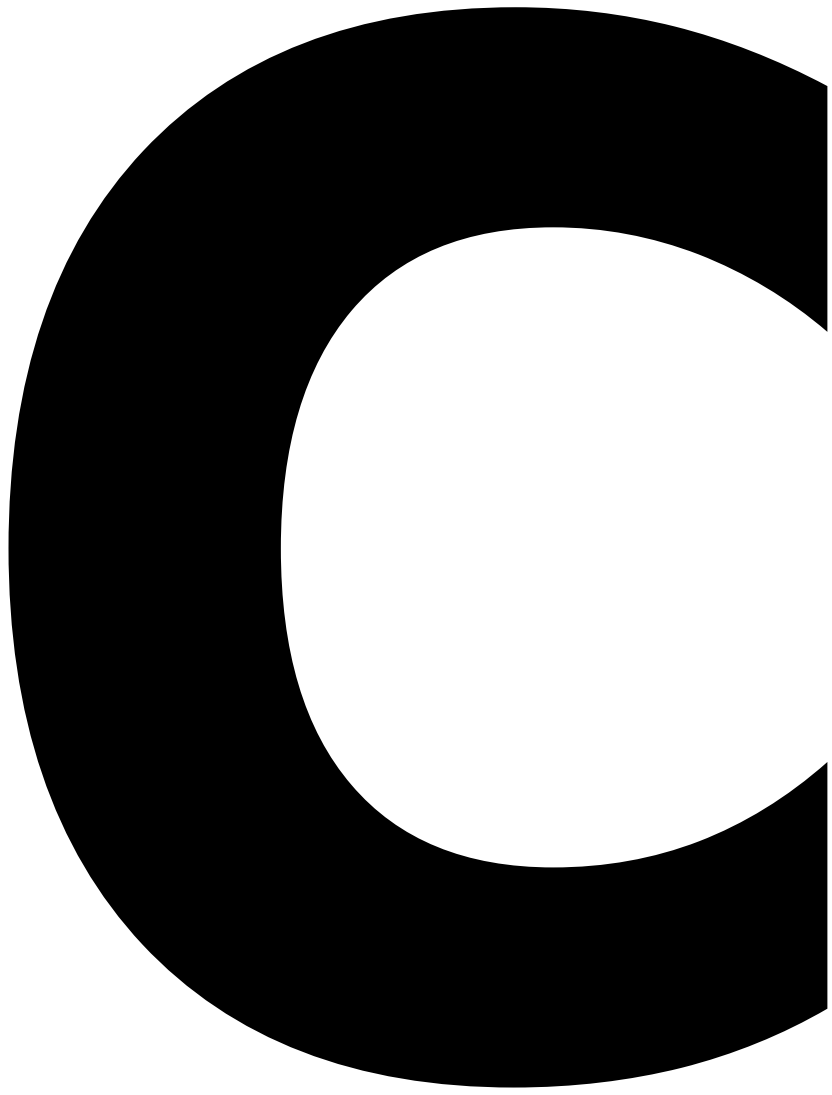




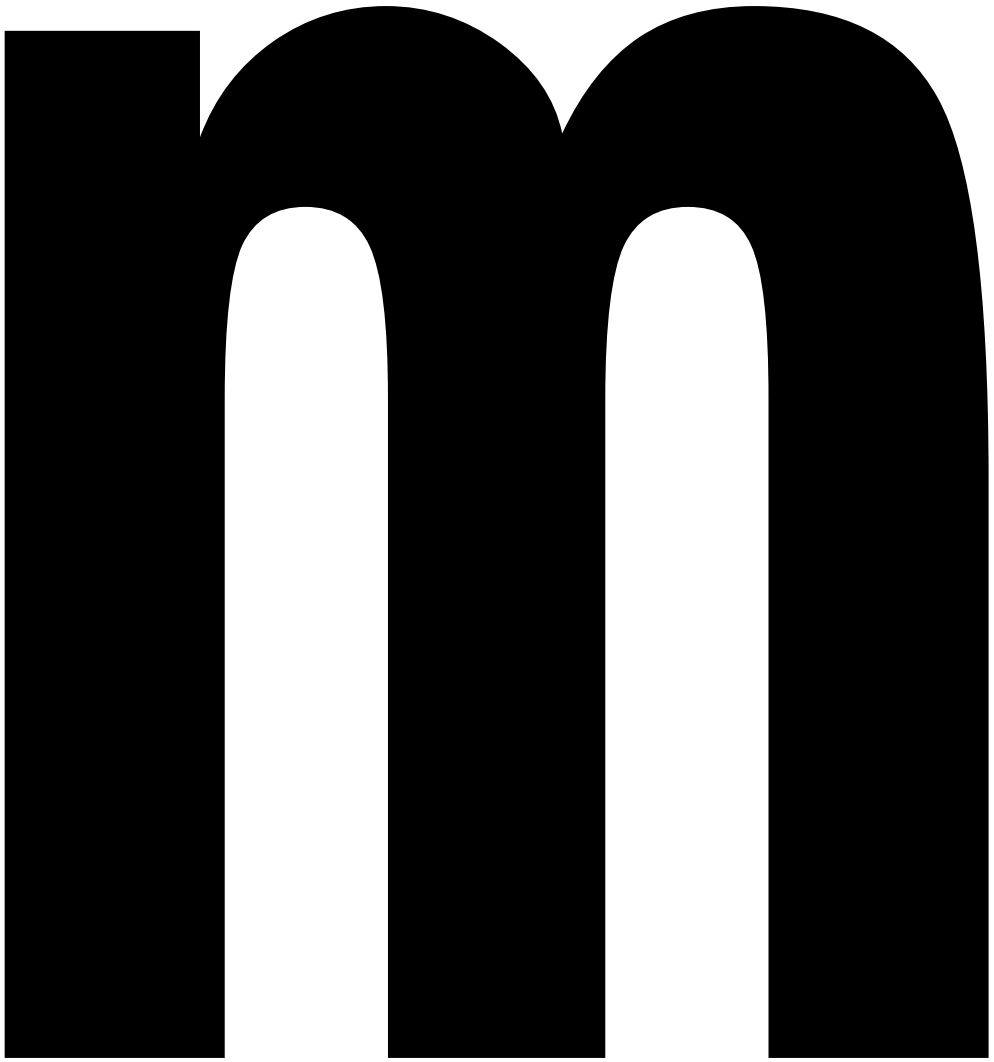


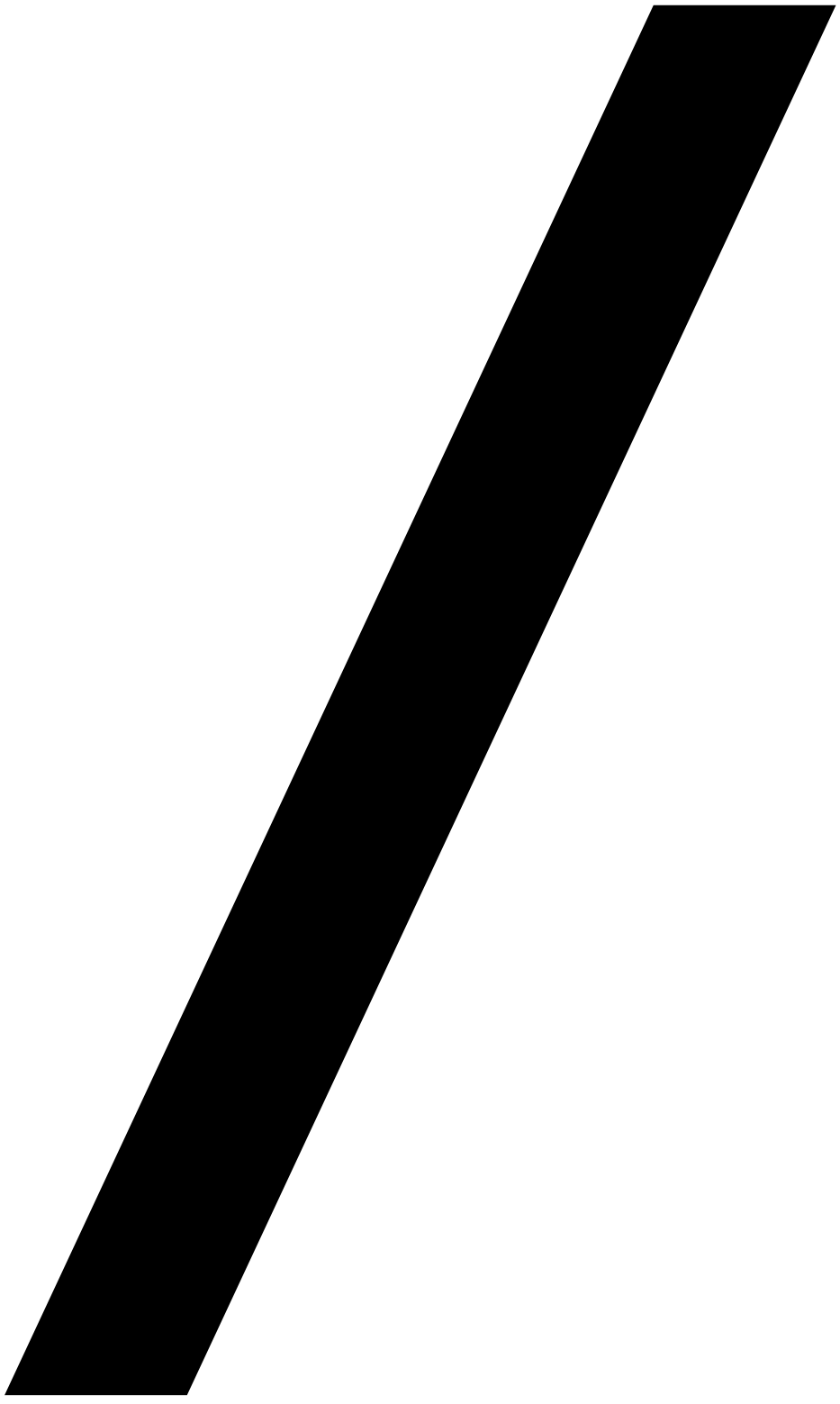


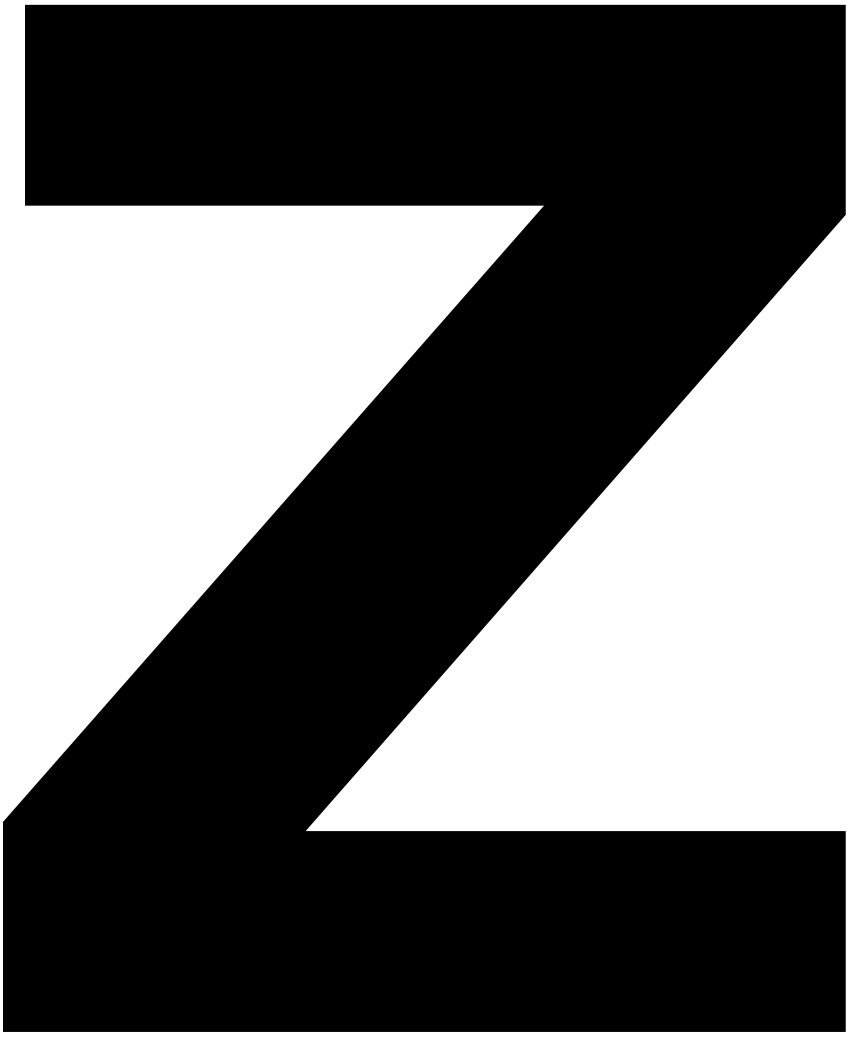




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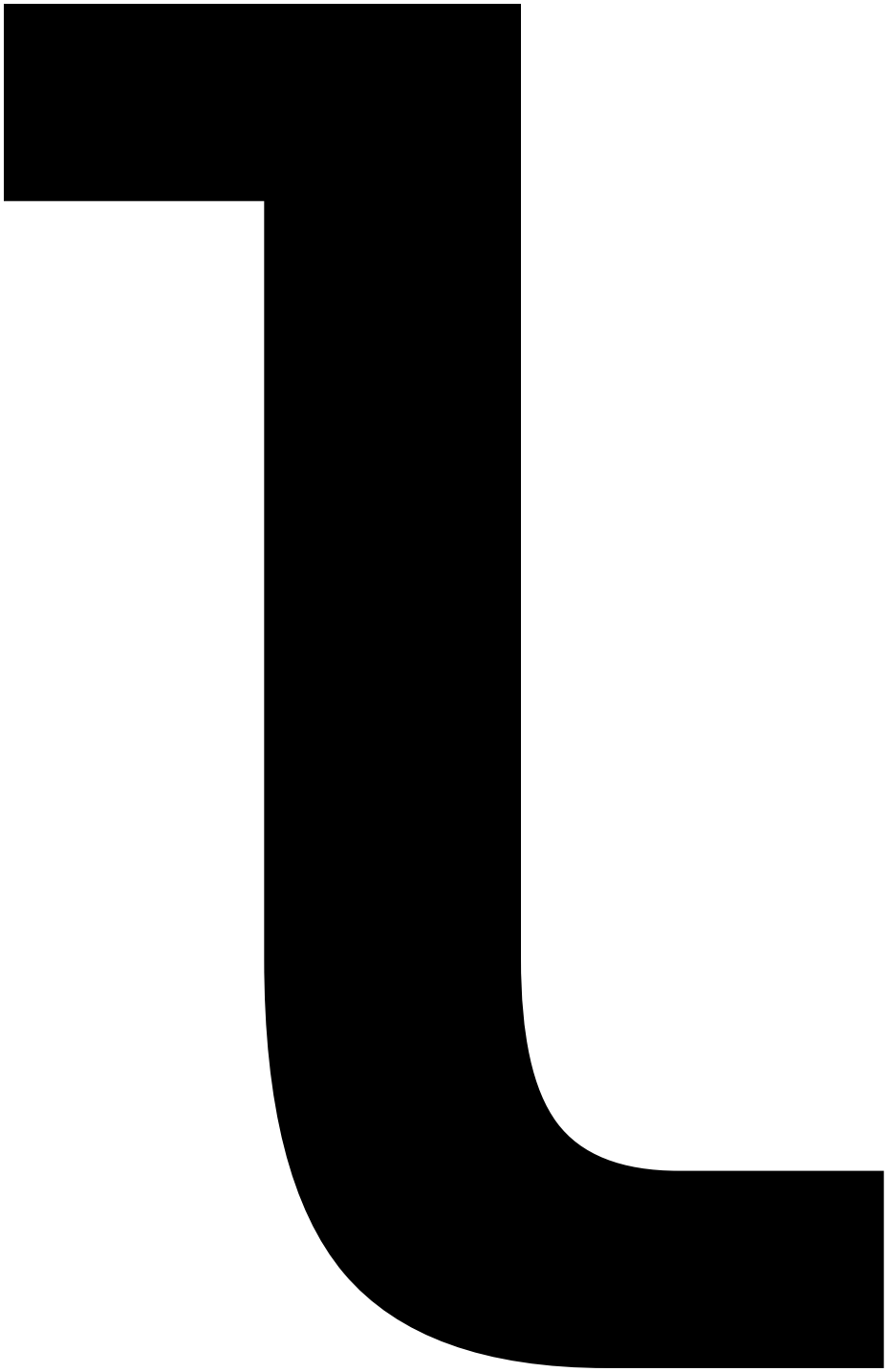






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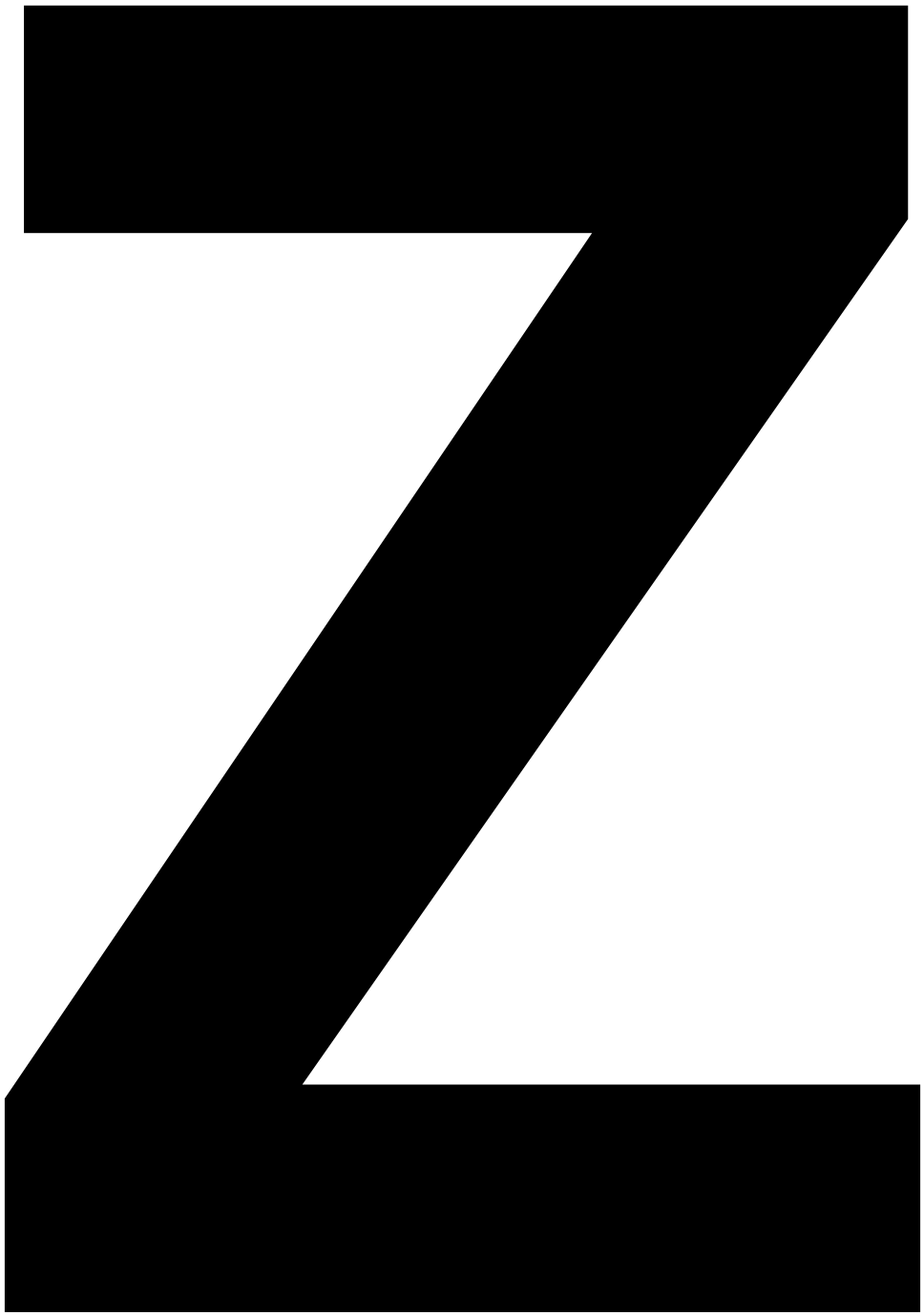
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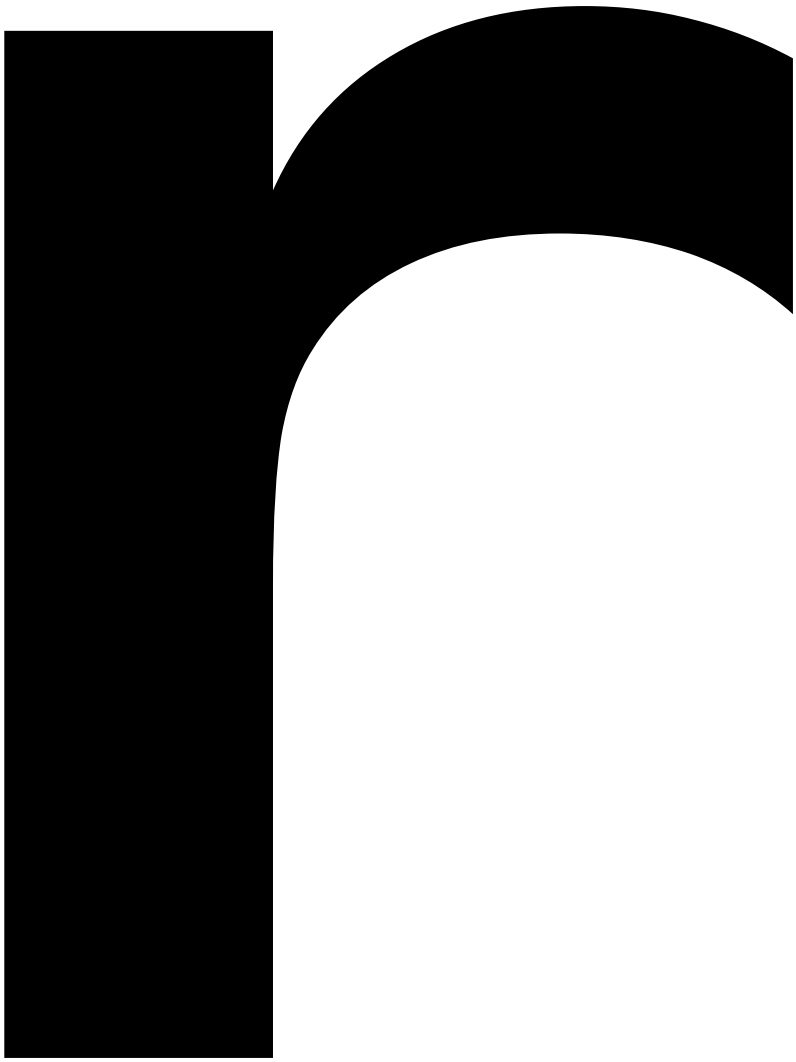
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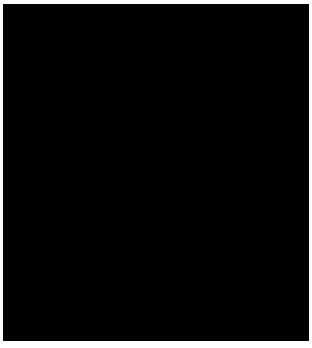


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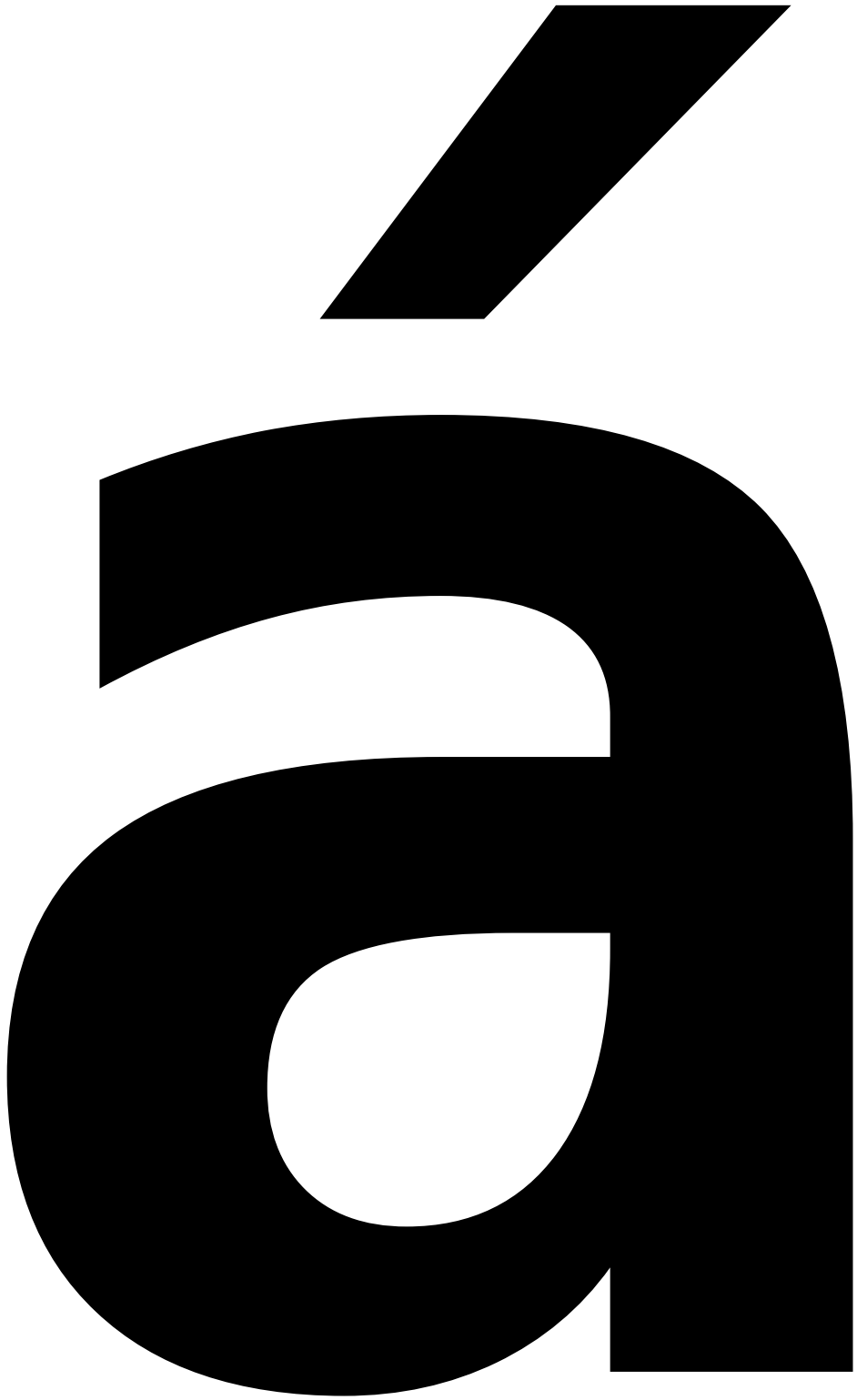


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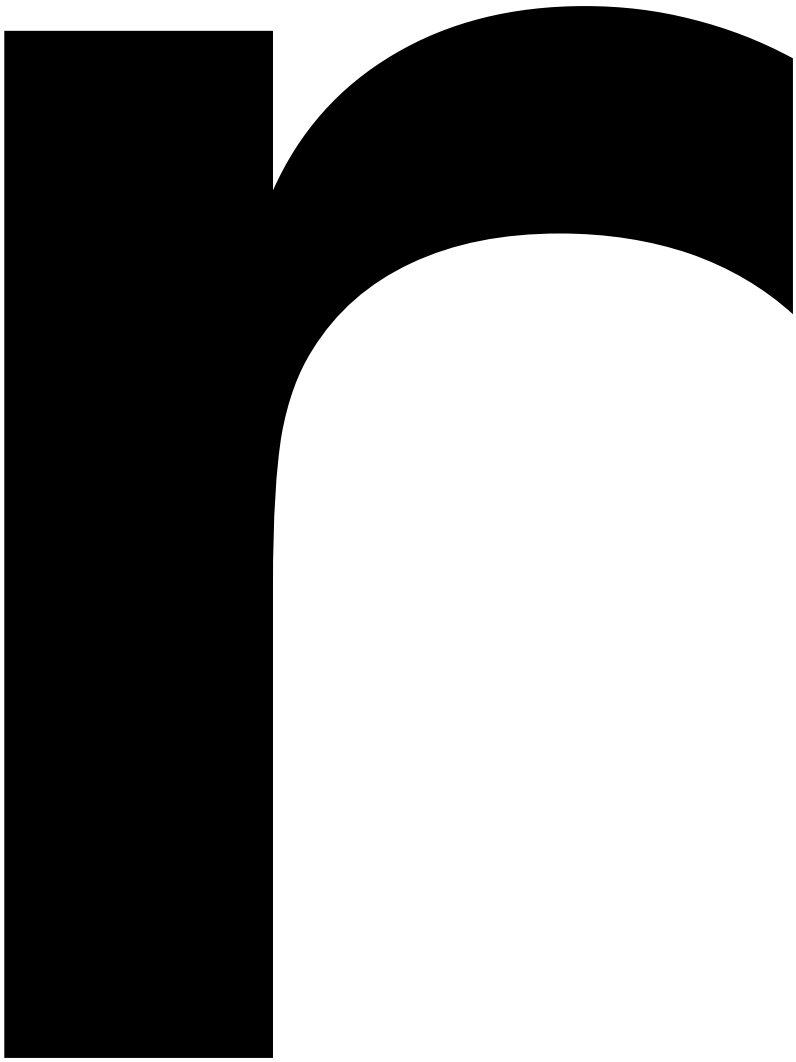
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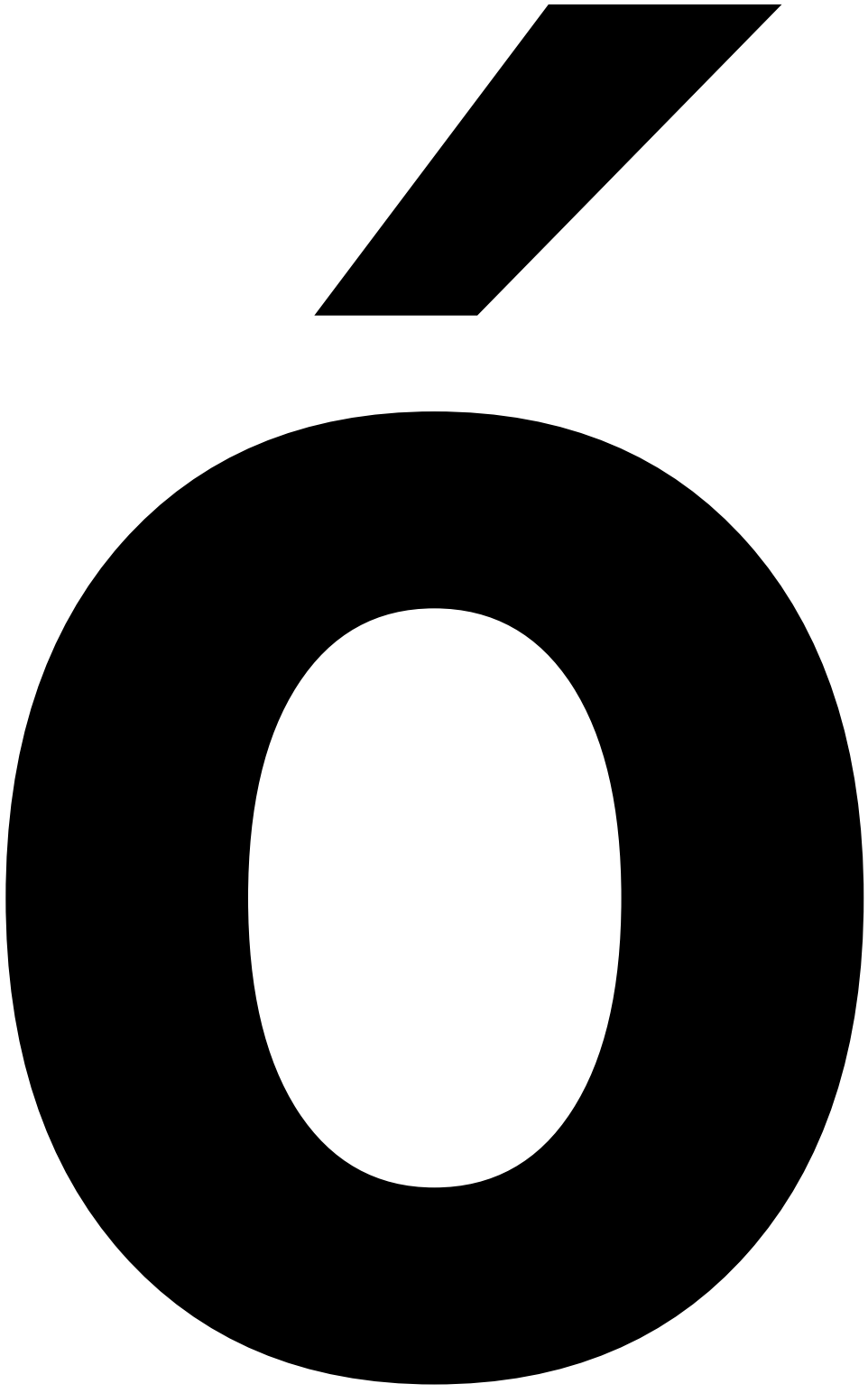
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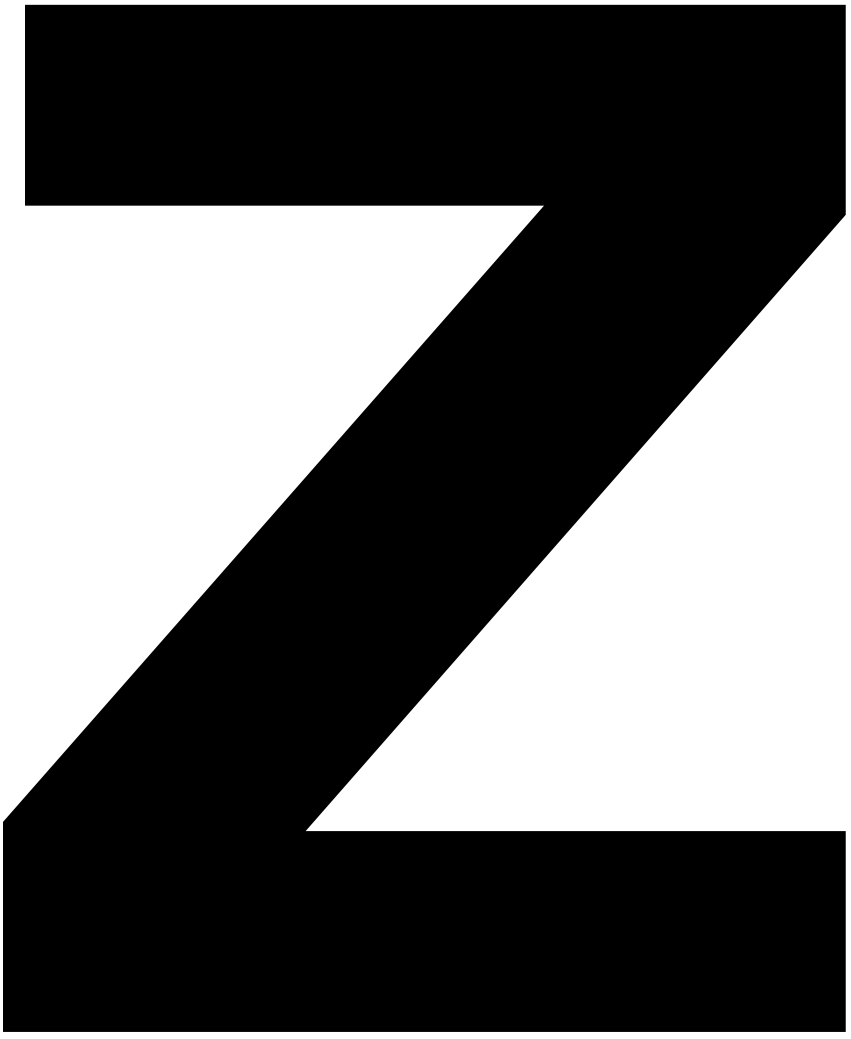
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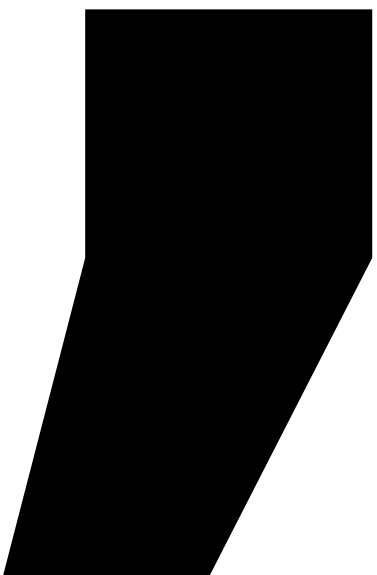


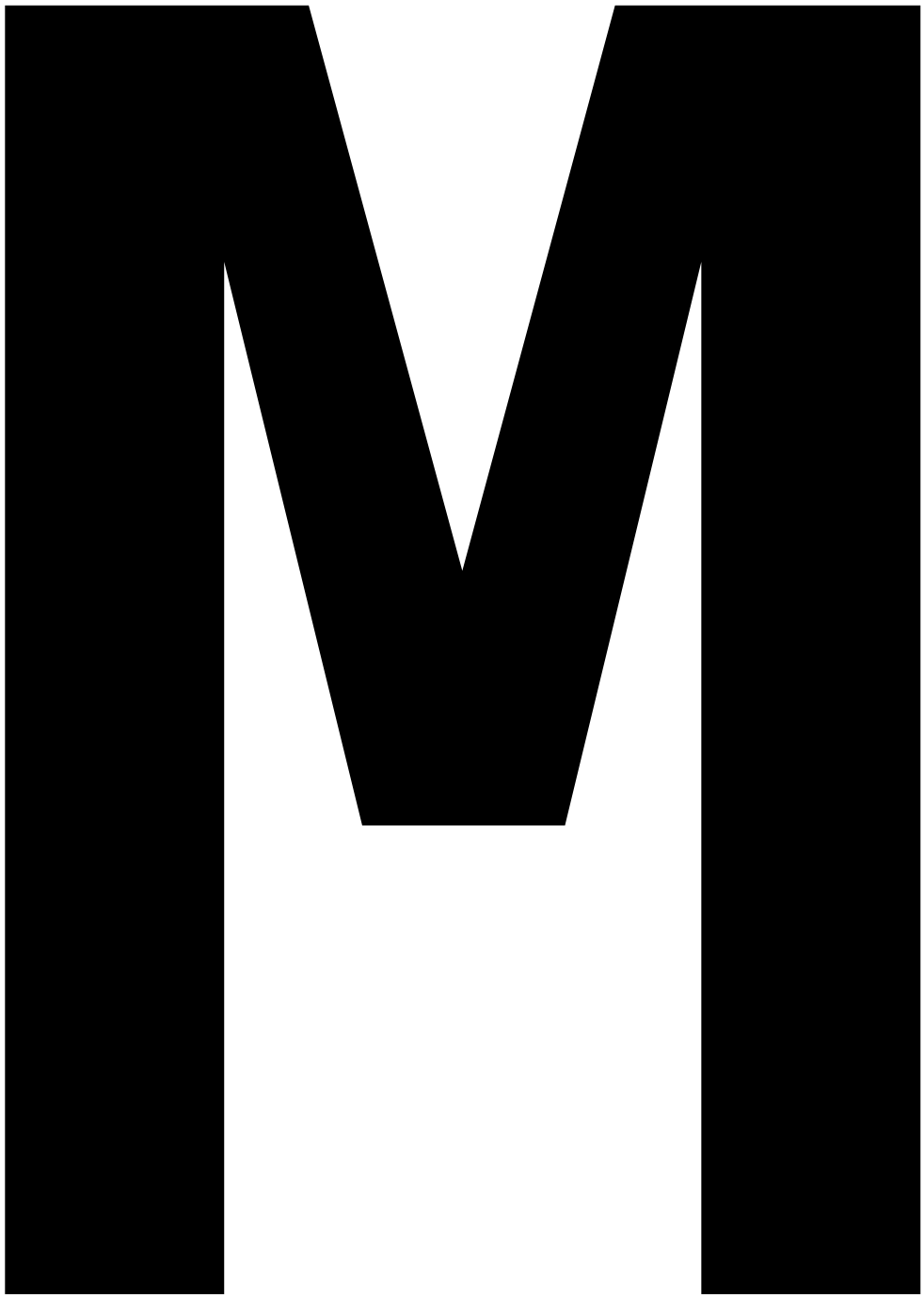


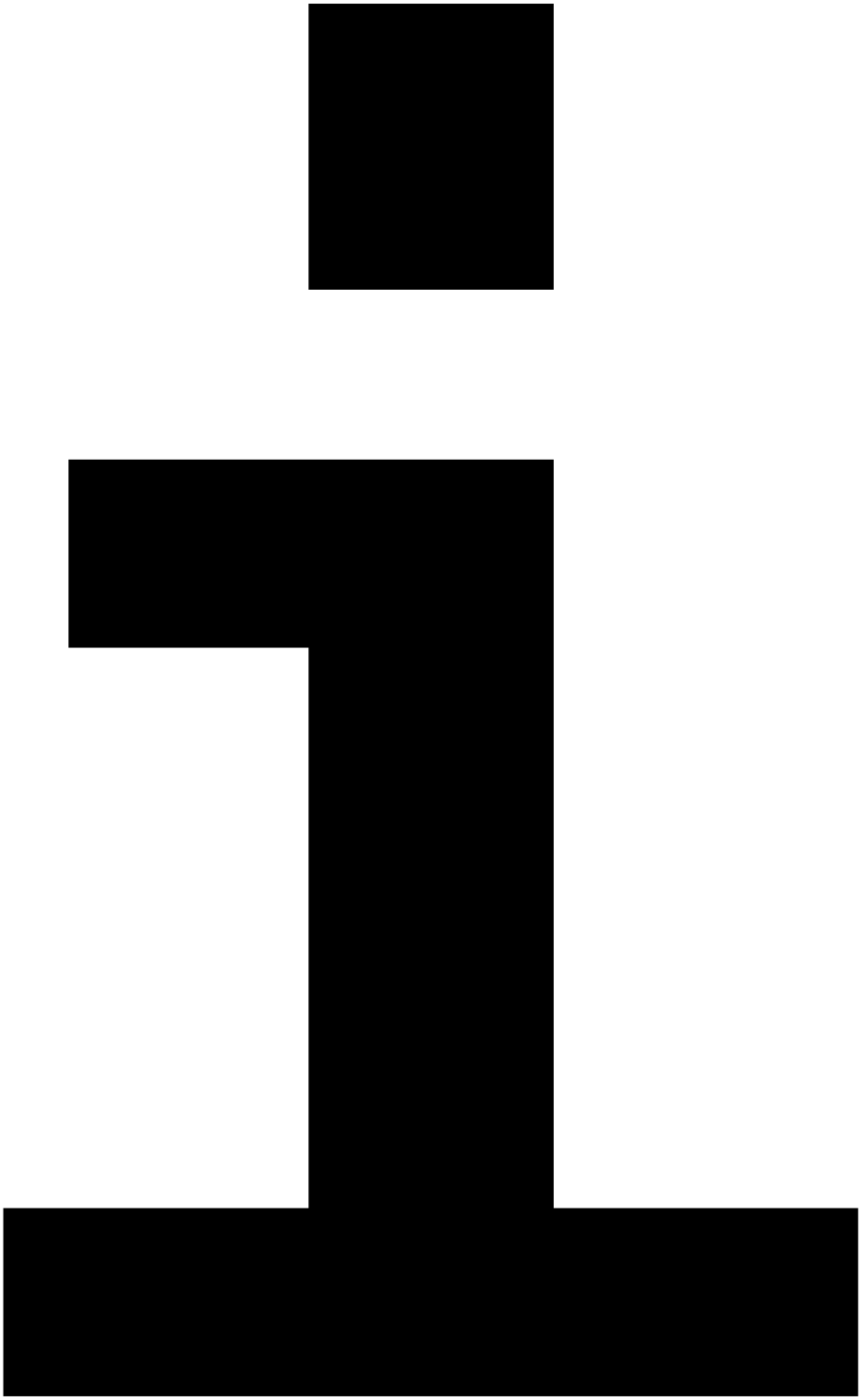


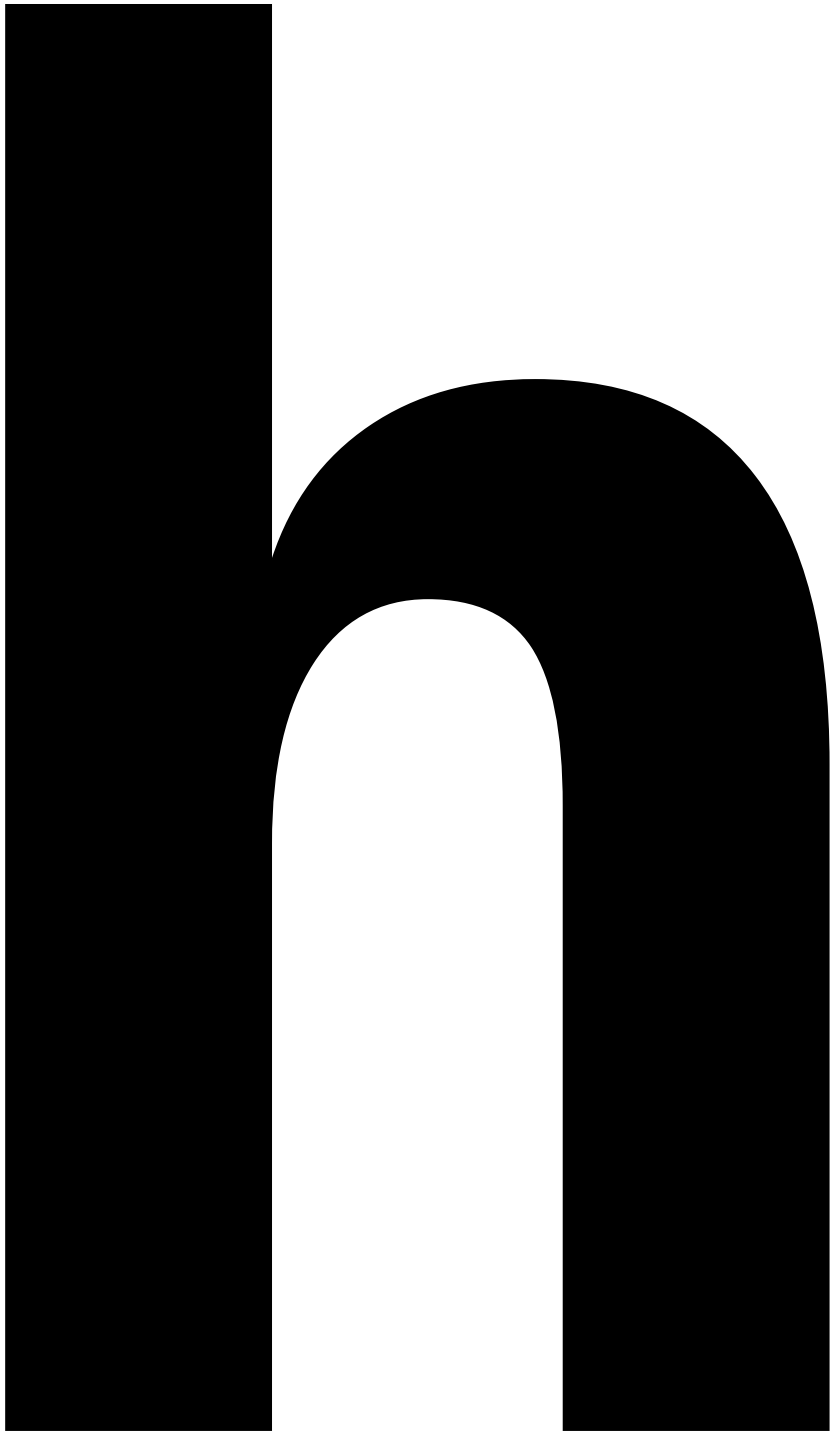
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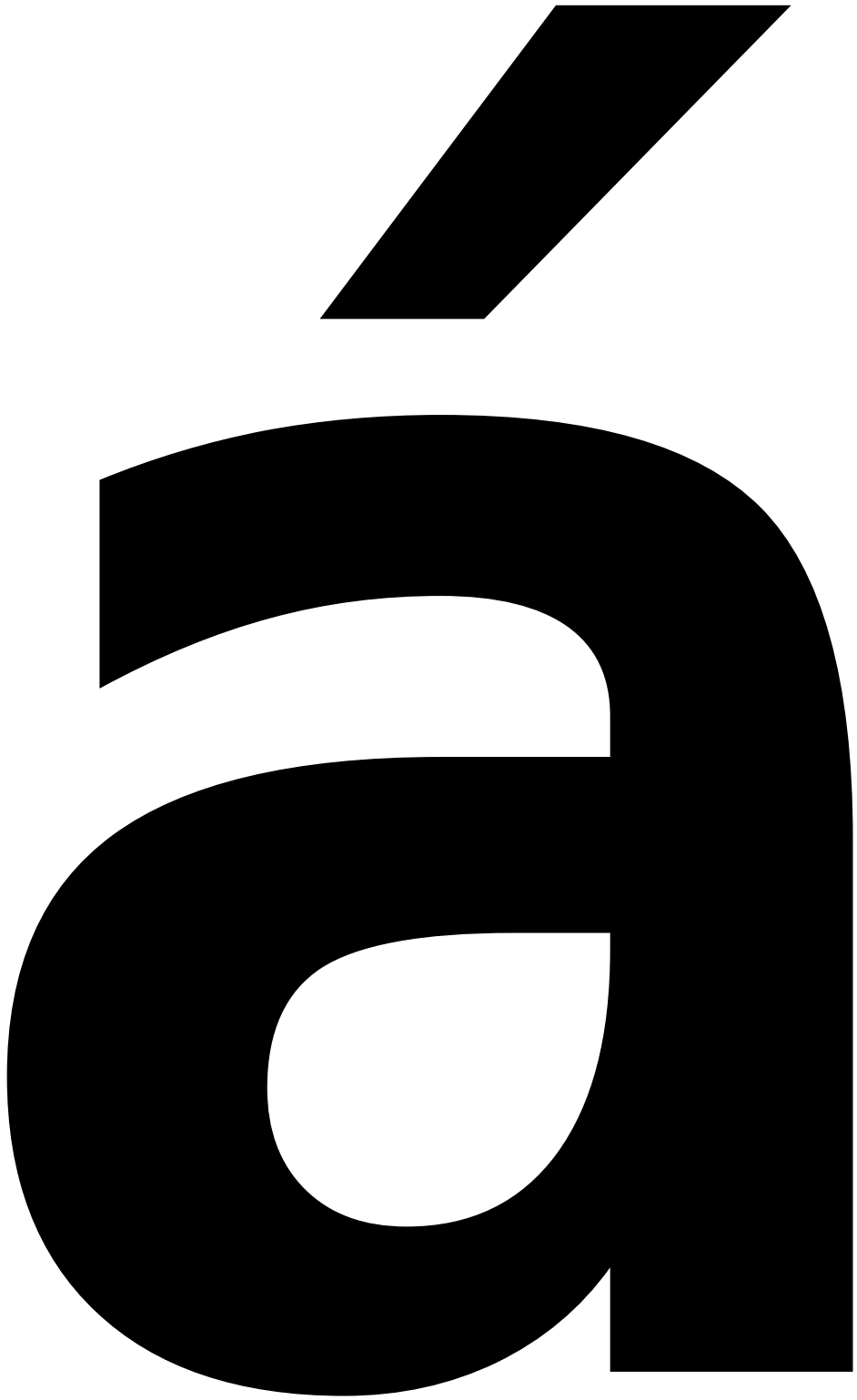


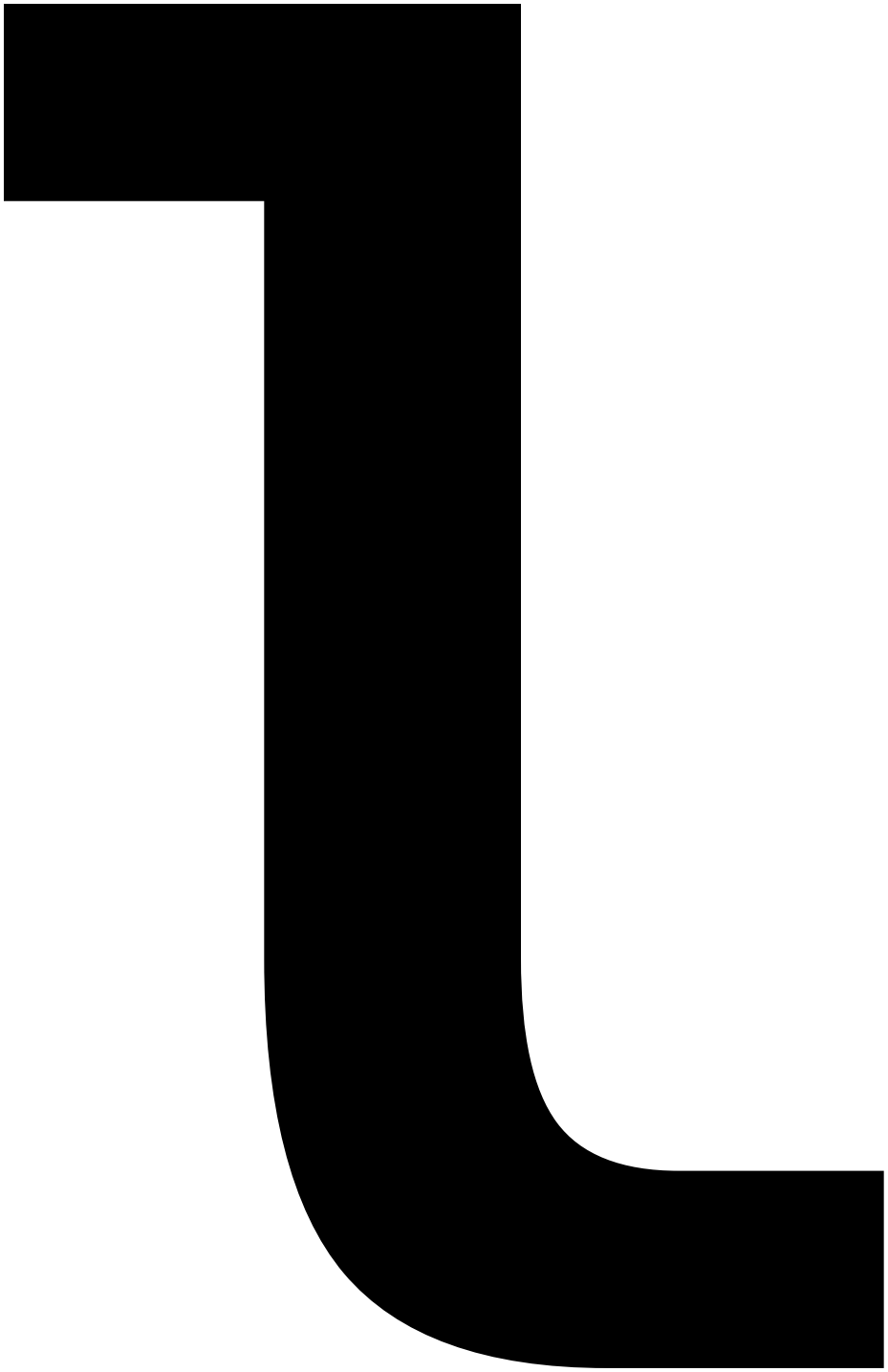


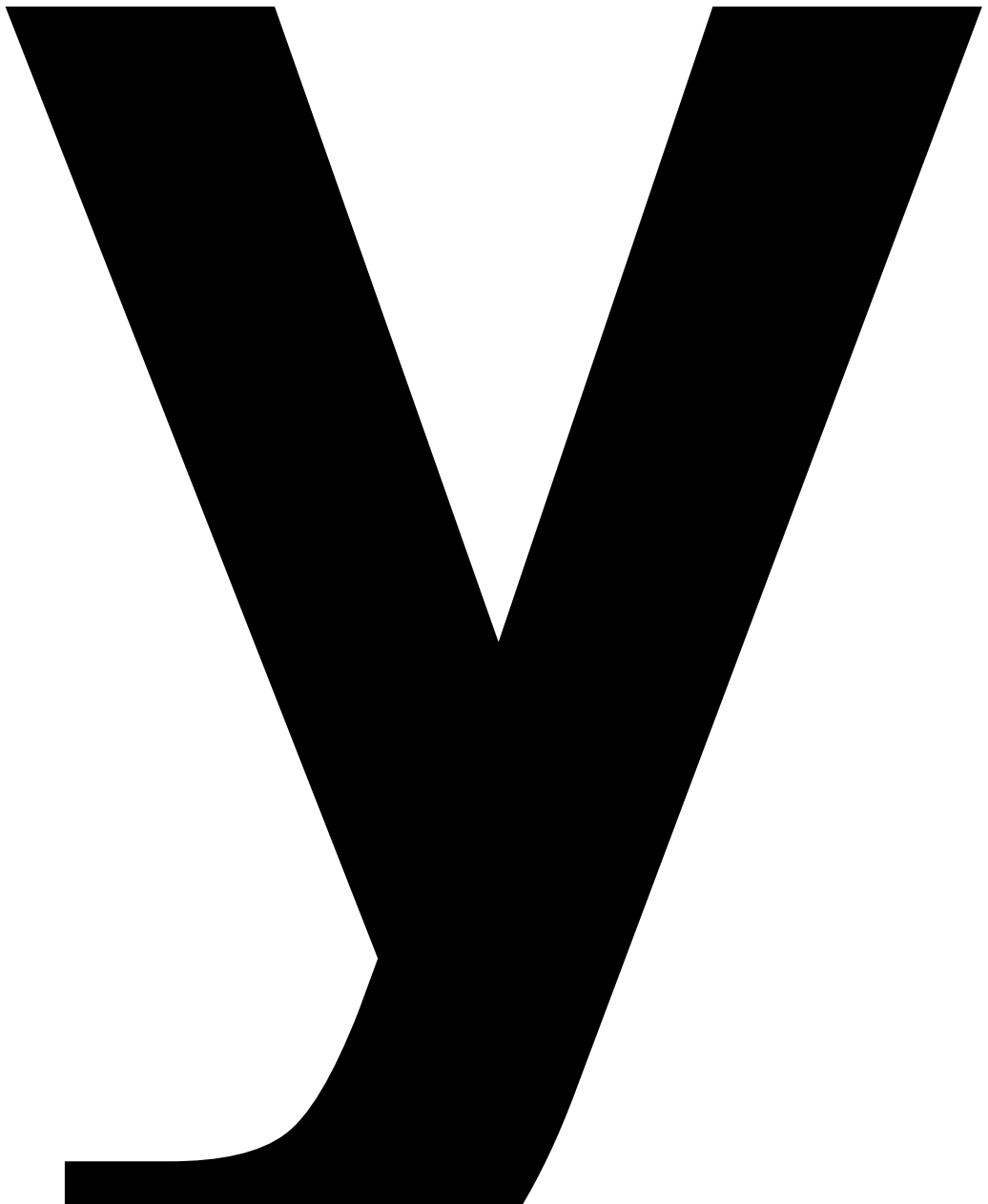


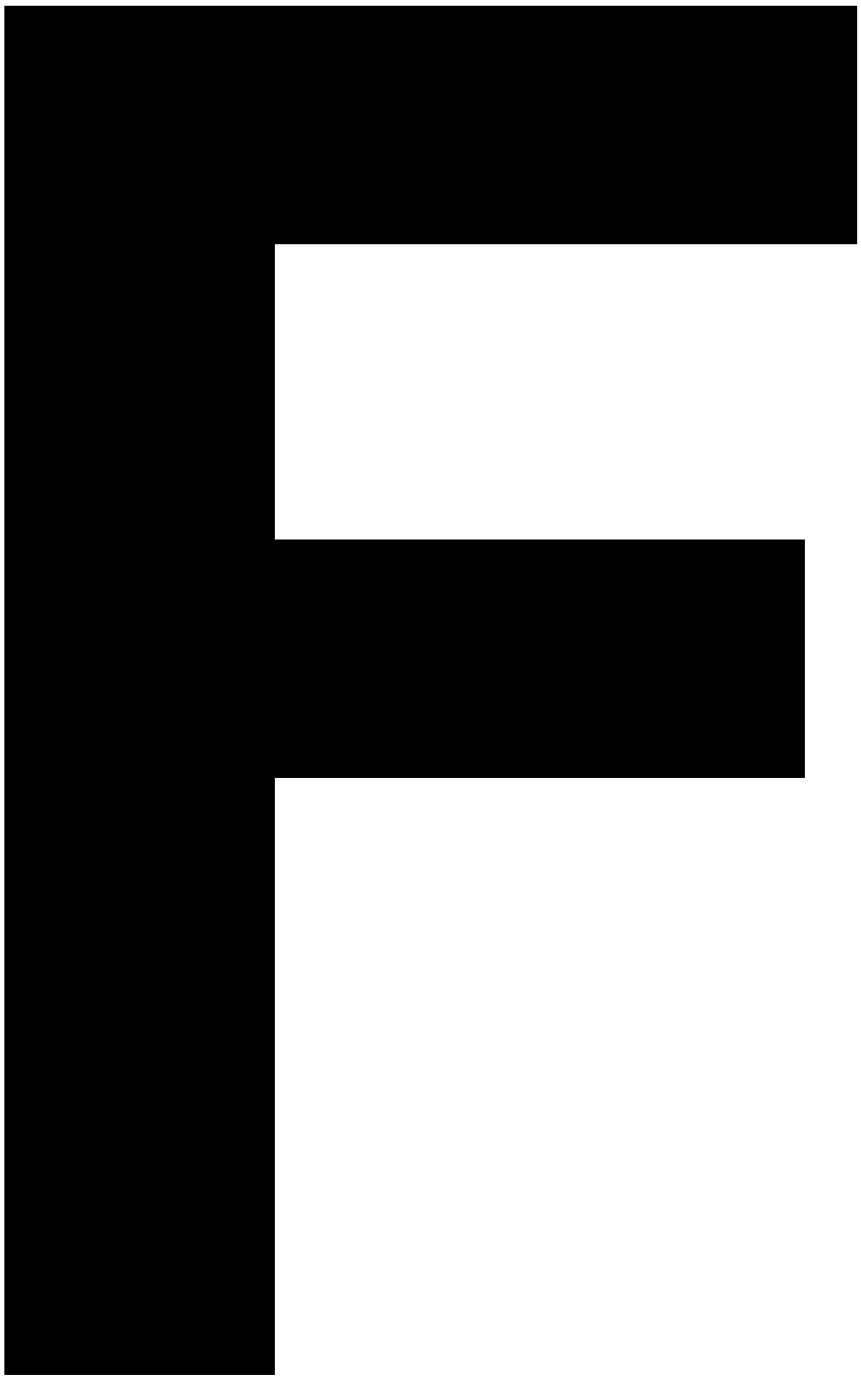


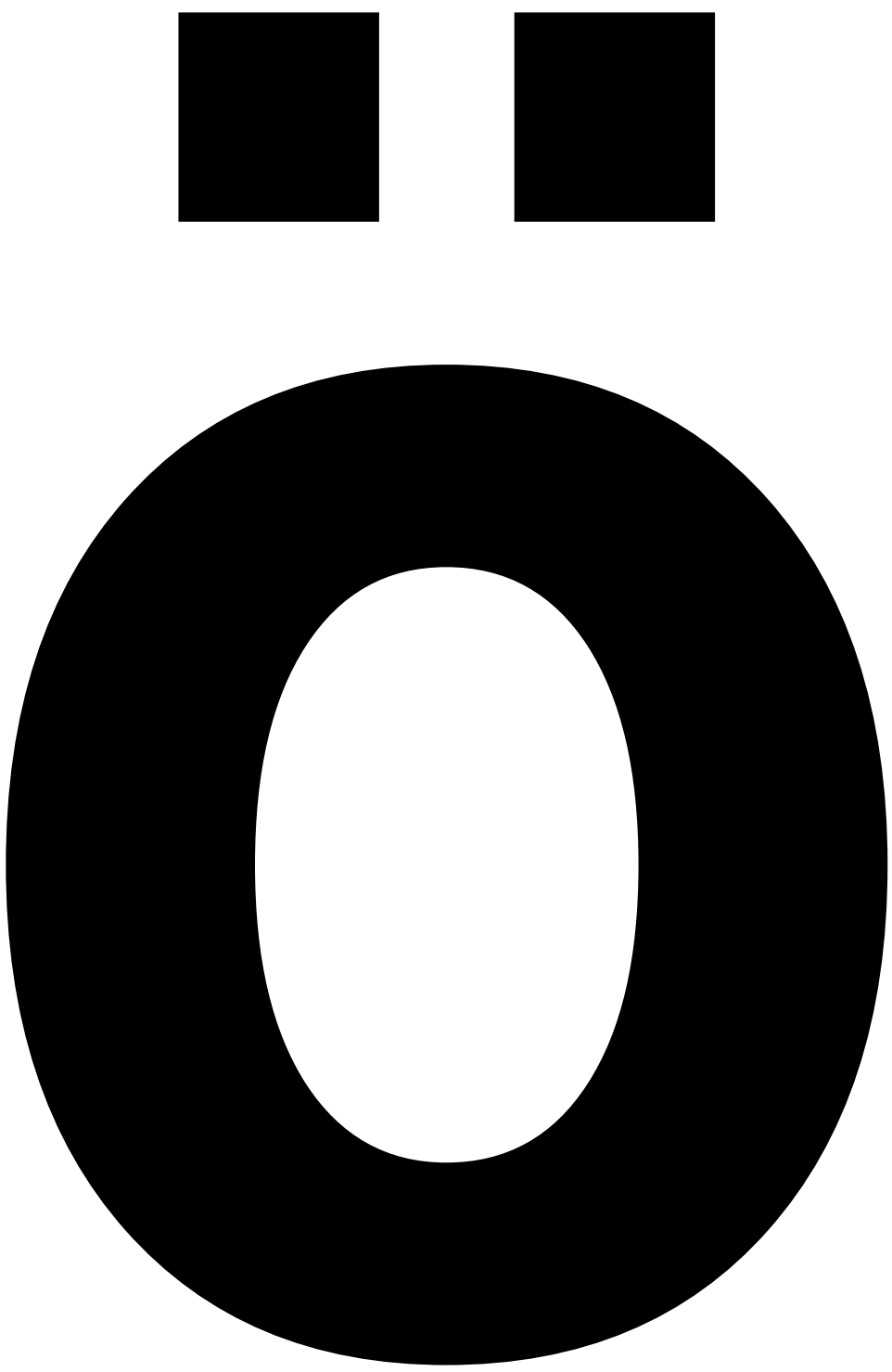


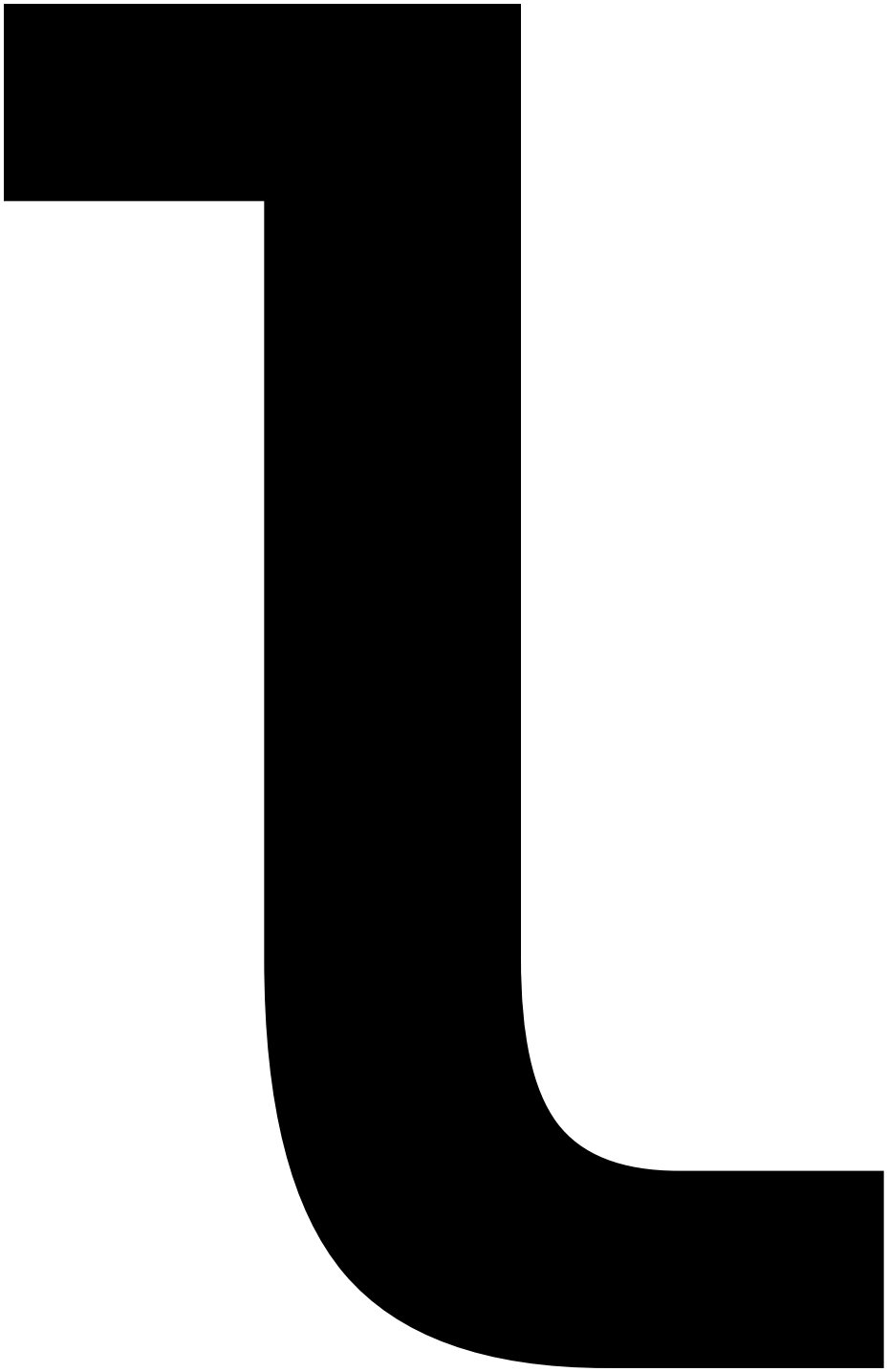




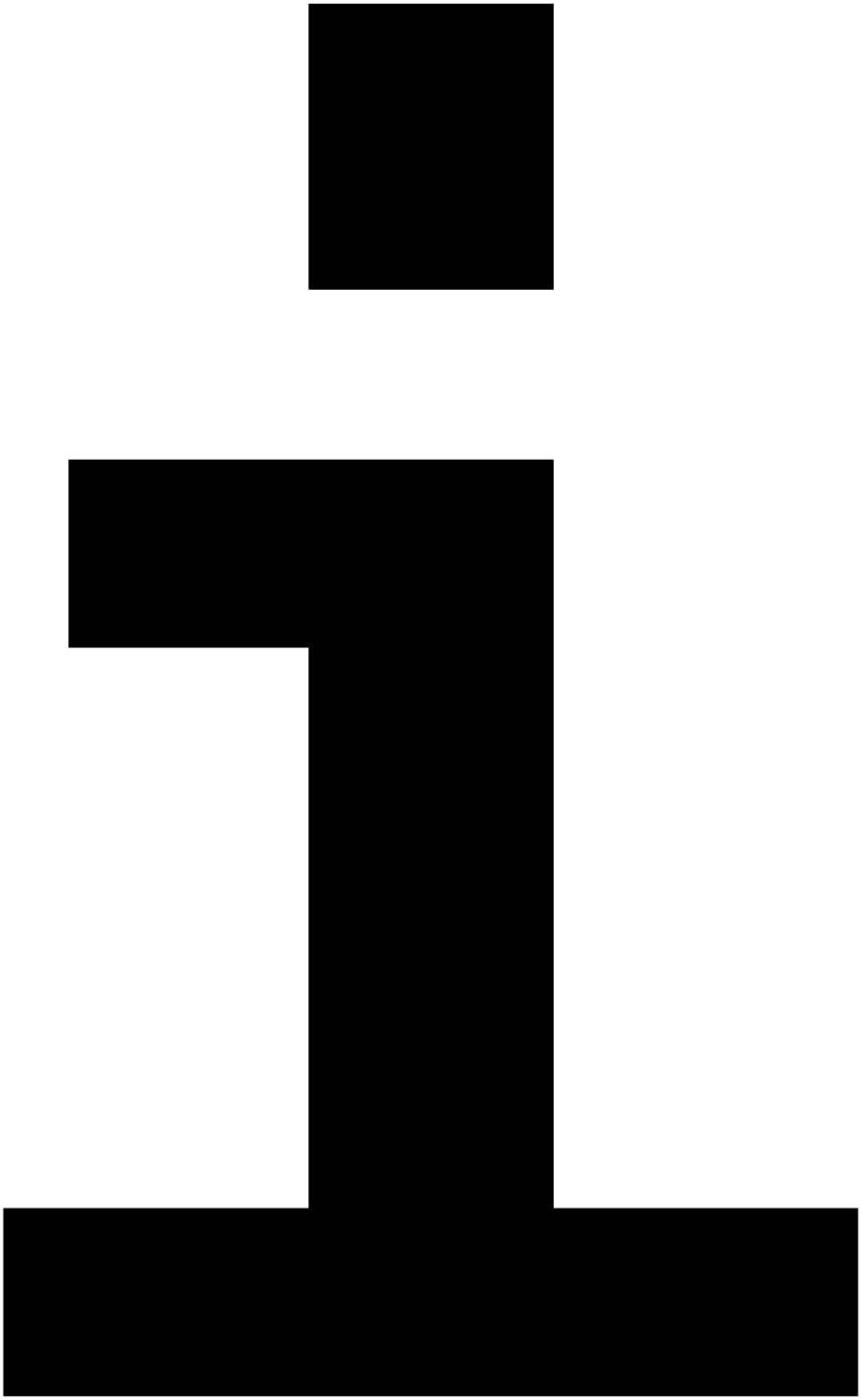


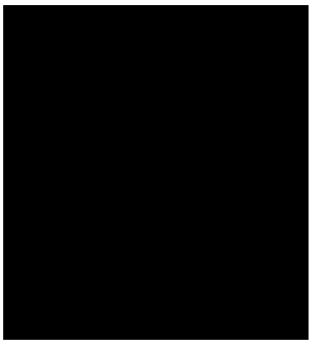


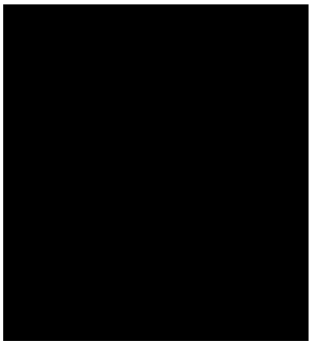


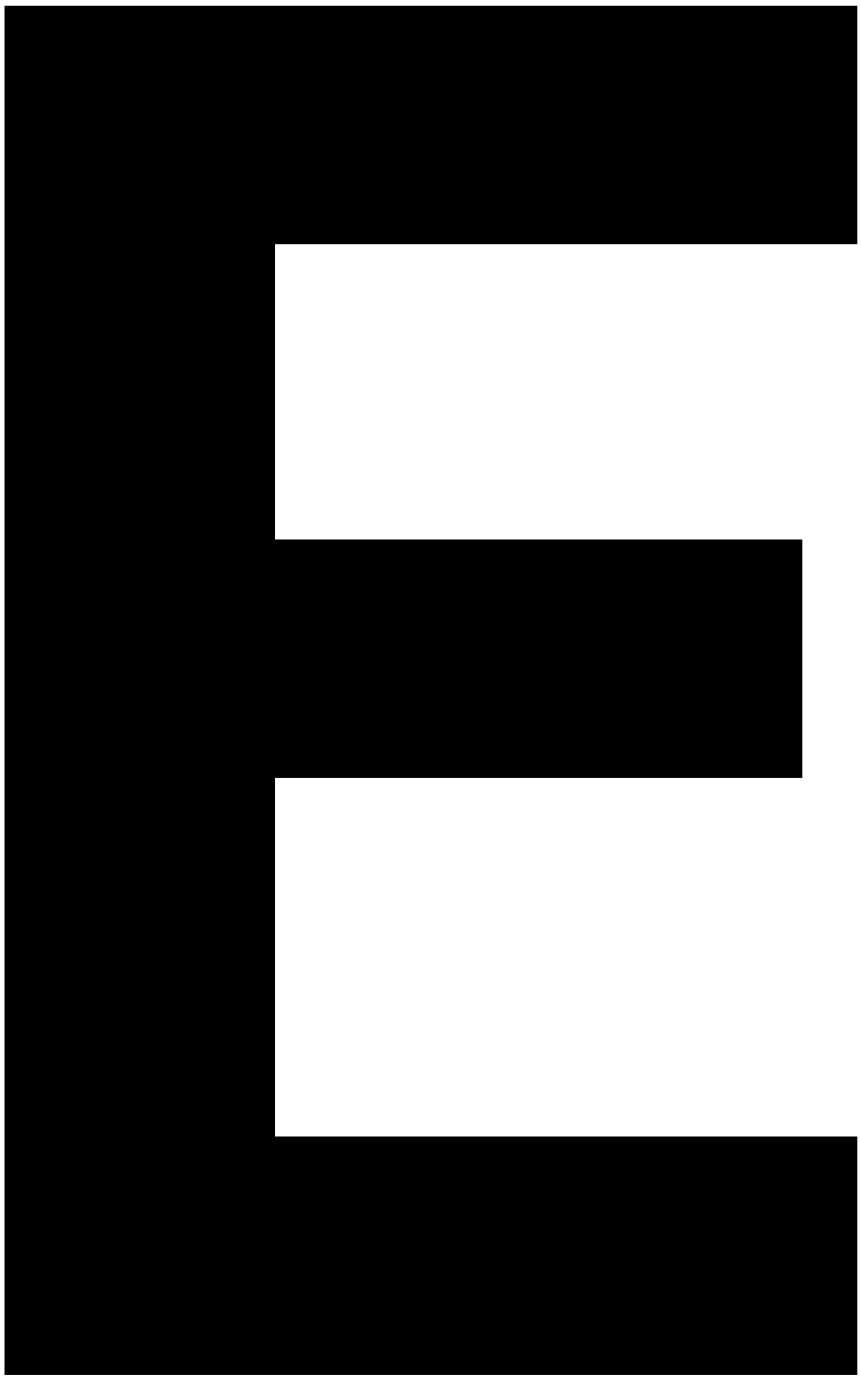


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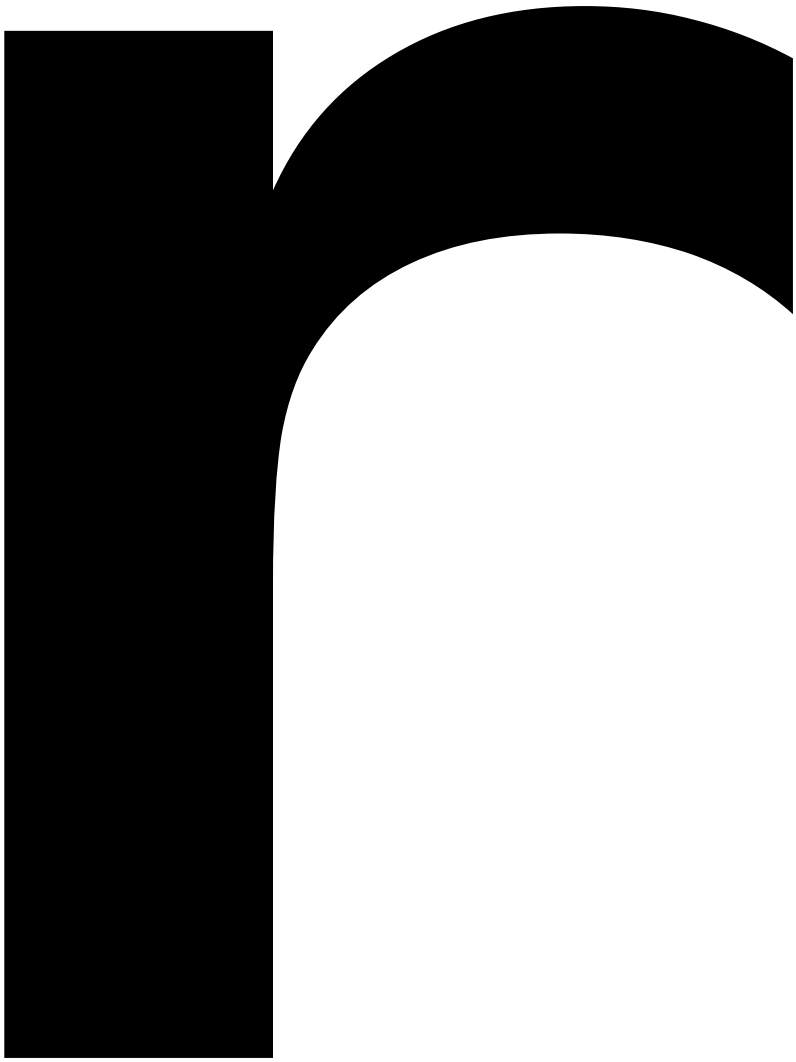


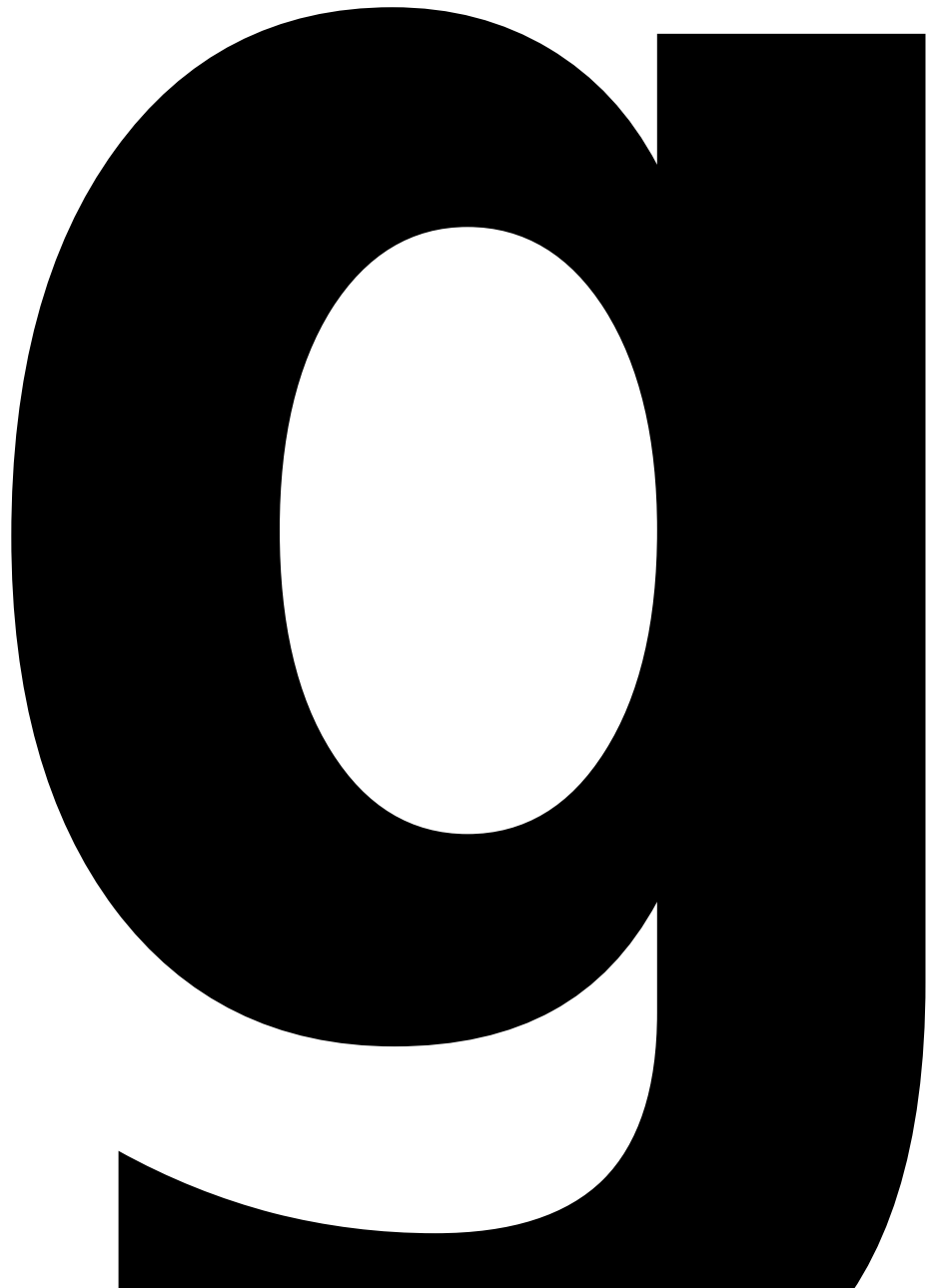


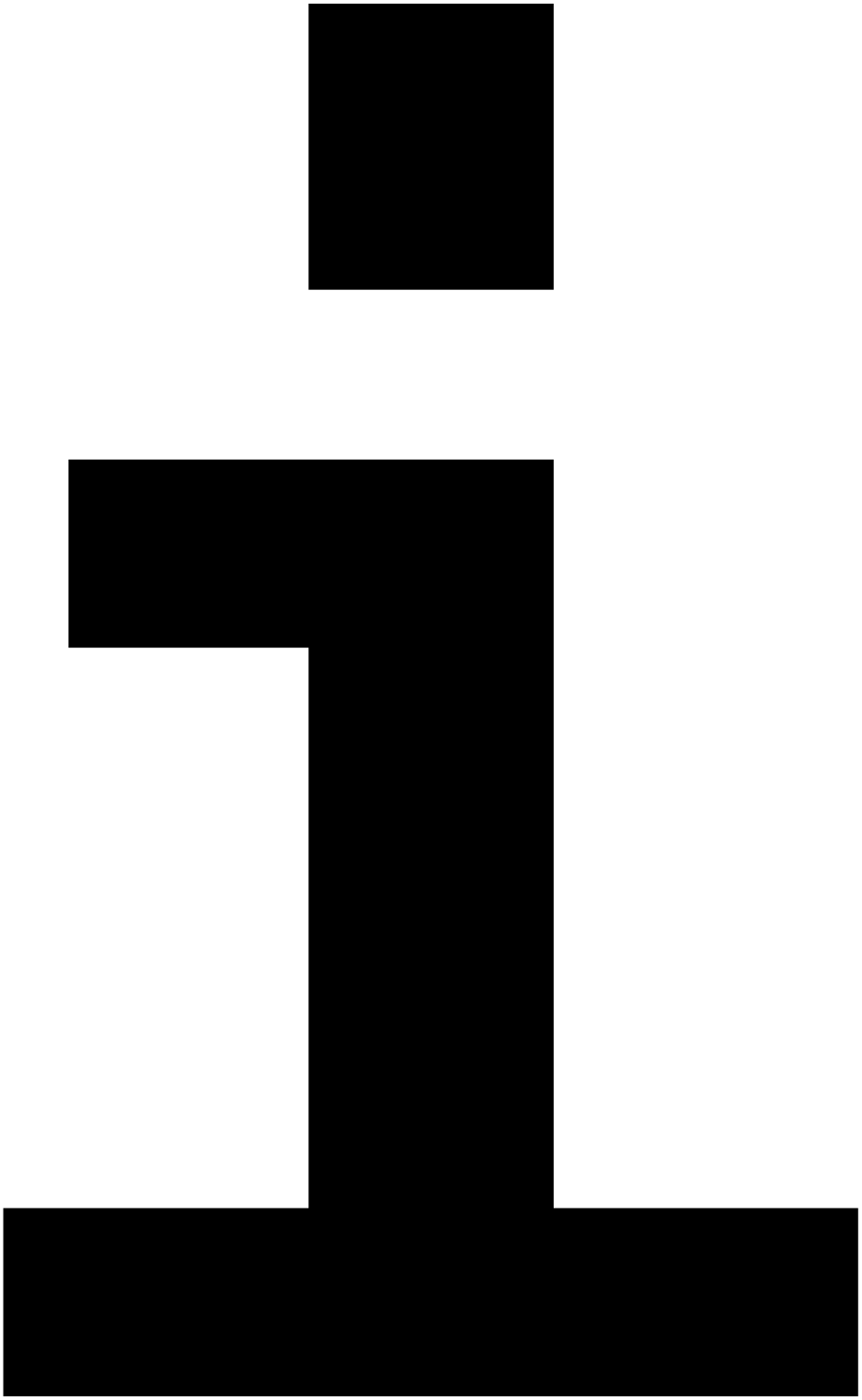


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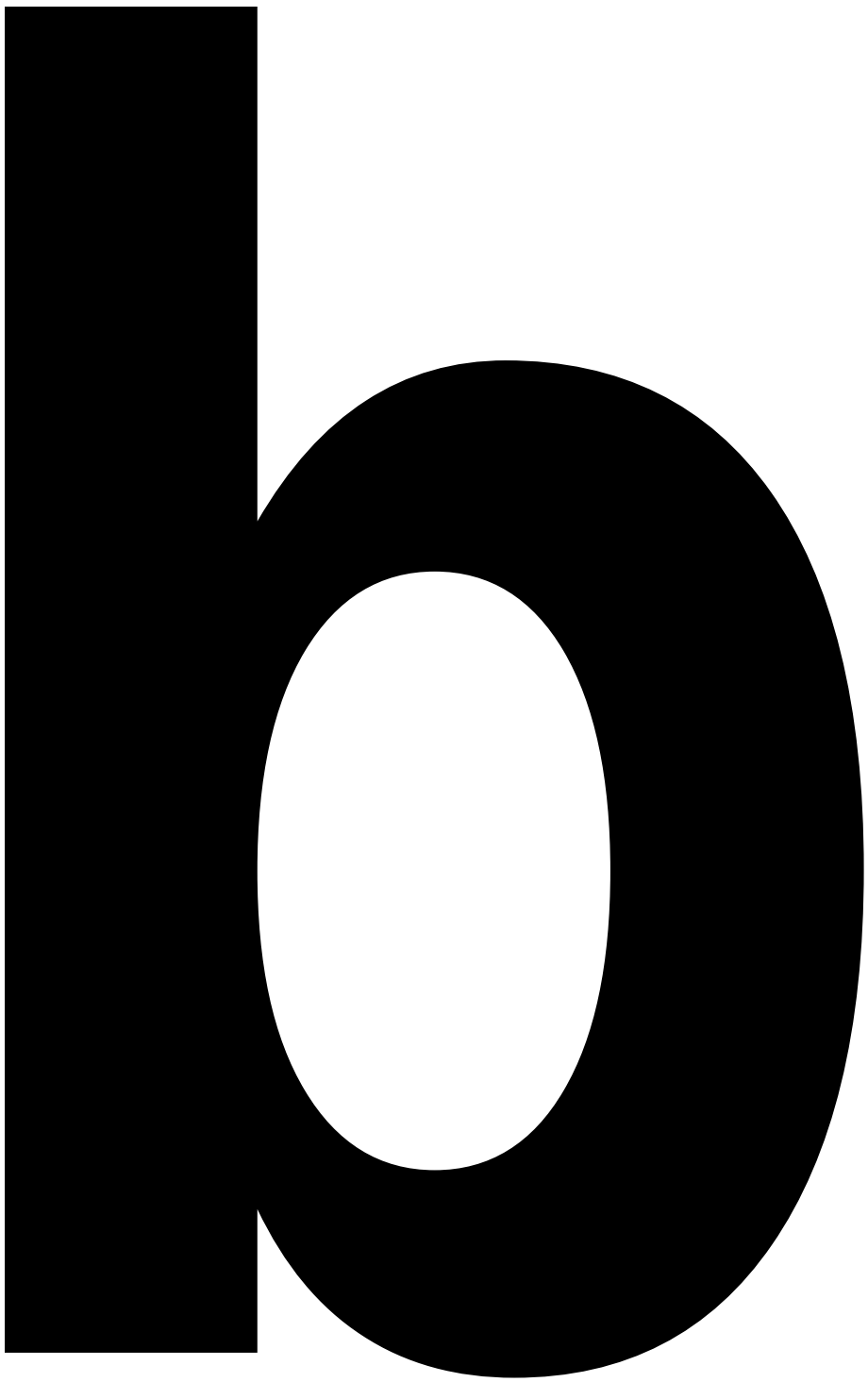
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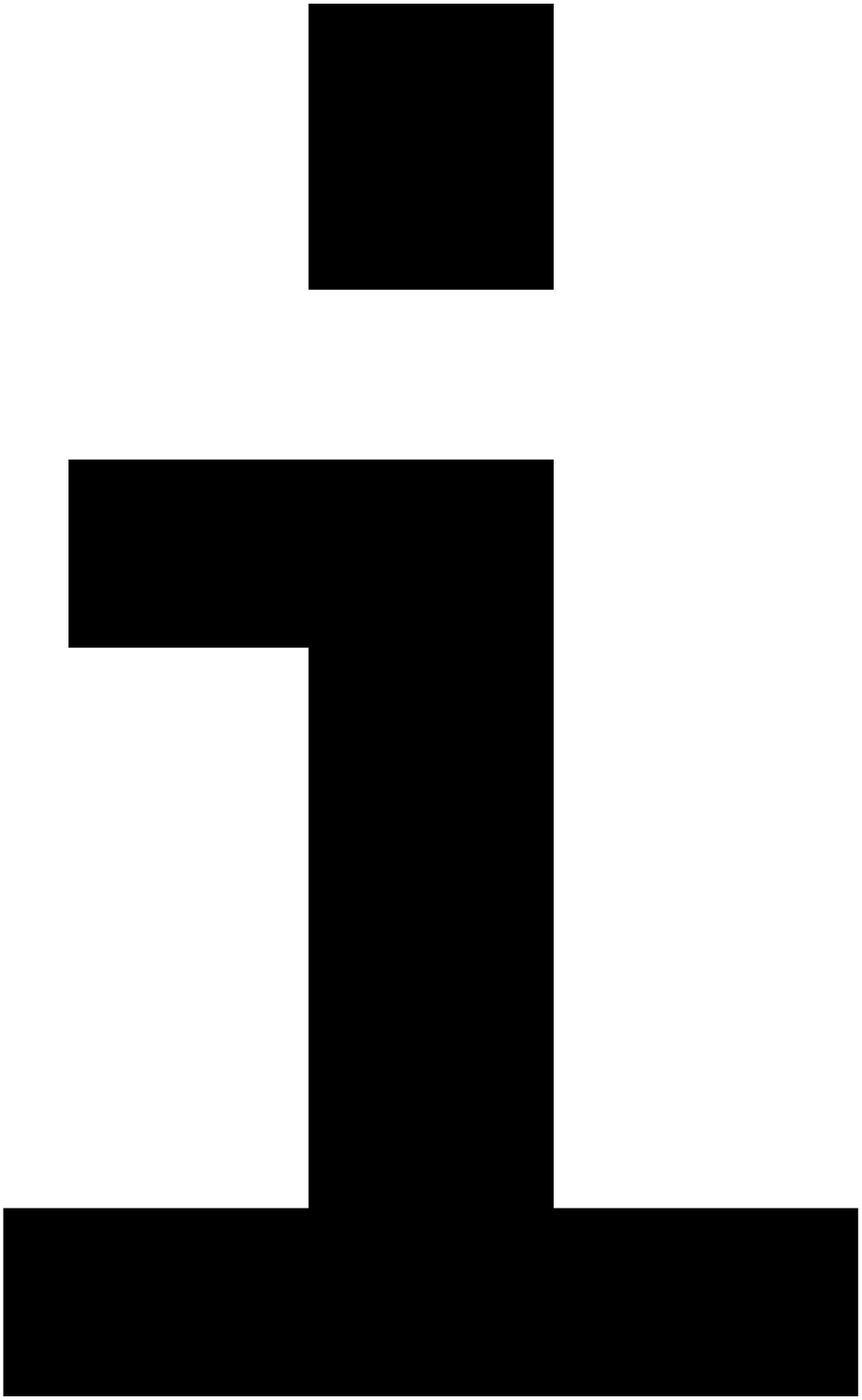


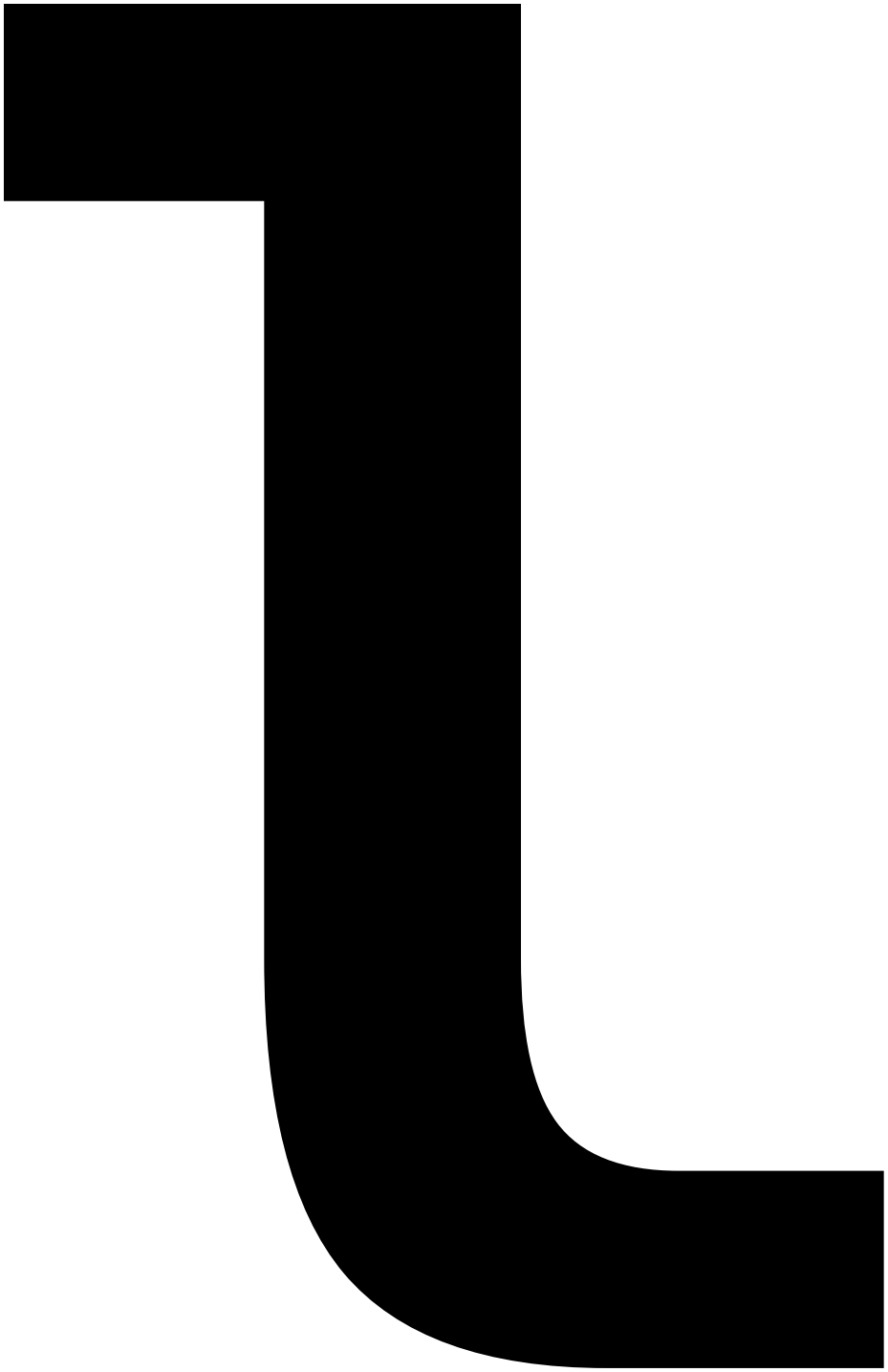




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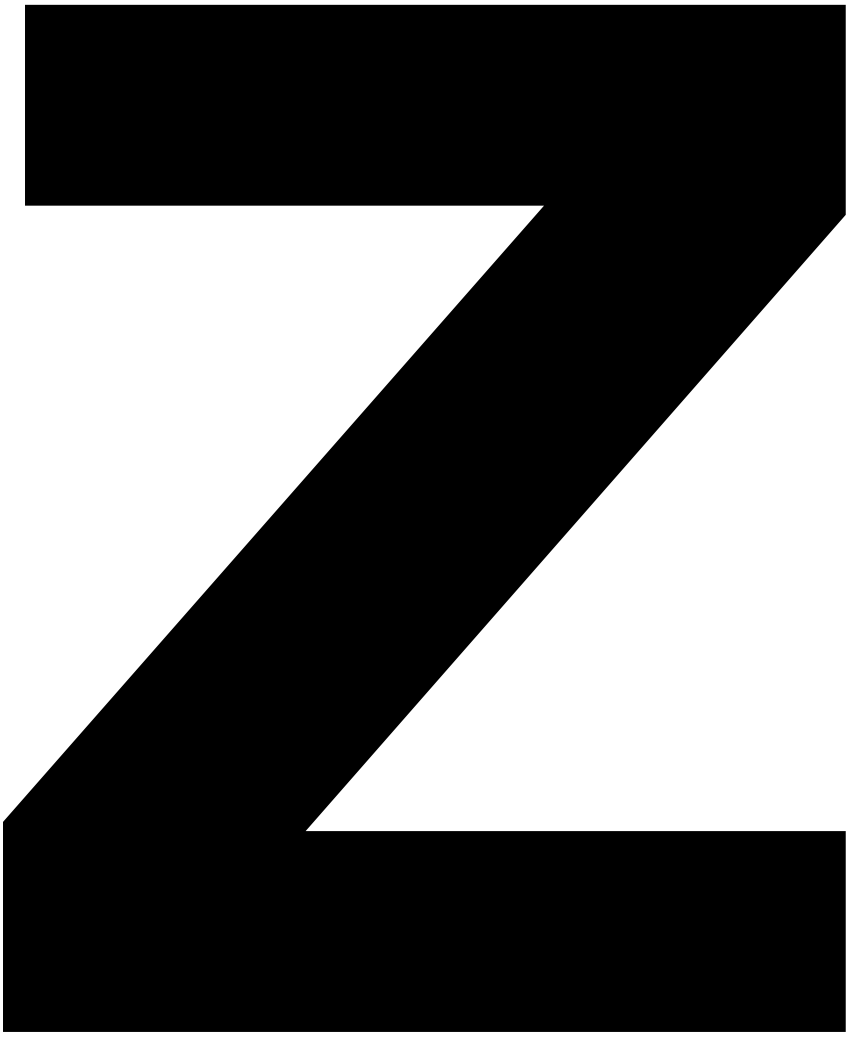








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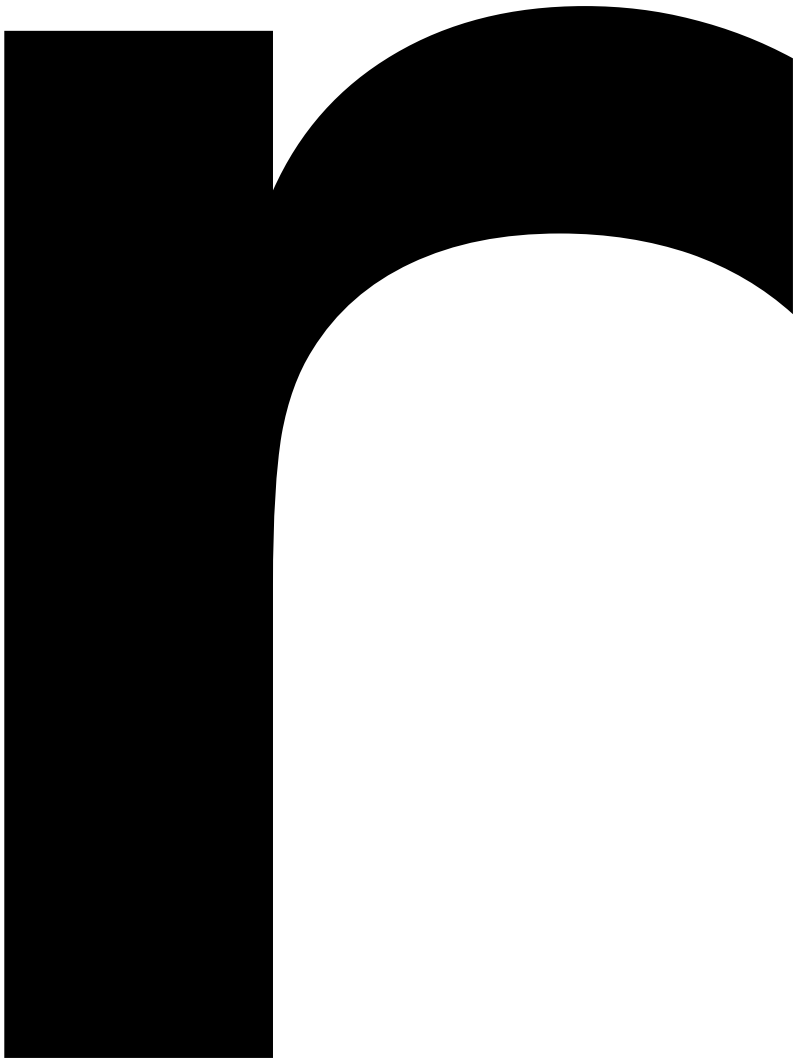


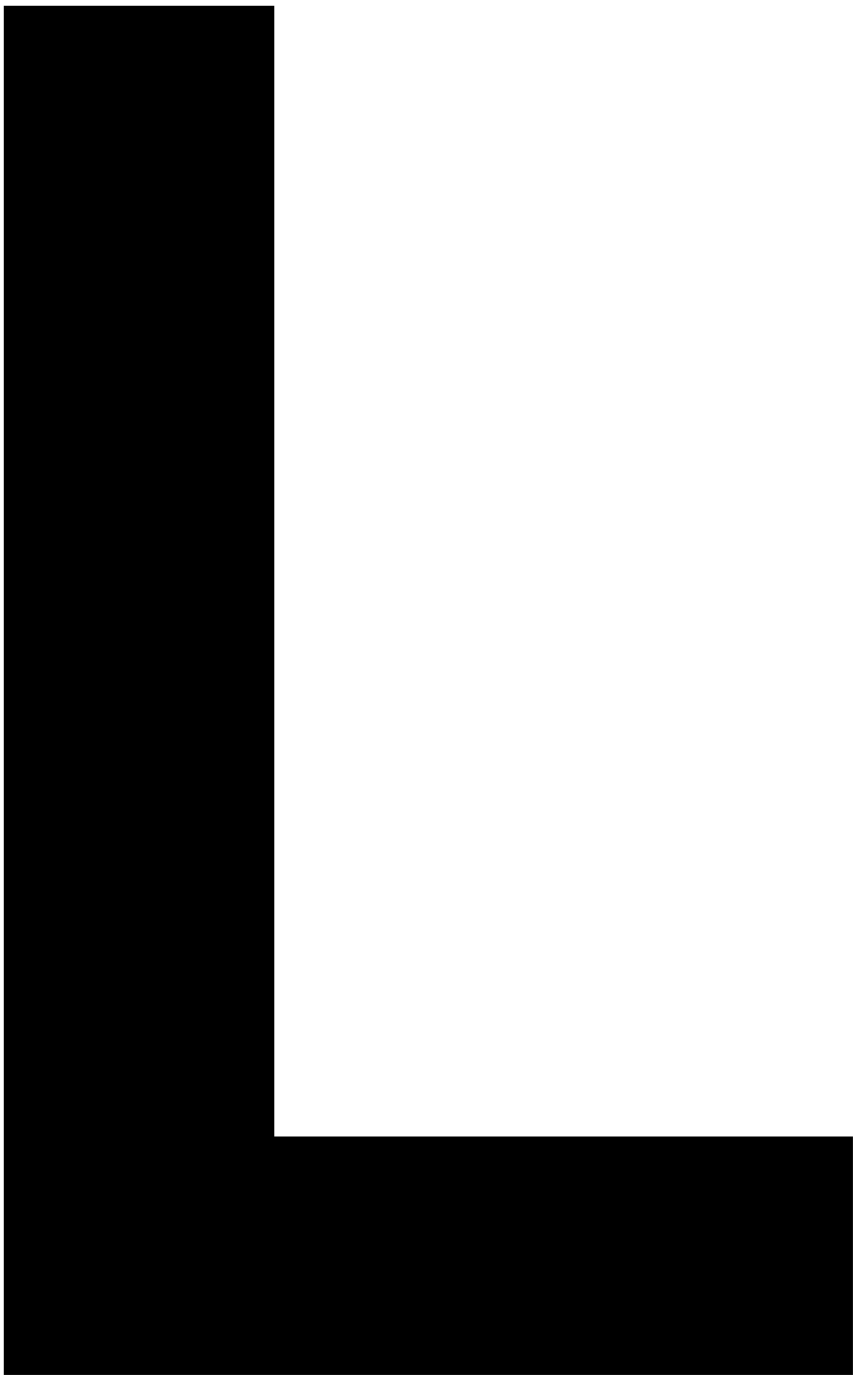
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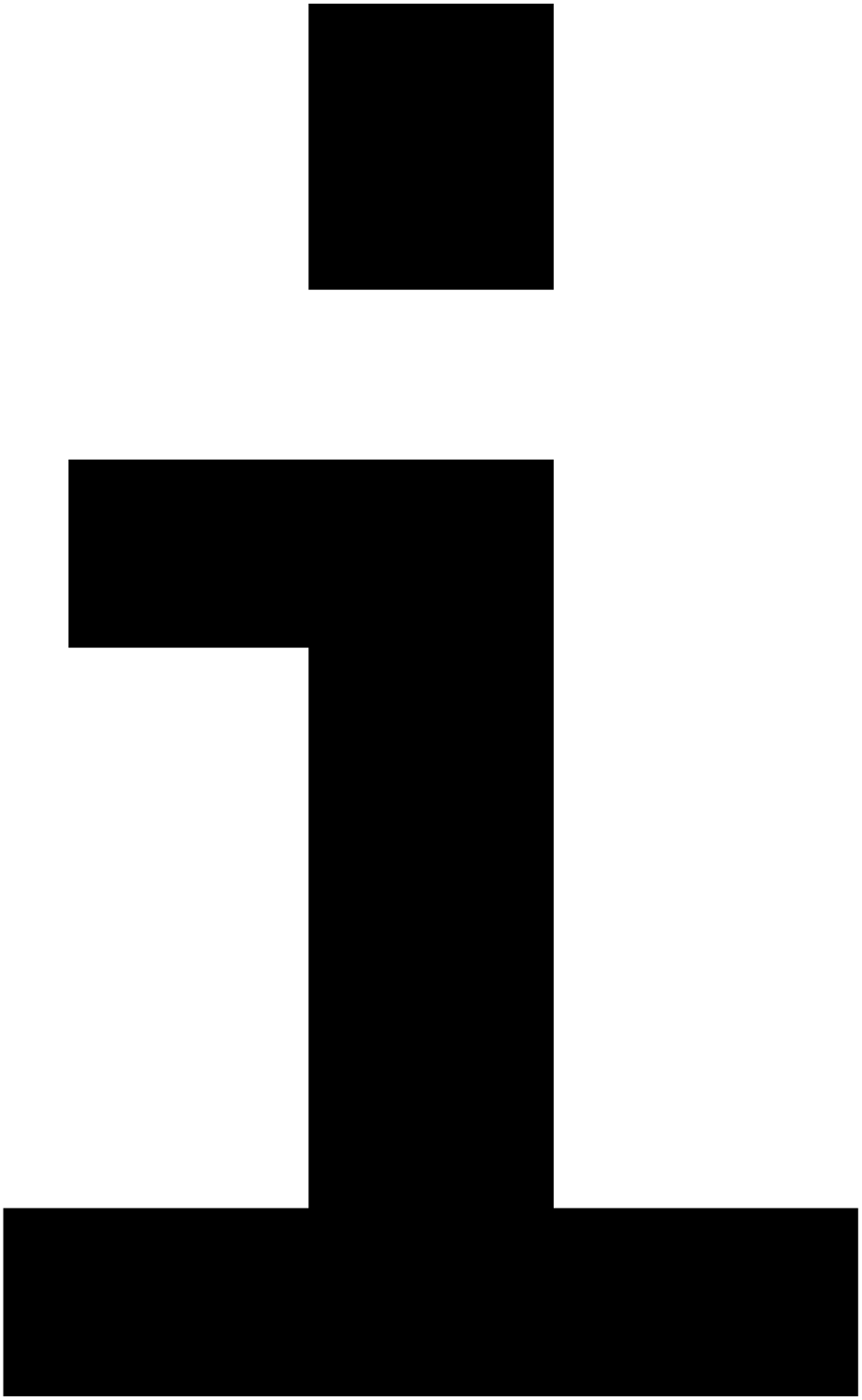


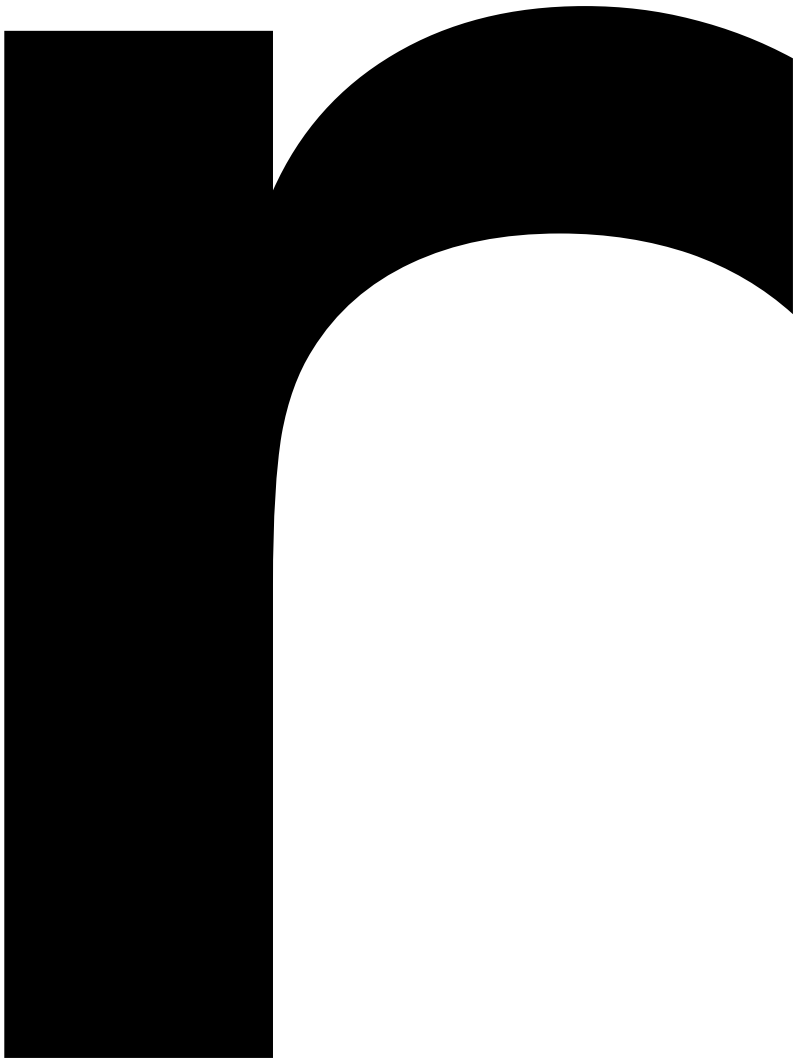


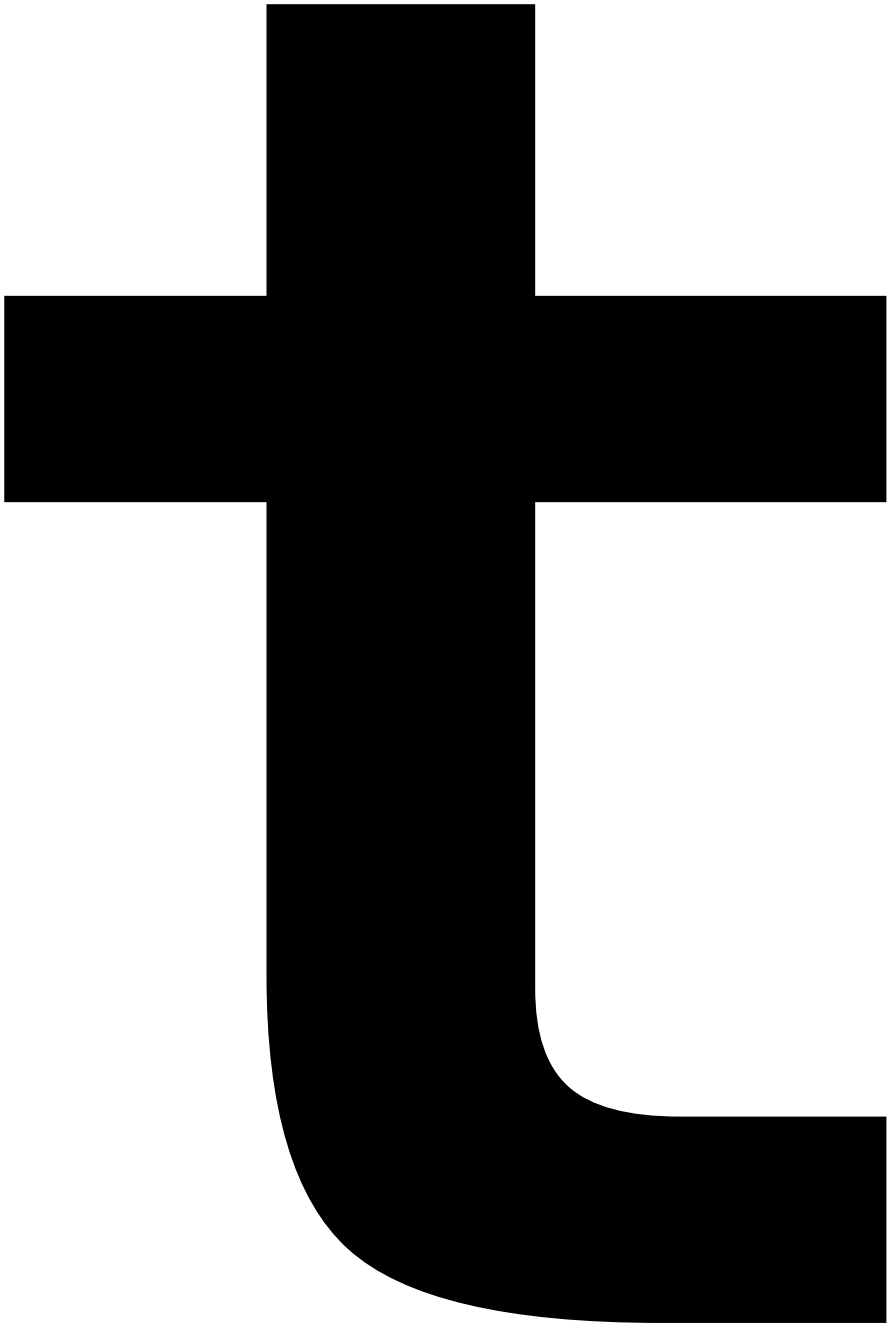
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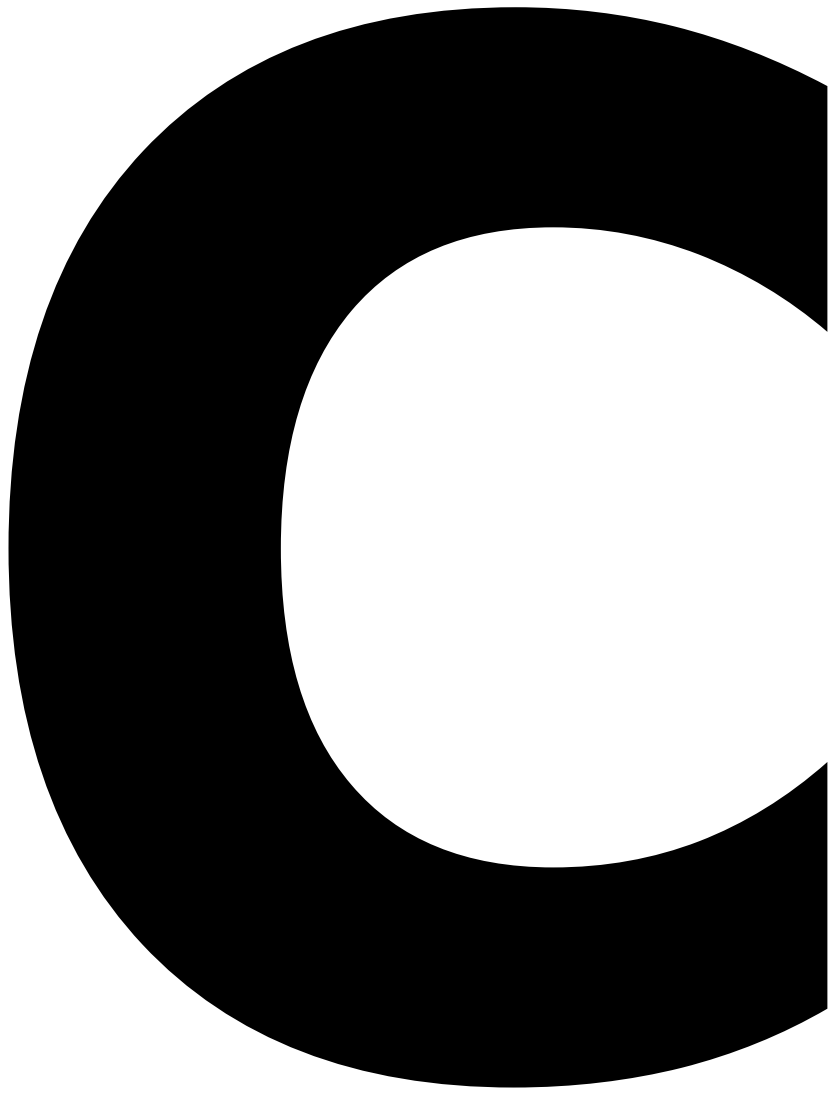


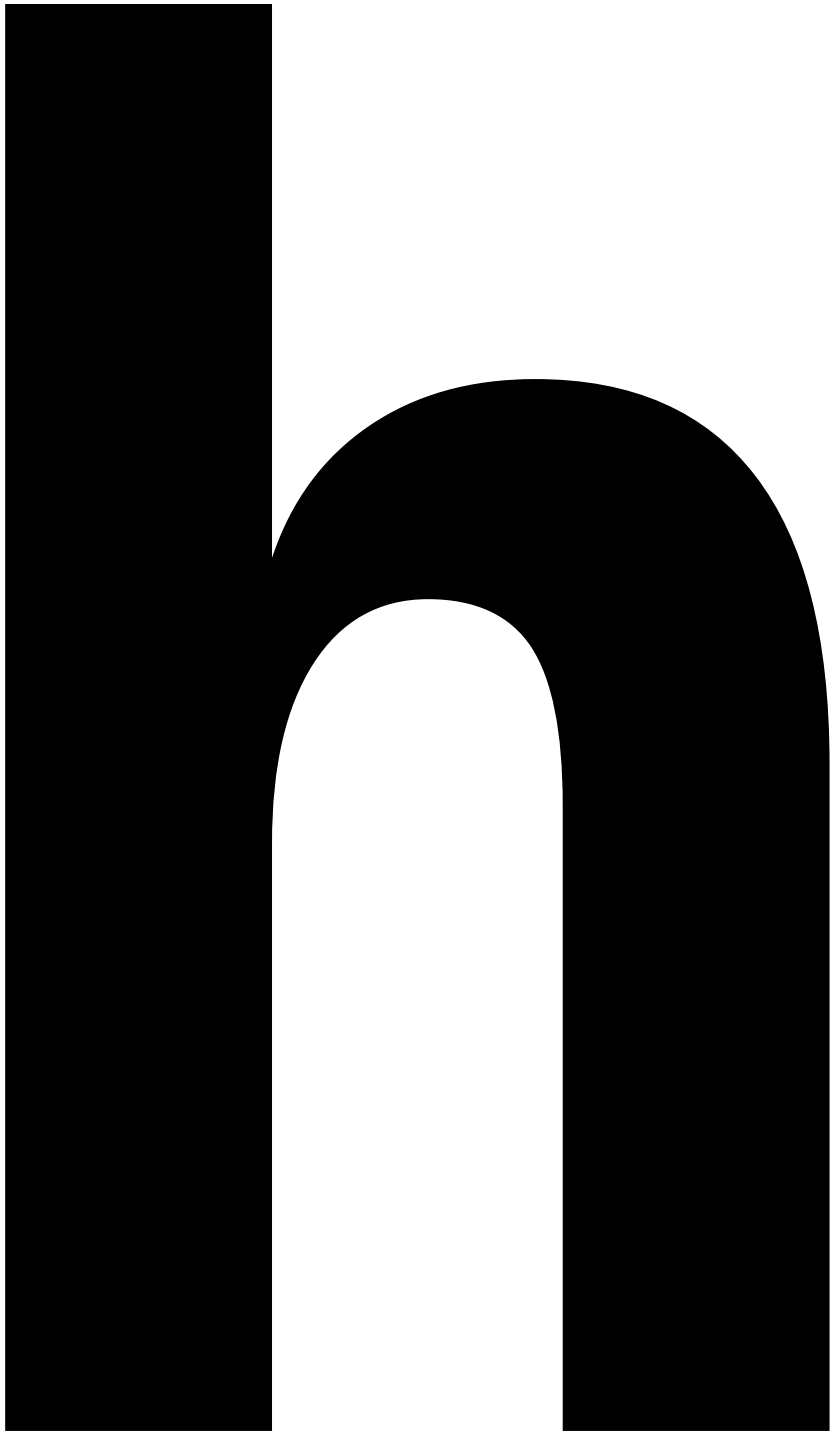




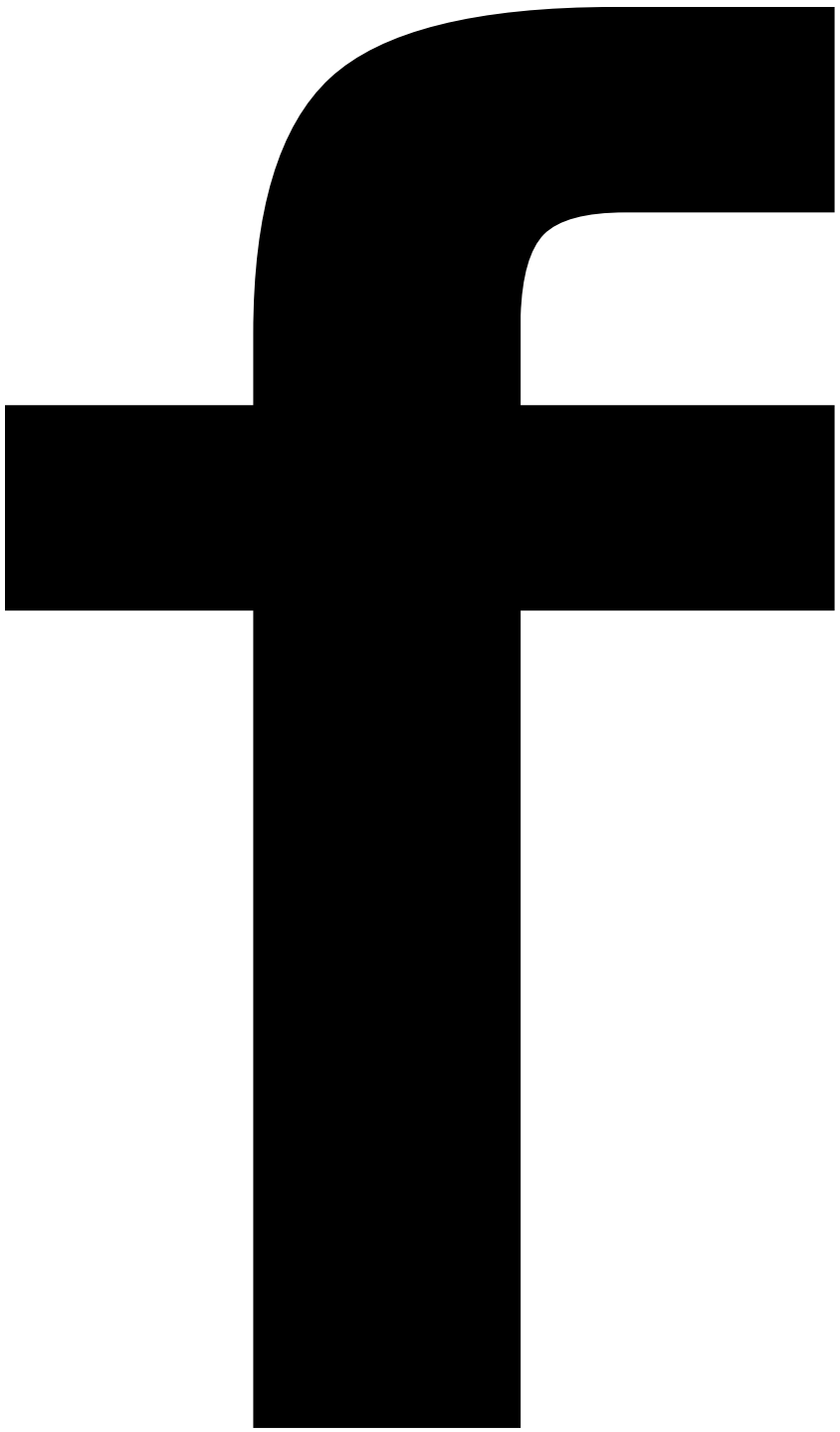


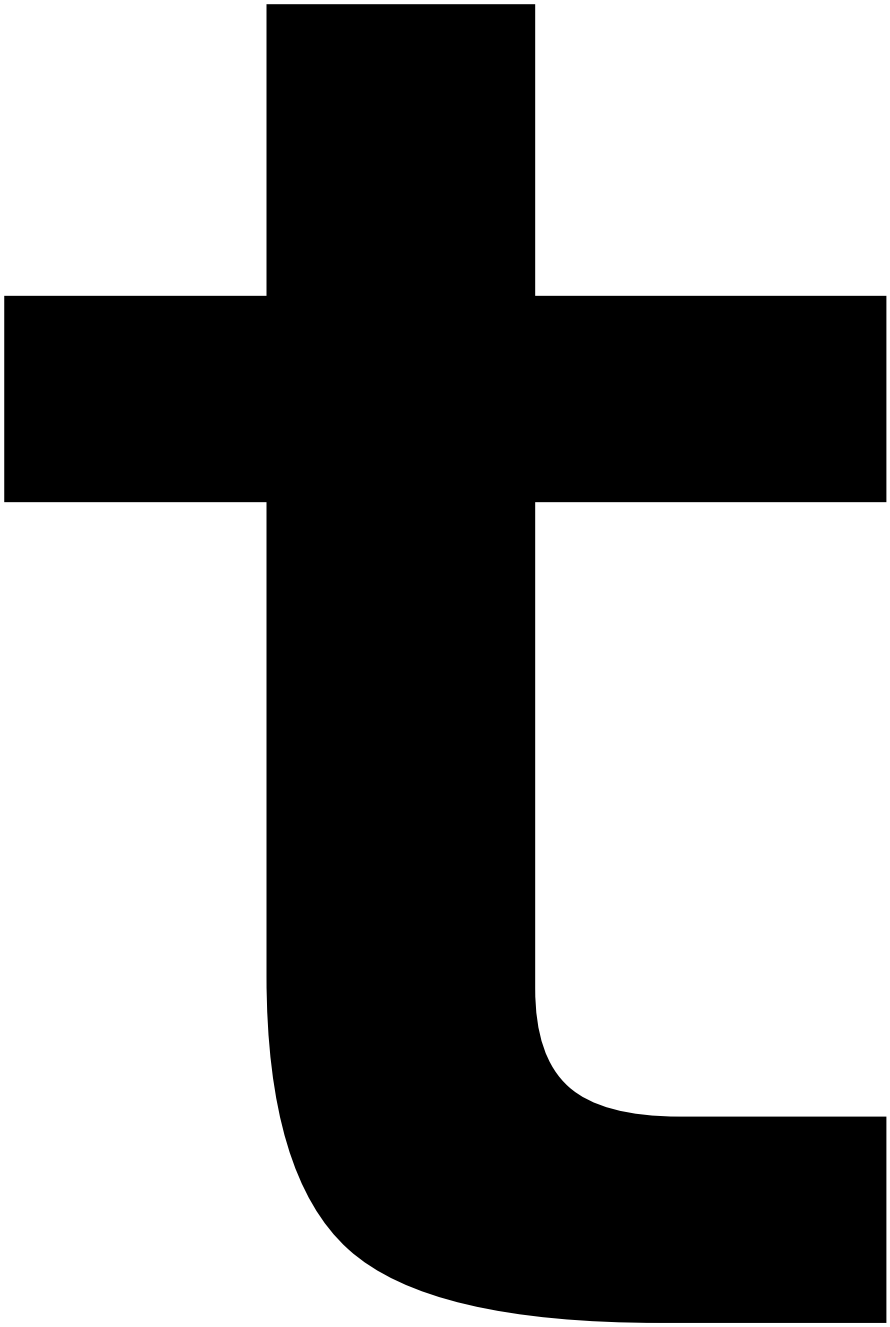
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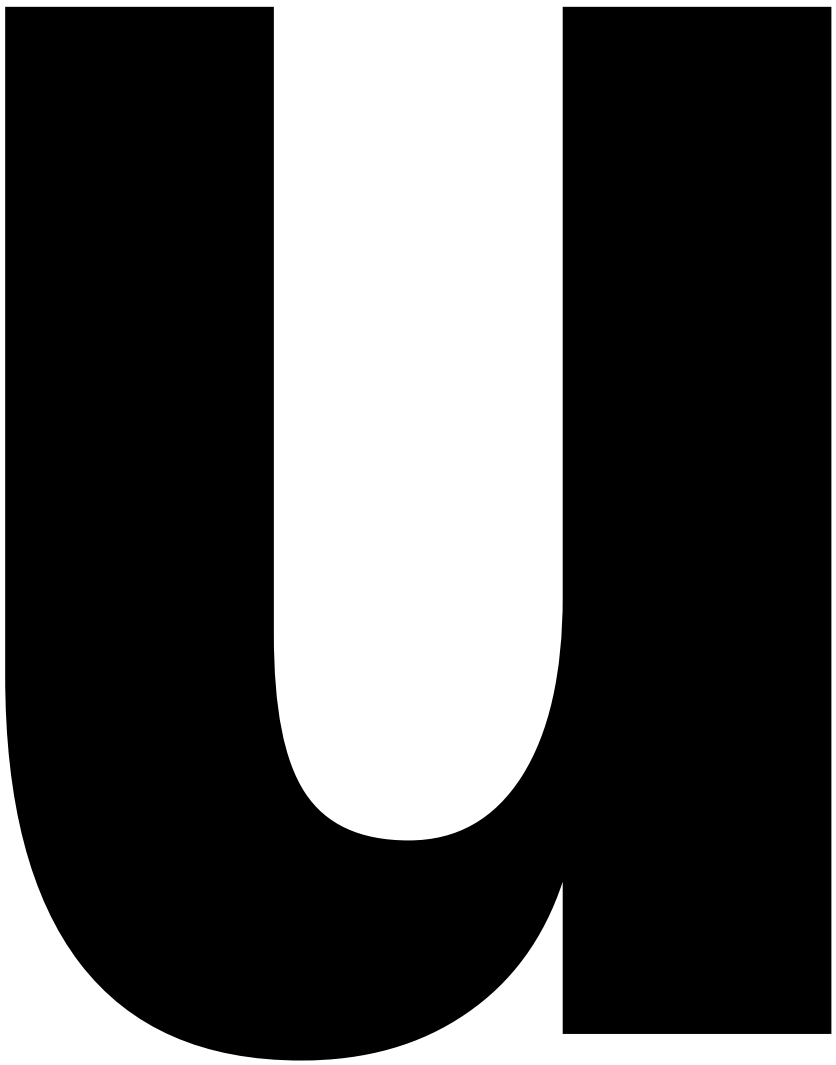










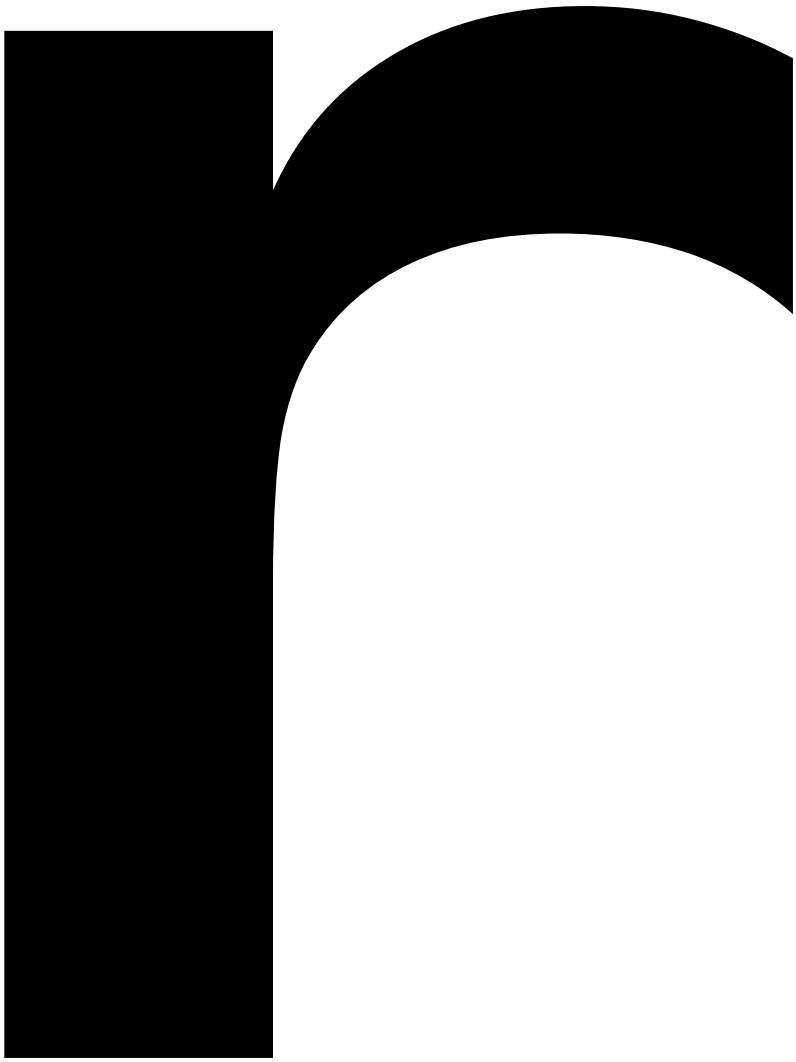


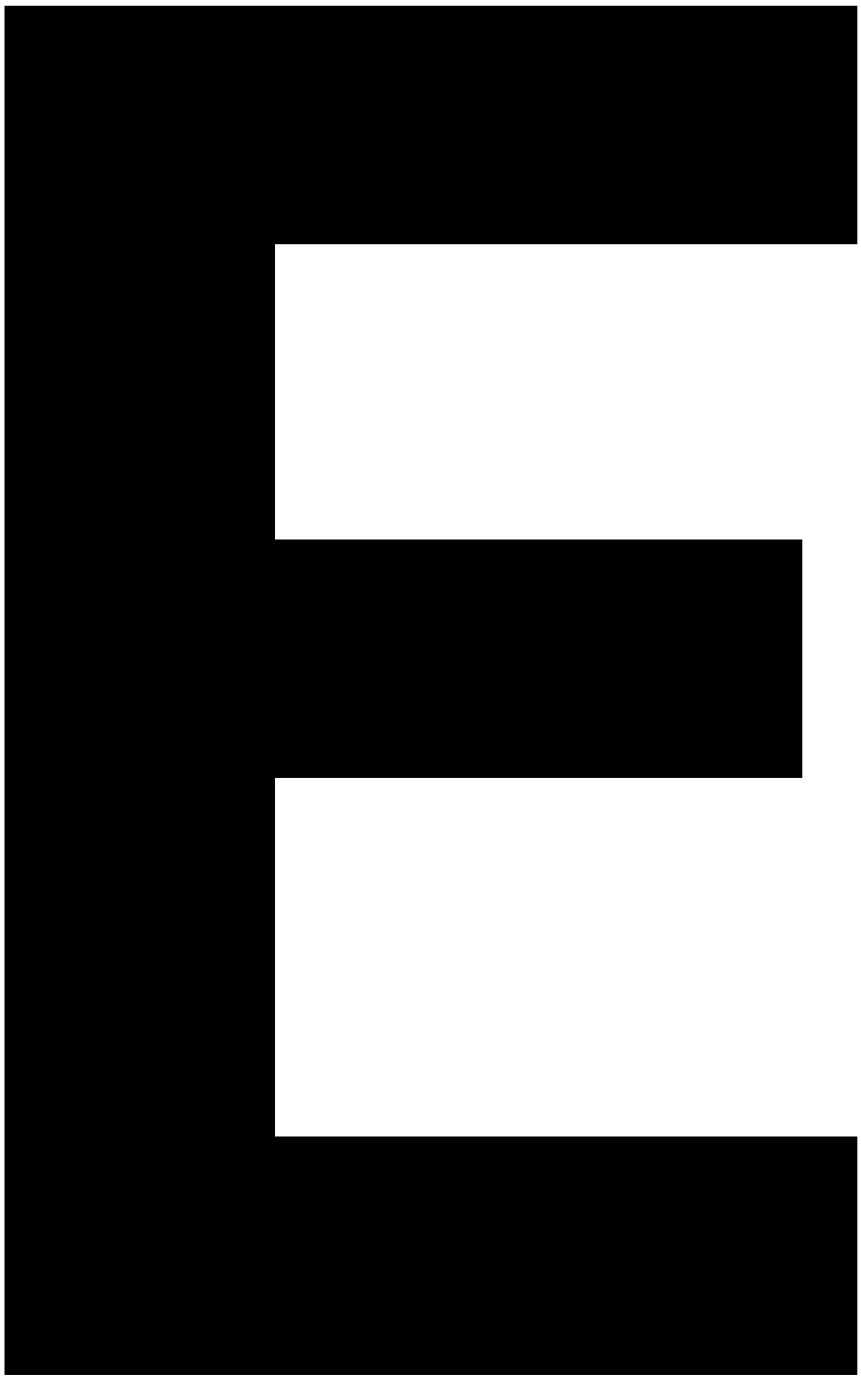
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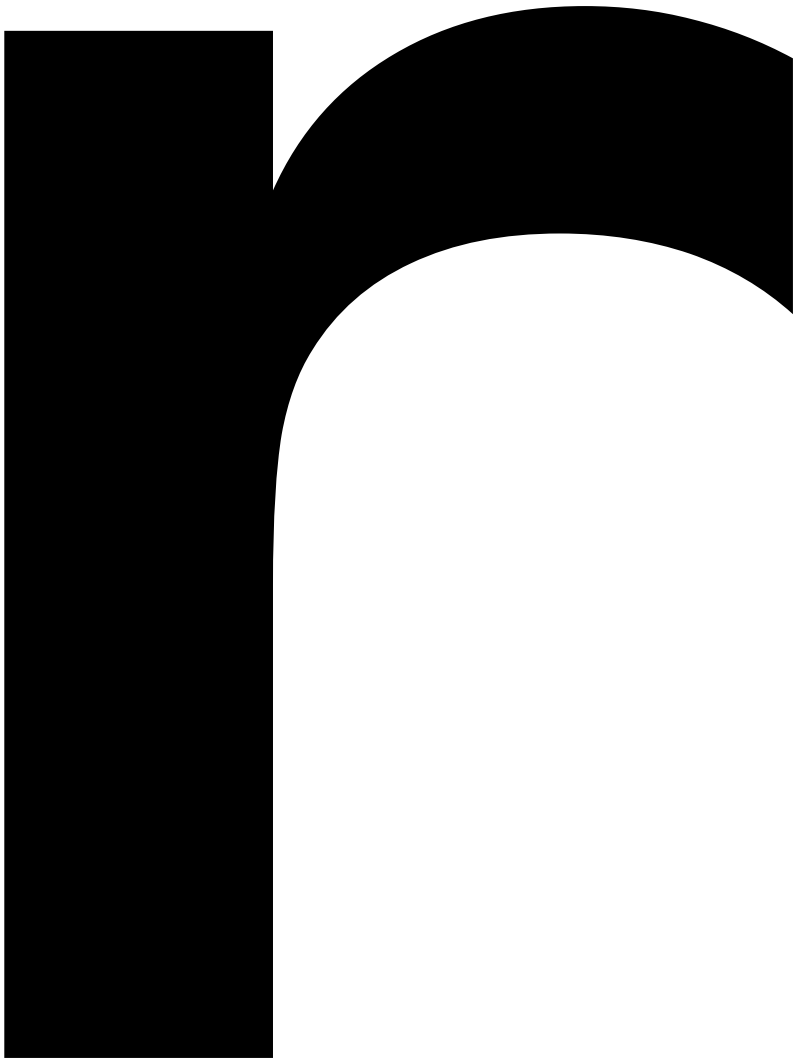
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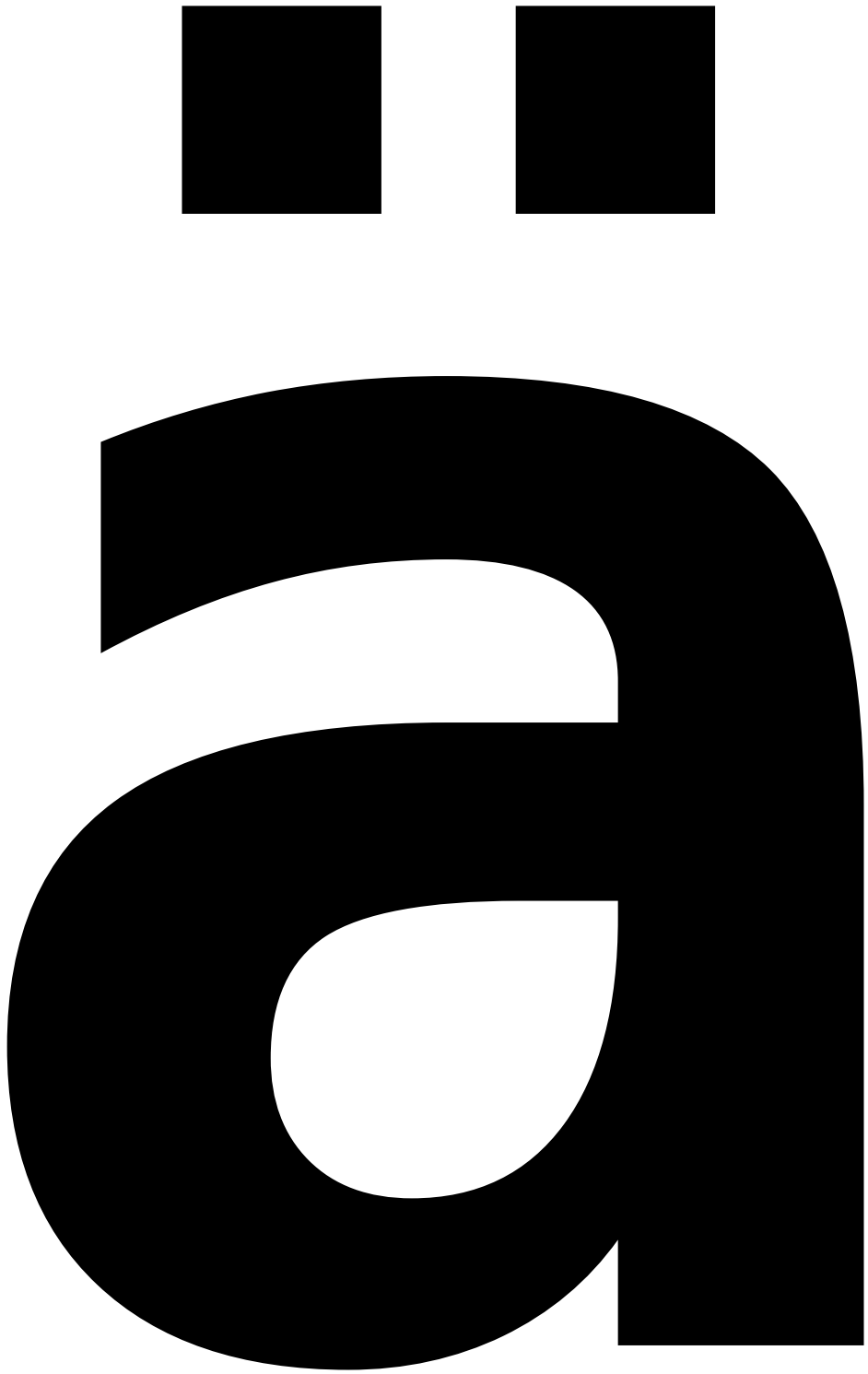
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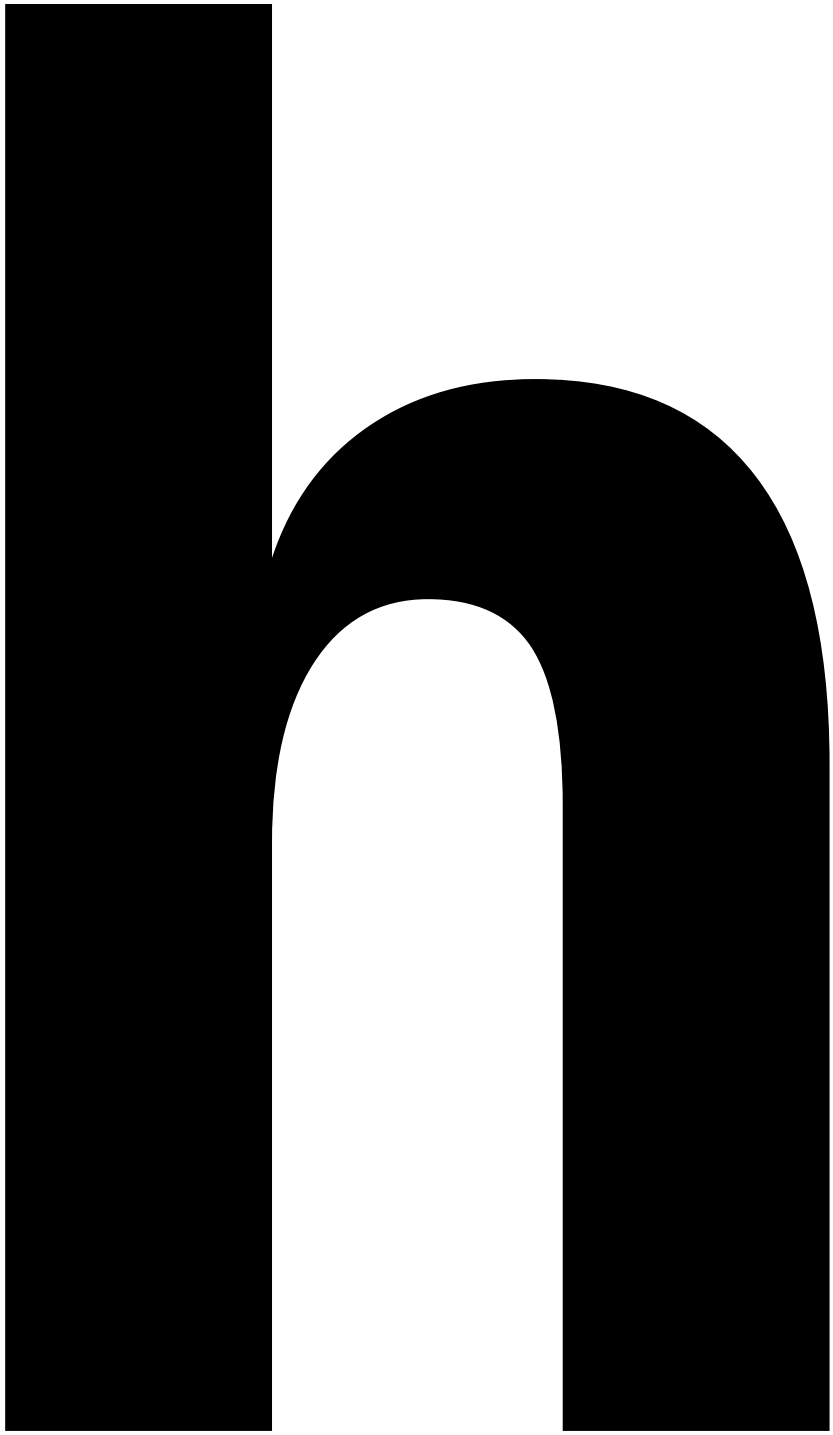


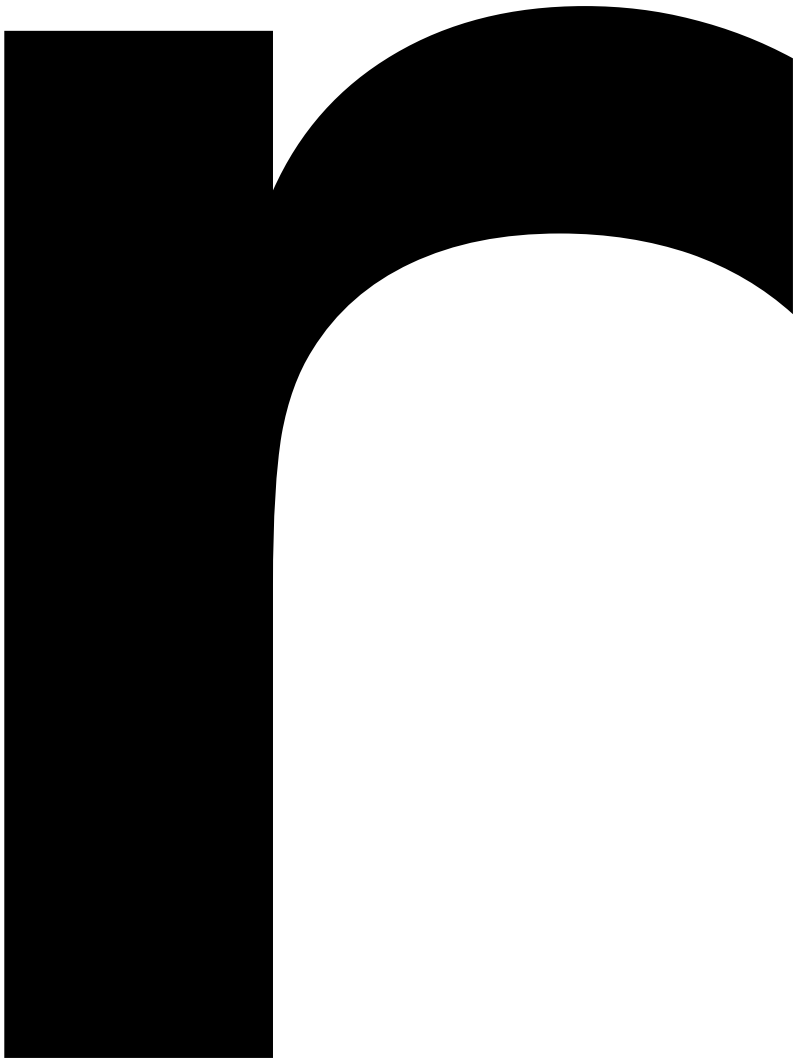


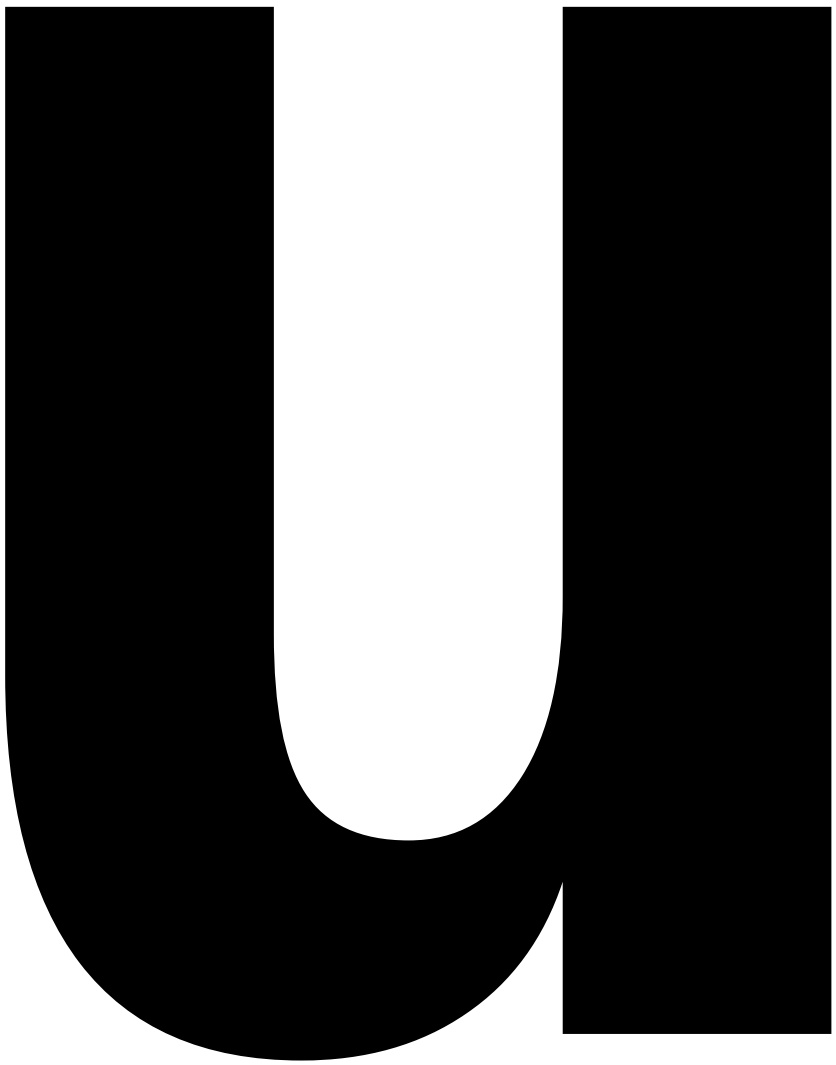


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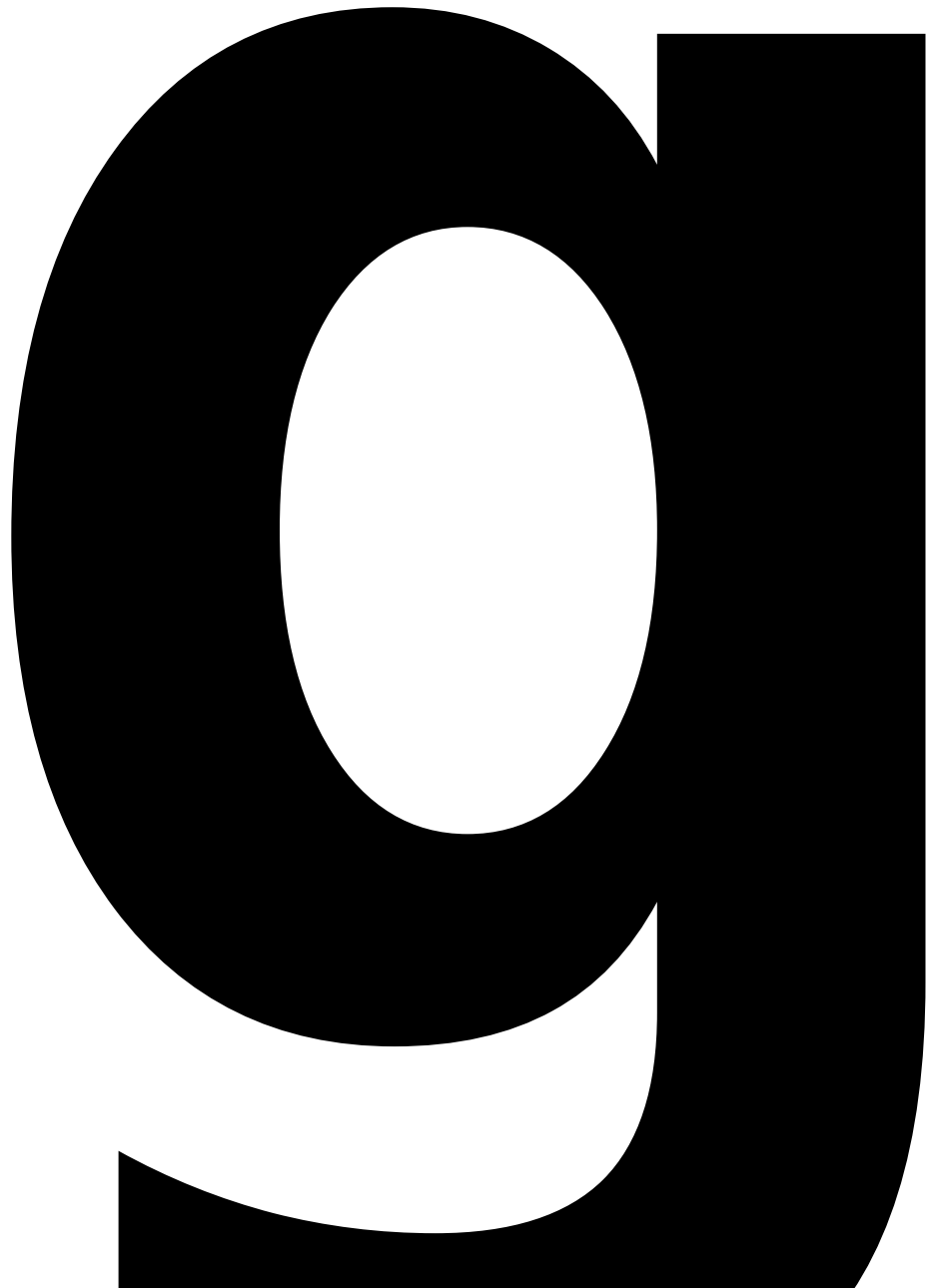


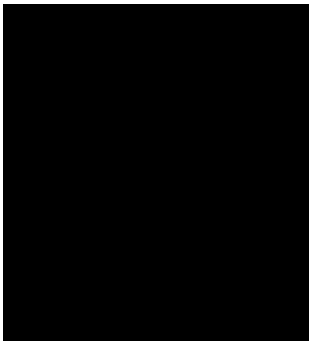






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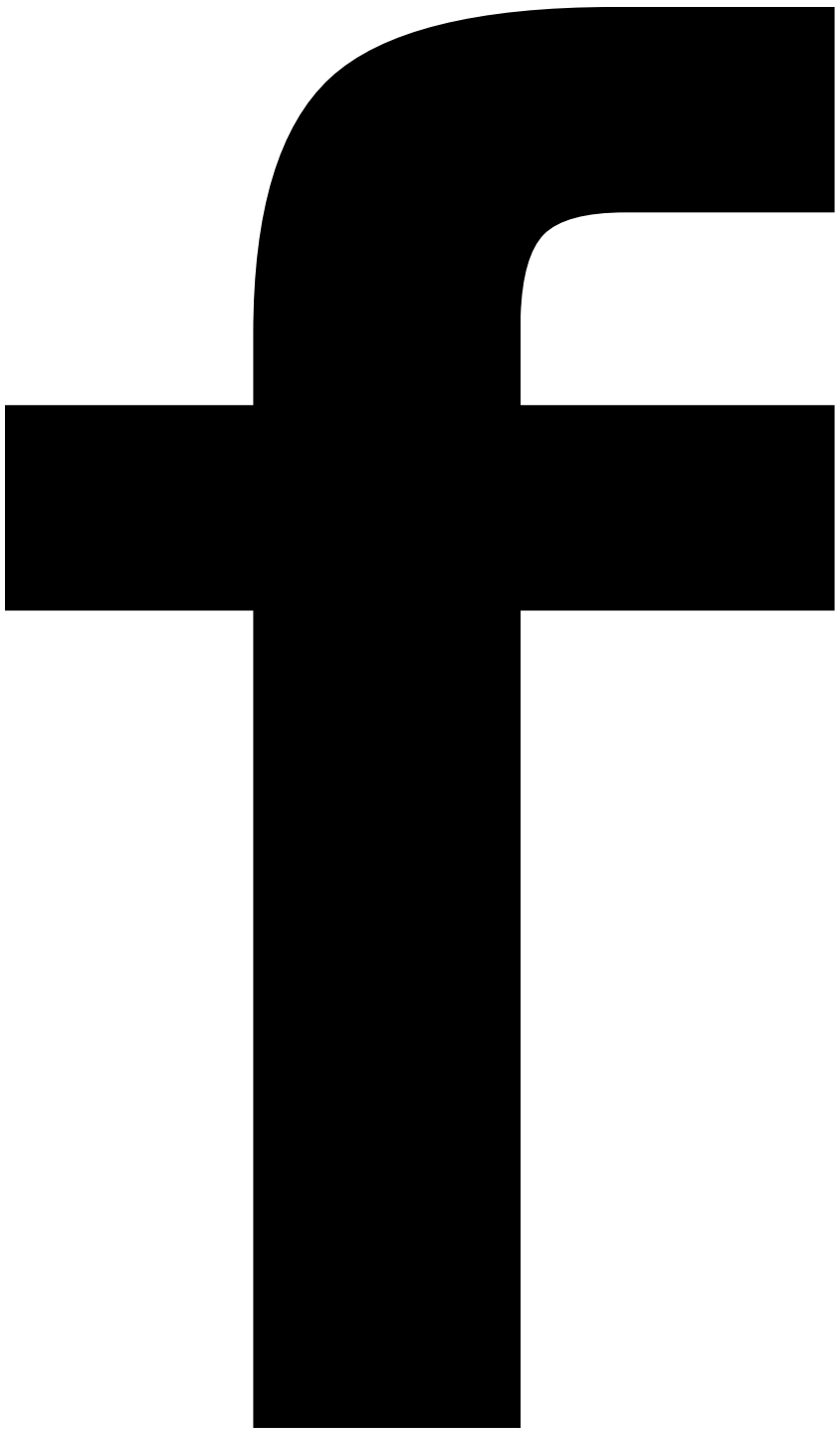


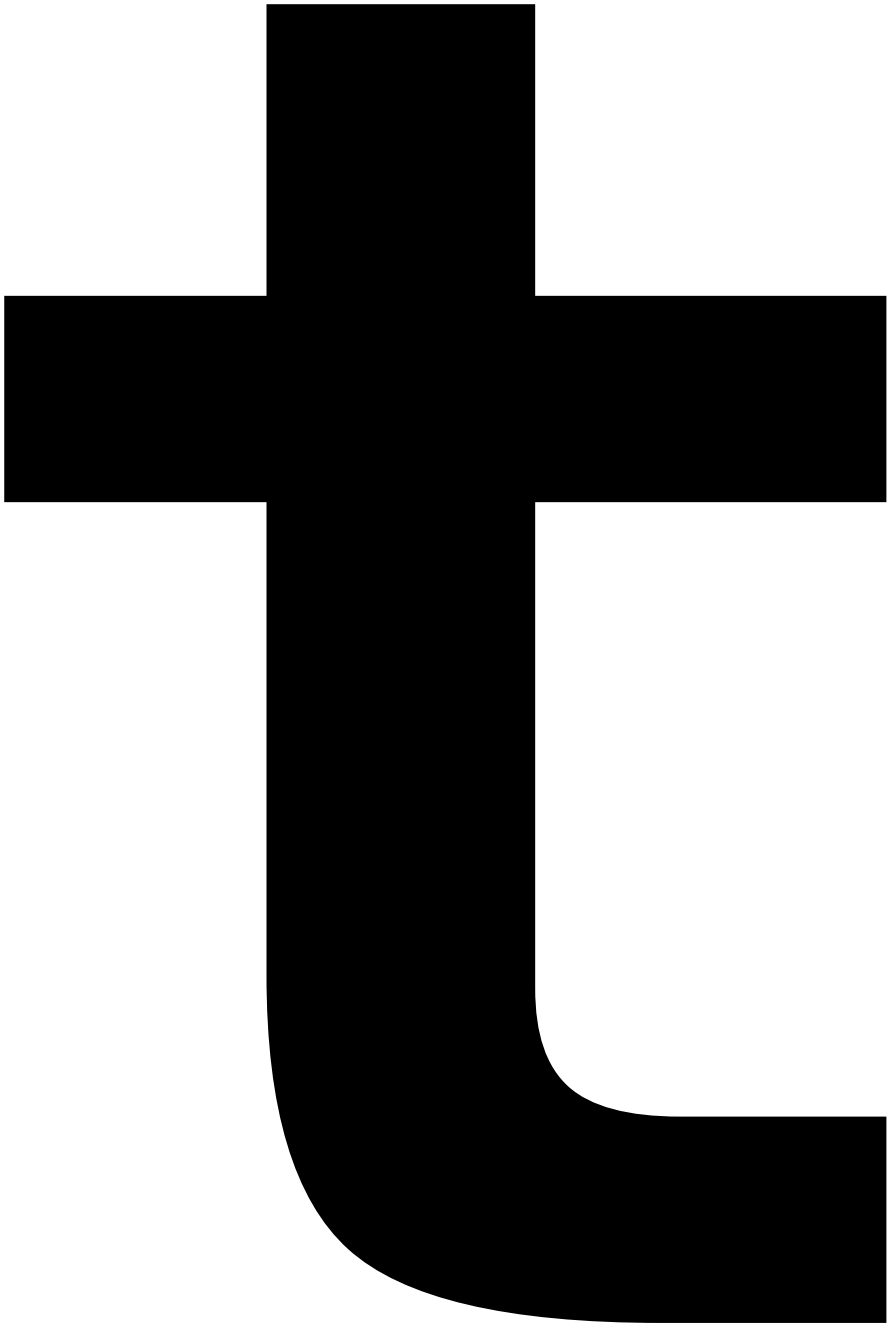


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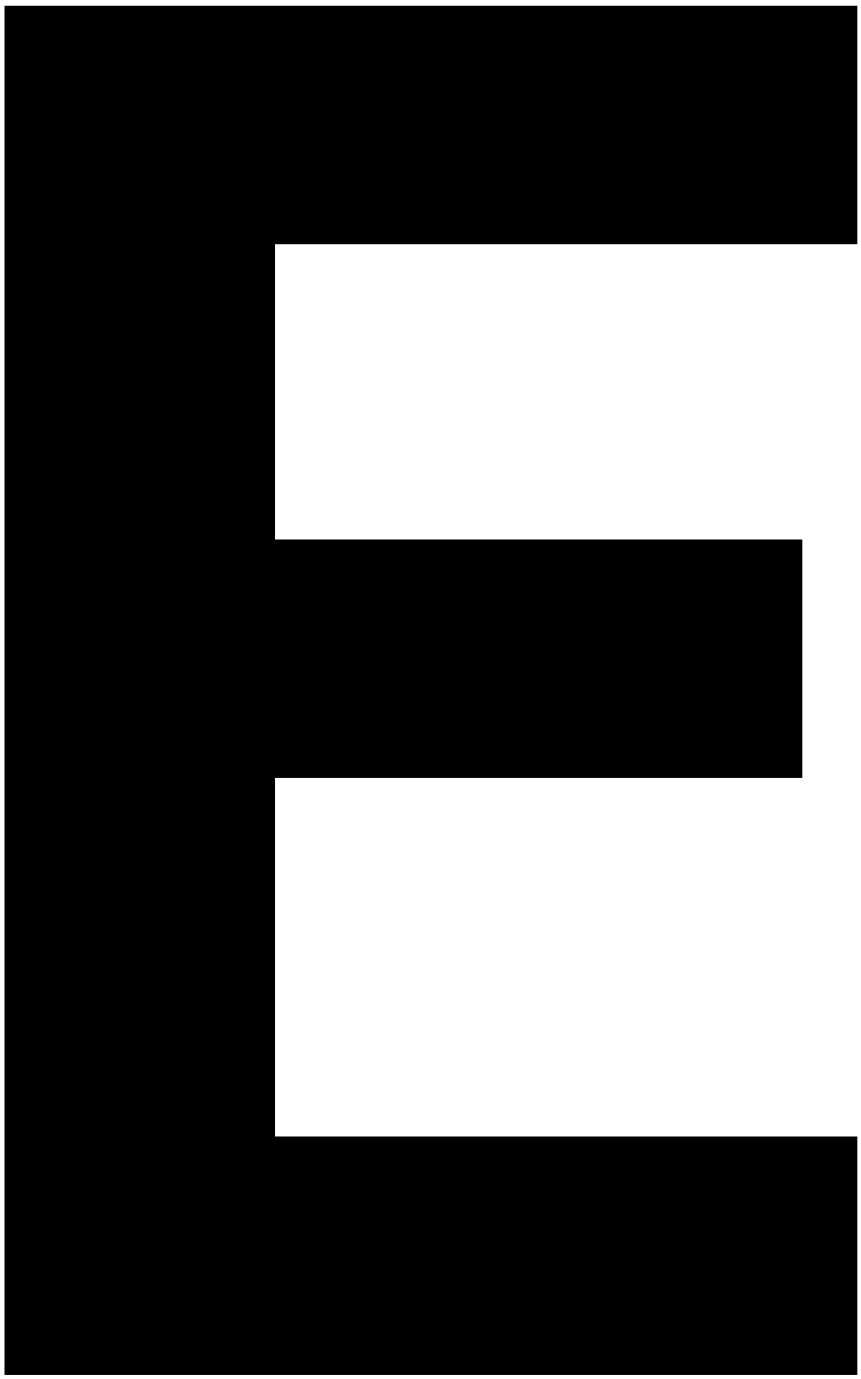


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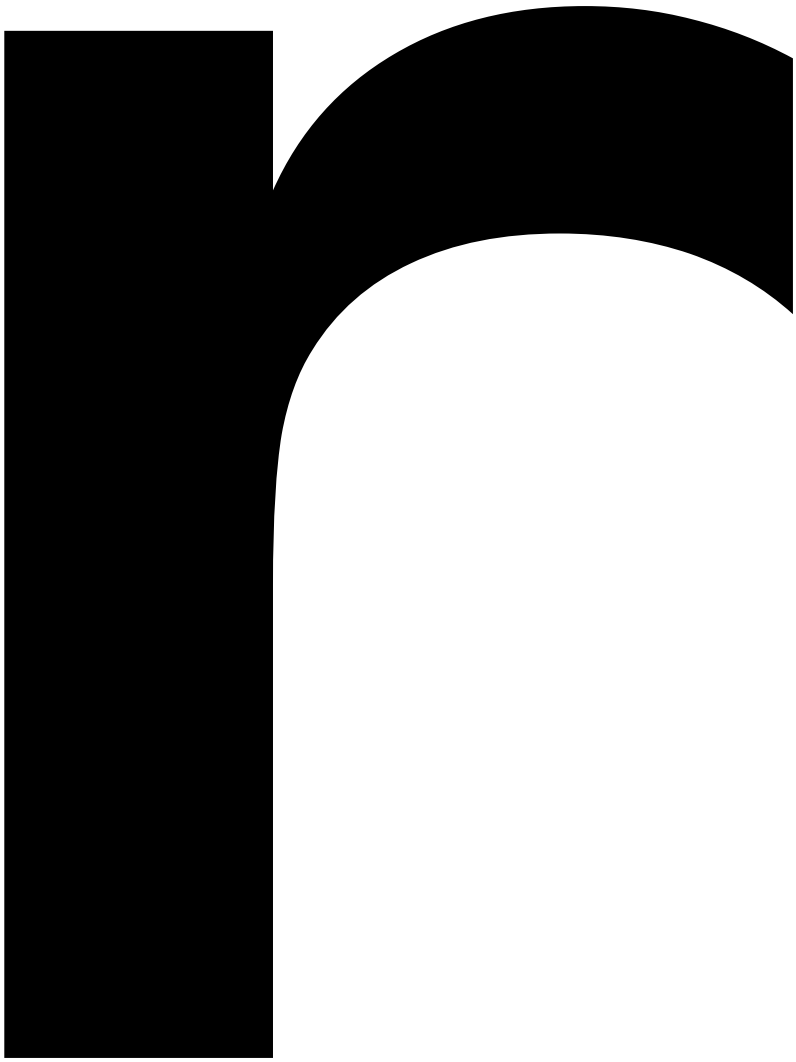


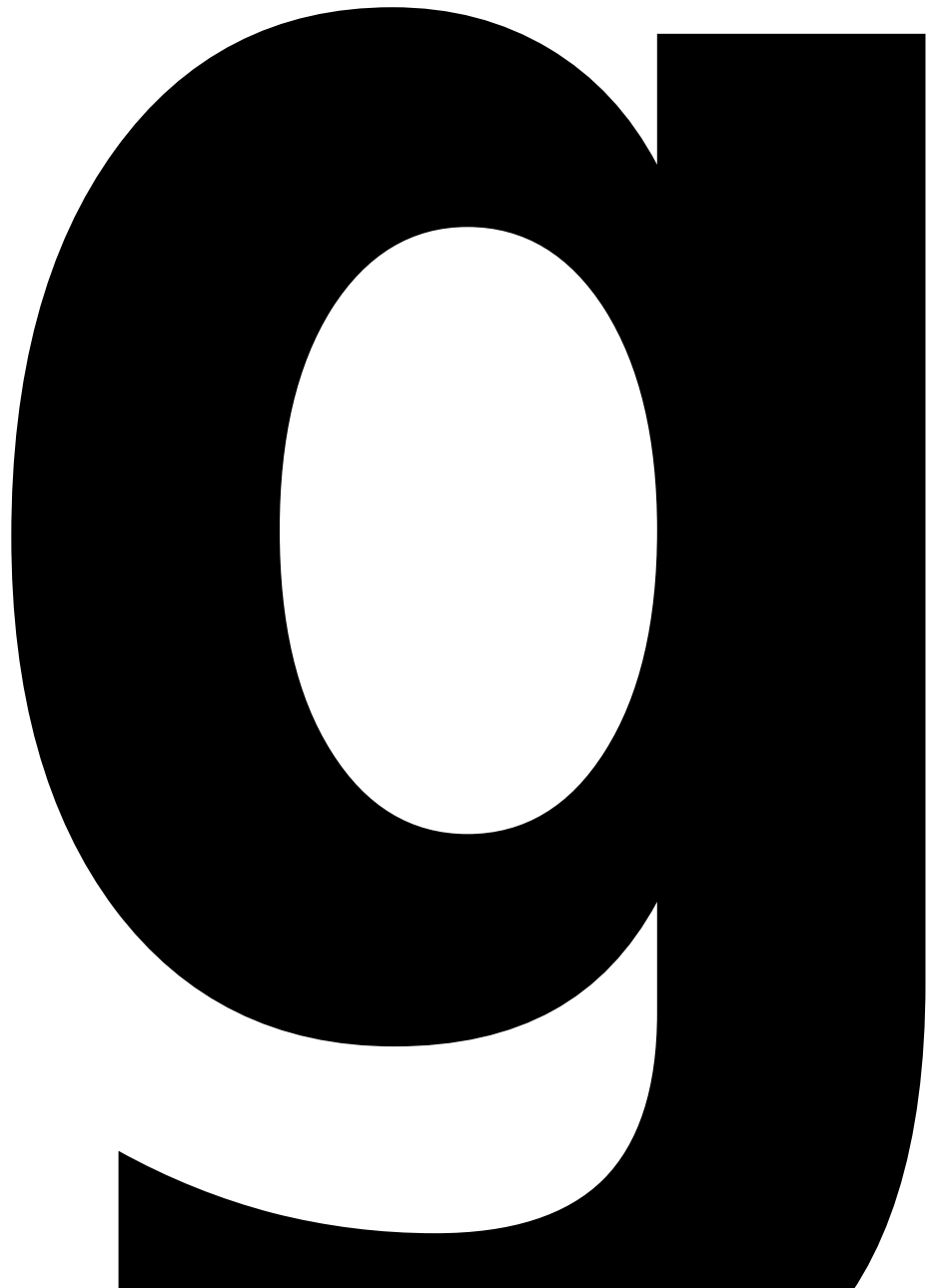
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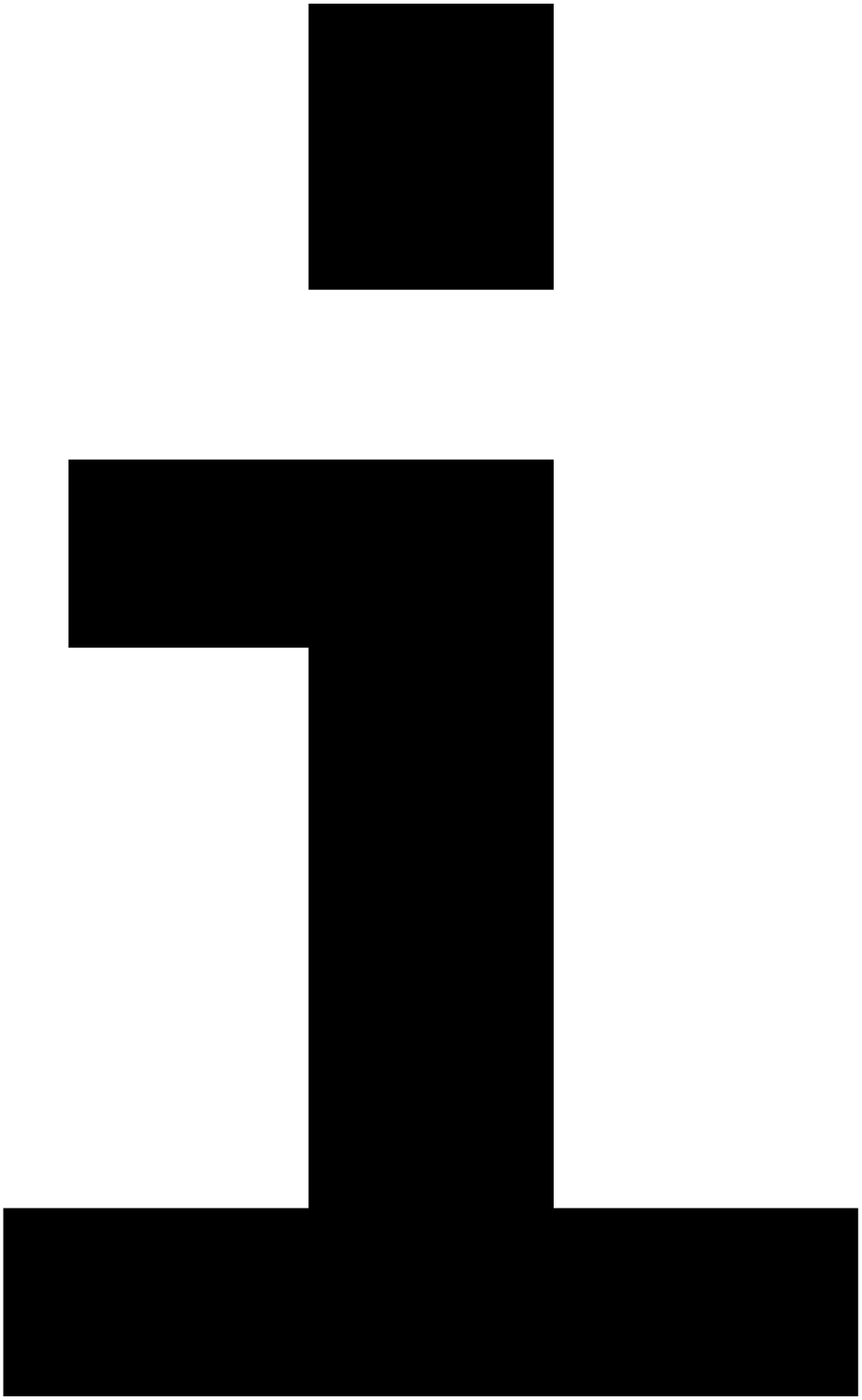


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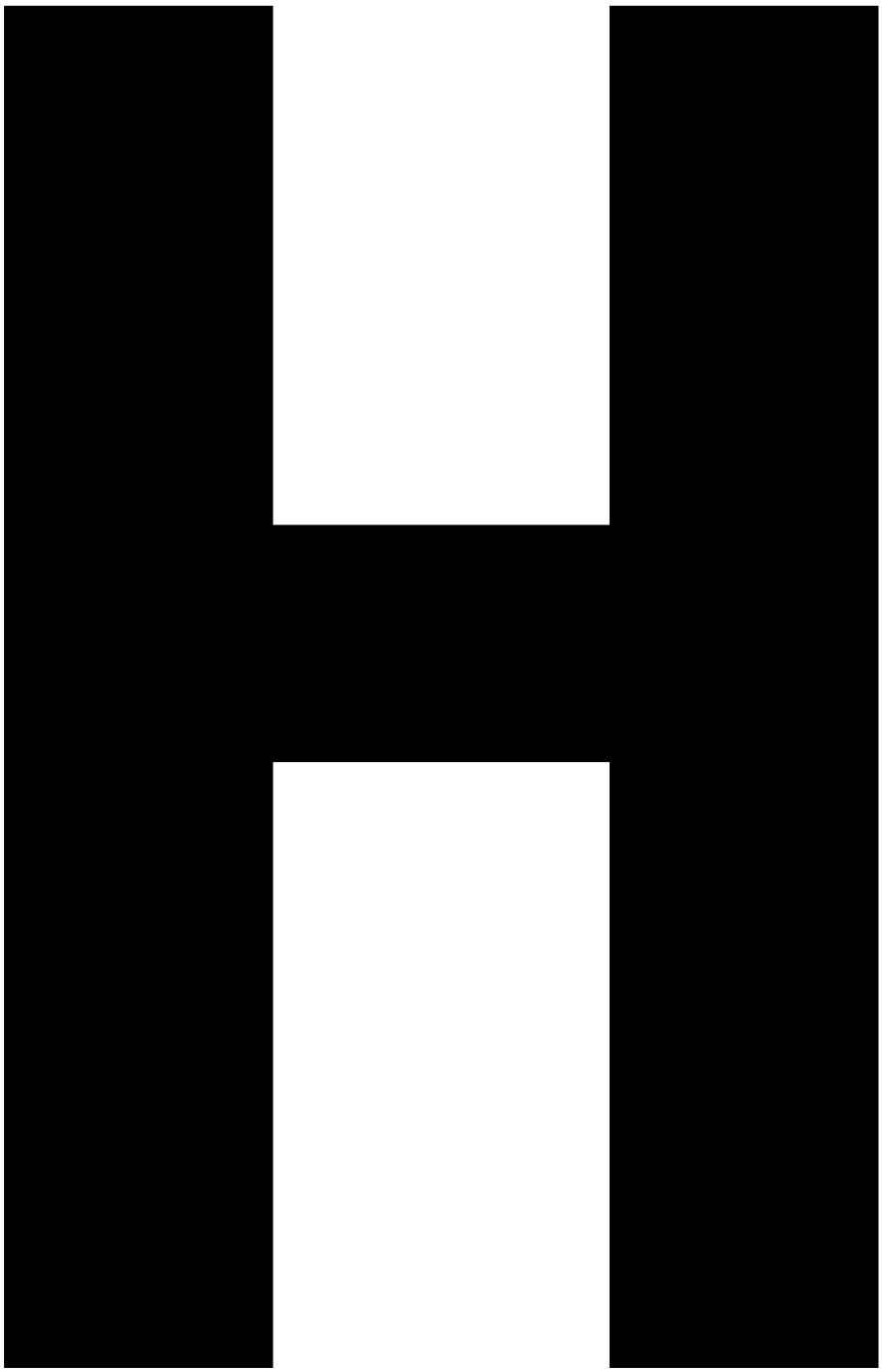
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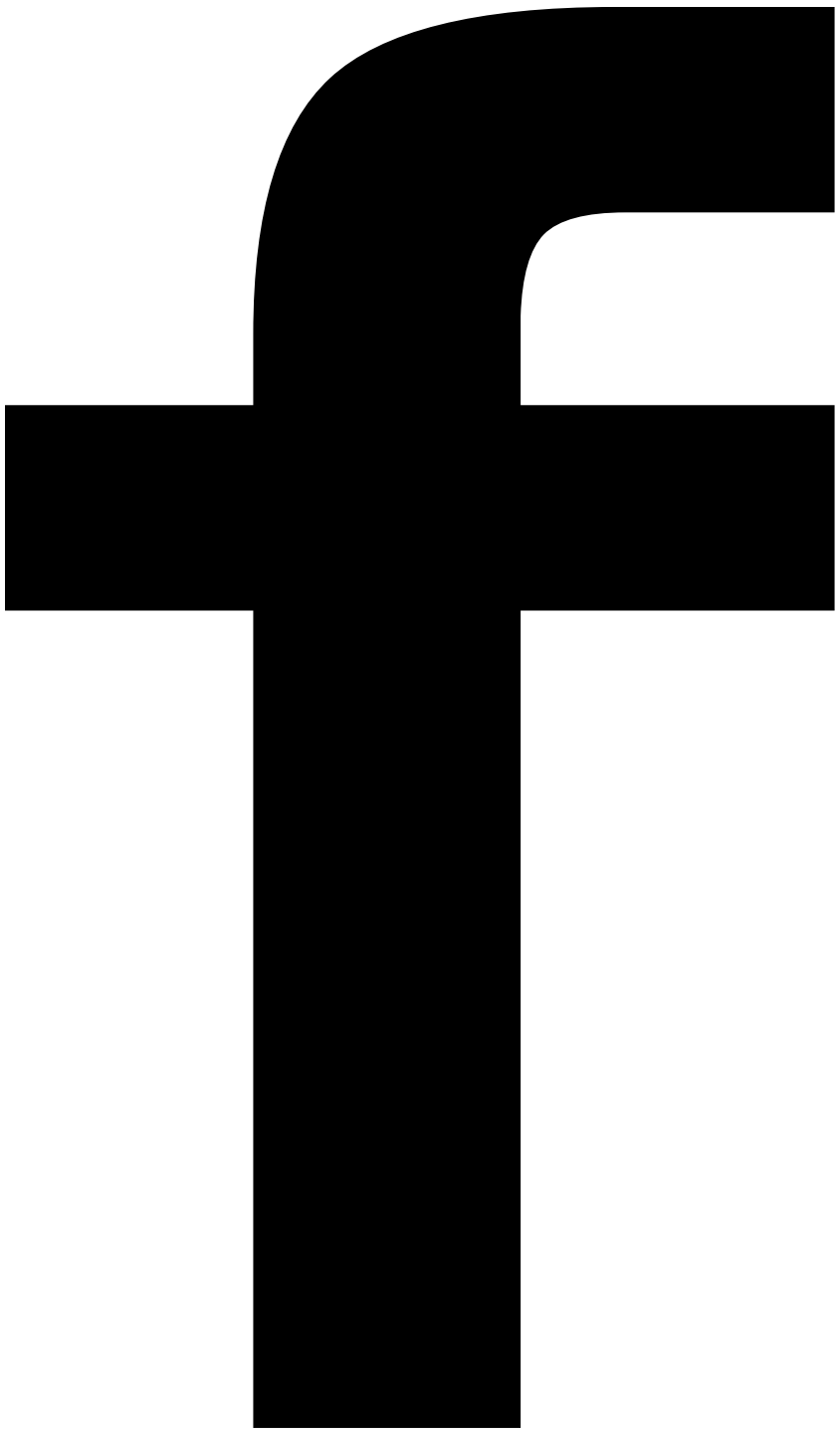


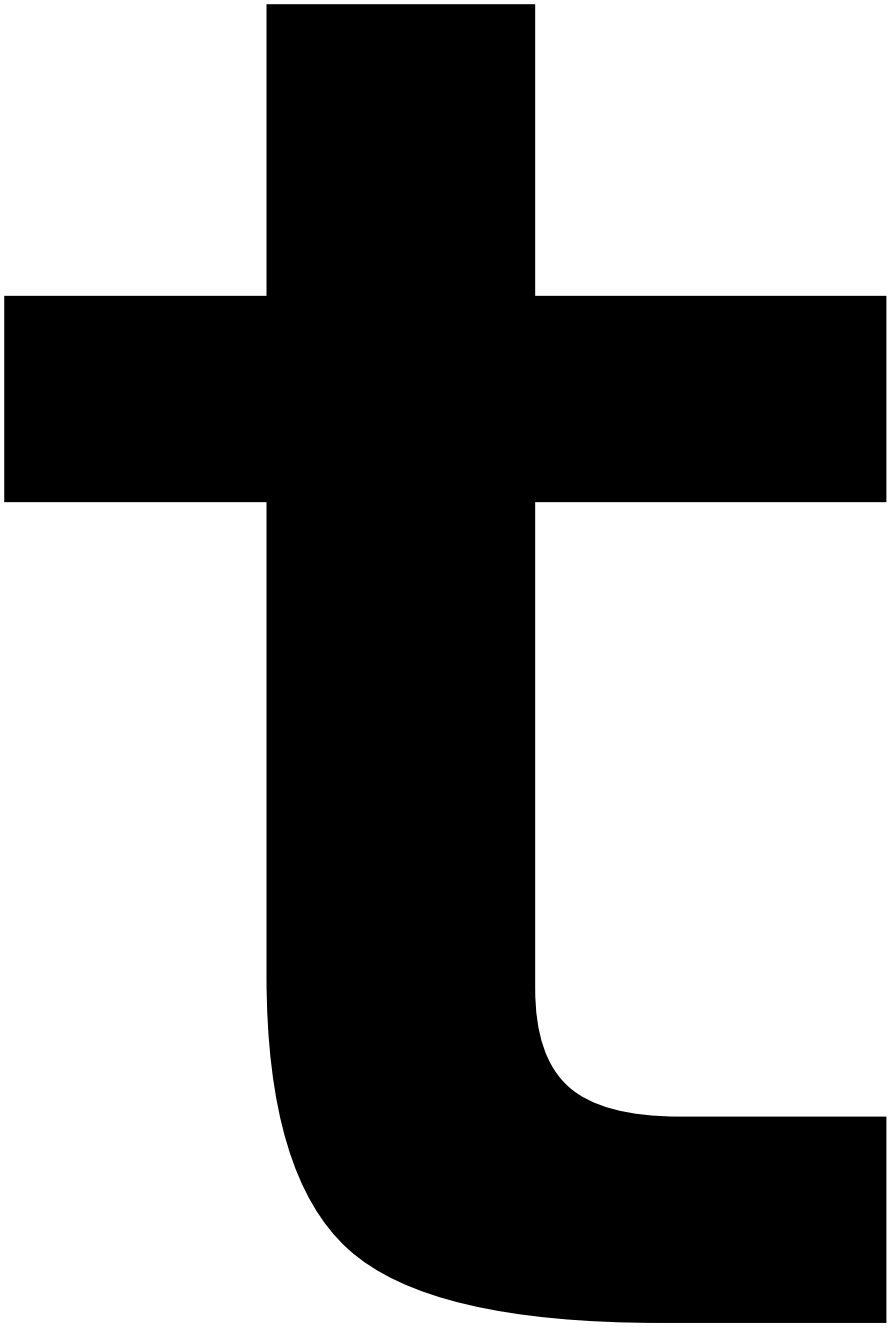


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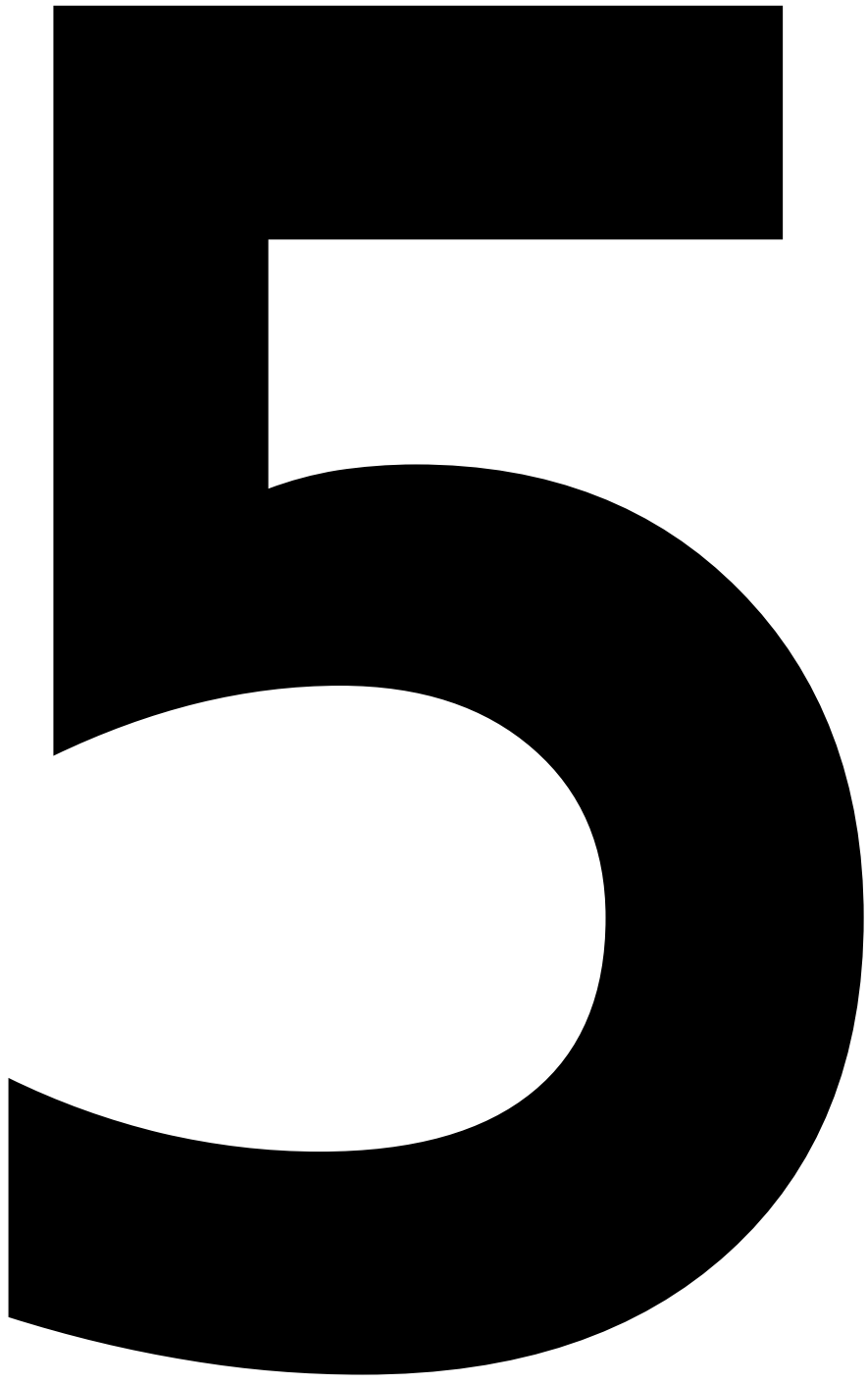


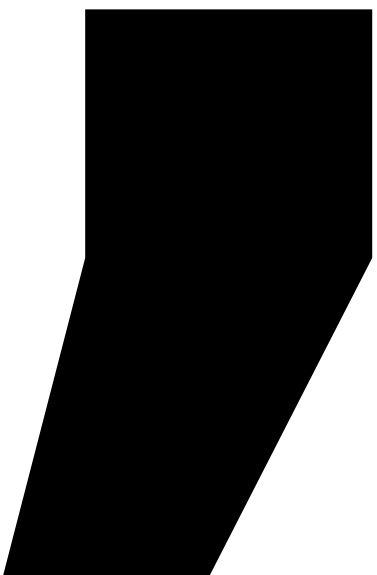
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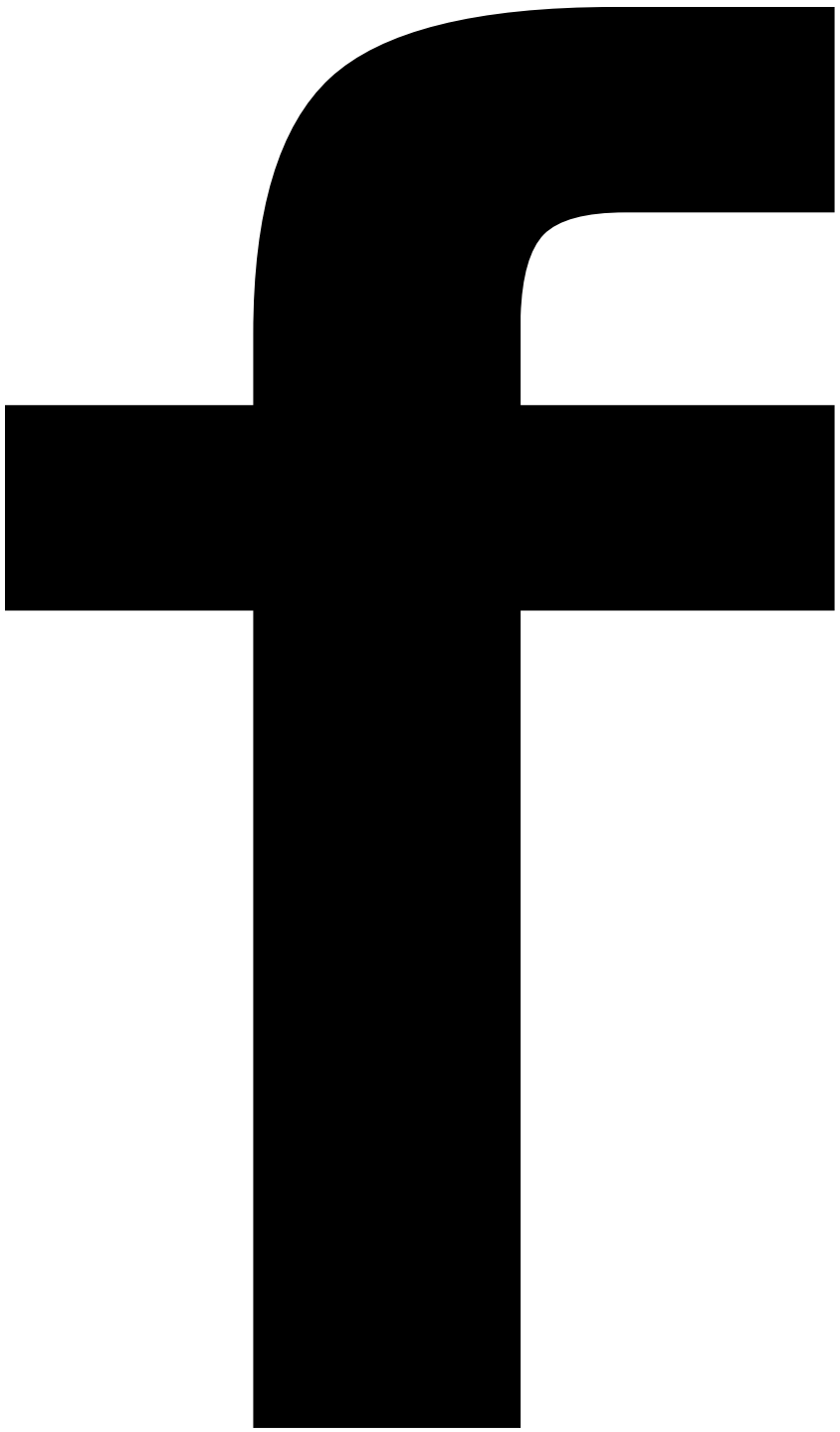


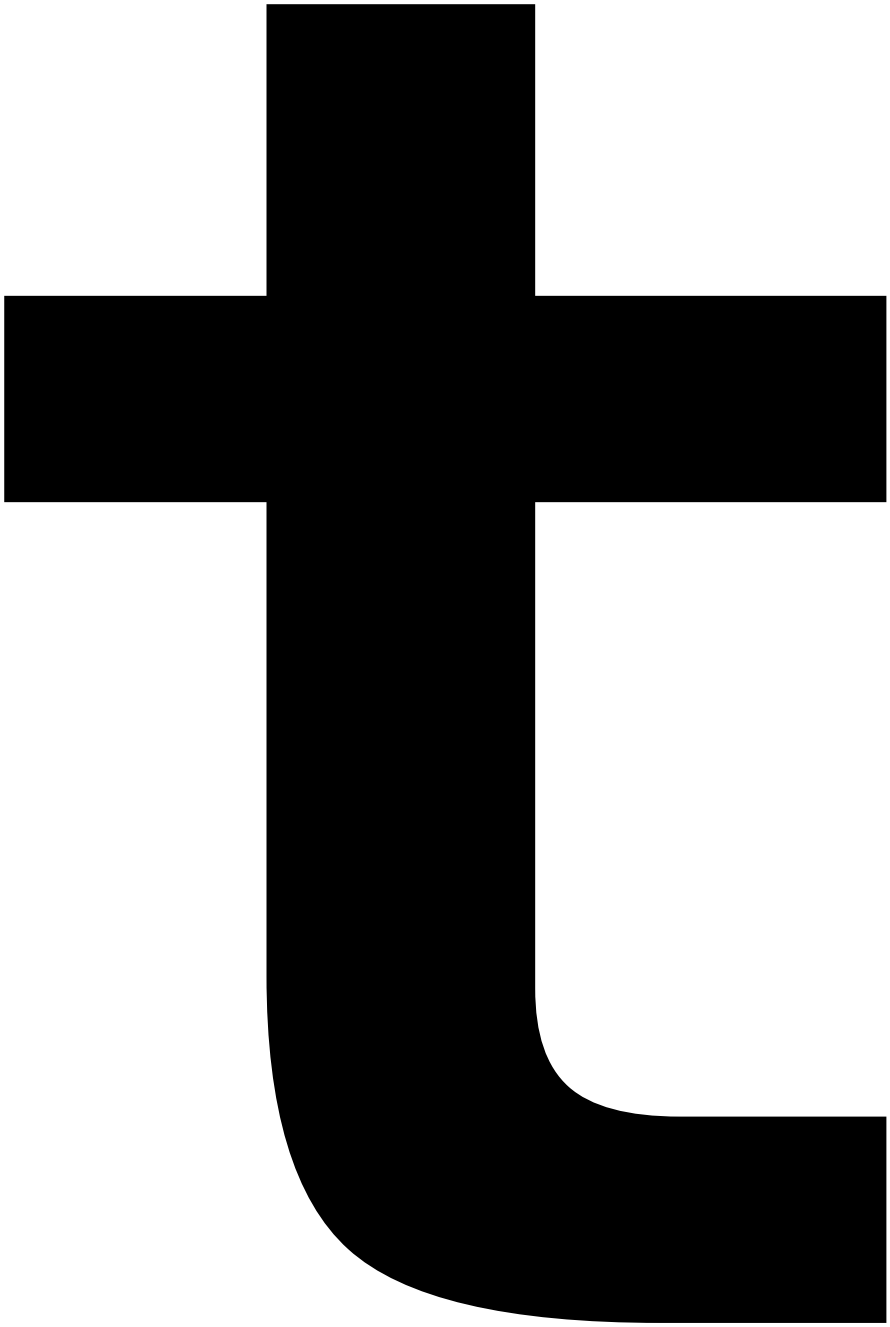


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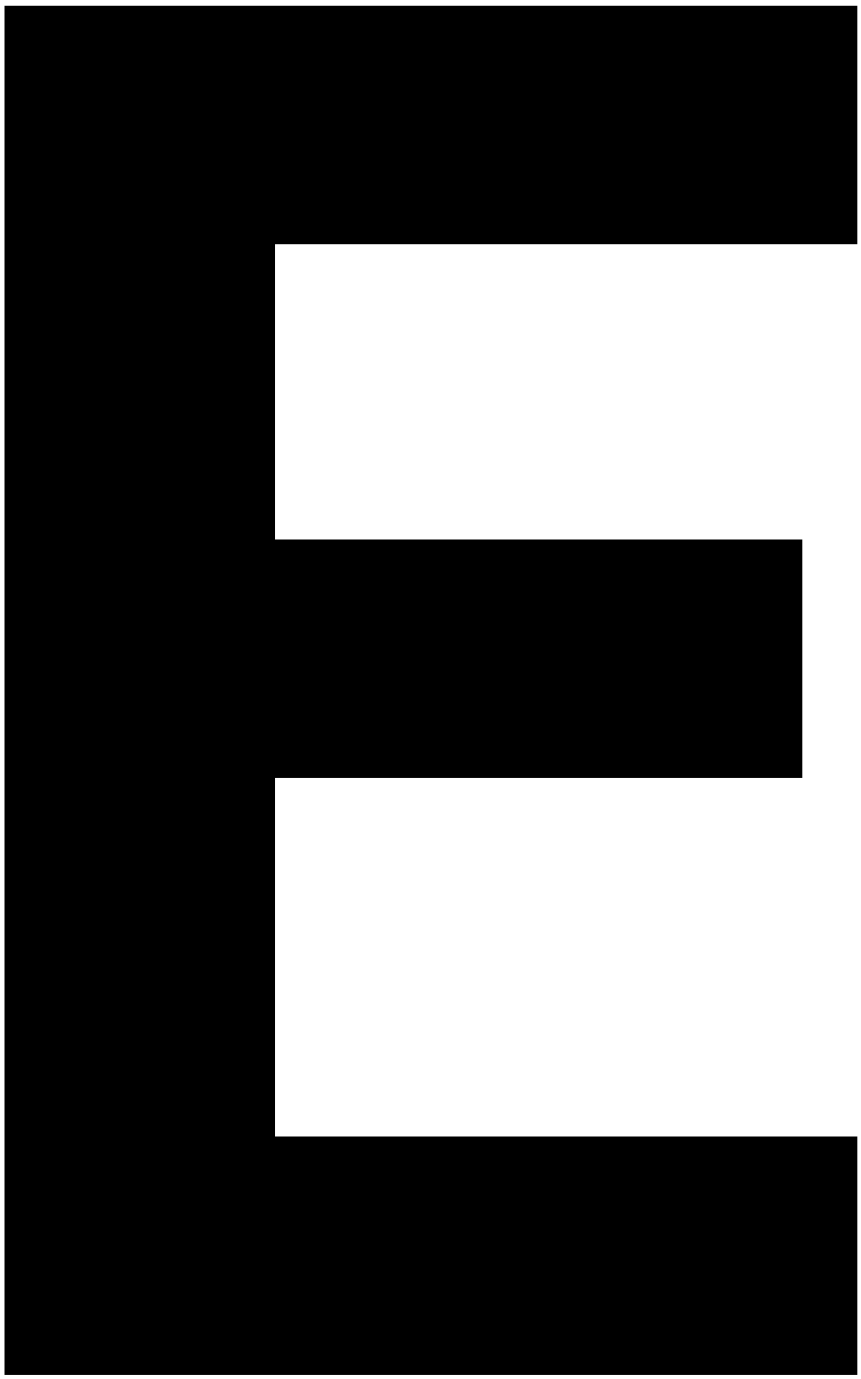


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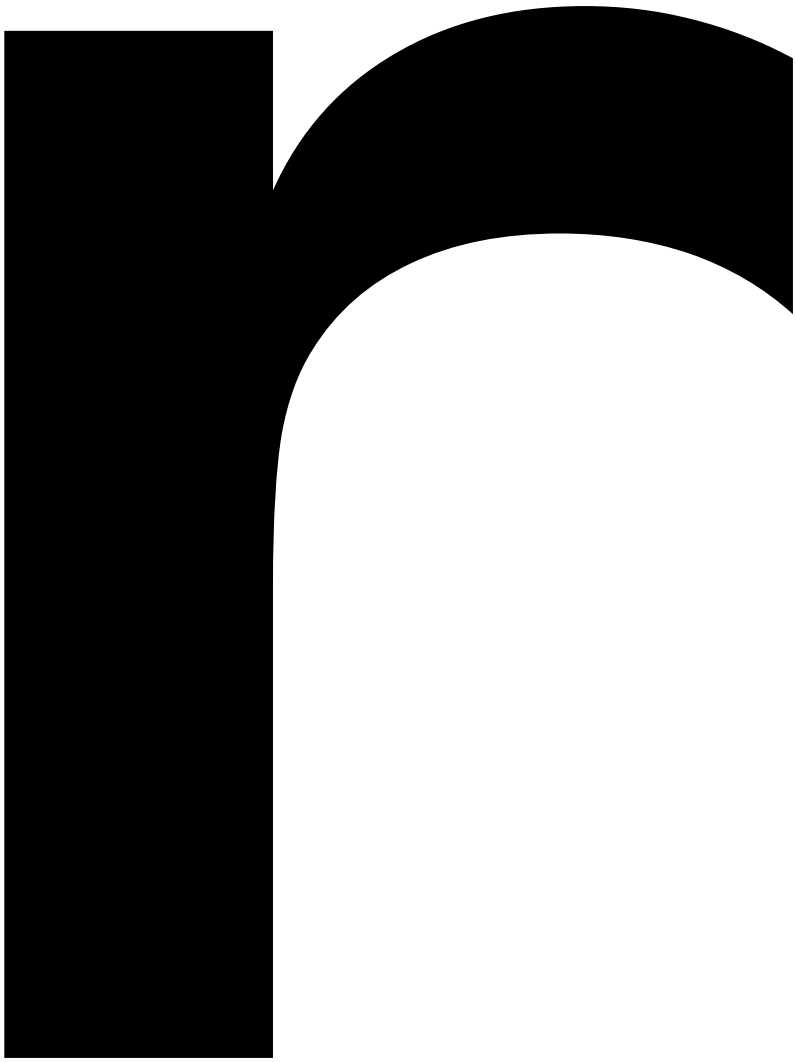


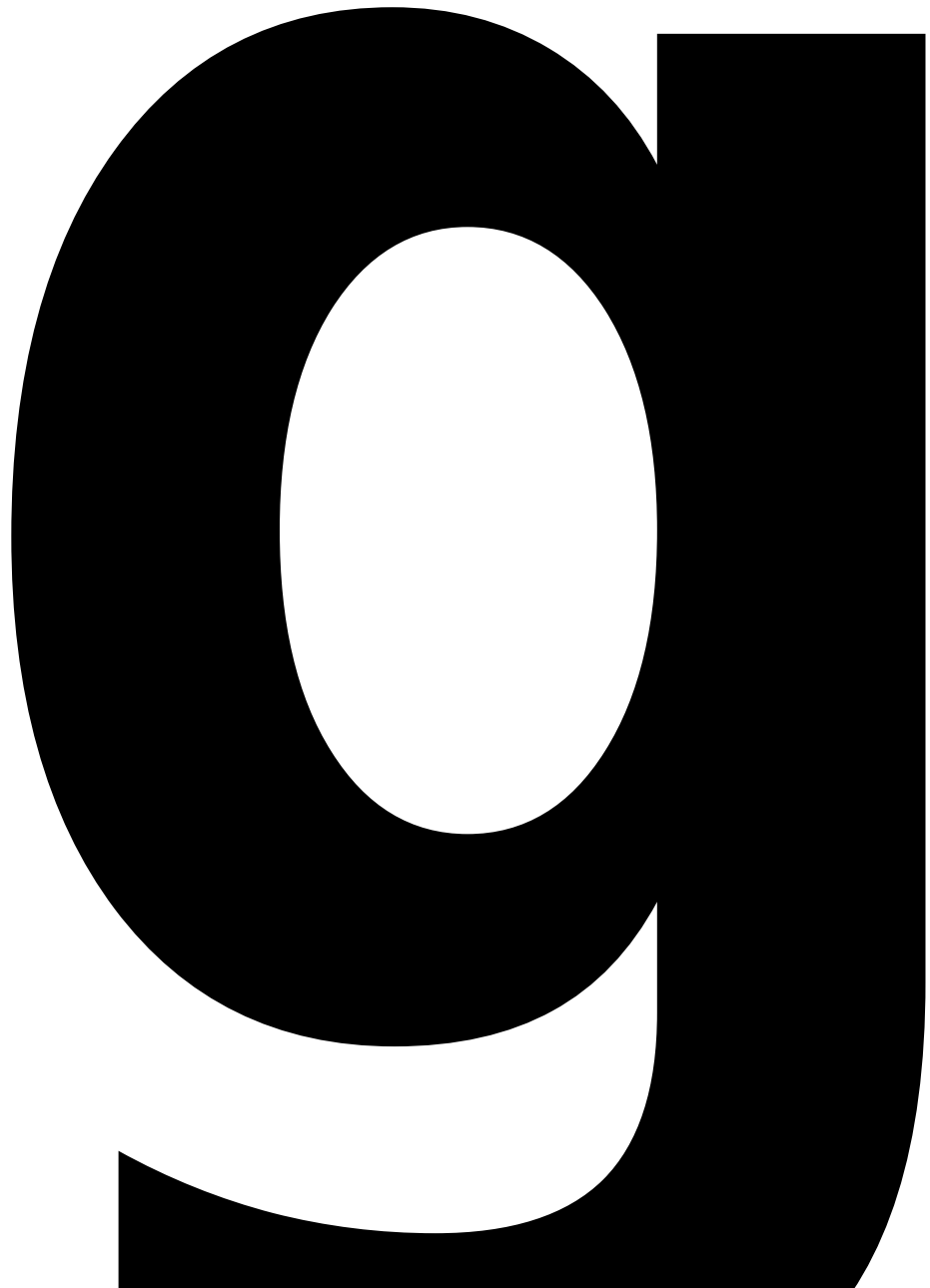
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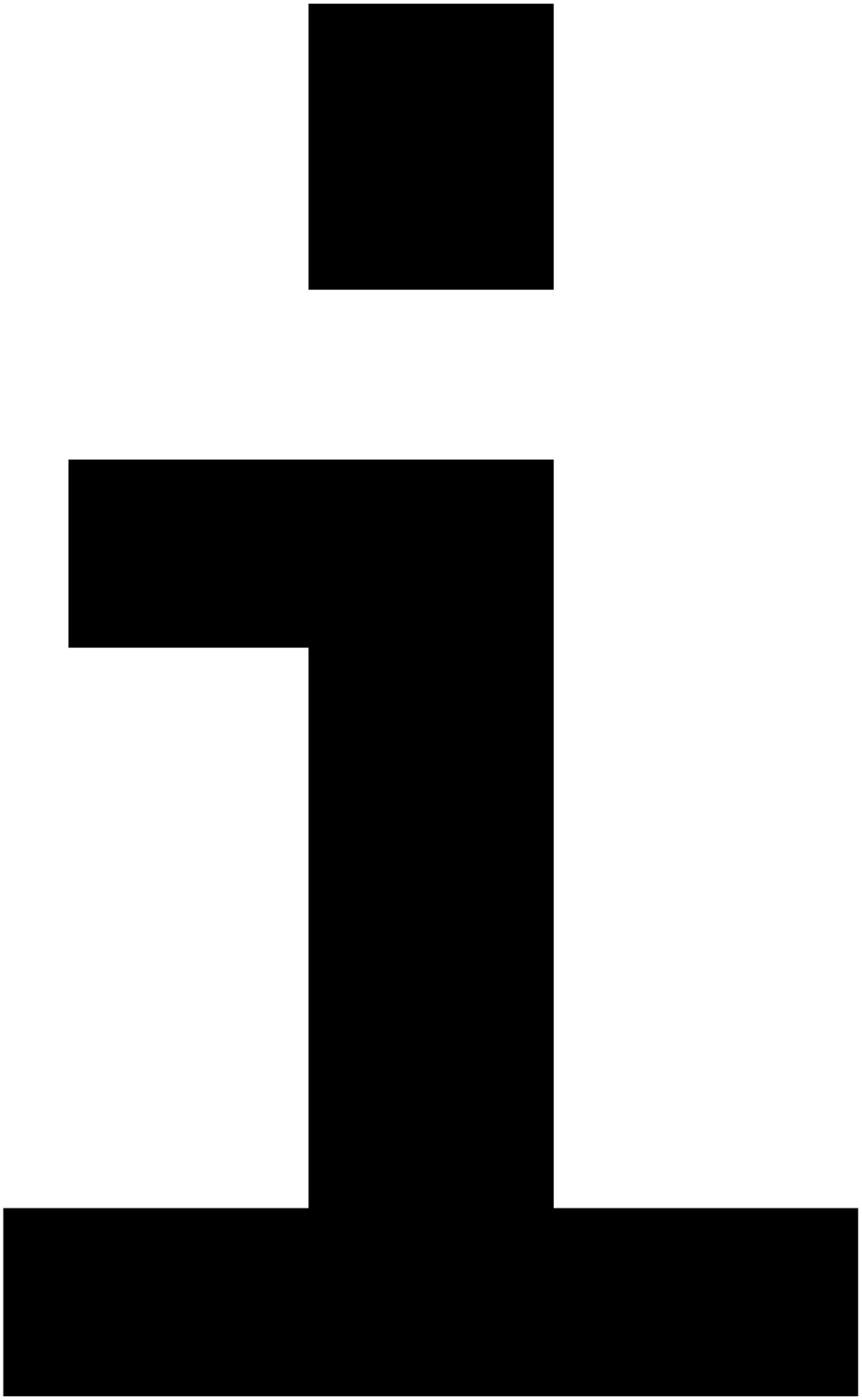


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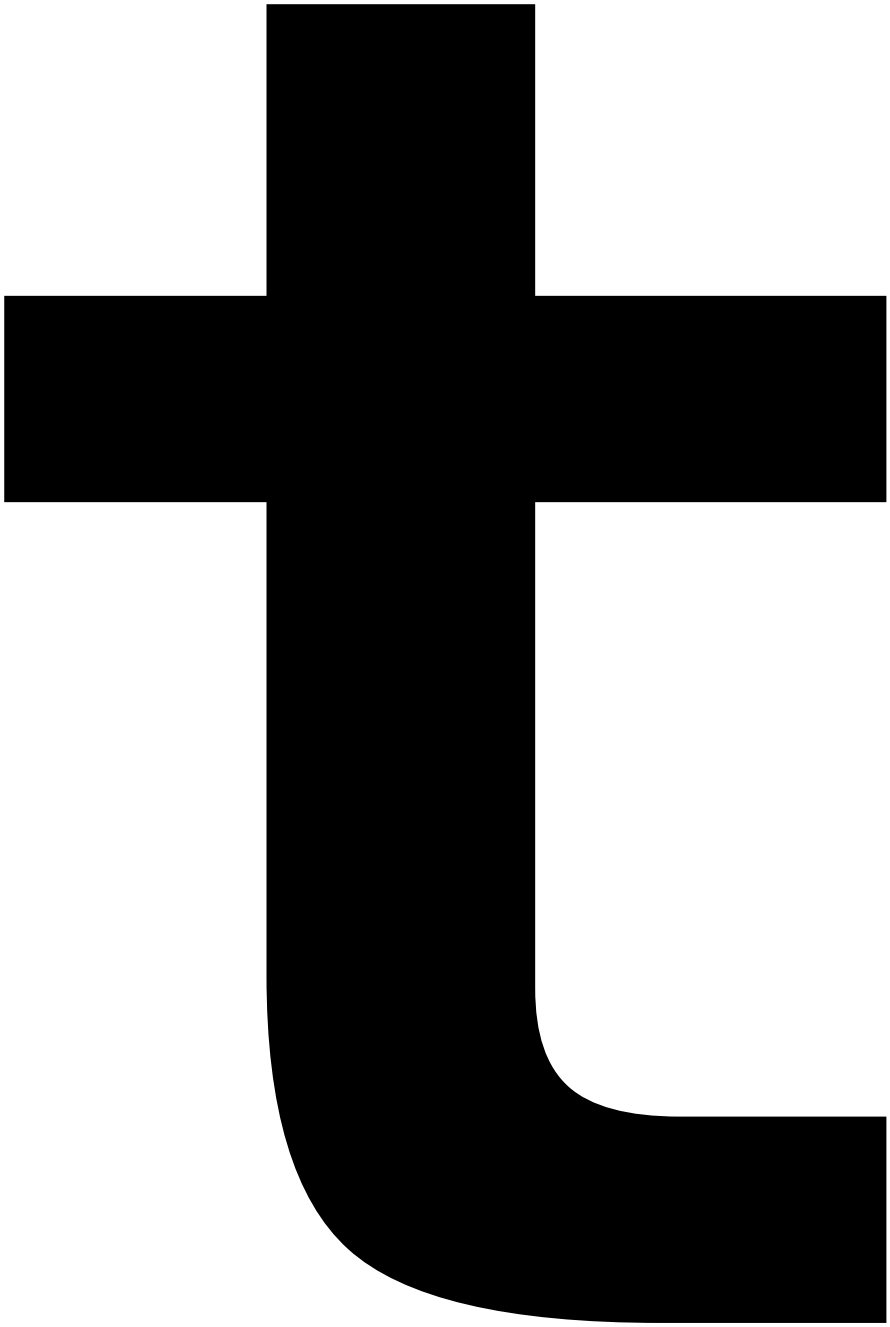


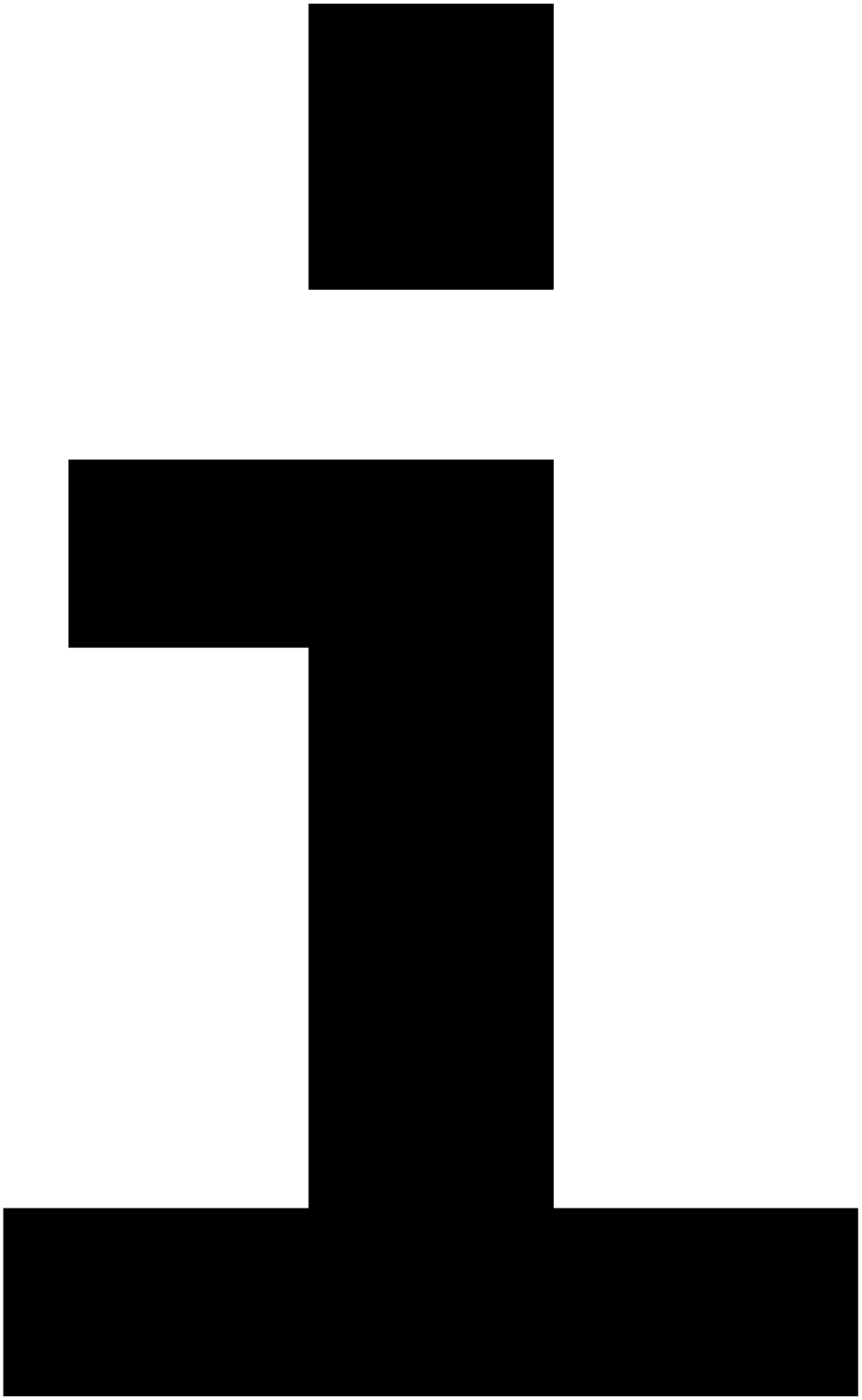


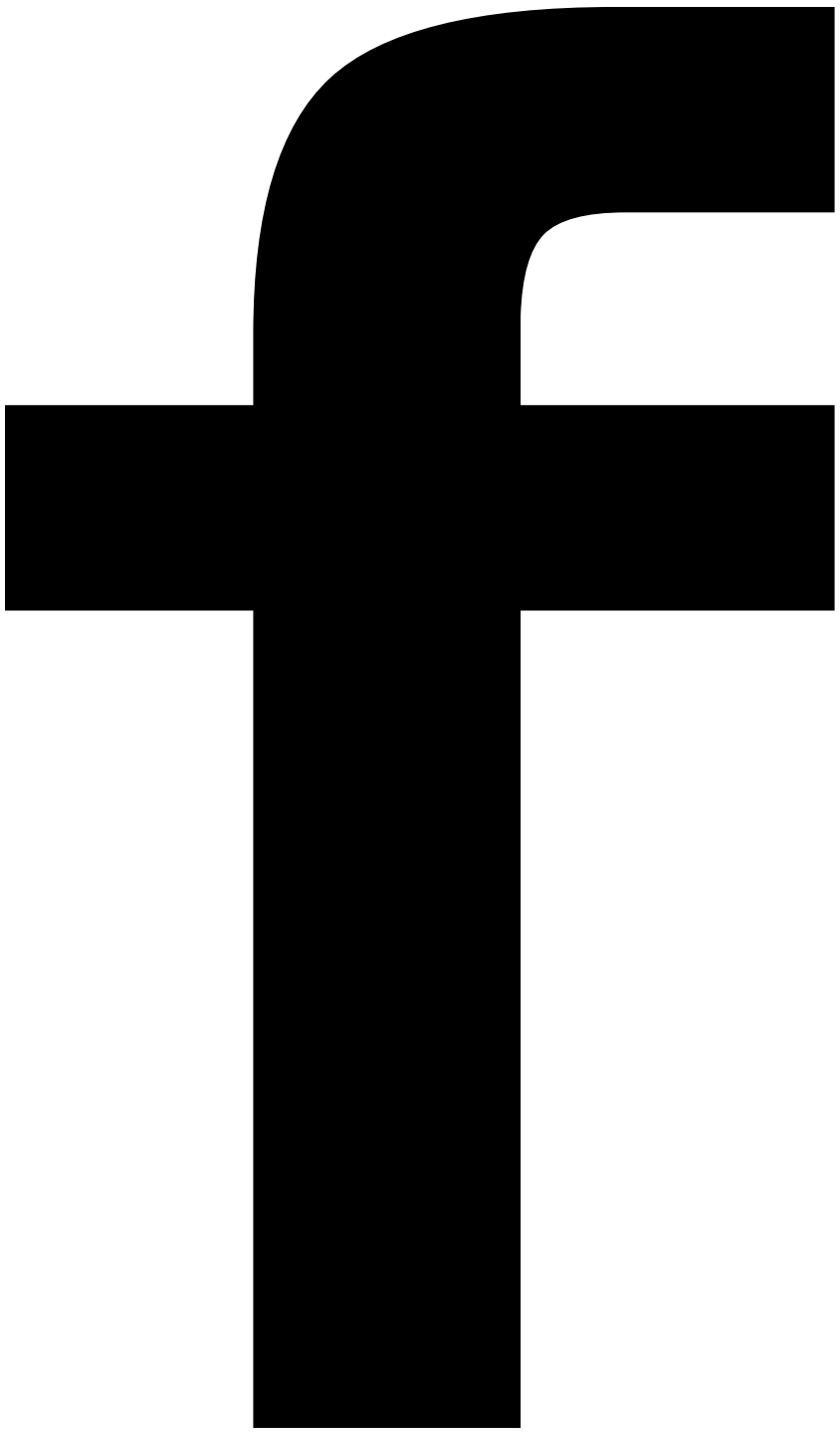


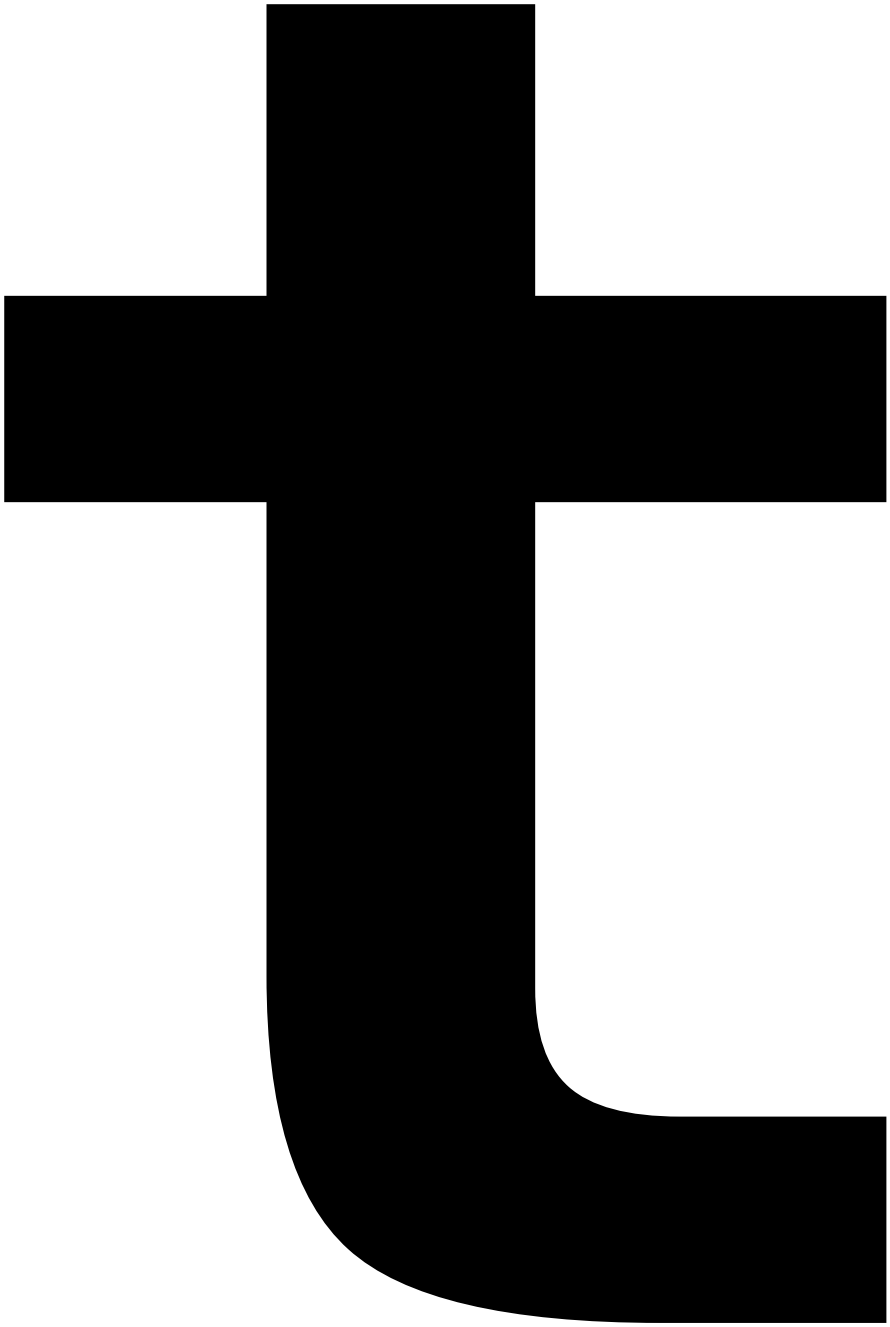
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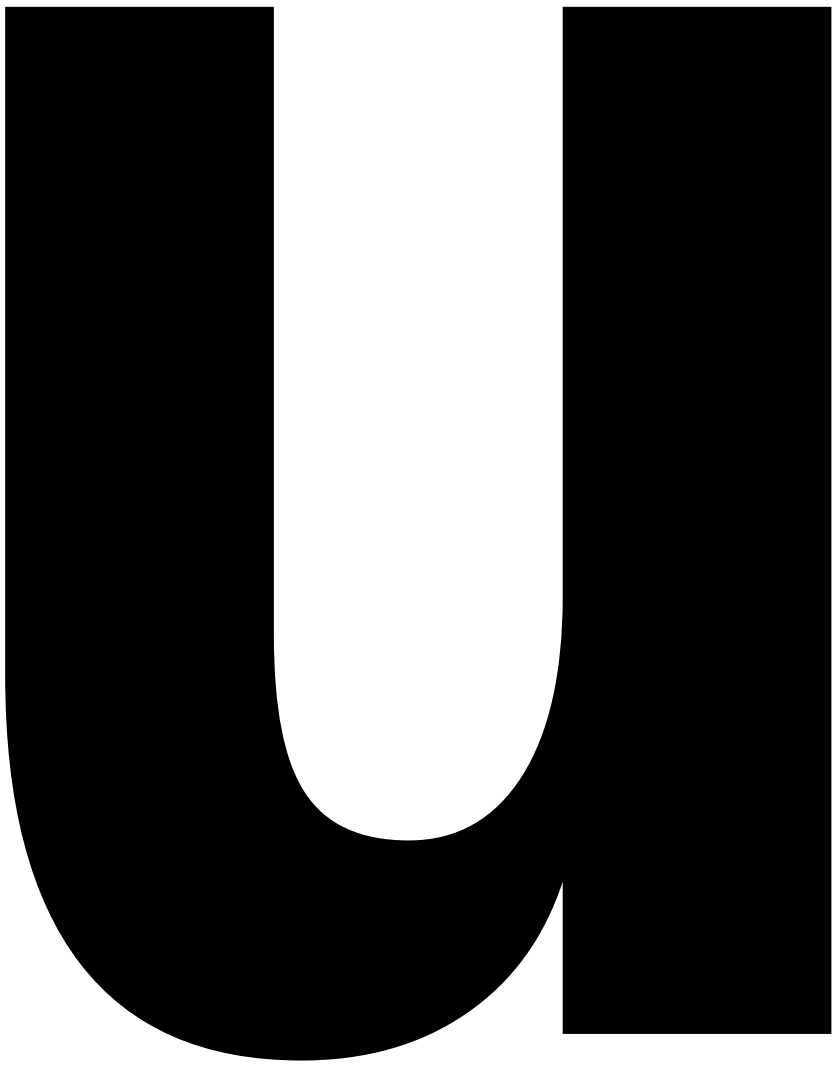
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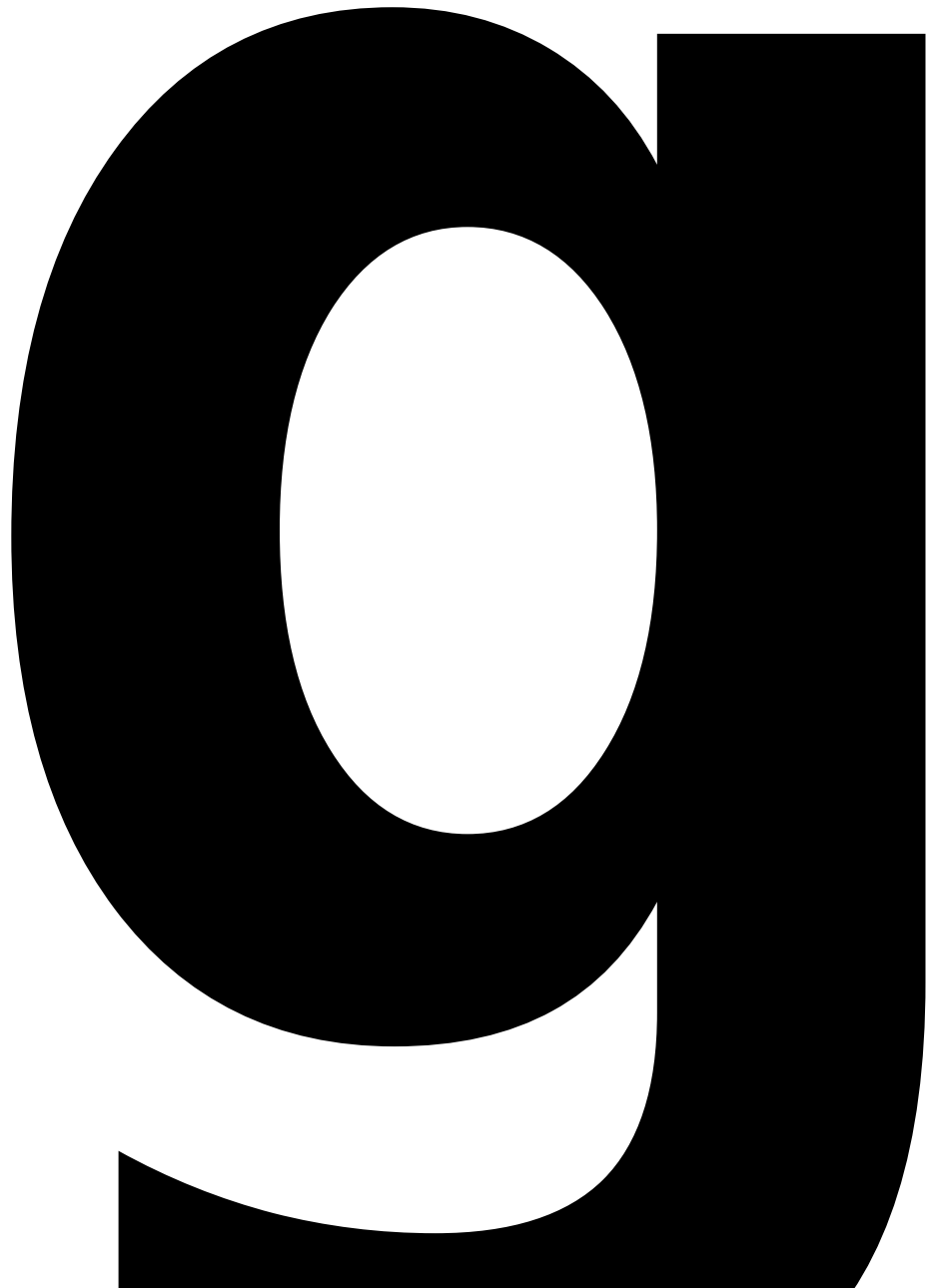




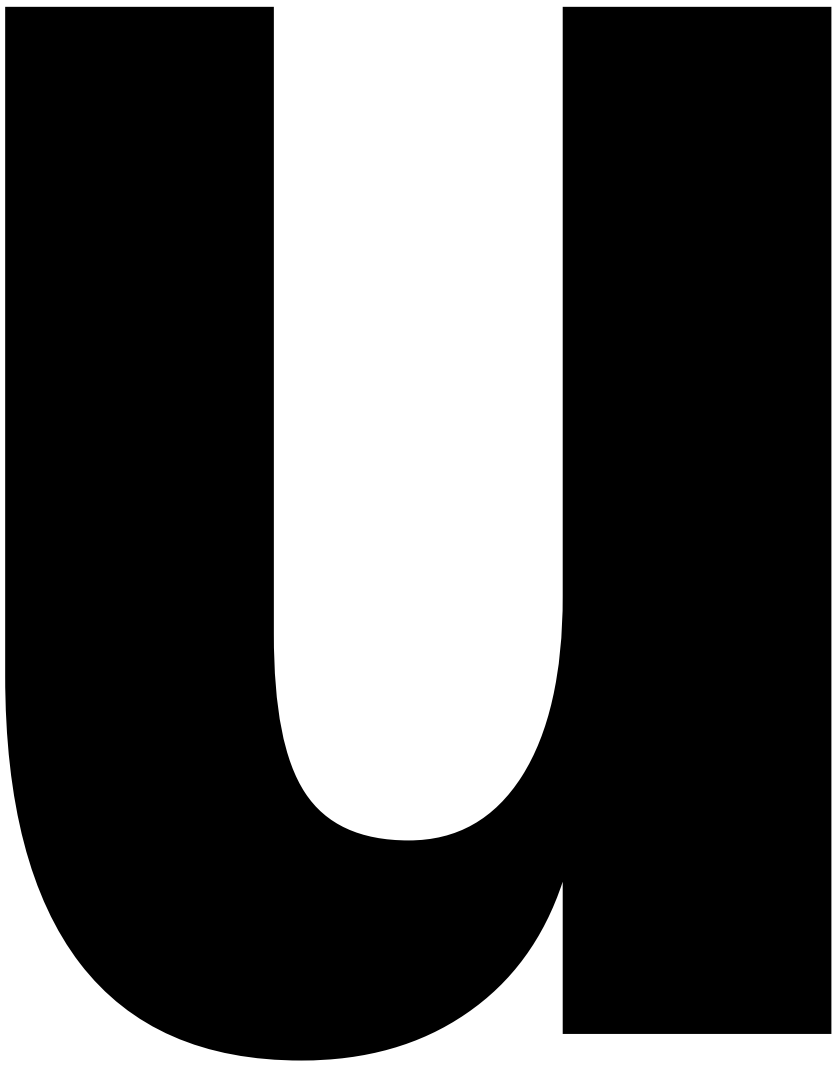




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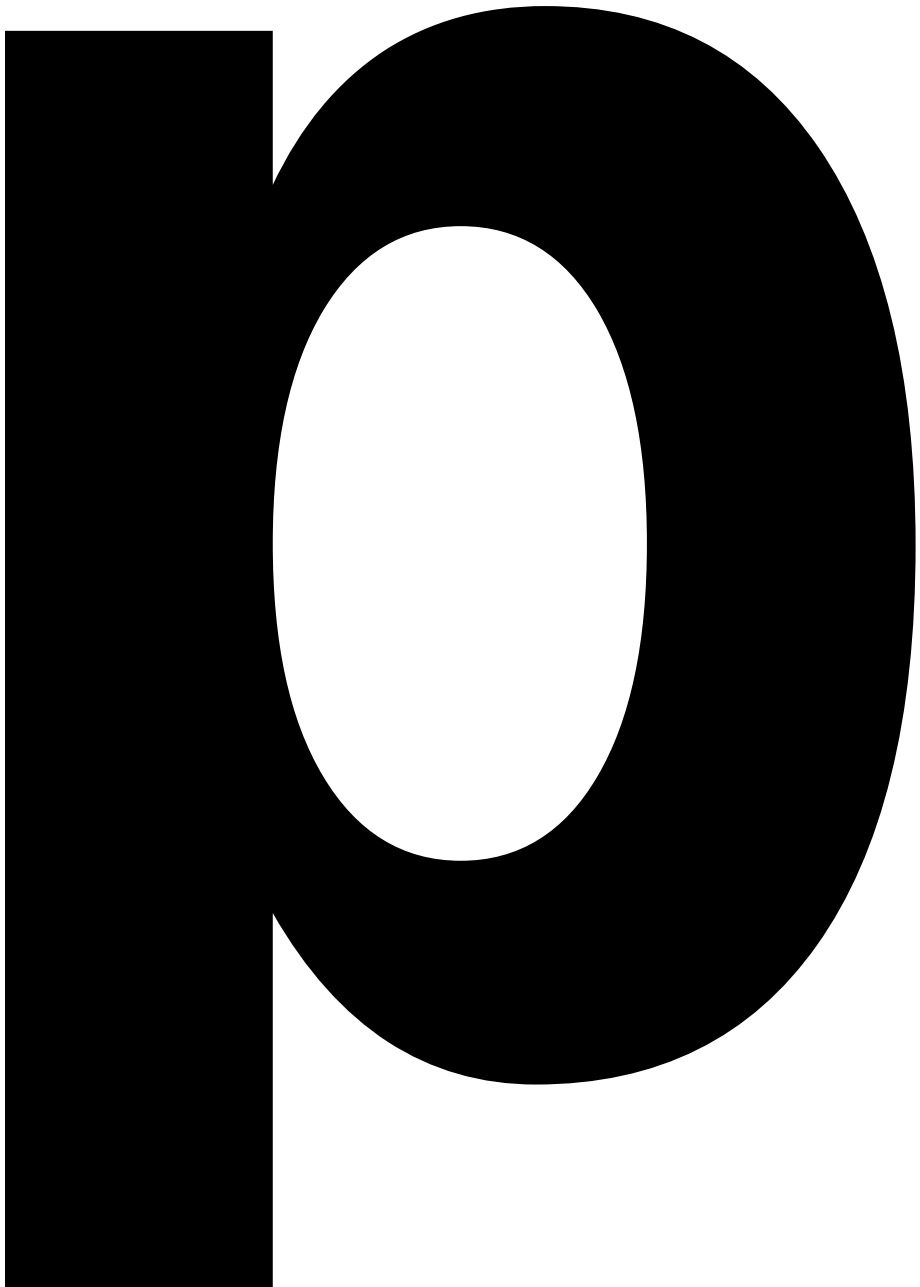


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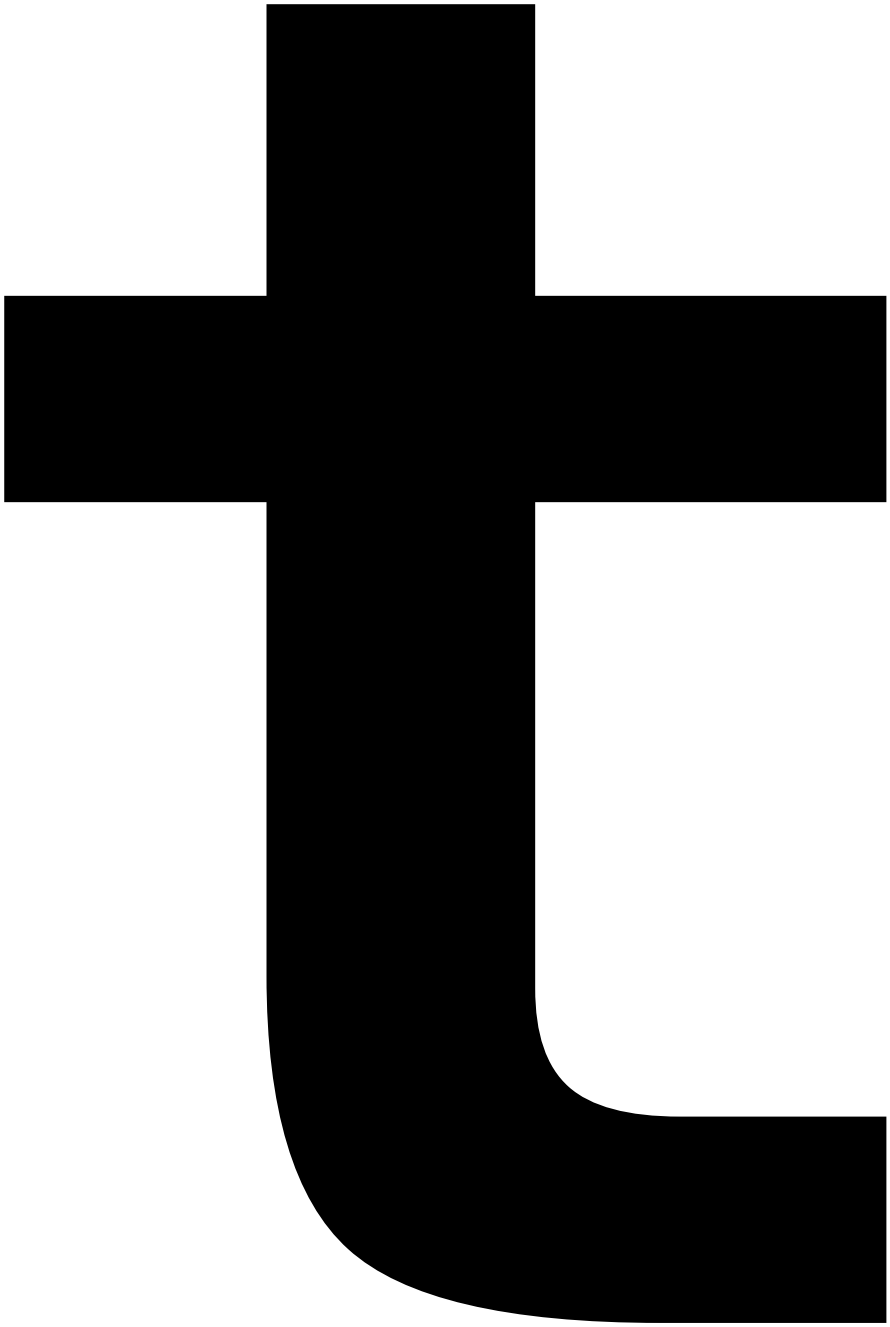
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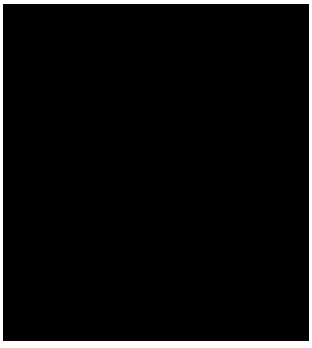




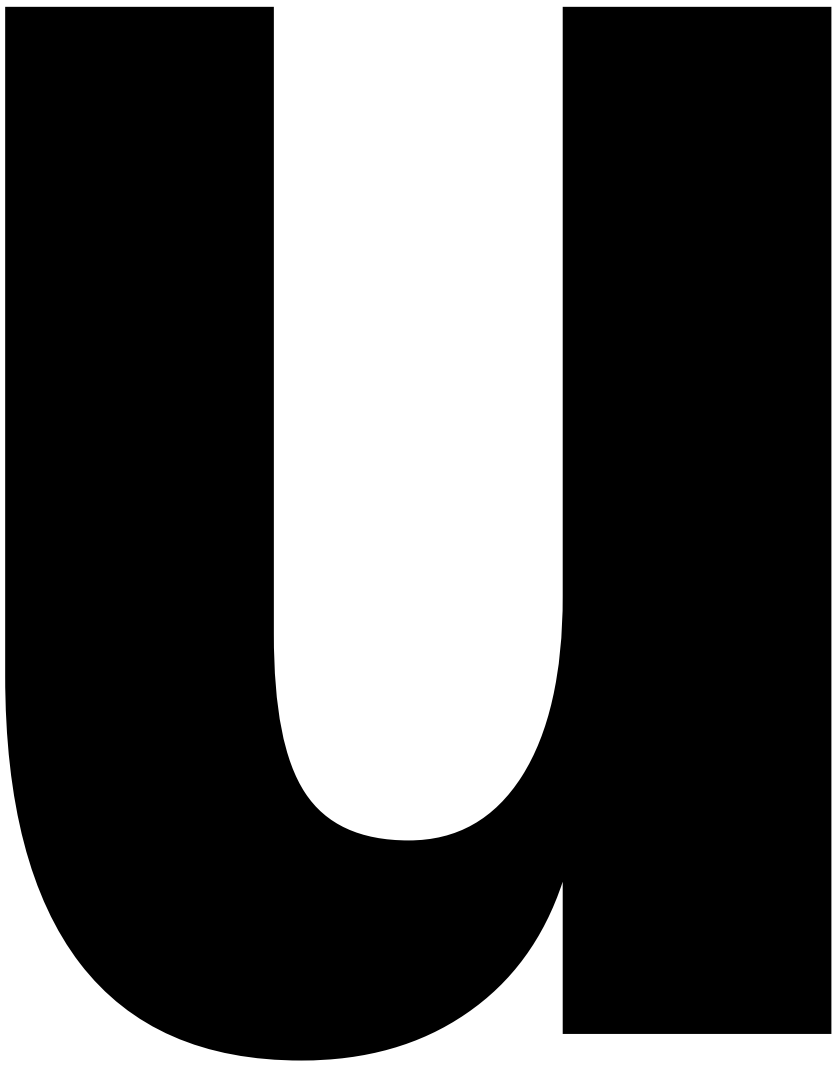
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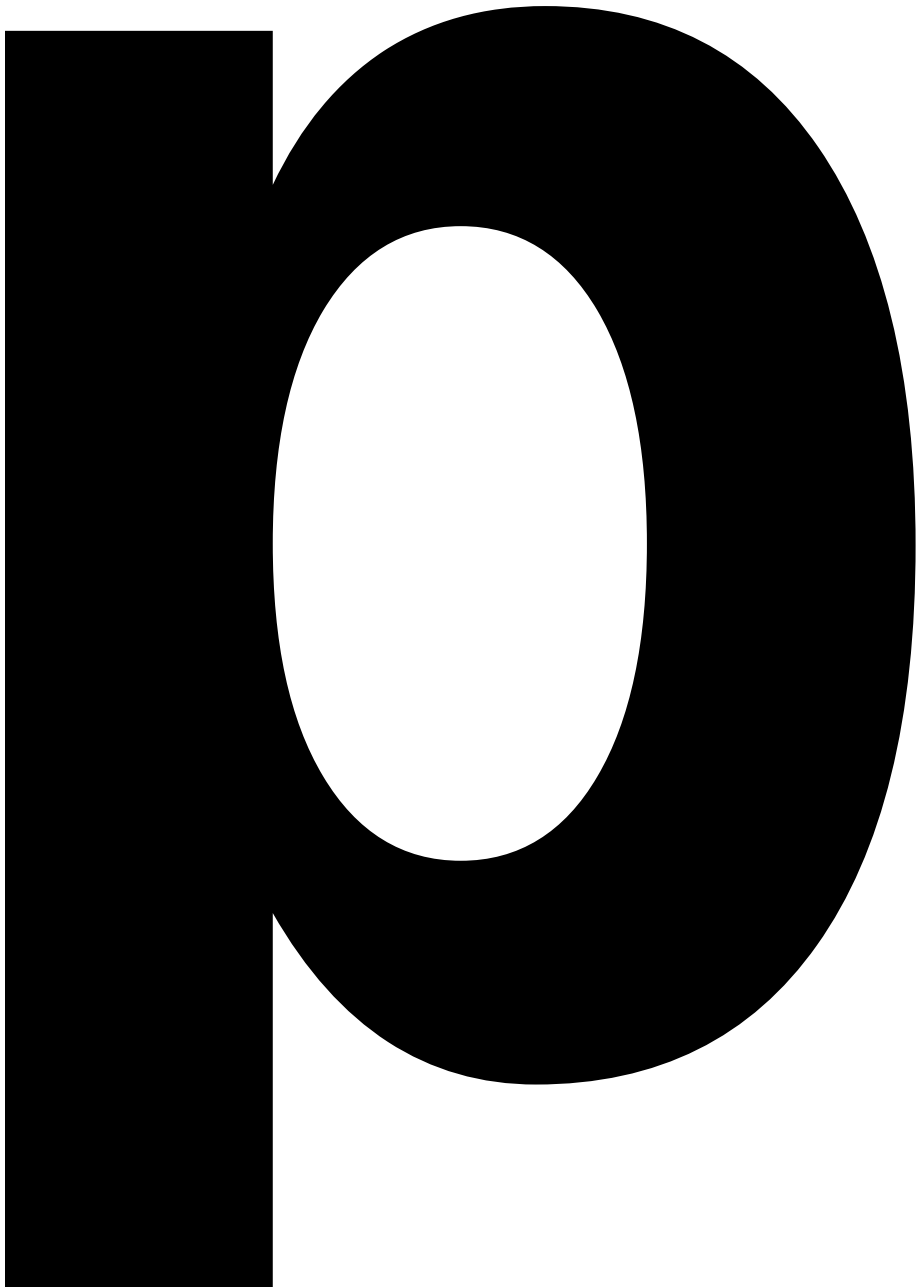


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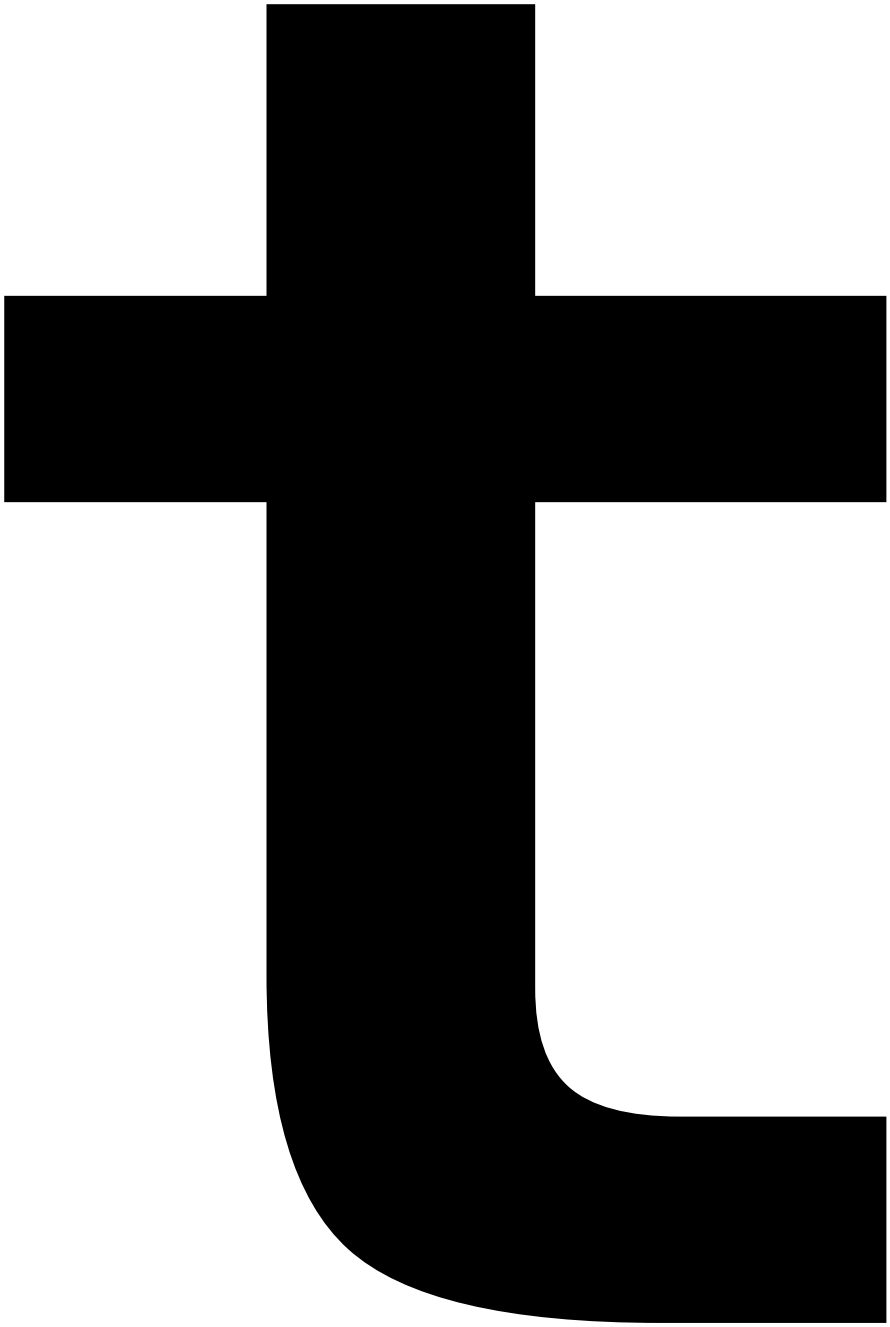
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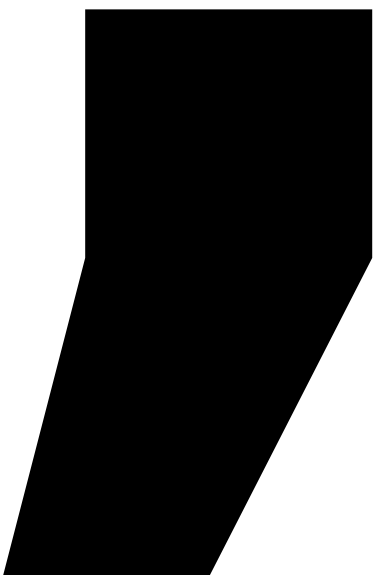




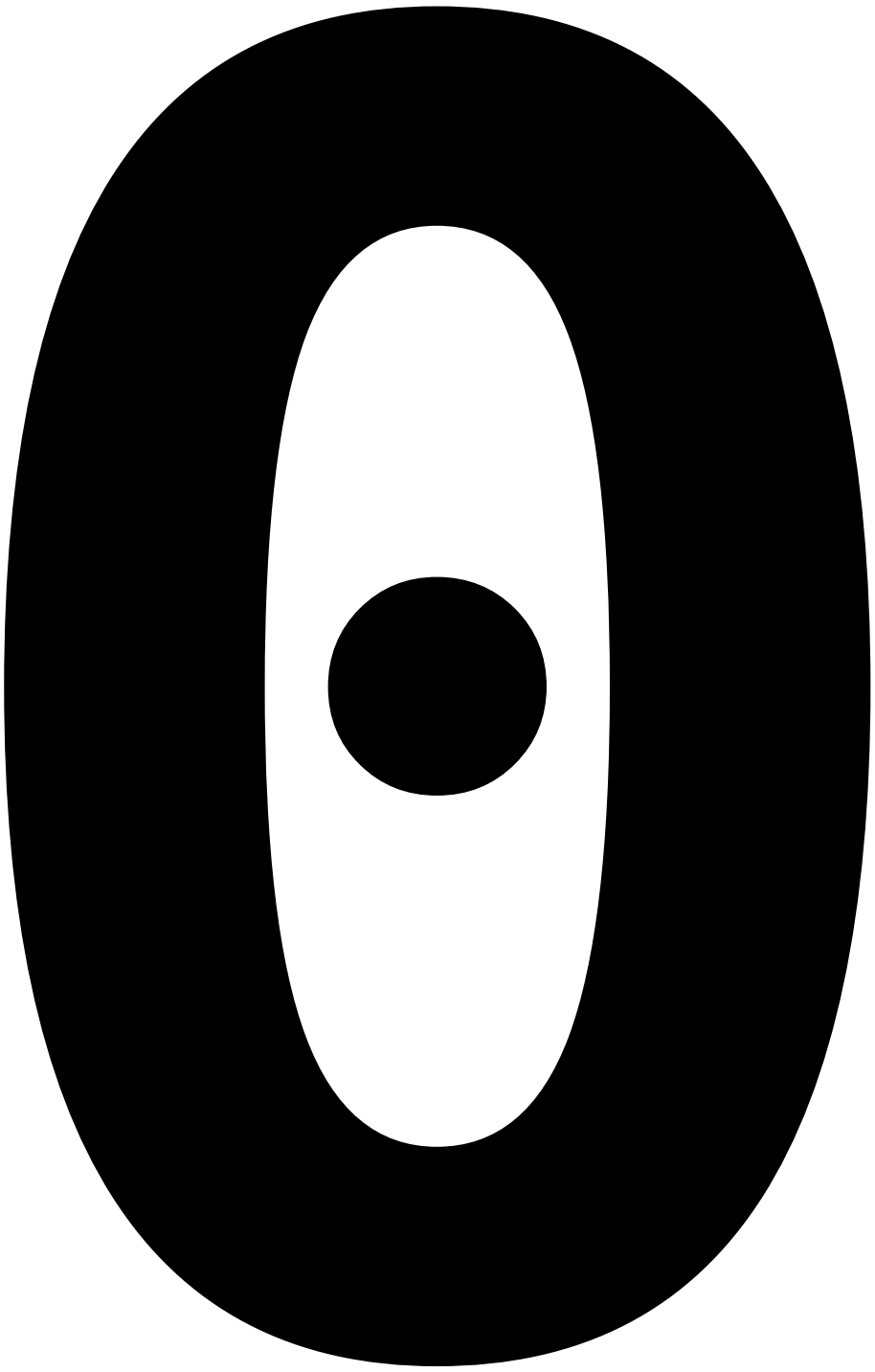
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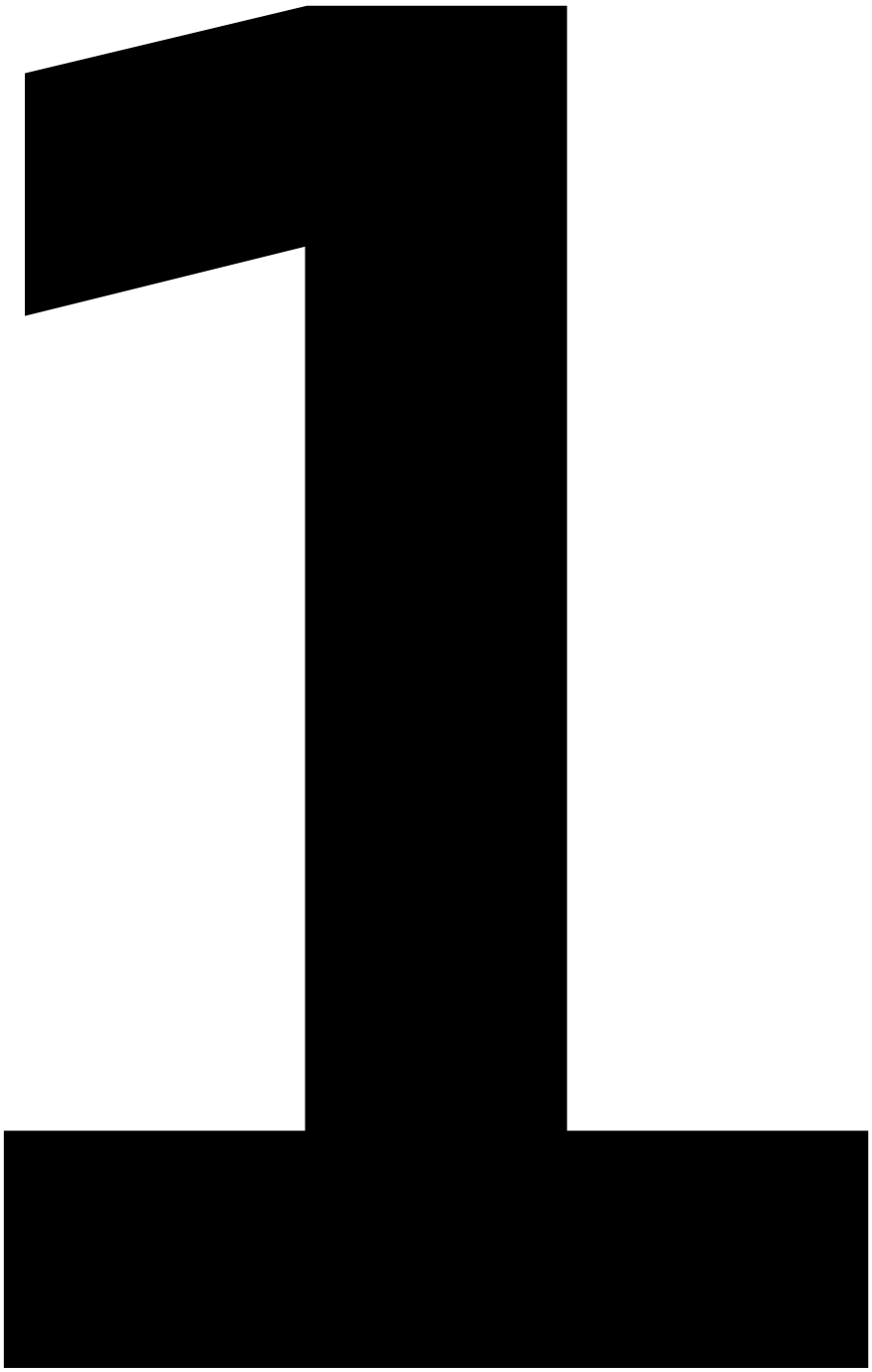
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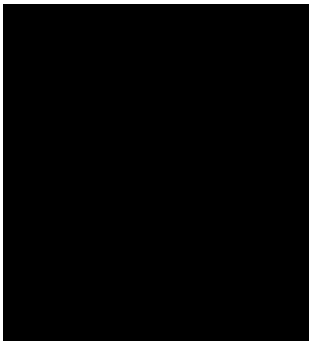


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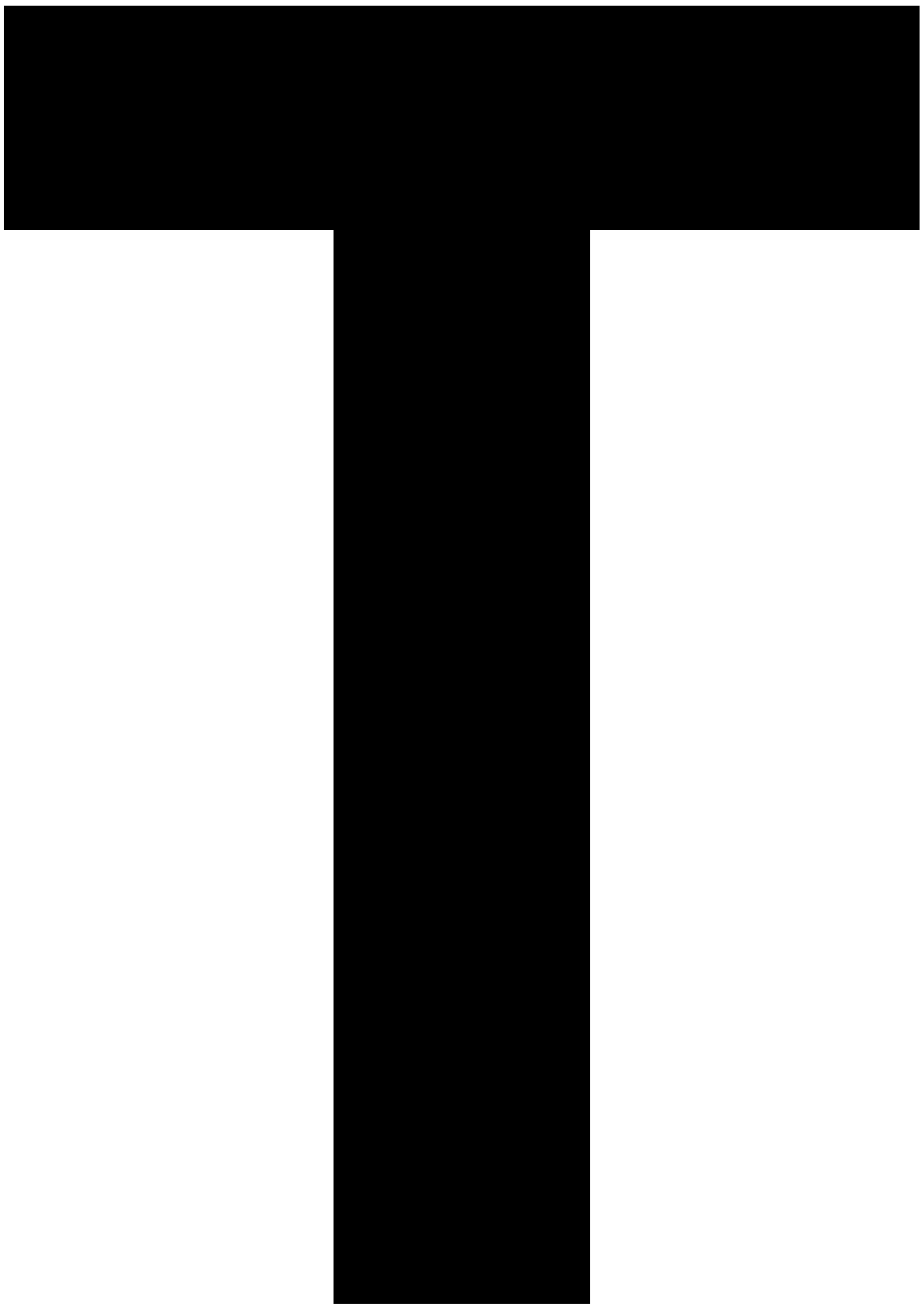


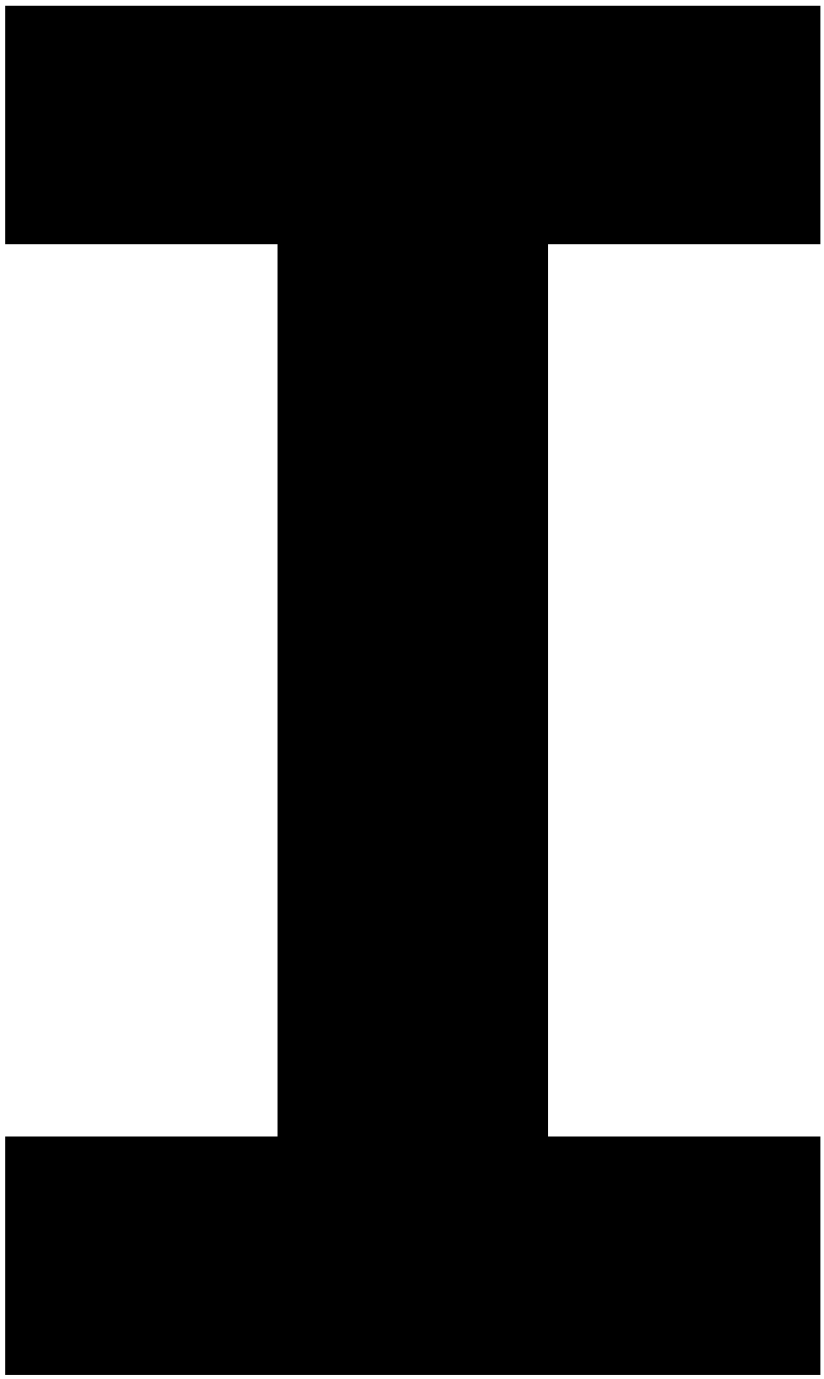
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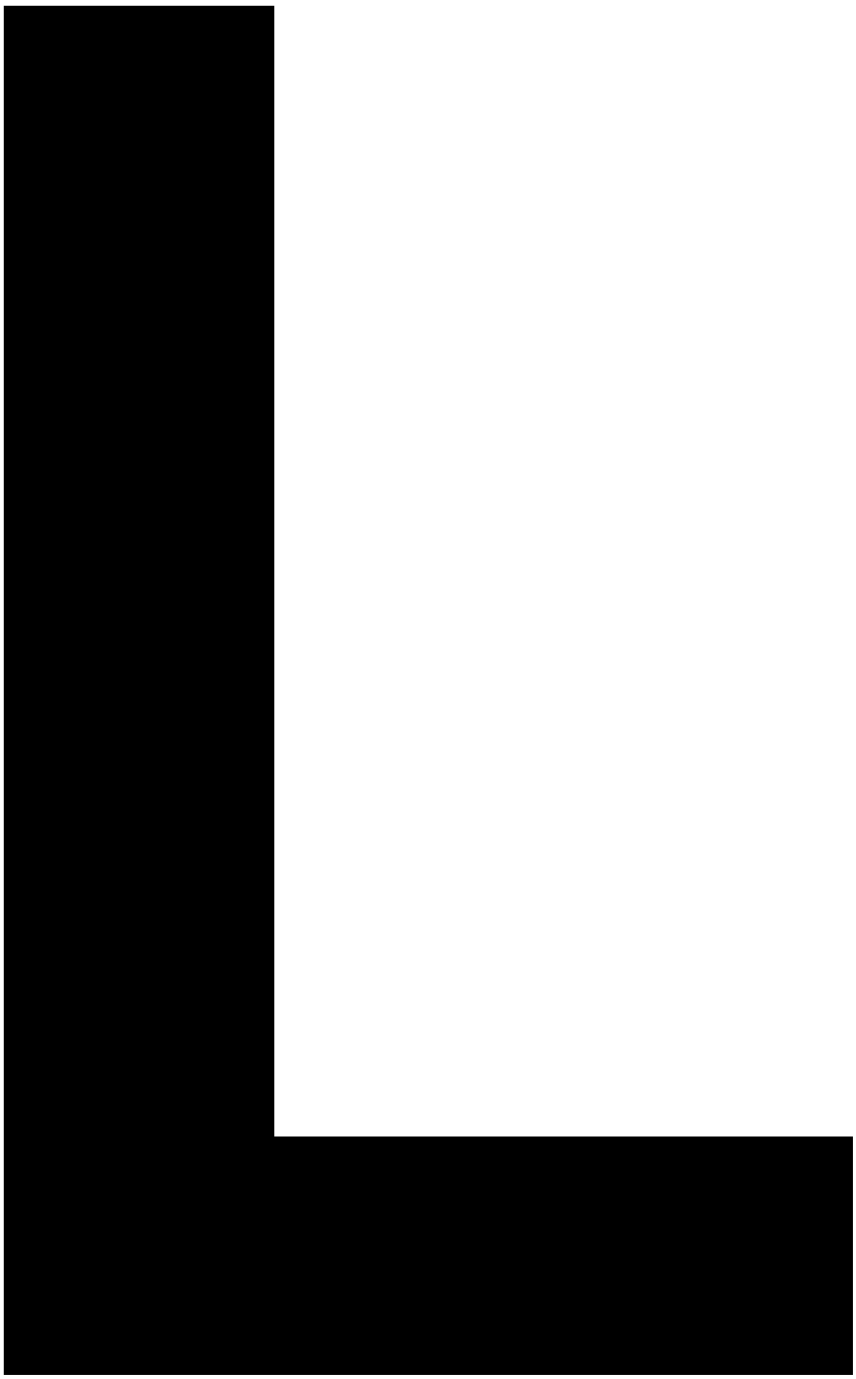


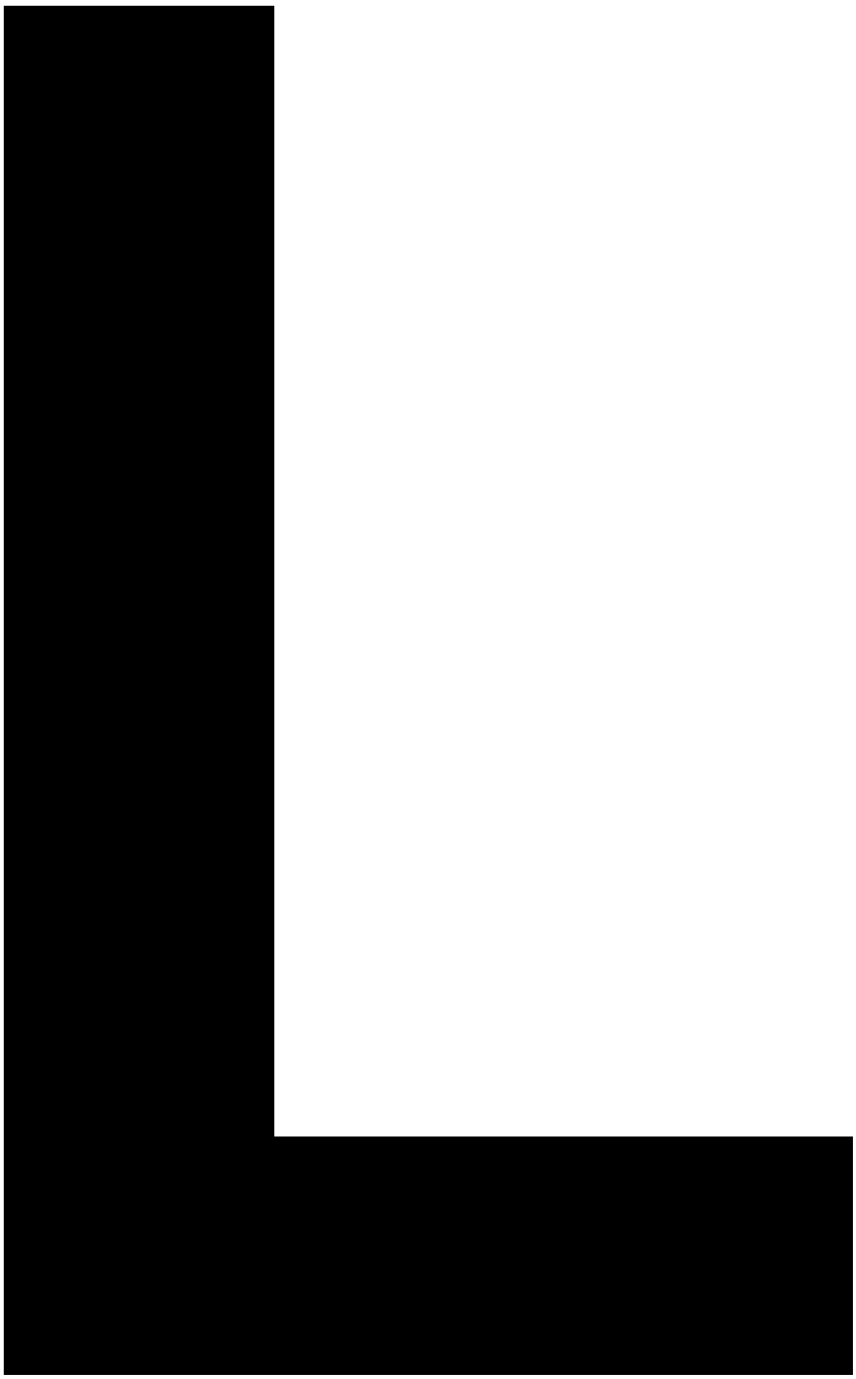


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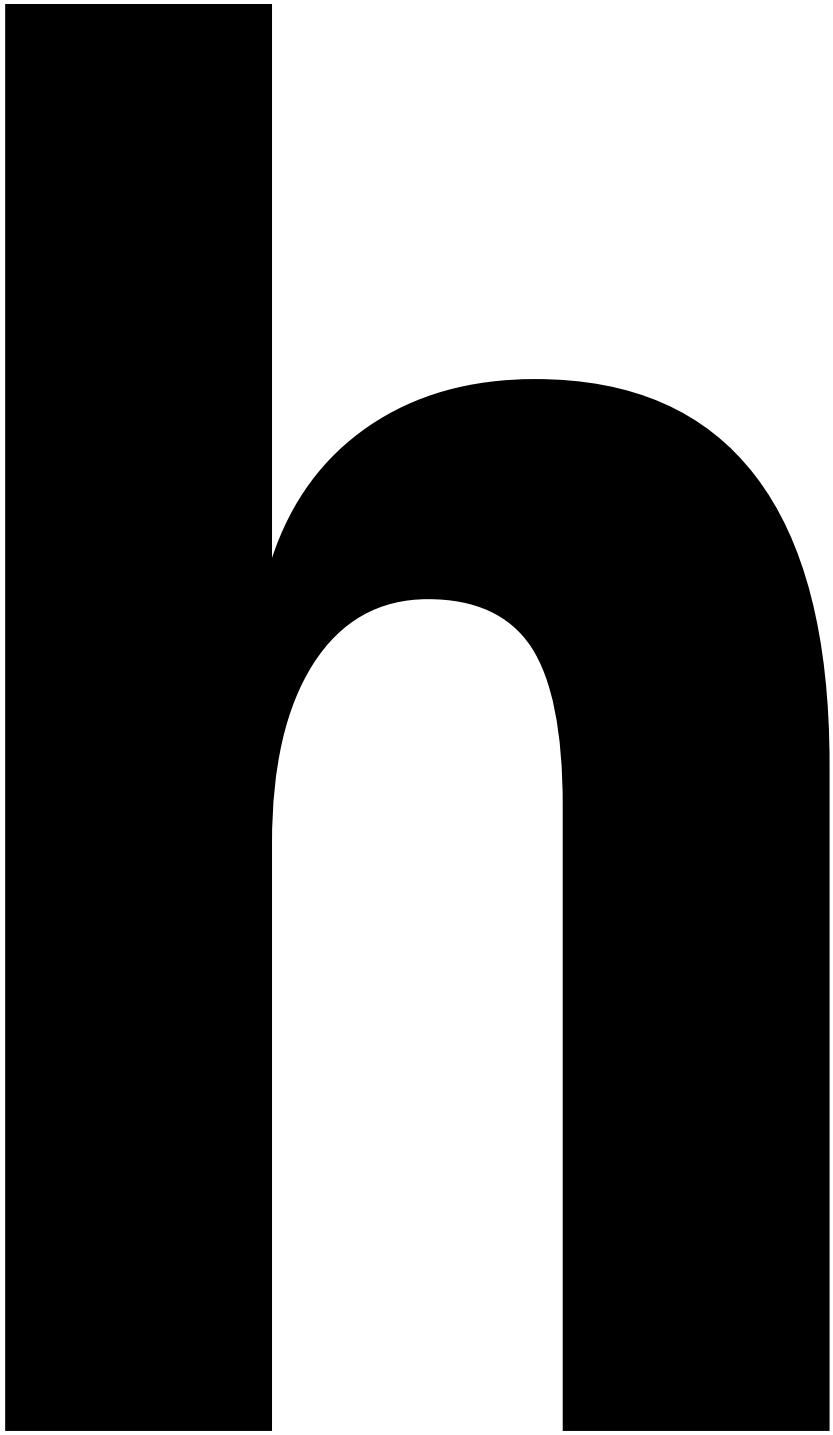


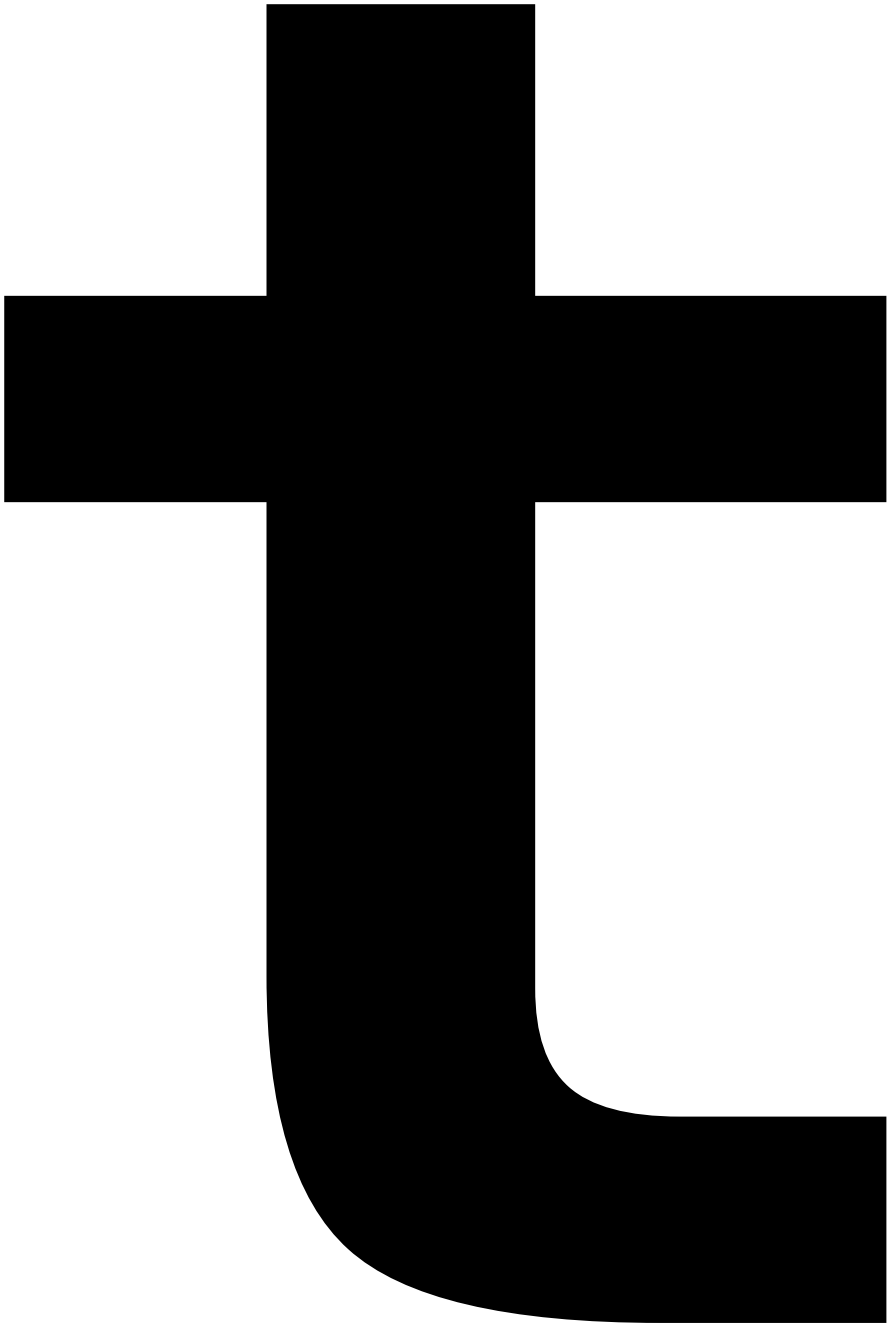


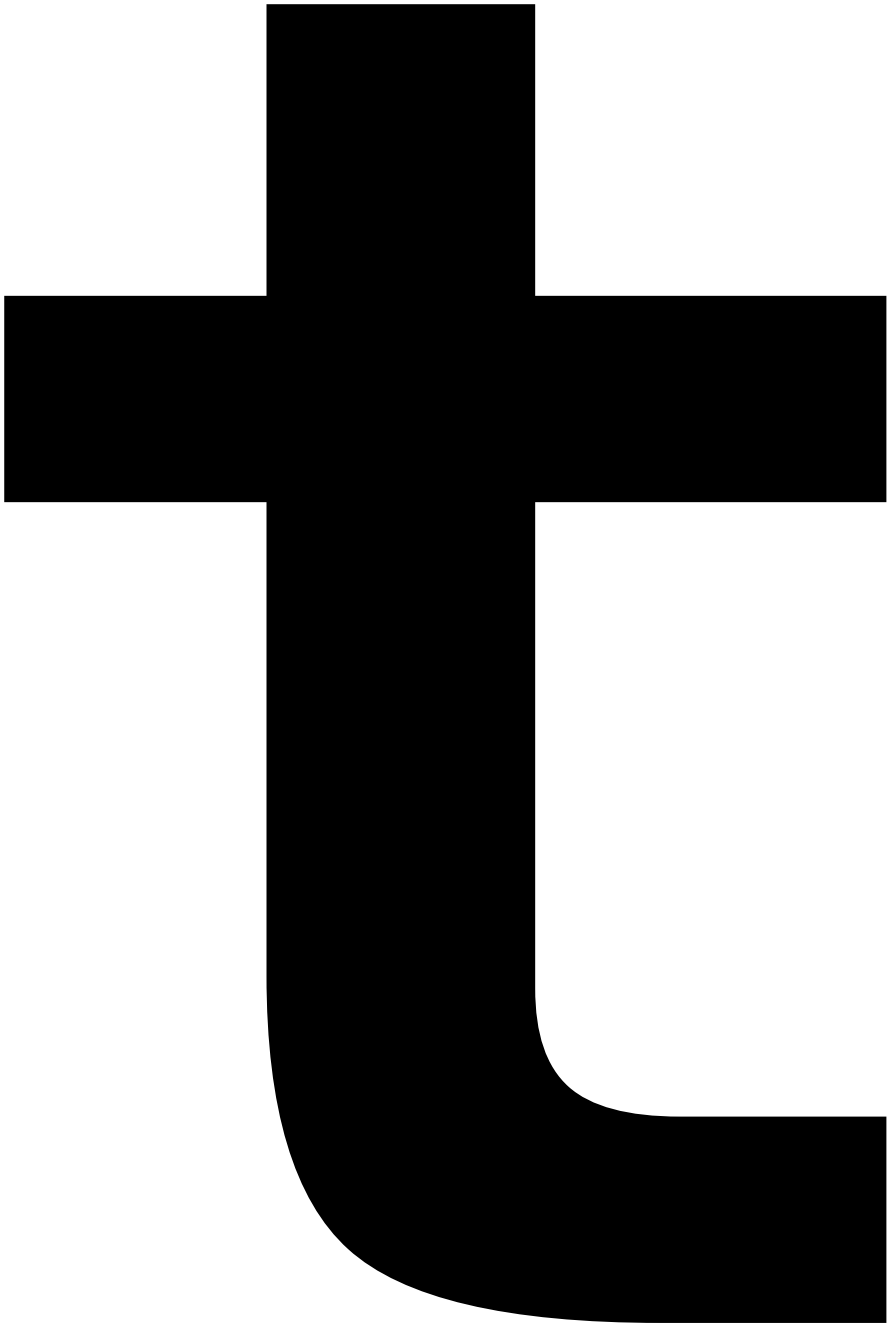


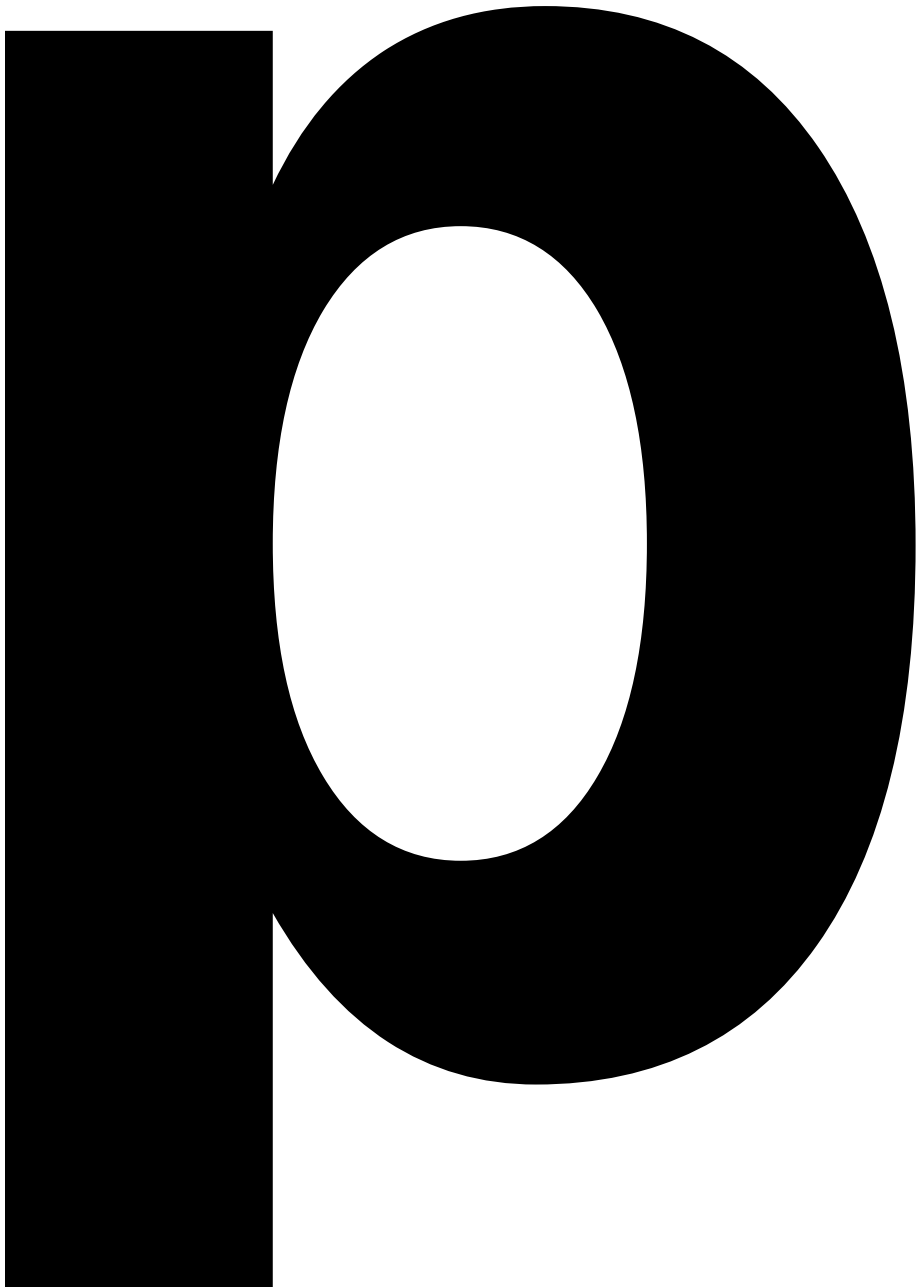


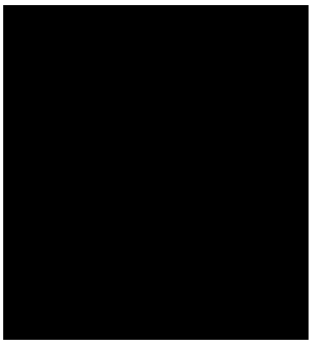


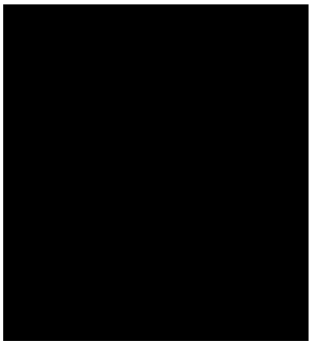


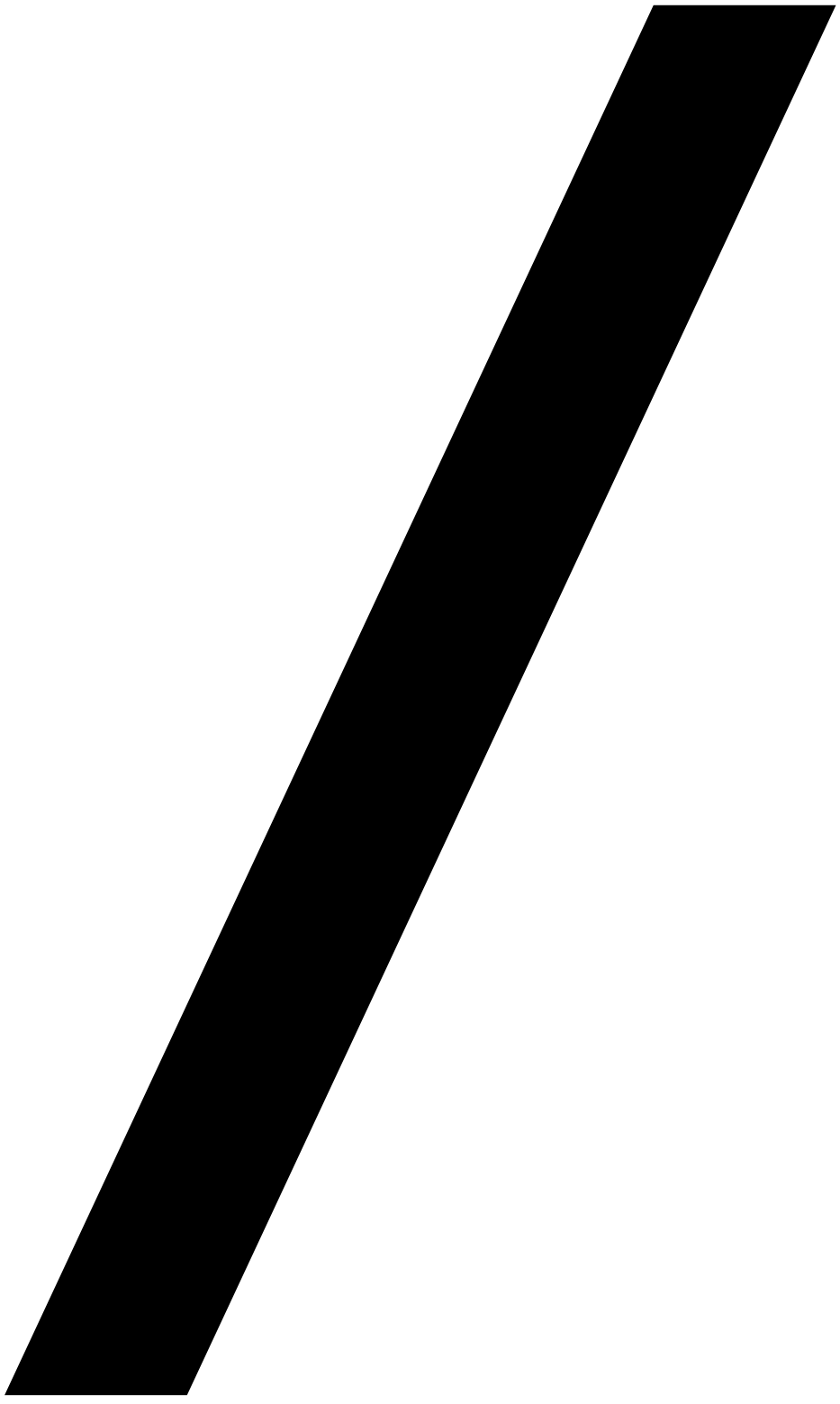


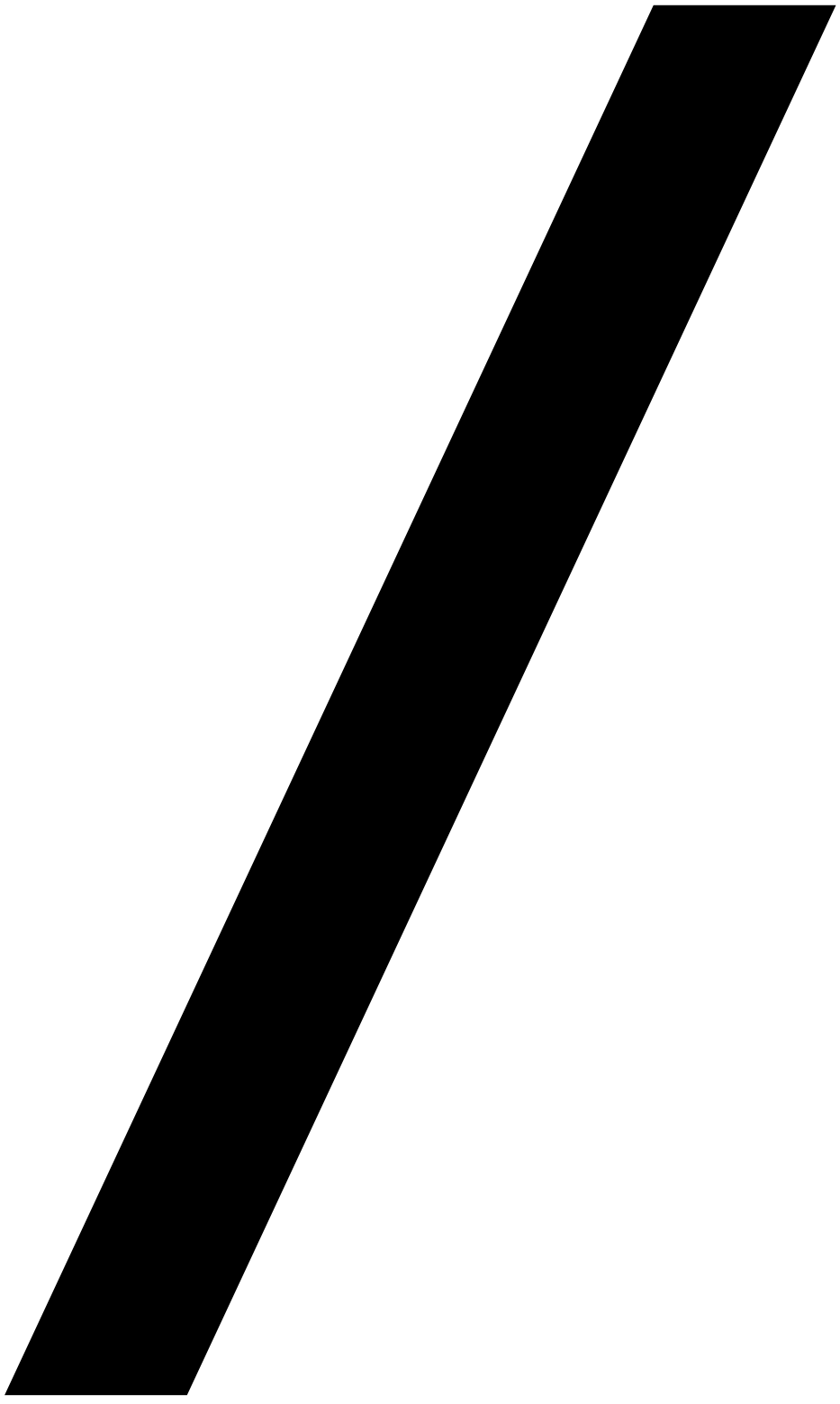


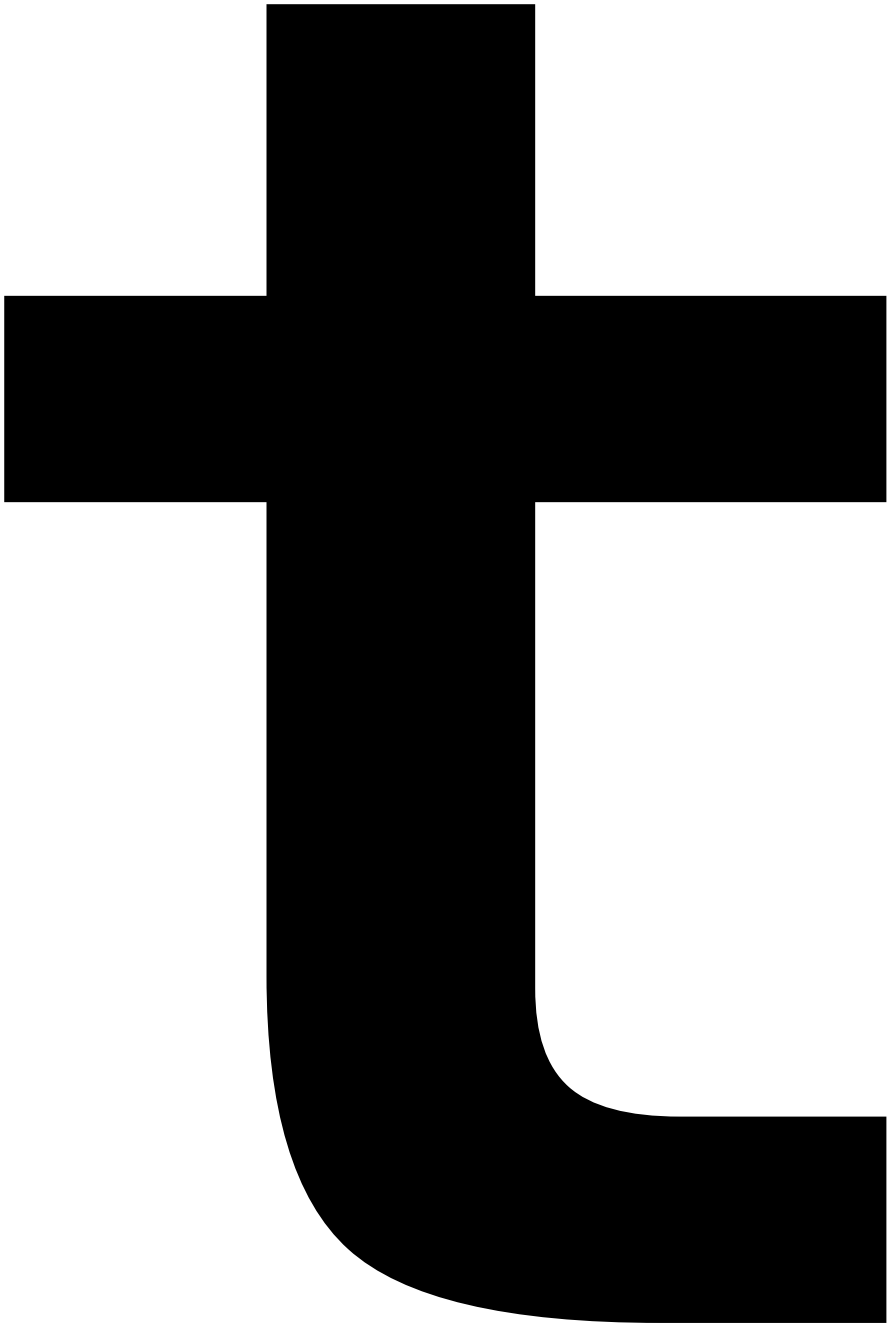


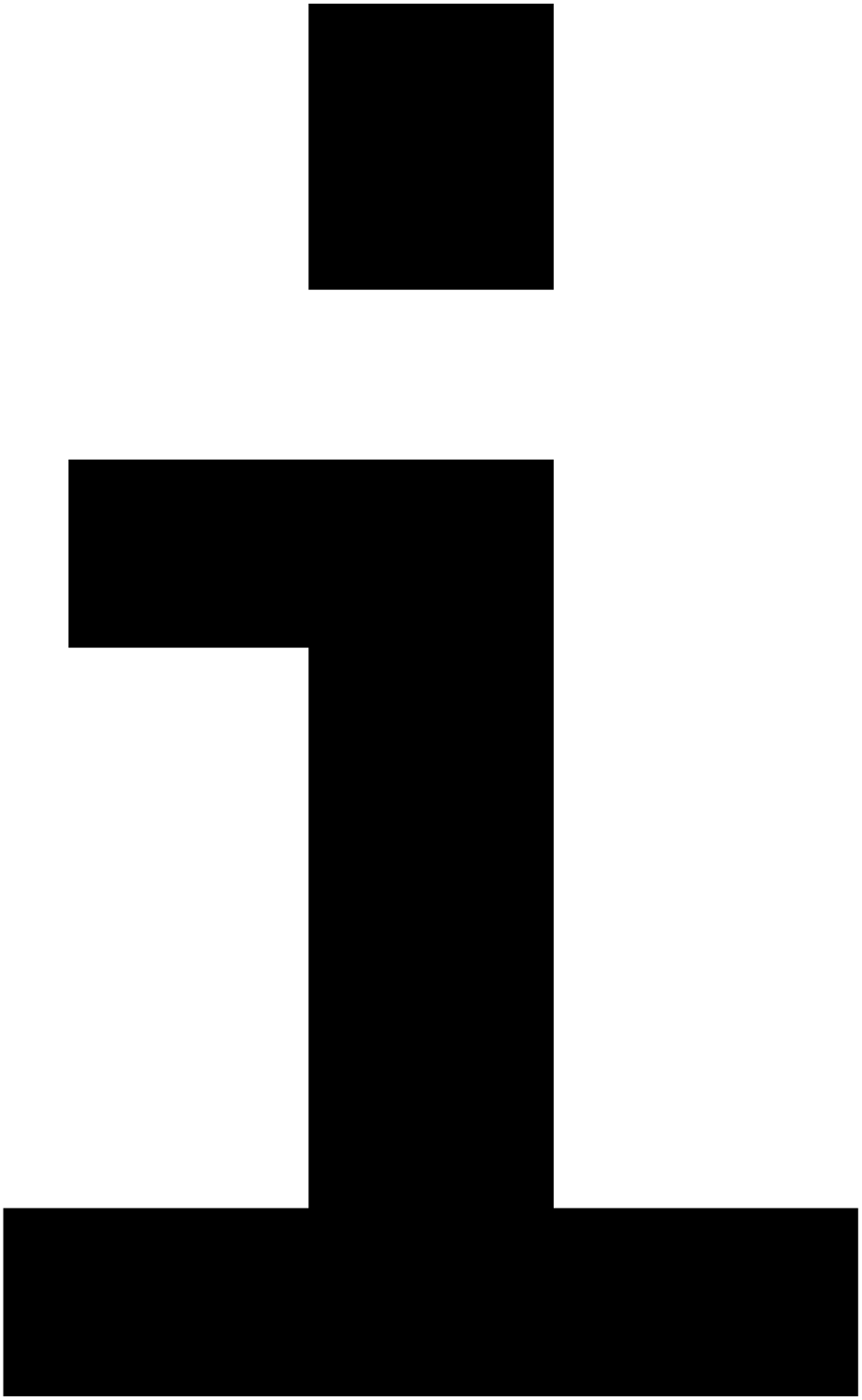




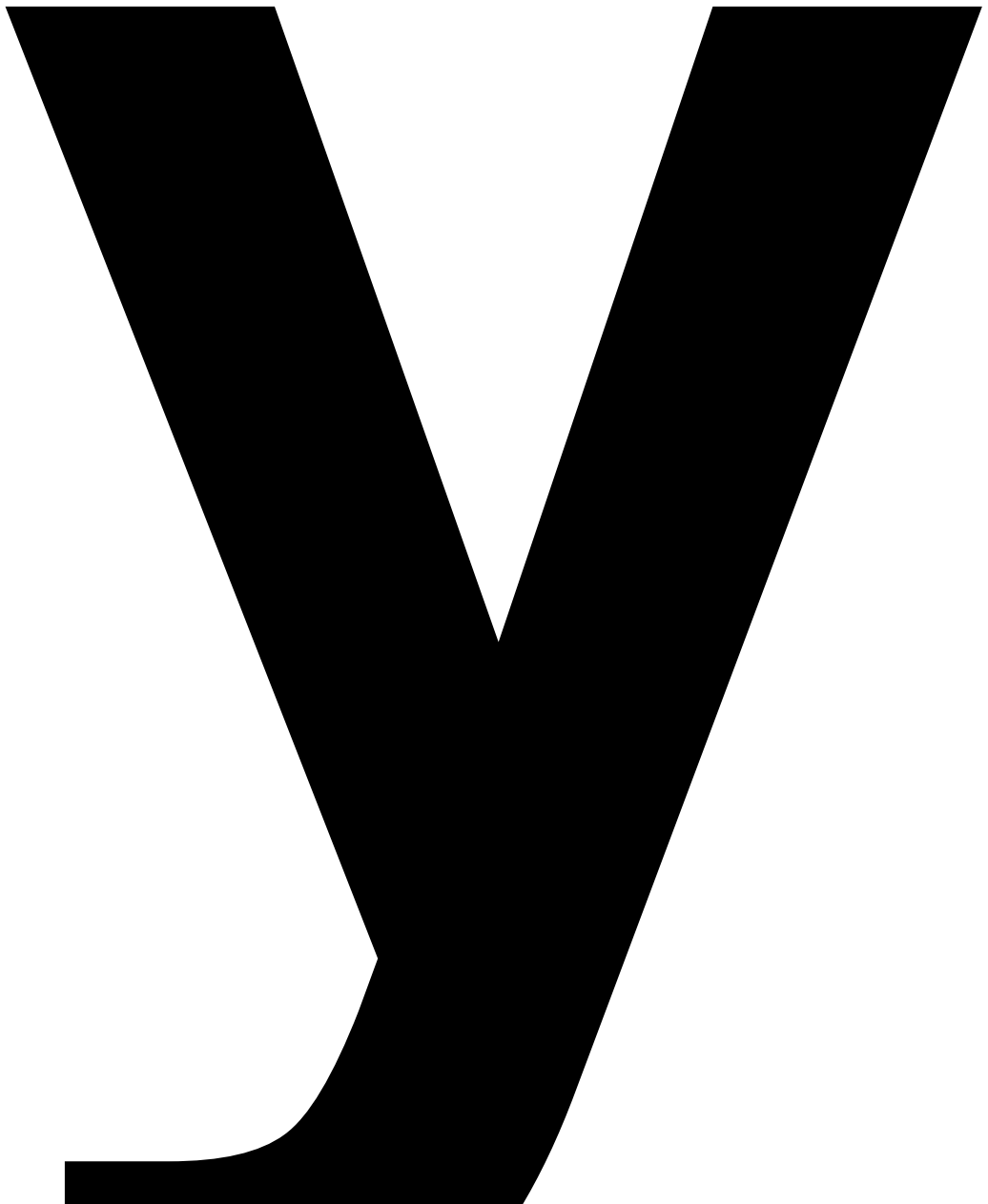


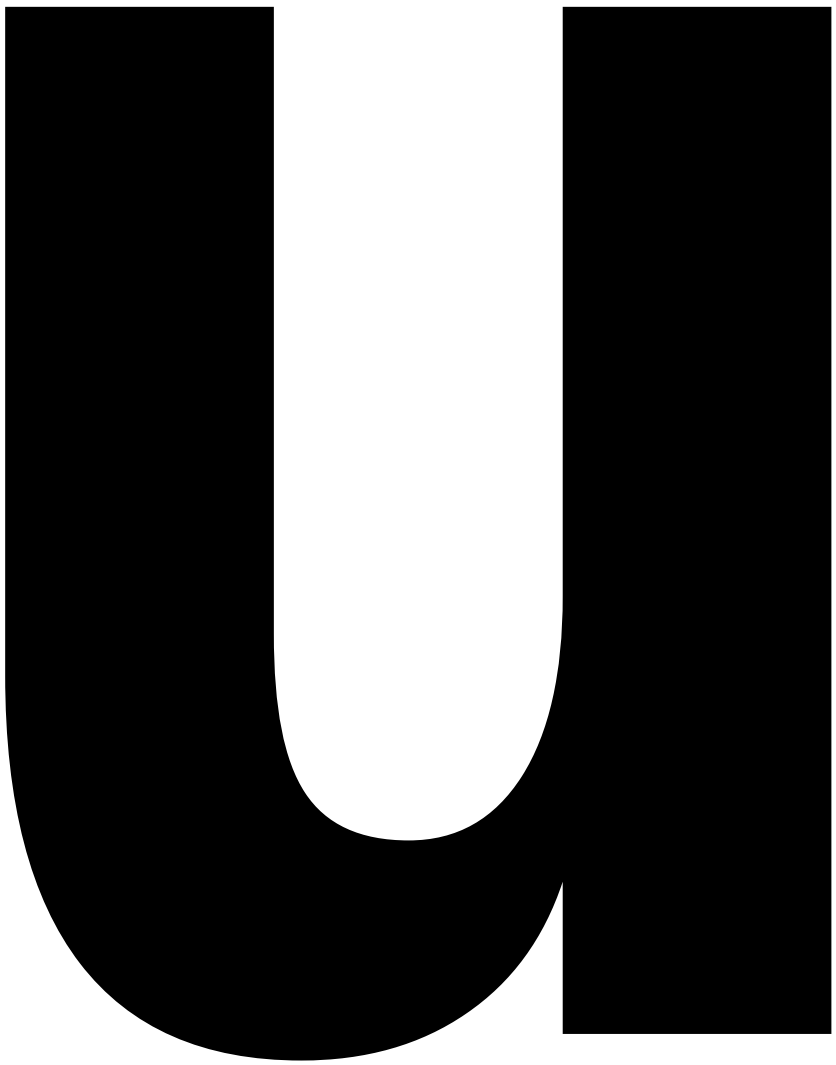


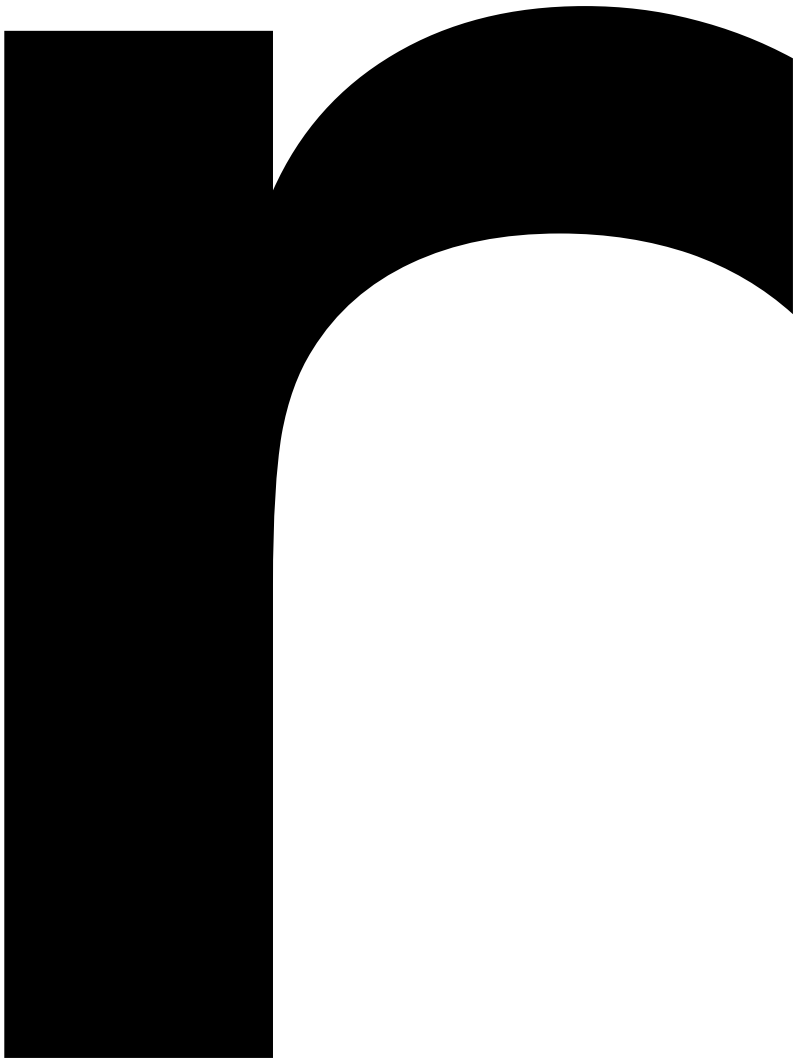


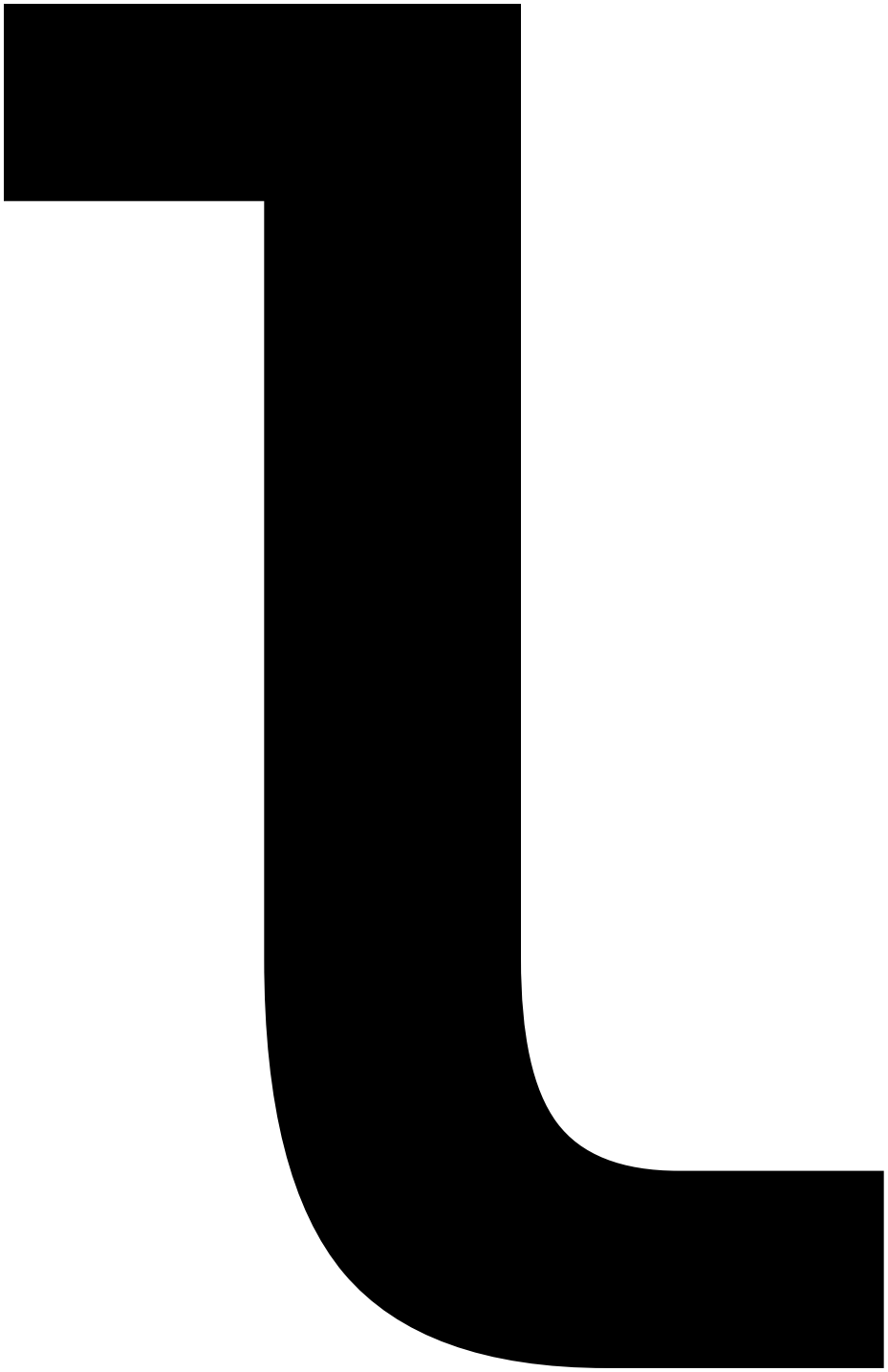


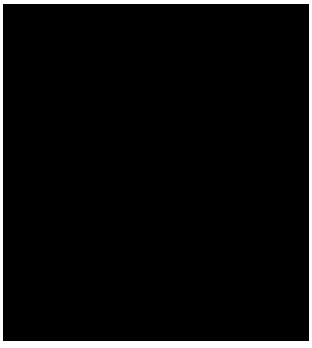
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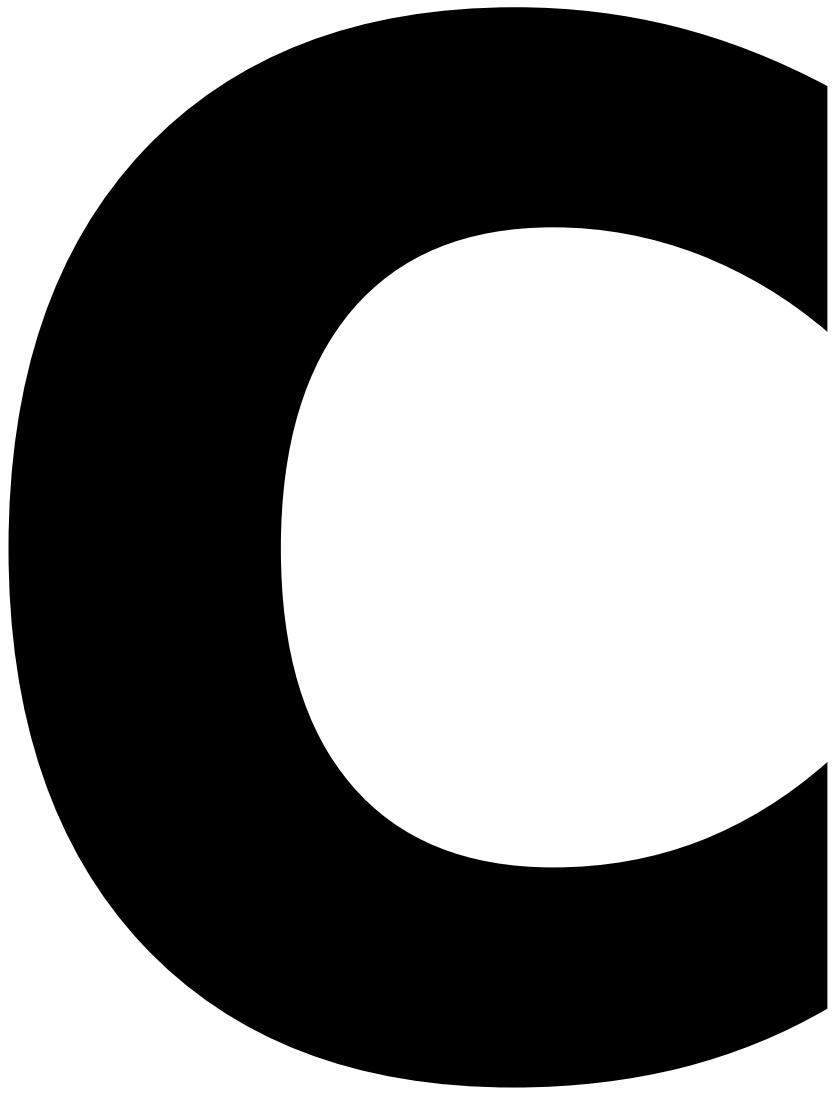




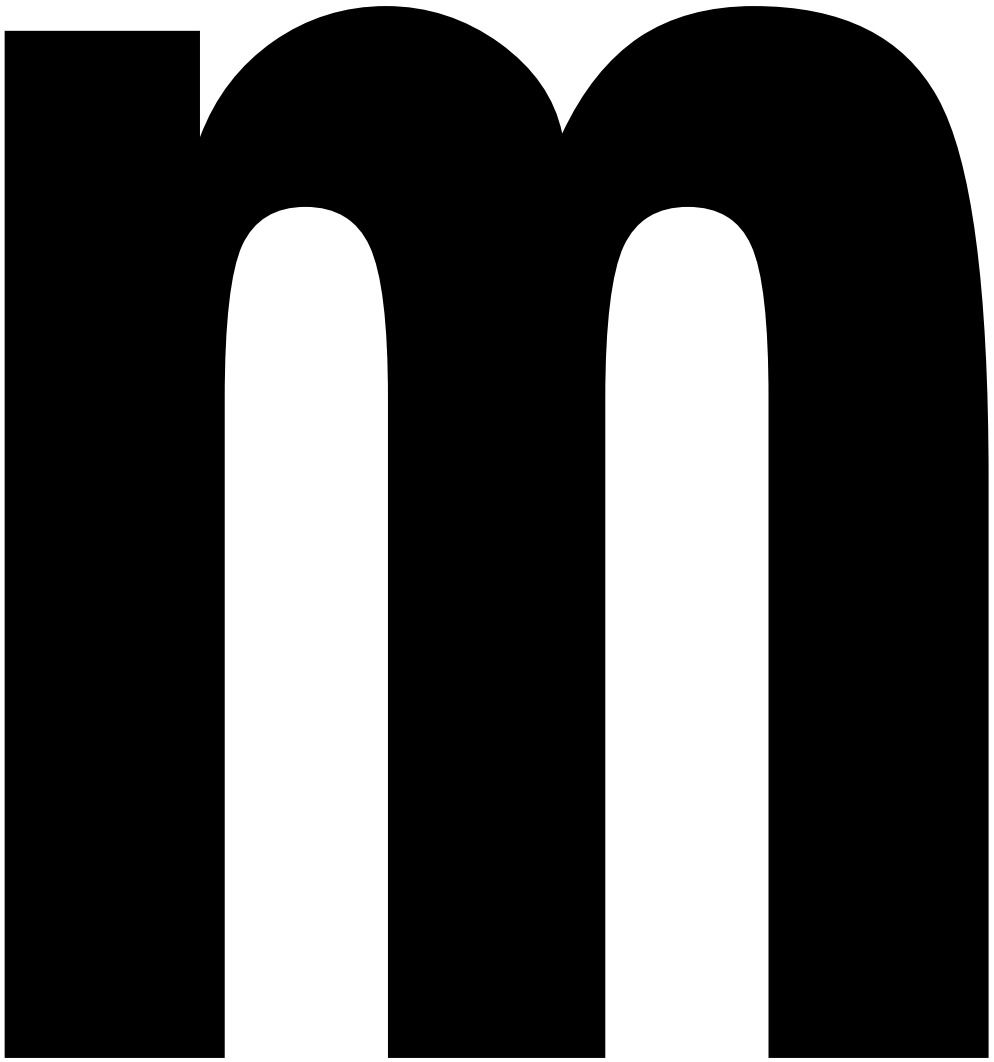


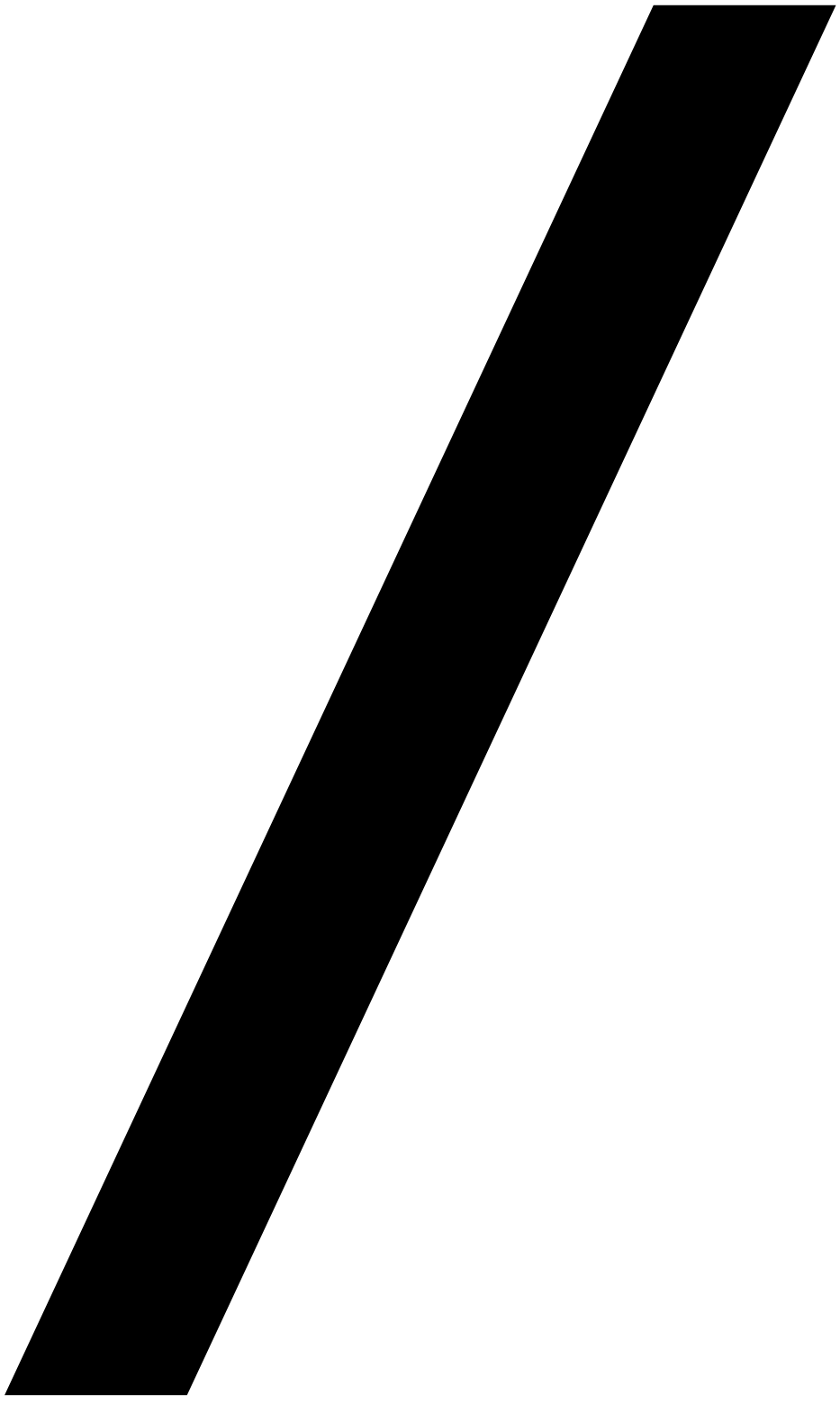






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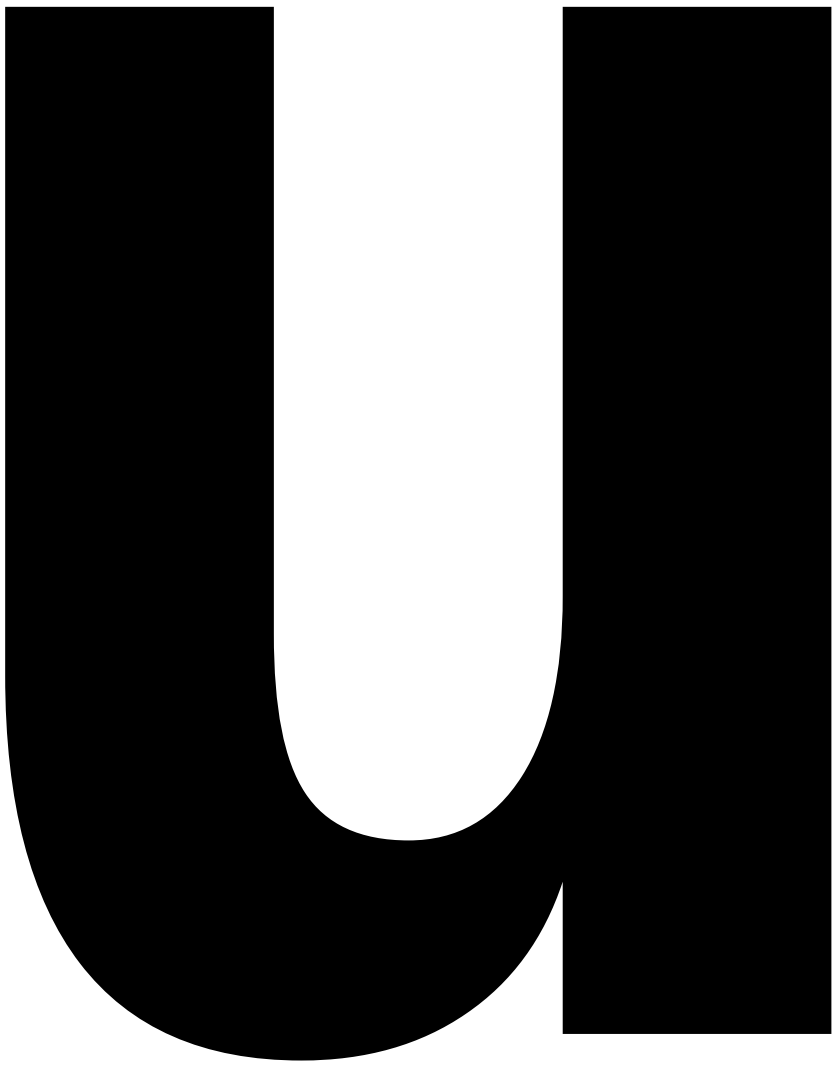


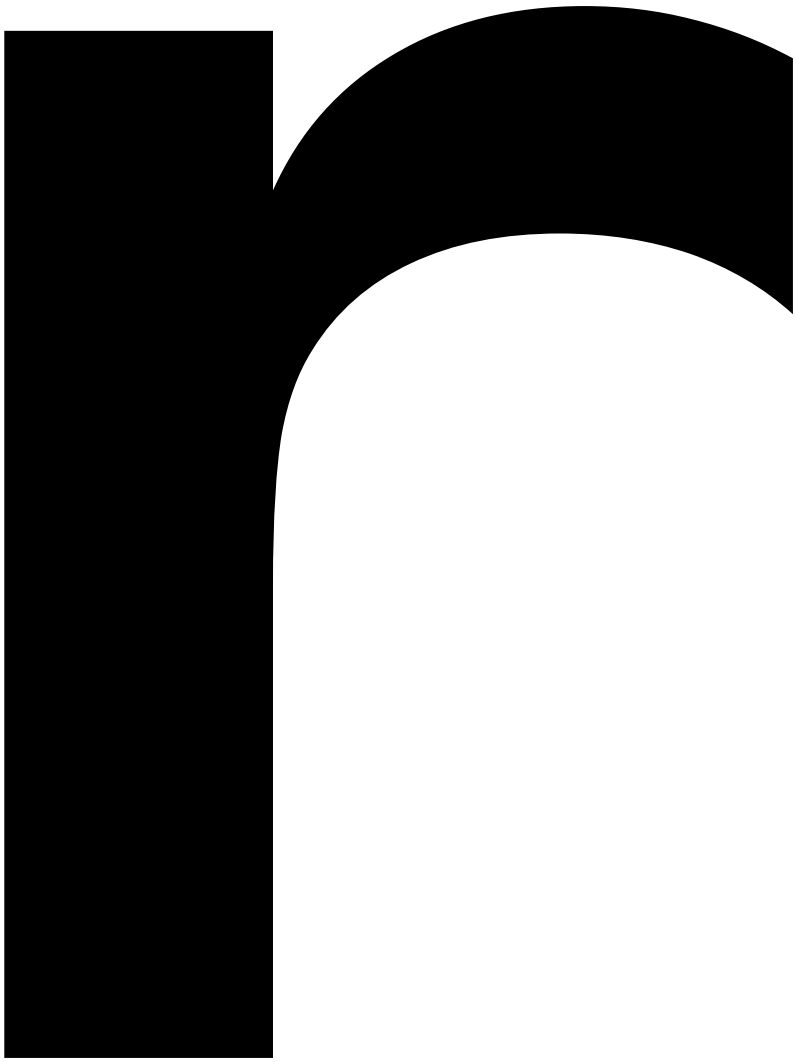


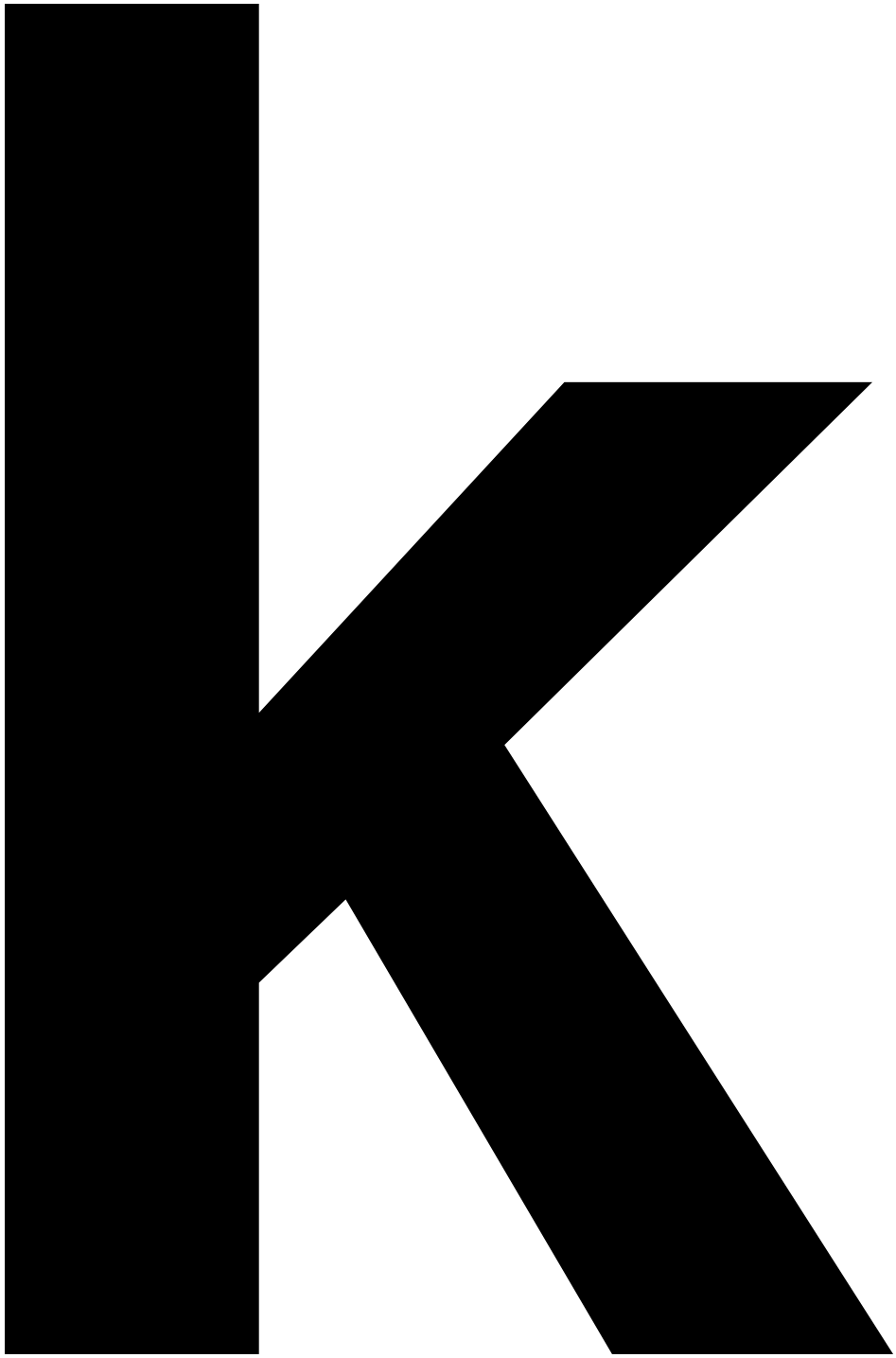
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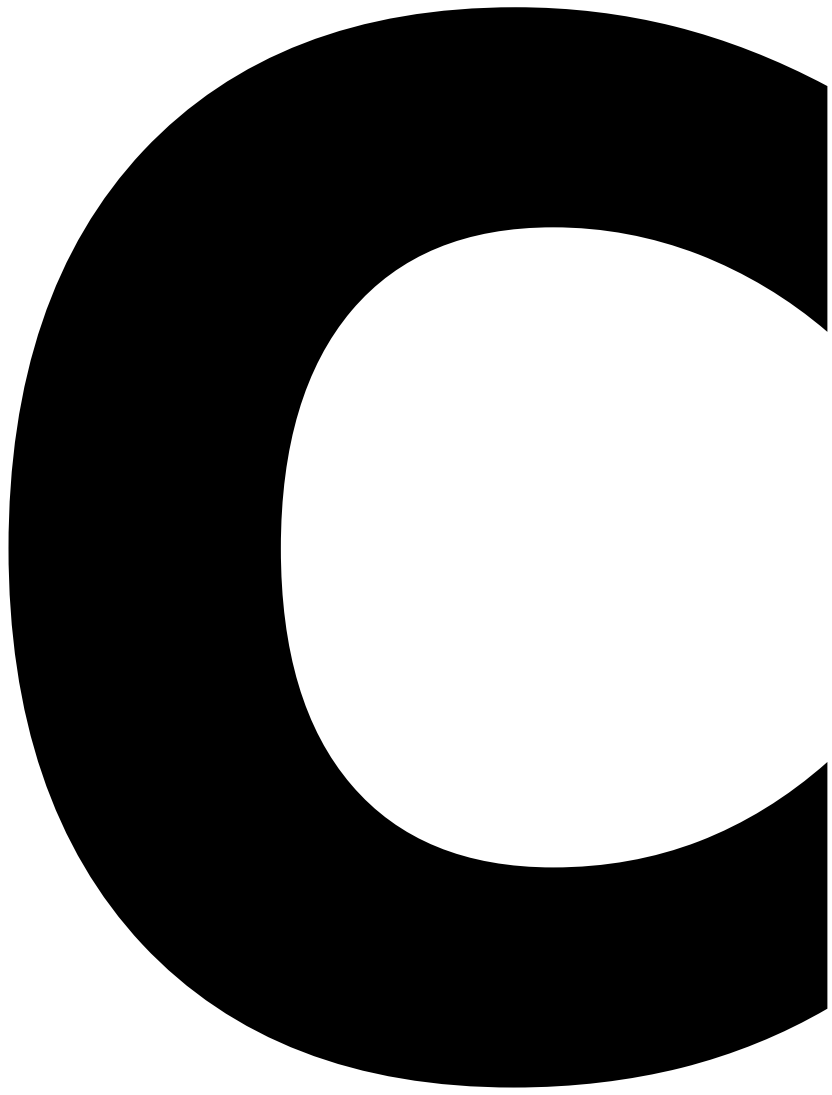
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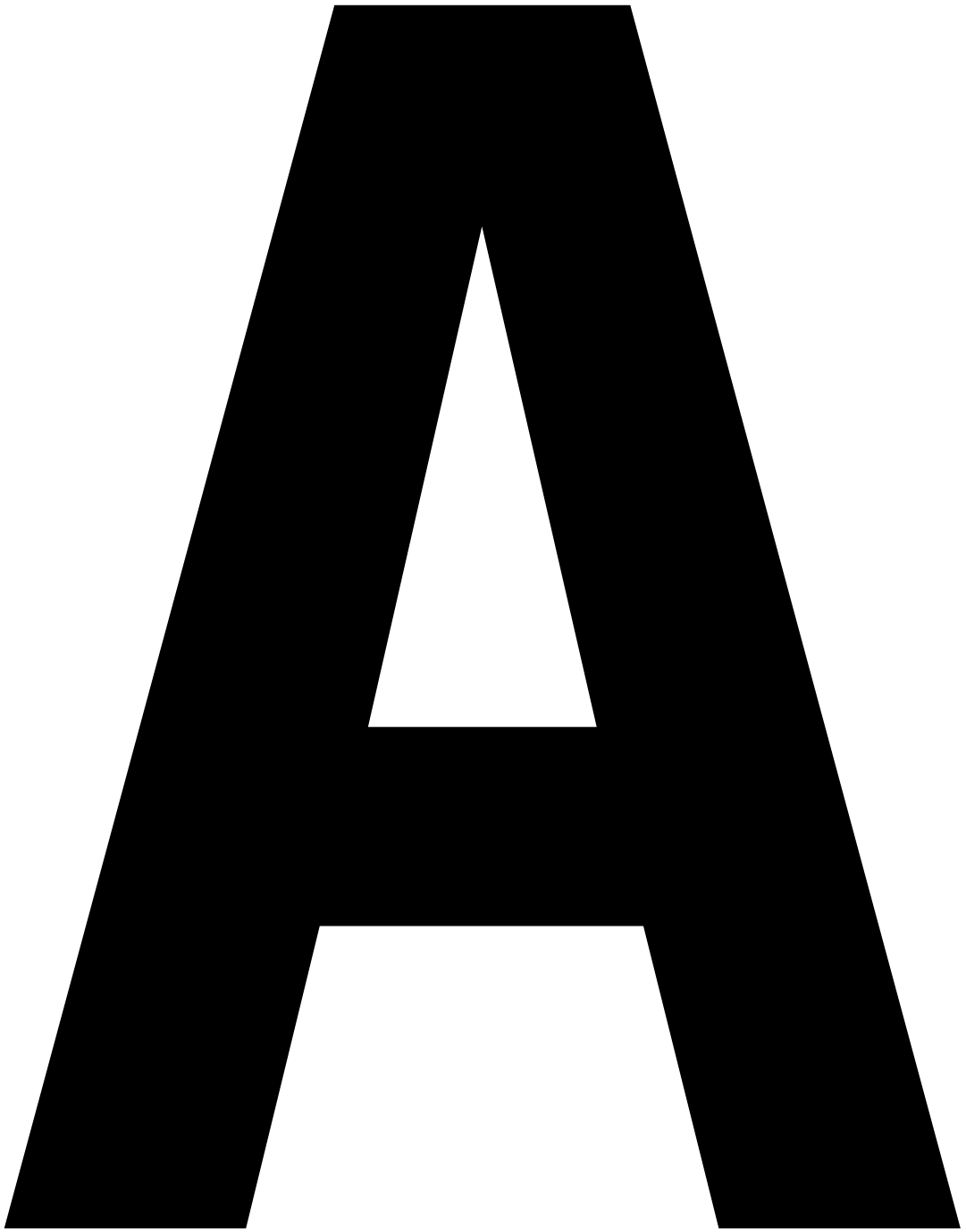
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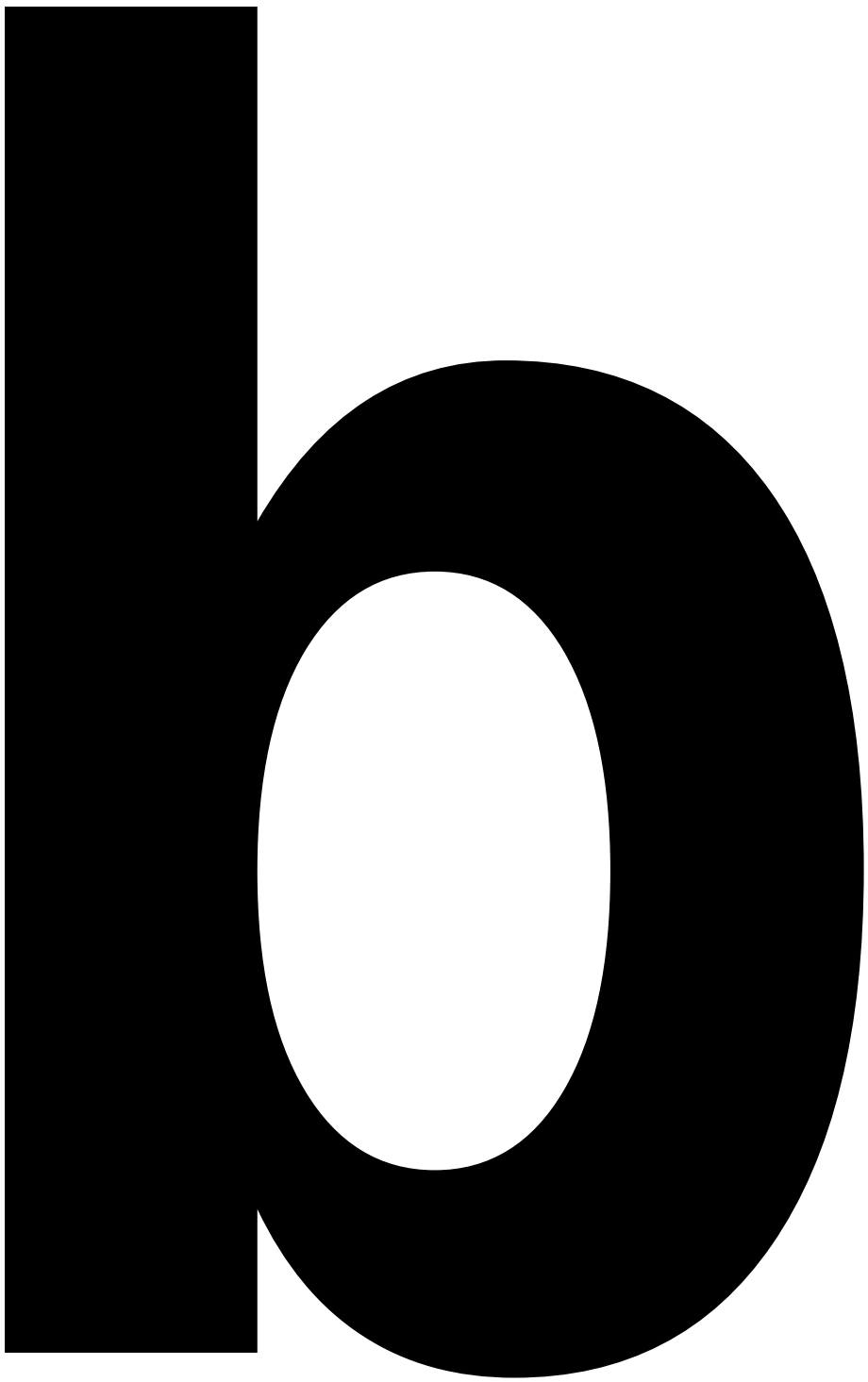


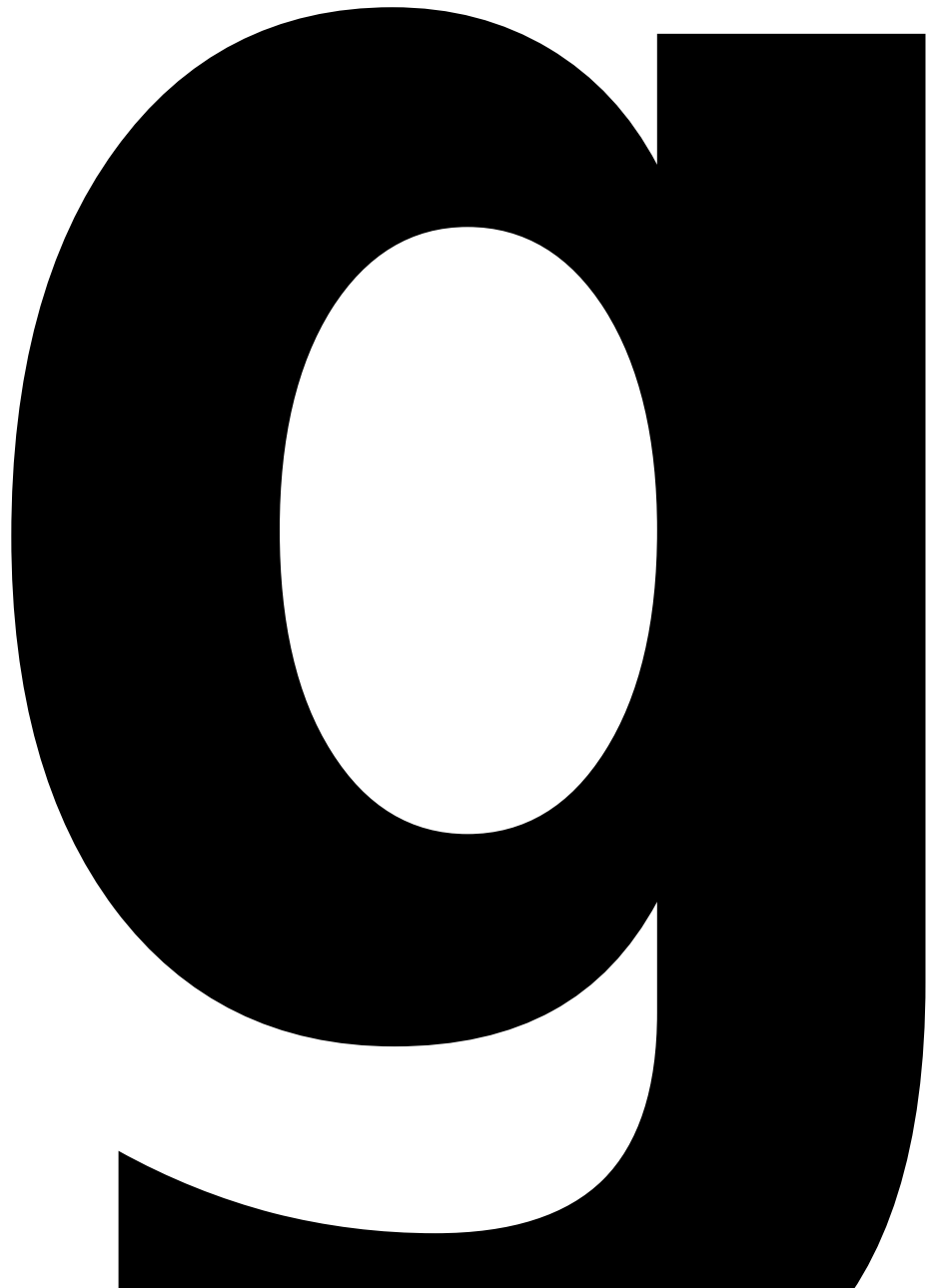




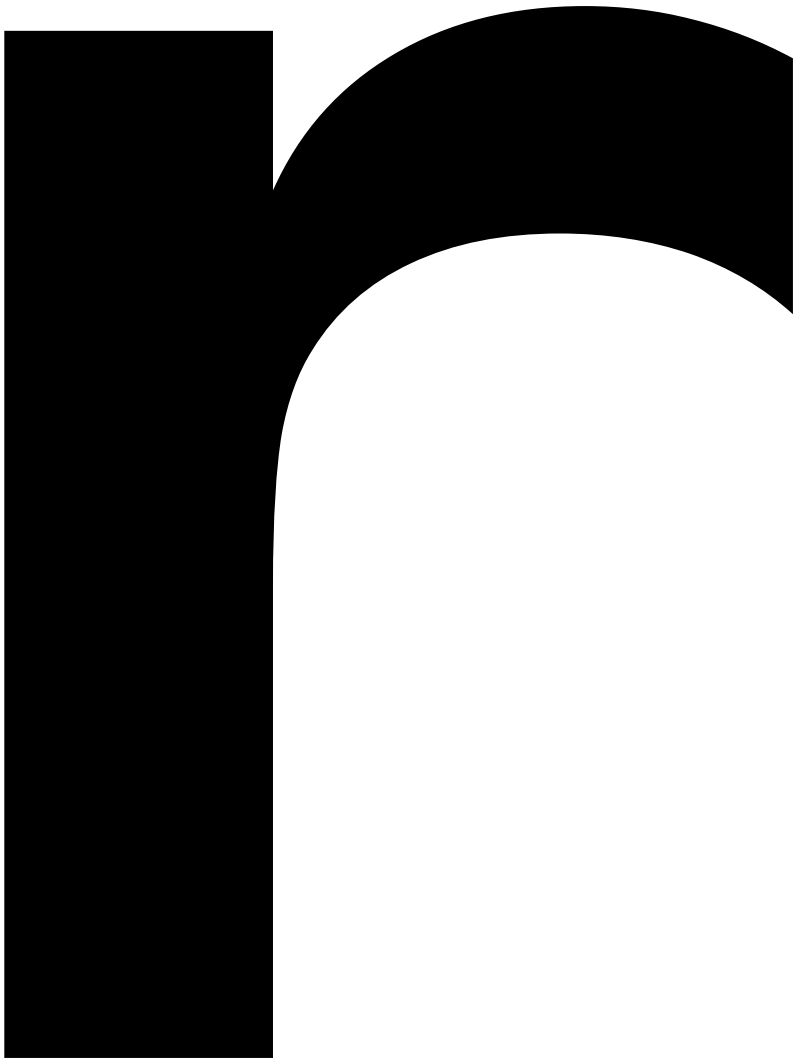


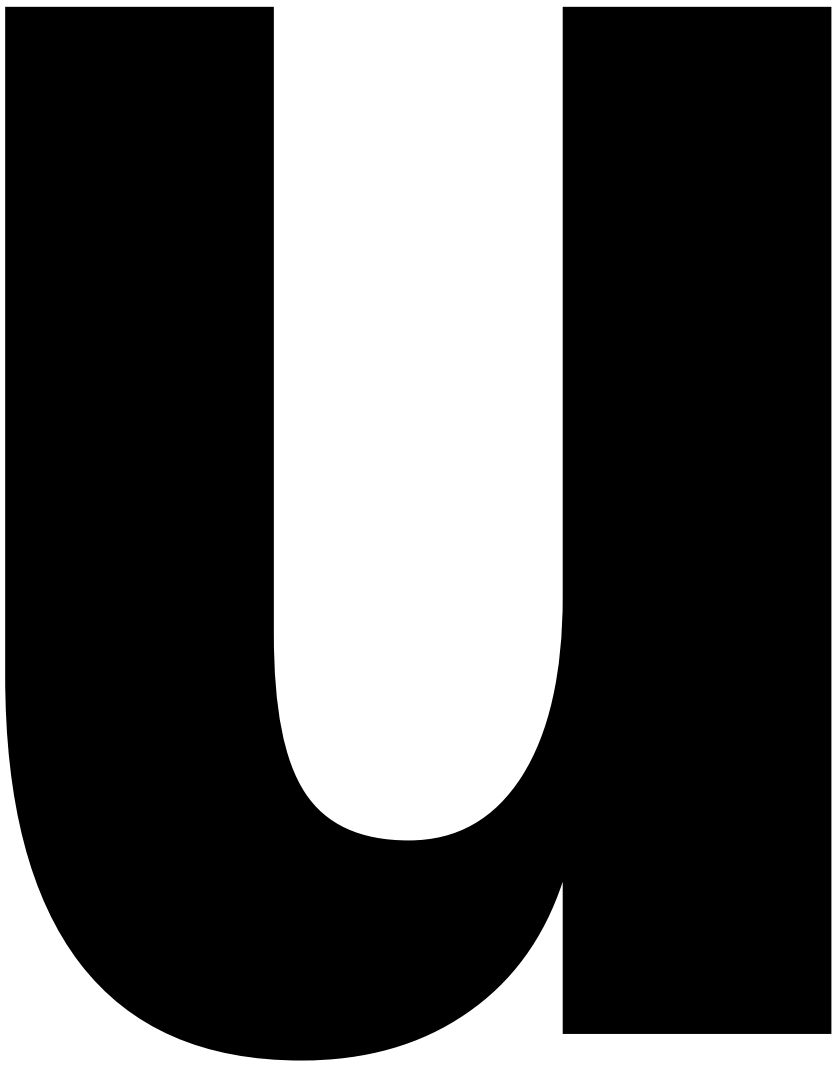

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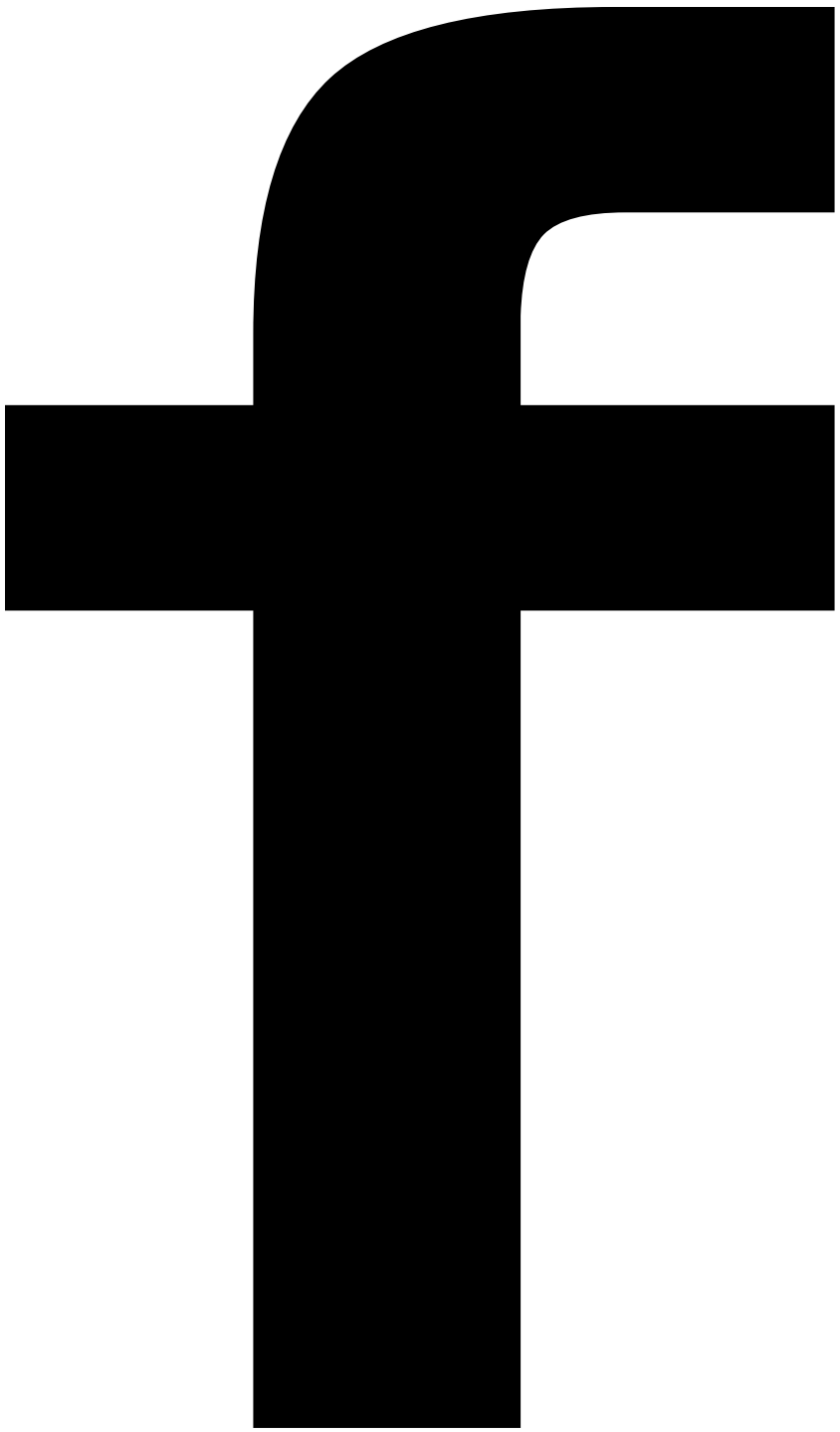




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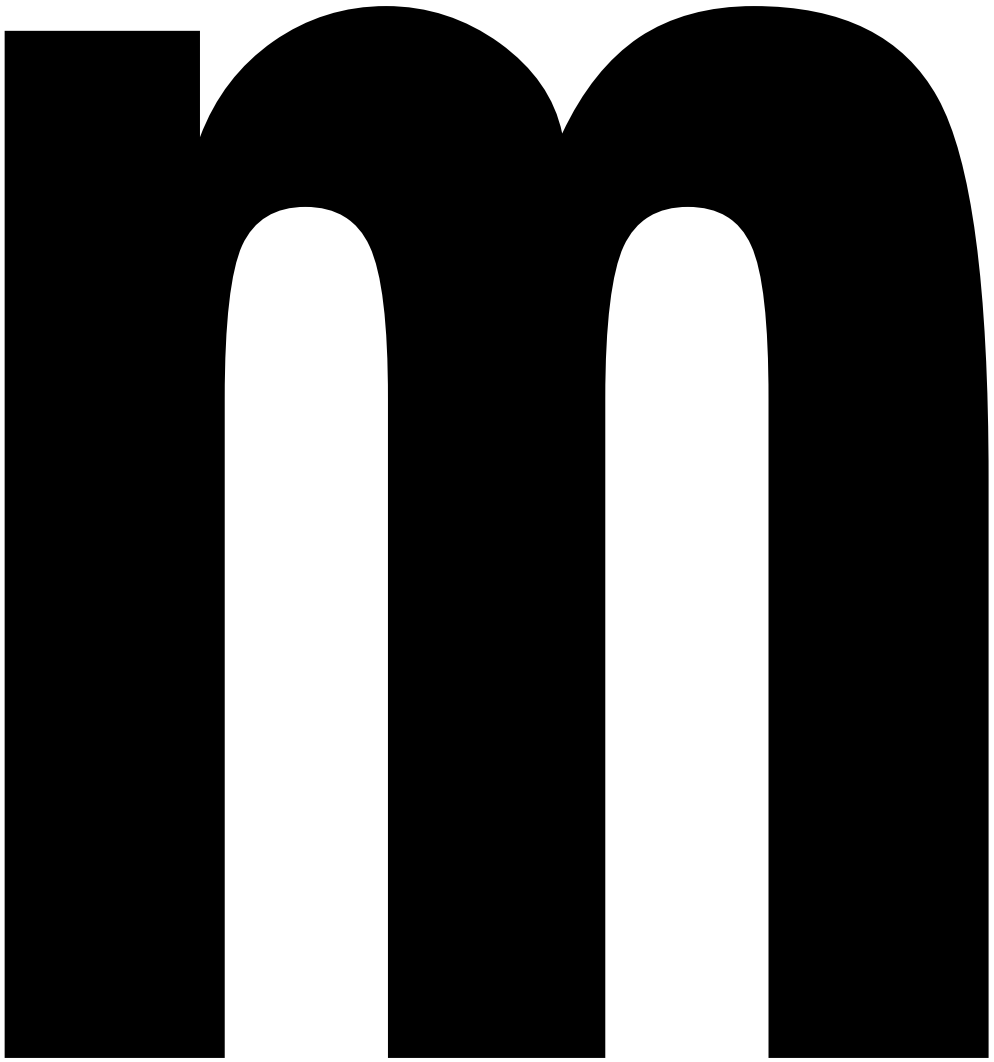




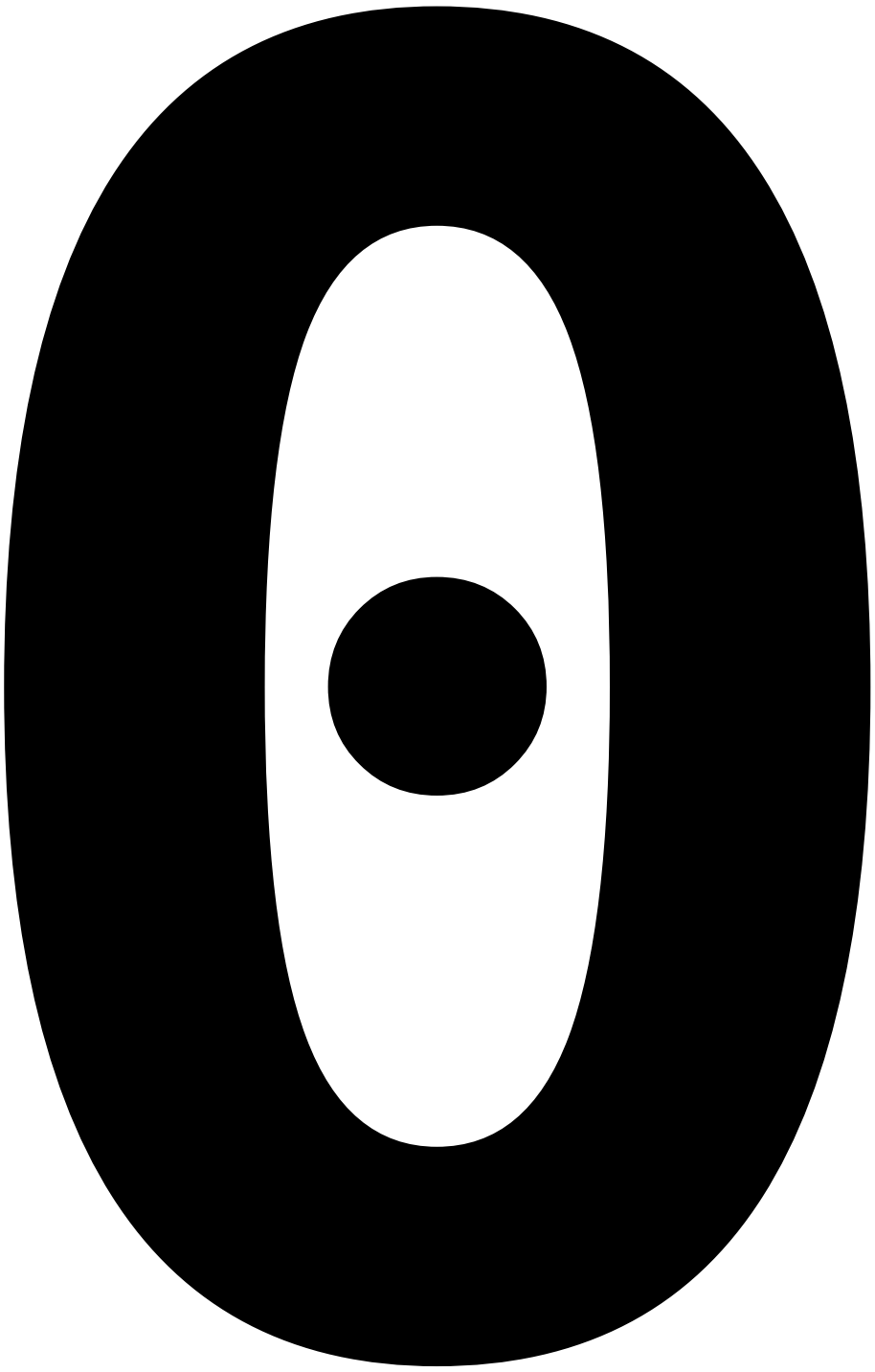
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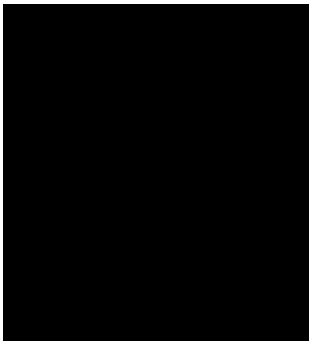
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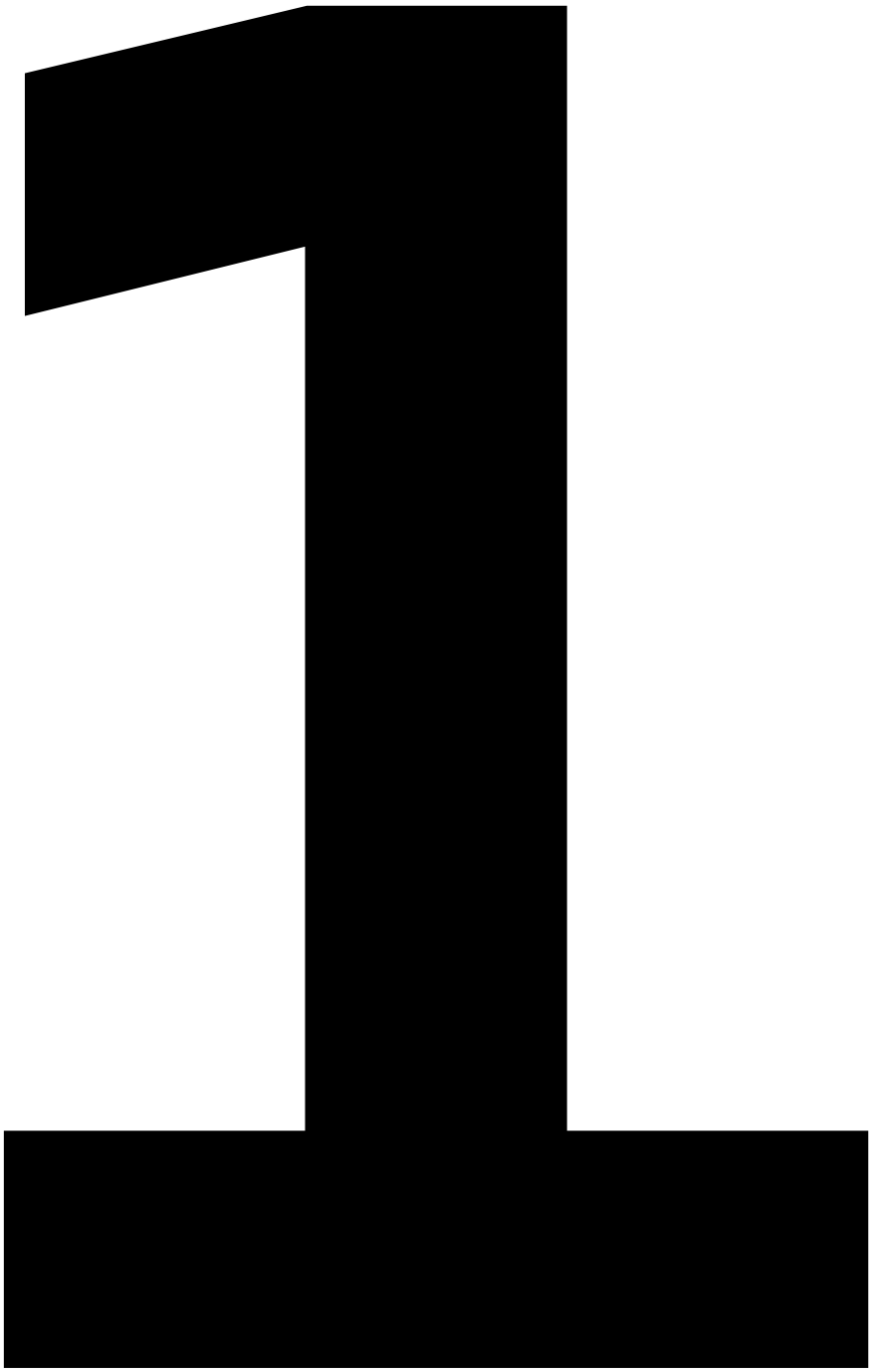




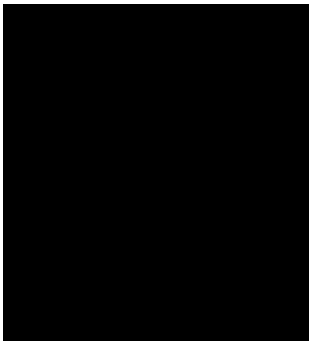
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