Letterlike Symbols

Range: 2100-214F

This file contains an excerpt from the character code tables and list of character names for *The Unicode Standard, Version 15.0*

This file may be changed at any time without notice to reflect errata or other updates to the Unicode Standard. See https://www.unicode.org/errata/ for an up-to-date list of errata.

See https://www.unicode.org/charts/ for access to a complete list of the latest character code charts. See https://www.unicode.org/charts/PDF/Unicode-15.0/ for charts showing only the characters added in Unicode 15.0. See https://www.unicode.org/Public/15.0.0/charts/ for a complete archived file of character code charts for Unicode 15.0. See https://www.unicode.org/charts/About.html#Conventions for conventions used in these code charts, and other general information.

Disclaimer

These charts are provided as the online reference to the character contents of the Unicode Standard, Version 15.0 but do not provide all the information needed to fully support individual scripts using the Unicode Standard. For a complete understanding of the use of the characters contained in this file, please consult the appropriate sections of The Unicode Standard, Version 15.0, online at https://www.unicode.org/versions/Unicode15.0.0/, as well as Unicode Standard Annexes #9, #11, #14, #15, #24, #29, #31, #34, #38, #41, #42, #44, #45, and #50, the other Unicode Technical Reports and Standards, and the Unicode Character Database, which are available online.

See https://www.unicode.org/ucd/ and https://www.unicode.org/reports/

A thorough understanding of the information contained in these additional sources is required for a successful implementation.

Copying characters from the character code tables or list of character names is not recommended, because for production reasons the PDF files for the code charts cannot guarantee that the correct character codes will always be copied.

Fonts

The shapes of the reference glyphs used in these code charts are not prescriptive. Considerable variation is to be expected in actual fonts. The particular fonts used in these charts were provided to the Unicode Consortium by a number of different font designers, who own the rights to the fonts.

See https://www.unicode.org/charts/fonts.html for a list.

Terms of Use

You may freely use these code charts for personal or internal business uses only. You may not incorporate them either wholly or in part into any product or publication, or otherwise distribute them without express written permission from the Unicode Consortium. However, you may provide links to these charts.

The fonts and font data used in production of these code charts may NOT be extracted, or used in any other way in any product or publication, without permission or license granted by the typeface owner(s).

The Unicode Consortium is not liable for errors or omissions in this file or the standard itself. Information on characters added to the Unicode Standard since the publication of the most recent version of the Unicode Standard, as well as on characters currently being considered for addition to the Unicode Standard can be found on the Unicode web site.

See https://www.unicode.org/pending/pending.html and https://www.unicode.org/alloc/Pipeline.html.

Copyright © 1991-2022 Unicode, Inc. All rights reserved.

	210	211	212	213	214
0	<i>a</i> / _c	<i>J</i> 2110	SM 2120	2130	2140
1	<i>a</i> / _S	3	TEL 2121	F 2131	5
2	2102	£ 2112	TM	<u>H</u>	2142
3	°C	ℓ	2123	M 2133	2143
4	2103 C 2104	2113 H 2114	2124	<i>O</i> - 2134	1 43
5	c/ ₀	N	3 2125	%	\square
6	2105 C/U 2106	2115 No 2116	<u>Q</u>	2135	2145 2146
7	3	P	Ω	ℷ	@
8	2107	2117 60 2118	2127 3 2128	2137	2147
9	°F	2119	2129	1 2139	<i>J</i> 2149
Α	L 210A	211A	K	213A	214A
В	H 210B	R 211B	Å 212B	FAX	279
С	5	R	B 212C	213C	214C
D	Н	\mathbb{R}	212D	213D	A/S 214D
Ε	210D h 210E	211D R 211E	212E	213E	214B H 214E
F	## 210F	211E	## P	213E	214E 214F

Letterlike symbols 2113 ℓ SCRIPT SMALL L = mathematical symbol 'ell' Some of the letterlike symbols are intended to complete the = liter (traditional symbol) set of mathematical alphanumeric symbols starting at • despite its character name, this symbol is 1D400. derived from a special italicized version of the 2100 $a_{\!\!\!/c}$ **ACCOUNT OF** small letter I \approx 0061 a 002F / 0063 c the SI recommended symbol for liter is 006C l 2101 a_s ADDRESSED TO THE SUBJECT or 004C L= aux soins (de) ightarrow 1D4C1 ℓ mathematical script small I → 214D ^A/s aktieselskab ≈ 006C l latin small letter l \approx 0061 a 002F / 0073 s Т L B BAR SYMBOL 2114 2102 C DOUBLE-STRUCK CAPITAL C = pounds = the set of complex numbers \rightarrow 0023 # number sign \approx 0043 \mathbf{C} latin capital letter c 2115 DOUBLE-STRUCK CAPITAL N 2103 °C DEGREE CELSIUS = natural number = degrees centigrade a glyph variant with doubled vertical strokes \approx 00B0 $^{\circ}$ 0043 C2104 ¢ CENTRE LINE SYMBOL \approx 004E N latin capital letter n= clone 2116 № NUMERO SIGN 2105 % CARE OF \rightarrow 0023 # number sign \approx 0063 c 002F / 006F o → 00BA ^o masculine ordinal indicator 2106 % CADA UNA \approx 004E N 006F o Spanish for "each one" SOUND RECORDING COPYRIGHT 2117 $\approx 0063 \text{ c} 002\text{F} / 0075 \text{ u}$ = published 2107 ε EULER CONSTANT = phonorecord sign → 00A9 © copyright sign → 0045 E latin capital letter e → 24C5 P circled latin capital letter p \approx 0190 ε latin capital letter open e 2108 Э **SCRUPLE** 2118 SCRIPT CAPITAL P °F DEGREE FAHRENHEIT ***** WEIERSTRASS ELLIPTIC FUNCTION 2109 \approx 00B0 $^{\circ}$ 0046 F• actually this has the form of a lowercase calligraphic p, despite its name 210A SCRIPT SMALL G 2119 DOUBLE-STRUCK CAPITAL P = real number symbol \approx 0067 g latin small letter q \approx 0050 P latin capital letter p **Q** DOUBLE-STRUCK CAPITAL Q 210B # SCRIPT CAPITAL H 211A = the set of rational numbers = Hamiltonian operator \approx 0051 **Q** latin capital letter q \sim 210B FE00 ${\mathcal H}$ chancery style 211B R SCRIPT CAPITAL R \sim 210B FE01 \mathscr{H} roundhand style = Riemann Integral \approx 0048 H latin capital letter h 5 BLACK-LETTER CAPITAL H \sim 211B FE00 \mathcal{R} chancery style 210C \sim 211B FE01 \Re roundhand style = Hilbert space ≈ 0052 R latin capital letter r ≈ 0048 H latin capital letter h 211C ℜ BLACK-LETTER CAPITAL R 210D □ DOUBLE-STRUCK CAPITAL H = real part \approx 0048 H latin capital letter h ≈ 0052 R latin capital letter r 210E h PLANCK CONSTANT 211D □ DOUBLE-STRUCK CAPITAL R = height, specific enthalpy, ... = the set of real numbers • simply a mathematical italic h; this character's \approx 0052 R latin capital letter r name results from legacy usage 211E R PRESCRIPTION TAKE \approx 0068 h latin small letter h 210F ħ PLANCK CONSTANT OVER TWO PI = recipe = reduced Planck constant, Dirac constant = cross ratio Ř 211F RESPONSE \rightarrow 045B \hbar cyrillic small letter tshe SM \approx 0127 \hbar latin small letter h with stroke 2120 SERVICE MARK \approx <super> 0053 \mathbf{S} 004D \mathbf{M} 2110 F SCRIPT CAPITAL I 2121 Tel Telephone sign $\sim 2110 \, \text{FE00} \, \mathcal{I} \, \text{chancerv style}$ • typical forms for this symbol may use \sim 2110 FE01 $\mathcal F$ roundhand style lowercase, small caps or superscripted letter ≈ 0049 I latin capital letter i shapes **3** BLACK-LETTER CAPITAL I 2111 → 260E 🏗 black telephone = imaginary part → 2706 **②** telephone location sign ≈ 0049 I latin capital letter i → 1F4DE **t** telephone receiver 2112 SCRIPT CAPITAL L \approx 0054 T 0045 \dot{E} 004C L = Laplace transform 2122 TM TRADE MARK SIGN \sim 2112 FE00 $\mathcal L$ chancery style → 1F12E (₩z) circled wz \sim 2112 FE01 $\mathscr L$ roundhand style \approx <super> 0054 T 004D M pprox 004C L latin capital letter I Ù 2123 VERSICLE

2124	\mathbb{Z}	DOUBLE-STRUCK CAPITAL Z = the set of integers	2133	M	SCRIPT CAPITAL M = M-matrix (physics)
0.40=	_	$pprox$ 005A $ar{\mathbf{Z}}$ latin capital letter z			= German Mark currency symbol, before WWII
2125	3	OUNCE SIGN → 0292 3 latin small letter ezh			 when used for the Mark symbol, the range of glyph variation is restricted
		→ 1F773 🐕 alchemical symbol for half ounce			→ 20BB 🔁 nordic mark sign
2126	Ω	OHM SIGN			\sim 2133 FE00 ${\mathcal M}$ chancery style
		• SI unit of resistance, named after G. S. Ohm,			~ 2133 FE01 <i>M</i> roundhand style
		German physicist $ullet$ preferred representation is 03A9 $oldsymbol{\Omega}$	2134	0	$pprox$ 004D ${f M}$ latin capital letter m SCRIPT SMALL O
		\rightarrow 260A Ω ascending node	2.0.	U	= order, of inferior order to
		\equiv 03A9 Ω greek capital letter omega			$pprox$ 006F σ latin small letter σ
2127	Ω	INVERTED OHM SIGN	Hebr	ew le	tterlike math symbols
		mhoarchaic unit of conductance (= the SI unit		are le	eft-to-right characters.
		siemens)	2135	×	
		• typographically a turned greek capital letter			= first transfinite cardinal (countable) ≈ 05D0 X hebrew letter alef
		omega $ ightarrow 01B1 \mathbf{O}$ latin capital letter upsilon	2136	ב	BET SYMBOL
		\rightarrow 03A9 Ω greek capital letter omega			= second transfinite cardinal (the continuum)
		→ 260B ଓ descending node	0.407		≈ 05D1 1 hebrew letter bet
2128	3	BLACK-LETTER CAPITAL Z	2137	٦	GIMEL SYMBOL = third transfinite cardinal (functions of a real
2129		≈ 005A Z latin capital letter z TURNED GREEK SMALL LETTER IOTA			variable)
2129	1	unique element fulfilling a description (logic)			\approx 05D2 λ hebrew letter gimel
		→ 03B9 t greek small letter iota	2138	7	DALET SYMBOL = fourth transfinite cardinal
212A	K	KELVIN SIGN			≈ 05D3 7 hebrew letter dalet
2420	Å	■ 004B K latin capital letter k	Additional letterlike symbols		
212B	A	ANGSTROM SIGNnon SI length unit (=0.1 nm) named after A. J.	2139	i	-
		Ångström, Swedish physicist			• intended for use with 20DD
		• preferred representation is 00C5 Å			→ 1F6C8 ① circled information source
0400	Œ	■ 00C5 Å latin capital letter a with ring above	0404	•	\approx 0069 i latin small letter i
212C	\mathscr{B}	SCRIPT CAPITAL B = Bernoulli function	213A	0	ROTATED CAPITAL Q • a binding signature mark
		\sim 212C FE00 \mathcal{B} chancery style	213B	FAX	FACSIMILE SIGN
		~ 212C FE01 ${\mathcal B}$ roundhand style			• typical forms for this symbol may use
0400	~	\approx 0042 B latin capital letter b			lówercase, small caps or superscripted letter
212D	C	BLACK-LETTER CAPITAL C ≈ 0043 C latin capital letter c			shapes → 2121 TeL telephone sign
212E	е	ESTIMATED SYMBOL			→ 1F4E0 🕮 fax machine
		• used in European packaging			\approx 0046 F 0041 A 0058 X
		→ 0065 e latin small letter e	213C	TT	DOUBLE-STRUCK SMALL PI
212F	e	SCRIPT SMALL E = error	213D	¥	≈ 03C0 π greek small letter pi DOUBLE-STRUCK SMALL GAMMA
		= natural exponent	2100	A	\approx 03B3 γ greek small letter gamma
		≈ 0065 e latin small letter e	213E		
2130	\mathscr{E}	SCRIPT CAPITAL E			$pprox$ 0393 Γ greek capital letter gamma
		= emf (electromotive force) $\sim 2130 \text{ FE00 } \mathcal{E}$ chancery style	213F	П	DOUBLE-STRUCK CAPITAL PI
		~ 2130 FE00 & chancery style ~ 2130 FE01 & roundhand style			≈ 03A0 ∏ greek capital letter pi
		\approx 0045 E latin capital letter e			ruck large operator
2131	${\mathscr F}$	SCRIPT CAPITAL F	2140	\sum	DOUBLE-STRUCK N-ARY SUMMATION \approx 2211 \sum n-ary summation
		= Fourier transform	A -1 -1:		-
		~ 2131 FE00 $\mathcal F$ chancery style ~ 2131 FE01 $\mathcal F$ roundhand style			Il letterlike symbols
		\approx 0046 F latin capital letter f	2141	Ð	TURNED SANS-SERIF CAPITAL G = game
2132	Ь	TURNED CAPITAL F			→ A4E8 9 lisu letter hha
		= Claudian digamma inversum	2142	٦	
		• lowercase is 214E	0440		→ A4F6 7 lisu letter uh
		→ 03DC F greek letter digamma	2143 2144		REVERSED SANS-SERIF CAPITAL L TURNED SANS-SERIF CAPITAL Y
		J J 	۲ ۱ ۹۹	^	→ 11FB0 \(\) lisu letter yha
					5071 1150 recees y rid

Double-struck italic math symbols

These stylized mathematical symbols are used in some documents to distinguish special mathematical usages from ordinary variables.

- 2145 D DOUBLE-STRUCK ITALIC CAPITAL D
 - sometimes used for the differential
 - \approx 0044 $D\,$ latin capital letter d
- 2146 d DOUBLE-STRUCK ITALIC SMALL D
 - sometimes used for the differential \approx 0064 d latin small letter d
- 2147 @ DOUBLE-STRUCK ITALIC SMALL E
 - \bullet sometimes used for the natural exponent \approx 0065 e latin small letter e
- 2148 # DOUBLE-STRUCK ITALIC SMALL I
 - sometimes used for the imaginary unit
 - pprox 0069 i latin small letter i
- 2149 j DOUBLE-STRUCK ITALIC SMALL J
 - \bullet sometimes used for the imaginary unit \approx 006A j latin small letter j

Additional letterlike symbols

- 214A ₺ PROPERTY LINE
- 214B 😵 TURNED AMPERSAND
 - used in linear logic
 - → 0026 & ampersand
- 214C ₩ PER SIGN
 - abbreviates the word 'per'
- 214D ^A/s AKTIESELSKAB
 - \rightarrow 2101 % addressed to the subject

Lowercase Claudian letter

Claudian letters in inscriptions are uppercase, but may be transcribed by scholars in lowercase.

- 214E & TURNED SMALL F
 - uppercase is 2132 \mathbf{H}
 - → 03DD **F** greek small letter digamma

Biblical editorial symbol

214F 🔐 SYMBOL FOR SAMARITAN SOURCE

210B	
^{210B} chancery style	
2131 FE00	
210B FE00 roundhand style	
₩ roundhand style	
210B FE01 2110	
2133	
${\cal M}$ chancery style ${\cal M}$ chancery style	
2133 FE00	
2110 FE00 Toundhand style 2133 FE01	
2133 FE01	
2112 S SCRIPT CAPITAL L	
2112	
$oldsymbol{\mathcal{L}}$ chancery style	
2112 FE00	
${\mathscr L}$ roundhand style	
2112 FE01 211B	
211B R SCRIPT CAPITAL R	
211B	
${\cal R}$ chancery style	
211B FE00 roundhand style	
roundhand style	
212C SCRIPT CAPITAL B	
212C	
${\mathcal B}$ chancery style	
212C FE00	
${\mathscr B}$ roundhand style	
2130	
2130 & SCRIPT CAPITAL E	
2130	
${\cal E}^{}$ chancery style	
2130 FE00	
groundhand style	
2130 FE01	