

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 17.0*.

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-17.0/> for charts showing only the characters added in Unicode 17.0. See <https://www.unicode.org/Public/17.0.0/charts/> for a complete archived file of character code charts for Unicode 17.0. 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 17.0 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 17.0*, online at <https://www.unicode.org/versions/Unicode17.0.0/>, as well as the *Unicode Standard Annexes*, 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.

Fonts

The shapes of the reference glyphs used in these code charts are not prescriptive. Considerable variation is to be expected in actual fonts.

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

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	210	211	212	213	214
0	$\%_C$ 2100	\mathcal{I} 2110	SM 2120	\mathcal{E} 2130	\sum 2140
1	$\%_S$ 2101	\mathfrak{S} 2111	TEL 2121	\mathcal{F} 2131	\mathfrak{D} 2141
2	\mathbb{C} 2102	\mathcal{L} 2112	TM 2122	\mathbb{H} 2132	\mathbb{J} 2142
3	$^{\circ}\mathbb{C}$ 2103	ℓ 2113	\mathbb{V} 2123	\mathcal{M} 2133	\mathbb{L} 2143
4	\mathbb{C} 2104	\mathcal{B} 2114	\mathbb{Z} 2124	\mathcal{o} 2134	\mathbb{A} 2144
5	$\%_o$ 2105	\mathbb{N} 2115	\mathfrak{Z} 2125	\mathfrak{N} 2135	\mathbb{D} 2145
6	$\%_u$ 2106	\mathbb{N}_o 2116	Ω 2126	\mathfrak{B} 2136	d 2146
7	\mathfrak{E} 2107	\mathbb{P} 2117	\mathfrak{O} 2127	\mathfrak{L} 2137	\mathfrak{P} 2147
8	\mathfrak{D} 2108	\mathfrak{B} 2118	\mathfrak{Z} 2128	\mathfrak{T} 2138	\mathfrak{I} 2148
9	$^{\circ}\mathbb{F}$ 2109	\mathbb{P} 2119	\mathfrak{I} 2129	\mathfrak{i} 2139	\mathfrak{j} 2149
A	\mathcal{G} 210A	\mathbb{Q} 211A	K 212A	\mathcal{O} 213A	\mathfrak{P} 214A
B	\mathcal{H} 210B	\mathcal{R} 211B	\mathring{A} 212B	FAX 213B	\mathfrak{F} 214B
C	\mathfrak{H} 210C	\mathfrak{R} 211C	\mathcal{B} 212C	\mathbb{P} 213C	\mathfrak{P} 214C
D	\mathbb{H} 210D	\mathbb{R} 211D	\mathfrak{C} 212D	\mathfrak{Y} 213D	A/S 214D
E	h 210E	\mathbb{R} 211E	e 212E	\mathbb{E} 213E	\mathfrak{E} 214E
F	\hbar 210F	\mathfrak{R} 211F	e 212F	\mathbb{E} 213F	\mathfrak{e} 214F

Letterlike symbols

Some of the letterlike symbols are intended to complete the set of mathematical alphanumeric symbols starting at 1D400.

2100	%	ACCOUNT OF	$\approx 0061\text{ a }002F / 0063\text{ c}$
2101	%	ADDRESSED TO THE SUBJECT	= aux soins (de) $\rightarrow 214D\text{ \% aktieselskab}$ $\approx 0061\text{ a }002F / 0073\text{ s}$
2102	⌚	DOUBLE-STRUCK CAPITAL C	= the set of complex numbers $\approx <\text{font}> 0043\text{ C}$ latin capital letter c
2103	°C	DEGREE CELSIUS	= degrees centigrade $\approx 00B0\text{ ° }0043\text{ C}$
2104	₡	CENTRE LINE SYMBOL	= clone
2105	%	CARE OF	$\approx 0063\text{ c }002F / 006F\text{ o}$
2106	%u	CADA UNA	• Spanish for "each one" $\approx 0063\text{ c }002F / 0075\text{ u}$
2107	ℇ	EULER CONSTANT	$\rightarrow 0045\text{ E}$ latin capital letter e $\approx 0190\text{ ℇ}$ latin capital letter open e
2108	⌚	SCRUPLE	
2109	°F	DEGREE FAHRENHEIT	$\approx 00B0\text{ ° }0046\text{ F}$
210A	ℊ	SCRIPT SMALL G	= real number symbol $\approx <\text{font}> 0067\text{ g}$ latin small letter g
210B	ℋ	SCRIPT CAPITAL H	= Hamiltonian operator $\sim 210B\text{ FE00 }ℋ$ chancery style $\sim 210B\text{ FE01 }ℋ$ roundhand style $\approx <\text{font}> 0048\text{ H}$ latin capital letter h
210C	ℋ	BLACK-LETTER CAPITAL H	= Hilbert space $\approx <\text{font}> 0048\text{ H}$ latin capital letter h
210D	ℋ	DOUBLE-STRUCK CAPITAL H	$\approx <\text{font}> 0048\text{ H}$ latin capital letter h
210E	ℎ	PLANCK CONSTANT	= height, specific enthalpy, ... • simply a mathematical italic h; this character's name results from legacy usage $\approx <\text{font}> 0068\text{ h}$ latin small letter h
210F	ℏ	PLANCK CONSTANT OVER TWO PI	= reduced Planck constant, Dirac constant $\rightarrow 045B\text{ ℏ}$ cyrillic small letter tshe $\approx <\text{font}> 0127\text{ ℏ}$ latin small letter h with stroke
2110	ℐ	SCRIPT CAPITAL I	$\sim 2110\text{ FE00 }ℐ$ chancery style $\sim 2110\text{ FE01 }ℐ$ roundhand style $\approx <\text{font}> 0049\text{ I}$ latin capital letter i
2111	ℑ	BLACK-LETTER CAPITAL I	= imaginary part $\approx <\text{font}> 0049\text{ I}$ latin capital letter i
2112	ℒ	SCRIPT CAPITAL L	= Laplace transform $\sim 2112\text{ FE00 }ℒ$ chancery style $\sim 2112\text{ FE01 }ℒ$ roundhand style $\approx <\text{font}> 004C\text{ L}$ latin capital letter l

2113	ℓ	SCRIPT SMALL L	= mathematical symbol 'ell' = liter (traditional symbol)
		• despite its character name, this symbol is derived from a special italicized version of the small letter l	
		• the SI recommended symbol for liter is 006C 1 or 004C L	
		$\rightarrow 1D4C1\text{ ℓ}$ mathematical script small l	
		$\approx <\text{font}> 006C\text{ 1}$ latin small letter l	
2114	℔	L B BAR SYMBOL	= pounds $\rightarrow 0023\#$ number sign
2115	ℕ	DOUBLE-STRUCK CAPITAL N	= natural number • a glyph variant with doubled vertical strokes exists $\approx <\text{font}> 004E\text{ N}$ latin capital letter n
2116	№	NUMERO SIGN	$\rightarrow 0023\#$ number sign $\rightarrow 00BA\text{ ♀}$ masculine ordinal indicator $\approx 004E\text{ N }006F\text{ o}$
2117	℗	SOUND RECORDING COPYRIGHT	= published = phonorecord sign $\rightarrow 00A9\text{ ©}$ copyright sign $\rightarrow 24C5\text{ ℗}$ circled latin capital letter p
2118	℘	SCRIPT CAPITAL P	\times WEIERSTRASS ELLIPTIC FUNCTION • actually this has the form of a lowercase calligraphic p, despite its name
2119	ℾ	DOUBLE-STRUCK CAPITAL P	$\approx <\text{font}> 0050\text{ P}$ latin capital letter p
211A	ℿ	DOUBLE-STRUCK CAPITAL Q	= the set of rational numbers $\approx <\text{font}> 0051\text{ Q}$ latin capital letter q
211B	ℛ	SCRIPT CAPITAL R	= Riemann Integral $\sim 211B\text{ FE00 }ℛ$ chancery style $\sim 211B\text{ FE01 }ℛ$ roundhand style $\approx <\text{font}> 0052\text{ R}$ latin capital letter r
211C	ℜ	BLACK-LETTER CAPITAL R	= real part $\approx <\text{font}> 0052\text{ R}$ latin capital letter r
211D	ℝ	DOUBLE-STRUCK CAPITAL R	= the set of real numbers $\approx <\text{font}> 0052\text{ R}$ latin capital letter r
211E	℞	PRESCRIPTION TAKE	= recipe = cross ratio
211F	℞	RESPONSE	
2120	℠	SERVICE MARK	$\approx <\text{super}> 0053\text{ S }004D\text{ M}$
2121	℡	TELEPHONE SIGN	• typical forms for this symbol may use lowercase, small caps or superscripted letter shapes $\rightarrow 260E\text{ ☎}$ black telephone $\rightarrow 2706\text{ ☎}$ telephone location sign $\rightarrow 1F4DE\text{ ☎}$ telephone receiver $\approx 0054\text{ T }0045\text{ E }004C\text{ L}$
2122	™	TRADE MARK SIGN	$\rightarrow 1F12E\text{ ™}$ circled wz $\approx <\text{super}> 0054\text{ T }004D\text{ M}$
2123	℣	VERSICLE	

2124	\mathbb{Z}	DOUBLE-STRUCK CAPITAL Z = the set of integers $\approx \text{ 005A } \mathbb{Z} \text{ latin capital letter z}$	2133	\mathcal{M}	SCRIPT CAPITAL M = M-matrix (physics) = German Mark currency symbol, before WWII • when used for the Mark symbol, the range of glyph variation is restricted $\rightarrow \text{20BB } \mathcal{M}$ nordic mark sign $\sim \text{2133 FE00 } \mathcal{M}$ chancery style $\sim \text{2133 FE01 } \mathcal{M}$ roundhand style $\approx \text{ 004D } \mathcal{M} \text{ latin capital letter m}$
2125	\mathfrak{z}	OUNCE SIGN $\rightarrow \text{0292 } \mathfrak{z}$ latin small letter ezh $\rightarrow \text{1F773 } \mathfrak{z}$ alchemical symbol for half ounce $\rightarrow \text{2CF04 } \mathfrak{z}$	2134	\mathfrak{o}	SCRIPT SMALL O = order, of inferior order to $\approx \text{ 006F } \mathfrak{o}$ latin small letter o
2126	Ω	OHM SIGN • SI unit of resistance, named after G. S. Ohm, German physicist • preferred representation is 03A9 Ω $\rightarrow \text{260A } \Omega$ ascending node $\equiv \text{03A9 } \Omega$ greek capital letter omega			
2127	\mathfrak{v}	INVERTED OHM SIGN = mho • archaic unit of conductance (= the SI unit siemens) • typographically a turned greek capital letter omega $\rightarrow \text{01B1 } \mathfrak{v}$ latin capital letter upsilon $\rightarrow \text{03A9 } \Omega$ greek capital letter omega $\rightarrow \text{260B } \mathfrak{v}$ descending node			
2128	\mathfrak{z}	BLACK-LETTER CAPITAL Z $\approx \text{ 005A } \mathfrak{z} \text{ latin capital letter z}$			
2129	\mathfrak{i}	TURNED GREEK SMALL LETTER IOTA • unique element fulfilling a description (logic) $\rightarrow \text{03B9 } \mathfrak{i}$ greek small letter iota			
212A	\mathbb{K}	KELVIN SIGN $\equiv \text{004B } \mathbb{K}$ latin capital letter k			
212B	\AA	ANGSTROM SIGN • non SI length unit (=0.1 nm) named after A. J. Ångström, Swedish physicist • preferred representation is 00C5 \AA $\equiv \text{00C5 } \text{\AA}$ latin capital letter a with ring above			
212C	\mathcal{B}	SCRIPT CAPITAL B = Bernoulli function $\sim \text{212C FE00 } \mathcal{B}$ chancery style $\sim \text{212C FE01 } \mathcal{B}$ roundhand style $\approx \text{ 0042 } \mathcal{B} \text{ latin capital letter b}$			
212D	\mathbb{C}	BLACK-LETTER CAPITAL C $\approx \text{ 0043 } \mathbb{C} \text{ latin capital letter c}$			
212E	\mathfrak{e}	ESTIMATED SYMBOL • used in European packaging $\rightarrow \text{0065 } \mathfrak{e}$ latin small letter e			
212F	\mathfrak{e}	SCRIPT SMALL E = error = natural exponent $\approx \text{ 0065 } \mathfrak{e}$ latin small letter e			
2130	\mathcal{E}	SCRIPT CAPITAL E = emf (electromotive force) $\sim \text{2130 FE00 } \mathcal{E}$ chancery style $\sim \text{2130 FE01 } \mathcal{E}$ roundhand style $\approx \text{ 0045 } \mathcal{E} \text{ latin capital letter e}$			
2131	\mathcal{F}	SCRIPT CAPITAL F = Fourier transform $\sim \text{2131 FE00 } \mathcal{F}$ chancery style $\sim \text{2131 FE01 } \mathcal{F}$ roundhand style $\approx \text{ 0046 } \mathcal{F} \text{ latin capital letter f}$			
2132	\mathbb{F}	TURNED CAPITAL F = Claudian digamma inversum • lowercase is 214E \mathfrak{f} $\rightarrow \text{0046 } \mathbb{F}$ latin capital letter f $\rightarrow \text{03DC } \mathbb{F}$ greek letter digamma			
					Hebrew letterlike math symbols These are left-to-right characters. They are used in notations of transfinite cardinals.
			2135	\aleph	ALEF SYMBOL $\approx \text{05D0 } \aleph$ hebrew letter alef
			2136	\beth	BET SYMBOL $\approx \text{05D1 } \beth$ hebrew letter bet
			2137	\gimel	GIMEL SYMBOL $\approx \text{05D2 } \gimel$ hebrew letter gimel
			2138	\daleth	DALET SYMBOL $\approx \text{05D3 } \daleth$ hebrew letter dalet
					Additional letterlike symbols
			2139	\mathfrak{i}	INFORMATION SOURCE • intended for use with 20DD \odot $\rightarrow \text{1F6C8 } \mathfrak{i}$ circled information source $\approx \text{ 0069 } \mathfrak{i}$ latin small letter i
			213A	\mathcal{Q}	ROTATED CAPITAL Q • a binding signature mark
			213B	\mathfrak{F}	FACSIMILE SIGN • typical forms for this symbol may use lowercase, small caps or superscripted letter shapes $\rightarrow \text{2121 } \mathfrak{F}$ telephone sign $\rightarrow \text{1F4E0 } \mathfrak{F}$ fax machine $\approx \text{0046 } \mathfrak{F} \text{ 0041 } \mathfrak{A} \text{ 0058 } \mathfrak{X}$
			213C	\mathbb{P}	DOUBLE-STRUCK SMALL PI $\approx \text{ 03C0 } \pi$ greek small letter pi
			213D	\mathbb{Y}	DOUBLE-STRUCK SMALL GAMMA $\approx \text{ 03B3 } \gamma$ greek small letter gamma
			213E	\mathbb{G}	DOUBLE-STRUCK CAPITAL GAMMA $\approx \text{ 0393 } \Gamma$ greek capital letter gamma
			213F	\mathbb{P}	DOUBLE-STRUCK CAPITAL PI $\approx \text{ 03A0 } \Pi$ greek capital letter pi
					Double-struck large operator
			2140	\sum	DOUBLE-STRUCK N-ARY SUMMATION $\approx \text{ 2211 } \sum$ n-ary summation
					Additional letterlike symbols
			2141	\mathfrak{D}	TURNED SANS-SERIF CAPITAL G = game $\rightarrow \text{A4E8 } \mathfrak{D}$ lisu letter hha
			2142	\mathfrak{T}	TURNED SANS-SERIF CAPITAL L $\rightarrow \text{A4F6 } \mathfrak{T}$ lisu letter uh
			2143	\mathfrak{L}	REVERSED SANS-SERIF CAPITAL L
			2144	\mathfrak{Y}	TURNED SANS-SERIF CAPITAL Y $\rightarrow \text{11FB0 } \mathfrak{Y}$ lisu letter yha

Double-struck italic math symbols

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

- 2145 ₔ DOUBLE-STRUCK ITALIC CAPITAL D
 - sometimes used for the differential
≈ 0044 ₓ latin capital letter d
- 2146 ₕ DOUBLE-STRUCK ITALIC SMALL D
 - sometimes used for the differential
≈ 0064 ₕ latin small letter d
- 2147 ₖ DOUBLE-STRUCK ITALIC SMALL E
 - sometimes used for the natural exponent
≈ 0065 ₖ latin small letter e
- 2148 ₗ DOUBLE-STRUCK ITALIC SMALL I
 - sometimes used for the imaginary unit
≈ 0069 ₗ latin small letter i
- 2149 ₘ DOUBLE-STRUCK ITALIC SMALL J
 - sometimes used for the imaginary unit
≈ 006A ₘ 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 ₥ AKTIESELSKAB
 - 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 ₢
 - 03DD ₢ greek small letter digamma

Biblical editorial symbol

- 214F ₣ SYMBOL FOR SAMARITAN SOURCE

Standardized Variation Sequences		
210B	 210B	SCRIPT CAPITAL H
	 210B	chancery style
	 210B FE00	roundhand style
2110	 210B FE01	SCRIPT CAPITAL I
	 2110	chancery style
	 2110 FE00	roundhand style
2112	 2110 FE01	SCRIPT CAPITAL L
	 2112	chancery style
	 2112 FE00	roundhand style
211B	 2112 FE01	SCRIPT CAPITAL R
	 211B	chancery style
	 211B FE00	roundhand style
212C	 211B FE01	SCRIPT CAPITAL B
	 212C	chancery style
	 212C FE00	roundhand style
2130	 212C FE01	SCRIPT CAPITAL E
	 2130	chancery style
	 2130 FE00	roundhand style
	2130 FE01	
	2131	 2131
		SCRIPT CAPITAL F
		2131
	 2131 FE00	chancery style
		2131 FE01
	 2131 FE01	roundhand style
2133	 2133	SCRIPT CAPITAL M
		2133
	 2133 FE00	chancery style
		2133 FE01
	 2133 FE01	roundhand style