

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 11.0*

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See <http://www.unicode.org/errata/> for an up-to-date list of errata.

See <http://www.unicode.org/charts/> for access to a complete list of the latest character code charts.
See <http://www.unicode.org/charts/PDF/Unicode-11.0/> for charts showing only the characters added in Unicode 11.0.
See <http://www.unicode.org/Public/11.0.0/charts/> for a complete archived file of character code charts for Unicode 11.0.

Disclaimer

These charts are provided as the online reference to the character contents of the Unicode Standard, Version 11.0 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 11.0, online at <http://www.unicode.org/versions/Unicode11.0.0/>, 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 <http://www.unicode.org/ucd/> and <http://www.unicode.org/reports/>

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

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See <http://www.unicode.org/pending/pending.html> and <http://www.unicode.org/alloc/Pipeline.html>.

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	210	211	212	213	214
0	<i>a/c</i> 2100	<i>Œ</i> 2110	SM 2120	<i>ℰ</i> 2130	Σ 2140
1	<i>a/s</i> 2101	<i>Ɔ</i> 2111	TEL 2121	<i>ℱ</i> 2131	⊖ 2141
2	Ⓒ 2102	<i>ℒ</i> 2112	TM 2122	Ⓕ 2132	⌋ 2142
3	°C 2103	<i>ℓ</i> 2113	<i>℥</i> 2123	<i>ℳ</i> 2133	⌋ 2143
4	⌘ 2104	<i>Ⓐ</i> 2114	Z 2124	<i>o</i> 2134	⋈ 2144
5	<i>℄</i> 2105	N 2115	<i>ℷ</i> 2125	<i>℞</i> 2135	D 2145
6	<i>℄</i> 2106	No 2116	Ω 2126	⌋ 2136	<i>d</i> 2146
7	ℰ 2107	Ⓟ 2117	Ⓡ 2127	λ 2137	<i>e</i> 2147
8	Ⓓ 2108	<i>Ⓢ</i> 2118	3 2128	⌋ 2138	<i>ï</i> 2148
9	°F 2109	Ⓟ 2119	ı 2129	i 2139	<i>ĵ</i> 2149
A	<i>g</i> 210A	Q 211A	K 212A	Ⓞ 213A	Ⓟ 214A
B	<i>ℋ</i> 210B	<i>℞</i> 211B	Å 212B	FAX 213B	<i>Ⓕ</i> 214B
C	<i>ℤ</i> 210C	<i>℞</i> 211C	<i>ℬ</i> 212C	π 213C	<i>Ⓕ</i> 214C
D	H 210D	R 211D	℄ 212D	Ⓢ 213D	A/s 214D
E	<i>h</i> 210E	<i>℞</i> 211E	e 212E	⌋ 213E	Ⓕ 214E
F	<i>ħ</i> 210F	<i>℞</i> 211F	<i>e</i> 212F	Ⓢ 213F	<i>ℓℓℓ</i> 214F

Letterlike symbols

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

- 2100 $\%$ ACCOUNT OF
 ≈ 0061 a 002F / 0063 c
- 2101 $\%$ ADDRESSED TO THE SUBJECT
 → 214D $\%$ aktieselskab
 ≈ 0061 a 002F / 0073 s
- 2102 \mathbb{C} DOUBLE-STRUCK CAPITAL C
 = the set of complex numbers
 ≈ 0043 **C** latin capital letter c
- 2103 $^{\circ}\text{C}$ DEGREE CELSIUS
 = degrees Centigrade
 ≈ 00B0 $^{\circ}$ 0043 **C**
- 2104 € CENTRE LINE SYMBOL
 = clone
- 2105 $\%$ CARE OF
 ≈ 0063 c 002F / 006F o
- 2106 $\%$ u CADA UNA
 • Spanish for "each one"
 ≈ 0063 c 002F / 0075 u
- 2107 \mathcal{E} EULER CONSTANT
 → 0045 **E** latin capital letter e
 ≈ 0190 **E** latin capital letter open e
- 2108 \mathcal{D} SCRUPLE
- 2109 $^{\circ}\text{F}$ DEGREE FAHRENHEIT
 ≈ 00B0 $^{\circ}$ 0046 **F**
- 210A \mathcal{g} SCRIPT SMALL G
 = real number symbol
 ≈ 0067 **g** latin small letter g
- 210B \mathcal{H} SCRIPT CAPITAL H
 = Hamiltonian operator
 ≈ 0048 **H** latin capital letter h
- 210C \mathfrak{H} BLACK-LETTER CAPITAL H
 = Hilbert space
 ≈ 0048 **H** latin capital letter h
- 210D \mathbb{H} DOUBLE-STRUCK CAPITAL H
 ≈ 0048 **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
 ≈ 0068 **h** latin small letter h
- 210F \hbar PLANCK CONSTANT OVER TWO PI
 → 045B **h** cyrillic small letter tshe
 ≈ 0127 **h** latin small letter h with stroke
- 2110 \mathcal{I} SCRIPT CAPITAL I
 ≈ 0049 **I** latin capital letter i
- 2111 \mathfrak{I} BLACK-LETTER CAPITAL I
 = imaginary part
 ≈ 0049 **I** latin capital letter i
- 2112 \mathcal{L} SCRIPT CAPITAL L
 = Laplace transform
 ≈ 004C **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 **l** or 004C **L**
 → 1D4C1 ℓ mathematical script small l
 ≈ 006C **l** latin small letter l
- 2114 £ L B BAR SYMBOL
 = pounds
 → 0023 **#** number sign
- 2115 \mathbb{N} DOUBLE-STRUCK CAPITAL N
 = natural number
 • a glyph variant with doubled vertical strokes exists
 ≈ 004E **N** latin capital letter n
- 2116 № NUMERO SIGN
 → 0023 **#** number sign
 → 00BA $^{\circ}$ masculine ordinal indicator
 ≈ 004E **N** 006F o
- 2117 © SOUND RECORDING COPYRIGHT
 = published
 = phonorecord sign
 → 00A9 © copyright sign
 → 24C5 © circled latin capital letter p
- 2118 \wp SCRIPT CAPITAL P
 × WEIERSTRASS ELLIPTIC FUNCTION
 • actually this has the form of a lowercase calligraphic p, despite its name
- 2119 \mathbb{P} DOUBLE-STRUCK CAPITAL P
 ≈ 0050 **P** latin capital letter p
- 211A \mathbb{Q} DOUBLE-STRUCK CAPITAL Q
 = the set of rational numbers
 ≈ 0051 **Q** latin capital letter q
- 211B \mathcal{R} SCRIPT CAPITAL R
 = Riemann Integral
 ≈ 0052 **R** latin capital letter r
- 211C \mathfrak{R} BLACK-LETTER CAPITAL R
 = real part
 ≈ 0052 **R** latin capital letter r
- 211D \mathbb{R} DOUBLE-STRUCK CAPITAL R
 = the set of real numbers
 ≈ 0052 **R** latin capital letter r
- 211E \mathbb{R} PRESCRIPTION TAKE
 = recipe
 = cross ratio
- 211F \mathfrak{R} RESPONSE
- 2120 SM SERVICE MARK
 ≈ <sup> 0053 **S** 004D **M**
- 2121 TEL TELEPHONE SIGN
 • typical forms for this symbol may use lowercase, small caps or superscripted letter shapes
 → 260E ☎ black telephone
 → 2706 📍 telephone location sign
 → 1F4DE ☎ telephone receiver
 ≈ 0054 **T** 0045 **E** 004C **L**
- 2122 TM TRADE MARK SIGN
 → 1F12E Ⓜ circled wz
 ≈ <sup> 0054 **T** 004D **M**
- 2123 V VERSICLE

- 2124 \mathbb{Z} **DOUBLE-STRUCK CAPITAL Z**
= the set of integers
 \approx 005A **Z** latin capital letter z
- 2125 ζ **OUNCE SIGN**
→ 0292 ζ latin small letter ezh
→ 1F773 ζ alchemical symbol for half ounce
- 2126 Ω **OHM SIGN**
• SI unit of resistance, named after G. S. Ohm, German physicist
• preferred representation is 03A9 Ω
→ 260A Ω ascending node
 \equiv 03A9 Ω greek capital letter omega
- 2127 Ⓞ **INVERTED OHM SIGN**
= mho
• archaic unit of conductance (= the SI unit siemens)
• typographically a turned greek capital letter omega
→ 01B1 Ⓞ latin capital letter upsilon
→ 03A9 Ω greek capital letter omega
→ 260B Ⓞ descending node
- 2128 \mathbb{Z} **BLACK-LETTER CAPITAL Z**
 \approx 005A **Z** latin capital letter z
- 2129 ι **TURNED GREEK SMALL LETTER IOTA**
• unique element fulfilling a description (logic)
→ 03B9 ι greek small letter iota
- 212A **K** **KELVIN SIGN**
 \equiv 004B **K** latin capital letter k
- 212B Å **ANGSTROM SIGN**
• non SI length unit (=0.1 nm) named after A. J. Ångström, Swedish physicist
• preferred representation is 00C5 Å
 \equiv 00C5 Å latin capital letter a with ring above
- 212C \mathcal{B} **SCRIPT CAPITAL B**
= Bernoulli function
 \approx 0042 **B** latin capital letter b
- 212D \mathcal{C} **BLACK-LETTER CAPITAL C**
 \approx 0043 **C** latin capital letter c
- 212E e **ESTIMATED SYMBOL**
• used in European packaging
→ 0065 e latin small letter e
- 212F e **SCRIPT SMALL E**
= error
= natural exponent
 \approx 0065 e latin small letter e
- 2130 \mathcal{E} **SCRIPT CAPITAL E**
= emf (electromotive force)
 \approx 0045 **E** latin capital letter e
- 2131 \mathcal{F} **SCRIPT CAPITAL F**
= Fourier transform
 \approx 0046 **F** latin capital letter f
- 2132 Ⓜ **TURNED CAPITAL F**
= Claudian digamma inversum
• lowercase is 214E Ⓜ
→ 0046 **F** latin capital letter f
→ 03DC **F** greek letter digamma
- 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
→ 20BB Ⓜ nordic mark sign
 \approx 004D **M** latin capital letter m

- 2134 o **SCRIPT SMALL O**
= order, of inferior order to
 \approx 006F o latin small letter o

Hebrew letterlike math symbols*These are left-to-right characters.*

- 2135 \aleph **ALEF SYMBOL**
= first transfinite cardinal (countable)
 \approx 05D0 \aleph hebrew letter alef
- 2136 \beth **BET SYMBOL**
= second transfinite cardinal (the continuum)
 \approx 05D1 \beth hebrew letter bet
- 2137 \aleph **GIMEL SYMBOL**
= third transfinite cardinal (functions of a real variable)
 \approx 05D2 \aleph hebrew letter gimel
- 2138 \daleth **DALET SYMBOL**
= fourth transfinite cardinal
 \approx 05D3 \daleth hebrew letter dalet

Additional letterlike symbols

- 2139 **i** **INFORMATION SOURCE**
• intended for use with 20DD Ⓢ
→ 1F6C8 Ⓢ circled information source
 \approx 0069 **i** latin small letter i
- 213A Ⓞ **ROTATED CAPITAL Q**
• a binding signature mark
- 213B FAX **FACSIMILE SIGN**
• typical forms for this symbol may use lowercase, small caps or superscripted letter shapes
→ 2121 TEL telephone sign
→ 1F4E0 FAX fax machine
 \approx 0046 **F** 0041 **A** 0058 **X**
- 213C π **DOUBLE-STRUCK SMALL PI**
 \approx 03C0 π greek small letter pi
- 213D γ **DOUBLE-STRUCK SMALL GAMMA**
 \approx 03B3 γ greek small letter gamma
- 213E Γ **DOUBLE-STRUCK CAPITAL GAMMA**
 \approx 0393 Γ greek capital letter gamma
- 213F Π **DOUBLE-STRUCK CAPITAL PI**
 \approx 03A0 Π greek capital letter pi

Double-struck large operator

- 2140 Σ **DOUBLE-STRUCK N-ARY SUMMATION**
 \approx 2211 Σ n-ary summation

Additional letterlike symbols

- 2141 Ⓞ **TURNED SANS-SERIF CAPITAL G**
= game
- 2142 Ⓞ **TURNED SANS-SERIF CAPITAL L**
- 2143 Ⓞ **REVERSED SANS-SERIF CAPITAL L**
- 2144 Ⓞ **TURNED SANS-SERIF CAPITAL Y**

Double-struck italic math symbols*These stylized mathematical symbols are used in some documents to distinguish special mathematical usages from ordinary variables.*

- 2145 \mathcal{D} **DOUBLE-STRUCK ITALIC CAPITAL D**
• sometimes used for the differential
 \approx 0044 **D** latin capital letter d
- 2146 \mathcal{d} **DOUBLE-STRUCK ITALIC SMALL D**
• sometimes used for the differential
 \approx 0064 **d** latin small letter d

- 2147 *e* DOUBLE-STRUCK ITALIC SMALL E
 • sometimes used for the natural exponent
 ≈ 0065 **e** latin small letter e
- 2148 *i* DOUBLE-STRUCK ITALIC SMALL I
 • sometimes used for the imaginary unit
 ≈ 0069 **i** latin small letter i
- 2149 *j* DOUBLE-STRUCK ITALIC SMALL J
 • sometimes used for the imaginary unit
 ≈ 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 ⌘ AKTIESELSKAB
 → 2101 ⌘ addressed to the subject

Lowercase Claudian letter

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

- 214E ϝ TURNED SMALL F
 • uppercase is 2132 ϝ
 → 03DD **ϝ** greek small letter digamma

Biblical editorial symbol

- 214F ⌘ SYMBOL FOR SAMARITAN SOURCE