Letterlike Symbols
Range: 2100–214F

The Unicode Standard, Version 5.1
This file contains an excerpt from the character code tables and list of character names for
The Unicode Standard, Version 5.1.

Characters in this chart that are new for The Unicode Standard, Version 5.1 are shown in conjunction with any existing
characters. For ease of reference, the new characters have been highlighted in the chart grid and in the names list.

This file will not be updated with errata, or when additional characters are assigned to the Unicode Standard.
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-5.1/ for charts showing only the characters added in Unicode 5.1.
See http://www.unicode.org/Public/5.1.0/charts/ for a complete archived file of character code charts for Unicode 5.1.

Disclaimer
These charts are provided as the online reference to the character contents of the Unicode Standard, Version 5.1 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 5.0 (ISBN 0-321-48091-0), online at http://www.unicode.org/versions/Unicode5.0.0/, as well as
Unicode Standard Annexes #9, #11, #14, #15, #24, #29, #31, #34, #38, #41, #42, and #44, 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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characters currently being considered for addition to the Unicode Standard can be found on the Unicode web site.


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### Letterlike Symbols

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Letterlike Symbols

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

ACCOUNT OF
≈ 0061 a 002F / 0063 c

Addressed to the Subject
⇒ 214D ½ aktieselskab
≈ 0061 a 002F / 0073 s

DOUBLE-STRUCK CAPITAL C
= the set of complex numbers
≈ <font> 0043 C latin capital letter c

DEGREE CELSIUS
= degrees Centigrade
≈ 0080 ° 0043 C

CENTRE LINE SYMBOL
= clone

CARE OF
≈ 0063 c 002F / 006F o

CADA UNA
≈ 0063 c 002F / 0075 u

EULER CONSTANT
⇒ 0045 E latin capital letter e
≈ 0190 E latin capital letter open e

SCRIPT URUPLE
≈ 0080 ° 0046 F

SCRIPT SMALL G
= real number symbol
≈ <font> 0067 g latin small letter g

SCRIPT CAPITAL H
= Hamiltonian operator
⇒ <font> 0048 H latin capital letter h

BLACK-LETTER CAPITAL H
= Hilbert space
⇒ <font> 0048 H latin capital letter h

DOUBLE-STRUCK CAPITAL H
⇒ <font> 0048 H latin capital letter h

PLANCK CONSTANT
= height, specific enthalpy, ...
• simply a mathematical italic h; this character’s name results from legacy usage
≈ <font> 0068 h latin small letter h

PLANCK CONSTANT OVER TWO PI
⇒ 045B h cyrillic small letter tshe
≈ <font> 0127 h latin small letter h with stroke

SCRIPT CAPITAL I
⇒ <font> 0049 I latin capital letter i

BLACK-LETTER CAPITAL I
= imaginary part
⇒ <font> 0049 I latin capital letter i

SCRIPT CAPITAL L
= Laplace transform
≈ <font> 004C L latin capital letter l

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
⇒ 1D4C1 / mathematical script small l
≈ <font> 006C l latin small letter l

L B BAR SYMBOL
= pounds
⇒ 0023 # number sign

DOUBLE-STRUCK CAPITAL N
= natural number
• a glyph variant with doubled vertical strokes exists
≈ <font> 004E N latin capital letter n

NUMERO SIGN
≈ 004E N 005F o

SOUND RECORDING COPYRIGHT
= published
= phonorecord sign
⇒ 00A9 © copyright sign
⇒ 2AC5 ☪ circled latin capital letter p

SCRIPT CAPITAL P
= Weierstrass elliptic function
• actually this has the form of a lowercase calligraphic p, despite its name

DOUBLE-STRUCK CAPITAL P
⇒ <font> 0050 P latin capital letter p

DOUBLE-STRUCK CAPITAL Q
= the set of rational numbers
⇒ <font> 0051 Q latin capital letter q

SCRIPT CAPITAL R
= Riemann Integral
⇒ <font> 0052 R latin capital letter r

BLACK-LETTER CAPITAL R
= real part
⇒ <font> 0052 R latin capital letter r

DOUBLE-STRUCK CAPITAL R
= the set of real numbers
⇒ <font> 0052 R latin capital letter r

PRESCRIPTION TAKE
= recipe
= cross ratio

RESPONSE

SERVICE MARK
⇒ <super> 0053 S 004D M

TELEPHONE SIGN
• typical forms for this symbol may use lower case, small caps or superscripted letter shapes
⇒ 260E ☎ black telephone
⇒ 2706 ☏ telephone location sign
≈ 0054 T 0045 E 004C L

TRADE MARK SIGN
⇒ <super> 0054 T 004D M

VERSICLE

DOUBLE-STRUCK CAPITAL Z
= the set of integers
⇒ <font> 005A Z latin capital letter z

OUNCE SIGN
⇒ 021D ἀ latin small letter yogh
2126 Ω OHM SIGN
• SI unit of resistance, named after G. S. Ohm, German physicist
• preferred representation is 03A9 Ω
→ 260A ω ascending node
≡ 03A9 Ω greek capital letter omega
2127 ℰ INVERTED OHM SIGN
= mho
• archaic unit of conductance (= the SI unit siemens)
• typographically a turned greek capital letter omega
→ 01B1 Ω latin capital letter upsilon
≡ 03A9 Ω greek capital letter omega
→ 260B ω descending node
2128 ℡ BLACK-LETTER CAPITAL Z
≈ <font> 005A Z latin capital letter z
2129 ℃ TURNED GREEK SMALL LETTER IOTA
• unique element fulfilling a description (logic)
→ 03B9 i greek small letter iota
212A ℅ KELVIN SIGN
≡ 004B K latin capital letter k
212B ℬ ANGSTROM SIGN
• non SI length unit (=0.1 nm) named after A. J. Angström, Swedish physicist
• preferred representation is 00C5 Å
≡ 00C5 Å latin capital letter a with ring above
212C ℭ SCRIPT CAPITAL B
= Bernoulli function
≈ <font> 0042 B latin capital letter b
212D ℮ BLACK-LETTER CAPITAL C
≈ <font> 0043 c latin capital letter c
212E ℯ ESTIMATED SYMBOL
• used in European packaging
→ 0065 e latin small letter e
212F Å SCRIPT SMALL E
= error
= natural exponent
≈ <font> 0065 e latin small letter e
2130 ℰ SCRIPT CAPITAL E
= emf (electromotive force)
≈ <font> 0045 E latin capital letter e
2131 ℳ SCRIPT CAPITAL F
= Fourier transform
≈ <font> 0046 F latin capital letter f
2132 Ⅎ TURNED CAPITAL F
= Claudian digamma inversum
• lowercase is 214E a
→ 0046 f latin capital letter f
→ 03DC F greek letter digamma
2133 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
≈ <font> 004D M latin capital letter m
2134 ℬ SCRIPT SMALL O
= order, of inferior order to
≈ <font> 006F o latin small letter o

Hebrew letterlike math symbols
These are left-to-right characters.
2135 ℮ ALEF SYMBOL
= first transfinite cardinal (countable)
≈ 05D0 א hebrew letter alef
2136 ℯ BET SYMBOL
= second transfinite cardinal (the continuum)
≈ 05D1 ב hebrew letter bet
2137 ℱ GIMEL SYMBOL
= third transfinite cardinal (functions of a real variable)
≈ 05D2 ג hebrew letter gimel
2138 ℯ DALET SYMBOL
= fourth transfinite cardinal
≈ 05D3 ד hebrew letter dalet

Additional letterlike symbols
2139 ℰ INFORMATION SOURCE
• intended for use with 20DD ○
≈ <font> 0069 i latin small letter i
213A ℯ ROTATED CAPITAL Q
• a binding signature mark
213B ℰ FACSIMILE SIGN
• typical forms for this symbol may use lower case, small caps or superscripted letter shapes
→ 2121 Ω telephone sign
≈ 0046 F 0041 A 0058 X
213C ℰ DOUBLE-STRUCK SMALL PI
≈ <font> 03C0 π greek small letter pi
213D ℰ DOUBLE-STRUCK SMALL GAMMA
≈ <font> 03B3 γ greek small letter gamma
213E ℰ DOUBLE-STRUCK CAPITAL GAMMA
≈ <font> 0393 Γ greek capital letter gamma
213F ℰ DOUBLE-STRUCK CAPITAL PI
≈ <font> 03A0 Π greek capital letter pi

Double-struck large operator
2140 ℰ DOUBLE-STRUCK N-ARY SUMMATION
≈ <font> 2211 ∑ n-ary summation

Additional letterlike symbols
2141 ℰ TURNED SANS-SERIF CAPITAL G
= game
2142 ℰ TURNED SANS-SERIF CAPITAL L
2143 ℰ REVERSED SANS-SERIF CAPITAL L
2144 ℰ 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 ℰ DOUBLE-STRUCK ITALIC CAPITAL D
• sometimes used for the differential
≈ <font> 0044 D latin capital letter d
2146 ℰ DOUBLE-STRUCK ITALIC SMALL D
• sometimes used for the differential
≈ <font> 0064 d latin small letter d
2147 ℰ DOUBLE-STRUCK ITALIC SMALL E
• sometimes used for the natural exponent
≈ <font> 0065 e latin small letter e
DOUBLE-STRUCK ITALIC SMALL I
• sometimes used for the imaginary unit
≈ <font> 0069 i latin small letter i

DOUBLE-STRUCK ITALIC SMALL J
• sometimes used for the imaginary unit
≈ <font> 006A j latin small letter j

Additional letterlike symbols

PROPERTY LINE

TURNED AMPERSAND
• used in linear logic
→ 0026 & ampersand

PER SIGN
• abbreviates the word ‘per’

AKTIESELSKAB
→ 2101 % addressed to the subject

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

TURNED SMALL F
• uppercase is 2132 ℱ
→ 03DD ϝ greek small letter digamma

Biblical editorial symbol
SYMBOL FOR SAMARITAN SOURCE