

Letterlike Symbols

Range: 2100–214F

The Unicode Standard, Version 3.2

This file contains an excerpt from the character code tables and list of character names for *The Unicode Standard, Version 3.2*.

Characters in this chart that are new for The Unicode Standard, Version 3.2 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/charts> for access to a complete list of the latest character charts.

Disclaimer

These charts are provided as the on-line reference to the character contents of the Unicode Standard, Version 3.2 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 excerpt file, please consult the appropriate sections of The Unicode Standard, Version 3.0 (ISBN 0-201-61633-5), as well as Unicode Standard Annexes #28 and #27, the other Unicode Technical Reports and the Unicode Character Database, which are available on-line.

See <http://www.unicode.org/Public/UNIDATA/UnicodeCharacterDatabase.html> and <http://www.unicode.org/unicode/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. 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 <http://www.unicode.org/unicode/uni2book/u2fonts.html> for a list.

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






















































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The information in this file may be updated from time to time. The Unicode Consortium is not liable for errors or omissions in this excerpt file or the standard itself. Information on characters added to the Unicode Standard since the publication of Version 3.2 as well as on characters currently being considered for addition to the Unicode Standard can be found on the Unicode web site.

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

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	210	211	212	213	214
0	 2100	 2110	 2120	 2130	 2140
1	 2101	 2111	 2121	 2131	 2141
2	 2102	 2112	 2122	 2132	 2142
3	 2103	 2113	 2123	 2133	 2143
4	 2104	 2114	 2124	 2134	 2144
5	 2105	 2115	 2125	 2135	 2145
6	 2106	 2116	 2126	 2136	 2146
7	 2107	 2117	 2127	 2137	 2147
8	 2108	 2118	 2128	 2138	 2148
9	 2109	 2119	 2129	 2139	 2149
A	 210A	 211A	 212A	 213A	 214A
B	 210B	 211B	 212B		 214B
C	 210C	 211C	 212C		
D	 210D	 211D	 212D	 213D	
E	 210E	 211E	 212E	 213E	
F	 210F	 211F	 212F	 213F	

Letterlike symbols

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

2100	‰	ACCOUNT OF ≈ 0061 a 002F / 0063 c	2114	℔	L B BAR SYMBOL = pounds
2101	‱	ADDRESSED TO THE SUBJECT ≈ 0061 a 002F / 0073 s	2115	ℕ	DOUBLE-STRUCK CAPITAL N = natural number ≈ 004E N latin capital letter n
2102	ℂ	DOUBLE-STRUCK CAPITAL C = the set of complex numbers ≈ 0043 C latin capital letter c	2116	№	NUMERO SIGN ≈ 004E N 006F o
2103	°C	DEGREE CELSIUS = degrees Centigrade ≈ 00B0 ° 0043 C	2117	©	SOUND RECORDING COPYRIGHT = published = phonorecord sign → 00A9 © copyright sign
2104	¢	CENTRE LINE SYMBOL = clone	2118	℘	SCRIPT CAPITAL P = Weierstrass elliptic function • actually this has the form of a lowercase calligraphic p, despite its name
2105	‰	CARE OF ≈ 0063 c 002F / 006F o	2119	ℙ	DOUBLE-STRUCK CAPITAL P ≈ 0050 P latin capital letter p
2106	‰	CADA UNA ≈ 0063 c 002F / 0075 u	211A	ℚ	DOUBLE-STRUCK CAPITAL Q = the set of rational numbers ≈ 0051 Q latin capital letter q
2107	ℰ	EULER CONSTANT → 0045 E latin capital letter e ≈ 0190 ℰ latin capital letter open e	211B	℞	SCRIPT CAPITAL R = Riemann Integral ≈ 0052 R latin capital letter r
2108	Ⓢ	SCRUPLE	211C	ℜ	BLACK-LETTER CAPITAL R = real part ≈ 0052 R latin capital letter r
2109	°F	DEGREE FAHRENHEIT ≈ 00B0 ° 0046 F	211D	ℝ	DOUBLE-STRUCK CAPITAL R = the set of real numbers ≈ 0052 R latin capital letter r
210A	ℊ	SCRIPT SMALL G = real number symbol ≈ 0067 g latin small letter g	211E	℞	PRESCRIPTION TAKE = recipe = cross ratio
210B	ℋ	SCRIPT CAPITAL H = Hamiltonian function ≈ 0048 H latin capital letter h	211F	℞	RESPONSE
210C	ℋ	BLACK-LETTER CAPITAL H = Hilbert space ≈ 0048 H latin capital letter h	2120	SM	SERVICE MARK ≈ <sup> 0053 S 004D M
210D	ℋ	DOUBLE-STRUCK CAPITAL H ≈ 0048 H latin capital letter h	2121	TEL	TELEPHONE SIGN ≈ 0054 T 0045 E 004C L
210E	ℏ	PLANCK CONSTANT ≈ 0068 h latin small letter h	2122	TM	TRADE MARK SIGN ≈ <sup> 0054 T 004D M
210F	ℏ	PLANCK CONSTANT OVER TWO PI → 045B ħ cyrillic small letter tshe ≈ 0127 ħ latin small letter h with stroke	2123	℣	VERSICLE
2110	ℐ	SCRIPT CAPITAL I ≈ 0049 I latin capital letter i	2124	ℤ	DOUBLE-STRUCK CAPITAL Z = the set of integers ≈ 005A Z latin capital letter z
2111	ℑ	BLACK-LETTER CAPITAL I = imaginary part ≈ 0049 I latin capital letter i	2125	℥	OUNCE SIGN → 021D 3 latin small letter yogh
2112	ℒ	SCRIPT CAPITAL L = Laplace symbol ≈ 004C L latin capital letter l	2126	Ω	OHM SIGN • SI unit of resistance, named after G. S. Ohm, German physicist • preferred representation is 03A9 Ω ≡ 03A9 Ω greek capital letter omega
2113	ℓ	SCRIPT SMALL L = liter (not an official SI recommendation) • the glyph shown is that of the traditional liter symbol, rather than a glyph harmonized with mathematical script fonts ≈ 006C l latin small letter l	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

- 2128 Ƶ BLACK-LETTER CAPITAL Z
≈ 005A Z latin capital letter z
- 2129 ı TURNED GREEK SMALL LETTER IOTA
• unique element fulfilling a description (logic)
→ 03B9 ı greek small letter iota
- 212A K KELVIN SIGN
≡ 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
≡ 00C5 Å latin capital letter a with ring above
- 212C ℬ SCRIPT CAPITAL B
= Bernoulli function
≈ 0042 B latin capital letter b
- 212D Ć BLACK-LETTER CAPITAL C
≈ 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
≈ 0065 e latin small letter e
- 2130 ℰ SCRIPT CAPITAL E
= EMF (Electro-Magnetic Force)
≈ 0045 E latin capital letter e
- 2131 ℱ SCRIPT CAPITAL F
= Fourier transform
≈ 0046 F latin capital letter f
- 2132 Ɔ TURNED CAPITAL F
→ 0046 F latin capital letter f
- 2133 ℳ SCRIPT CAPITAL M
= M-matrix (physics)
= German Mark (not the current Deutsche Mark)
≈ 004D M latin capital letter m
- 2134 o SCRIPT SMALL O
= order, of inferior order to
≈ 006F o latin small letter o

Hebrew letterlike math symbols (left-to-right)

- 2135 א ALEF SYMBOL
= first transfinite cardinal (countable)
≈ 05D0 א hebrew letter alef
- 2136 ב BET SYMBOL
= second transfinite cardinal (the continuum)
≈ 05D1 ב hebrew letter bet
- 2137 ג GIMEL SYMBOL
= third transfinite cardinal (functions of a real variable)
≈ 05D2 ג hebrew letter gimel

- 2138 ד DALET SYMBOL
= fourth transfinite cardinal
≈ 05D3 ד hebrew letter dalet

Additional letterlike symbols

- 2139 i INFORMATION SOURCE
• intended for use with 20DD ©
≈ 0069 i latin small letter i
- 213A Q ROTATED CAPITAL Q
• a binding signature mark
- 213B <reserved>
- 213C <reserved>
- 213D γ DOUBLE-STRUCK SMALL GAMMA
≈ 03B3 γ greek small letter gamma
- 213E Γ DOUBLE-STRUCK CAPITAL GAMMA
≈ 0393 Γ greek capital letter gamma
- 213F Π DOUBLE-STRUCK CAPITAL PI
≈ 03A0 Π greek capital letter pi

Double-struck large operator

- 2140 ∑ DOUBLE-STRUCK N-ARY SUMMATION
≈ 2211 ∑ n-ary summation

Additional letterlike symbols

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

Double-struck italic mathematical 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
≈ 0044 D latin capital letter d
- 2146 d DOUBLE-STRUCK ITALIC SMALL D
• sometimes used for the differential
≈ 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 ℙ PROPERTY LINE
- 214B ℘ TURNED AMPERSAND
• used in linear logic
→ 0026 & ampersand