Letterlike Symbols  
Range: 2100–214F

The Unicode Standard, Version 4.0
This file contains an excerpt from the character code tables and list of character names for  
The Unicode Standard, Version 4.0.

Characters in this chart that are new for The Unicode Standard, Version 4.0 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  
4.0 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 excerpt file, please  
consult the appropriate sections of The Unicode Standard, Version 4.0 (ISBN 0-321-18578-1), as well as  
Unicode Standard Annexes #9, #11, #14, #15, #24 and #29, the other Unicode Technical Reports and the  
Unicode Character Database, which are available on-line.

See http://www.unicode.org/Public/UNIDATA/UCD.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.

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Standard since the publication of Version 4.0 as well as on 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.

\(\text{ACCOUNT OF}\)
\(\approx 0061 \text{ a} 002F / 0063 \text{ c}\)

\(\text{ADDRESS OF THE SUBJECT}\)
\(\approx 0061 \text{ a} 002F / 0073 \text{ s}\)

\(\text{DOUBLE-STRUCK CAPITAL C}\)
\(\approx \text{ <font> 0043 C latin capital letter c}\)

\(\text{DEGREE CELSIUS}\)
\(\approx 0080 ° 0043 \text{ C}\)

\(\text{CENTRE LINE SYMBOL}\)
\(\approx \text{ clone}\)

\(\text{CARE OF}\)
\(\approx 0063 \text{ c} 002F / 0066 \text{ o}\)

\(\text{CADA UNA}\)
\(\approx 0063 \text{ c} 002F / 0075 \text{ u}\)

\(\text{EULER CONSTANT}\)
\(\approx 0045 \text{ E latin capital letter e}\)
\(\approx 0190 \text{ E latin capital letter open e}\)

\(\text{SCRUPLE}\)
\(\approx 0060 ° 0046 \text{ F}\)

\(\text{SCRIPT SMALL G}\)
\(\approx \text{ <font> 0067 g latin small letter g}\)

\(\text{SCRIPT CAPITAL H}\)
\(= \text{ Hamiltonian function}\)
\(\approx \text{ <font> 0048 H latin capital letter h}\)

\(\text{BLACK-LETTER CAPITAL H}\)
\(= \text{ Hilbert space}\)
\(\approx \text{ <font> 0046 H latin capital letter h}\)

\(\text{DOUBLE-STRUCK CAPITAL H}\)
\(= \text{ <font> 0048 H latin capital letter h}\)

\(\text{PLANCK CONSTANT}\)
\(= \text{ <font> 0068 h latin small letter h}\)
\(\approx \text{ <font> 0127 h latin small letter h with stroke}\)

\(\text{SCRIPT CAPITAL I}\)
\(\approx \text{ <font> 0049 I latin capital letter i}\)

\(\text{BLACK-LETTER CAPITAL I}\)
\(= \text{ imaginary part}\)
\(\approx \text{ <font> 0049 I latin capital letter i}\)

\(\text{SCRIPT CAPITAL L}\)
\(= \text{ Laplace symbol}\)
\(\approx \text{ <font> 004C L latin capital letter l}\)

\(\text{SCRIPT SMALL L}\)
\(= \text{ mathematical symbol 'ell'}\)
\(= \text{ liter (traditional symbol)}\)
\(\approx \text{ despite its name, this symbol is derived from a special italicized version of the small letter l}\)
\(\approx \text{ the SI recommended symbol for liter is 006C l}\)
\(\approx \text{ <font> 006C l latin small letter l}\)

\(\text{L B BAR SYMBOL}\)
\(= \text{ pounds}\)

\(\text{DOUBLE-STRUCK CAPITAL N}\)
\(= \text{ natural number}\)
\(\approx \text{ <font> 004E N latin capital letter n}\)

\(\text{NUMERO SIGN}\)
\(\approx 0046 \text{ N 006F o}\)

\(\text{SOUND RECORDING COPYRIGHT}\)
\(= \text{ published}\)
\(= \text{ phonorecord sign}\)
\(\rightarrow \text{ 00A9 © copyright sign}\)

\(\text{SCRIPT CAPITAL P}\)
\(= \text{ Weierstrass elliptic function}\)
\(\approx \text{ actually this has the form of a lowercase calligraphic p, despite its name}\)

\(\text{DOUBLE-STRUCK CAPITAL P}\)
\(= \text{ <font> 0050 P latin capital letter p}\)

\(\text{DOUBLE-STRUCK CAPITAL Q}\)
\(= \text{ the set of rational numbers}\)
\(\approx \text{ <font> 0051 Q latin capital letter q}\)

\(\text{SCRIPT CAPITAL R}\)
\(= \text{ Riemann Integral}\)
\(\approx \text{ <font> 0052 R latin capital letter r}\)

\(\text{BLACK-LETTER CAPITAL R}\)
\(= \text{ real part}\)
\(\approx \text{ <font> 0052 R latin capital letter r}\)

\(\text{DOUBLE-STRUCK CAPITAL R}\)
\(= \text{ the set of real numbers}\)
\(\approx \text{ <font> 0052 R latin capital letter r}\)

\(\text{PRESCRIPTION TAKE}\)
\(= \text{ recipe}\)
\(= \text{ cross ratio}\)

\(\text{RESPONSE}\)
\(\approx \text{ super> 0053 S 004D M}\)

\(\text{TELEPHONE SIGN}\)
\(\approx 0054 \text{ T 0045 E 004C L}\)

\(\text{TRADE MARK SIGN}\)
\(\approx \text{ <font> 0054 T 004D M}\)

\(\text{VERSICLE}\)
\(\approx \text{ <font> 0052 Z latin capital letter z}\)

\(\text{OUNCE SIGN}\)
\(\rightarrow \text{ 021D } \text{ latin small letter yogh}\)
Letterlike Symbols

Hebrew letterlike math symbols

There are left-to-right characters.

\( \aleph \) ALEF SYMBOL

\( = \) first transfinite cardinal (countable)
\( \approx 05D0 \) \( \aleph \) hebrew letter alef

\( \beth \) BET SYMBOL

\( = \) second transfinite cardinal (the continuum)
\( \approx 05D1 \) \( \beth \) hebrew letter bet

\( \gimel \) GIMEL SYMBOL

\( = \) third transfinite cardinal (functions of a real variable)
\( \approx 05D2 \) \( \gimel \) hebrew letter gimel

\( \daleth \) DALET SYMBOL

\( = \) fourth transfinite cardinal
\( \approx 05D3 \) \( \daleth \) hebrew letter dalet

Additional letterlike symbols

\( \iota \) INFORMATION SOURCE

\( \equiv \) intended for use with 20DD\( \circ \)
\( \approx <\text{font}> \) 0069 \( \iota \) latin small letter i

\( \forall \) ROTATED CAPITAL Q

\( \equiv \) a binding signature mark

\( \varphi \) FACSIMILE SIGN

\( \rightarrow \) 2121 \( \varphi \) telephone sign
\( \approx 0046 \text{ F} \) 0041 \( \text{ A} \) 0058 \( \text{ X} \)

\( \ominus \) <reserved>

\( \gamma \) DOUBLE-STRUCK SMALL GAMMA

\( \approx <\text{font}> \) 03B3 \( \gamma \) greek small letter gamma

\( \Gamma \) DOUBLE-STRUCK CAPITAL GAMMA

\( \approx <\text{font}> \) 0393 \( \Gamma \) greek capital letter gamma

\( \Pi \) DOUBLE-STRUCK CAPITAL PI

\( \approx <\text{font}> \) 03A0 \( \Pi \) greek capital letter pi

Double-struck large operator

\( \sum \) DOUBLE-STRUCK N-ARY SUMMATION

\( \approx <\text{font}> \) 2211 \( \sum \) n-ary summation

Additional letterlike symbols

\( \exists \) TURNED SANS-SERIF CAPITAL G

\( = \) game

\( \forall \) TURNED SANS-SERIF CAPITAL L

\( \exists \) REVERSED SANS-SERIF CAPITAL L

\( \forall \) 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.

\( \partial \) DOUBLE-STRUCK ITALIC CAPITAL D

\( = \) sometimes used for the differential
\( \approx <\text{font}> \) 0044 \( \partial \) latin capital letter d

\( \varepsilon \) DOUBLE-STRUCK ITALIC SMALL D

\( = \) sometimes used for the differential
\( \approx <\text{font}> \) 0064 \( \varepsilon \) latin small letter d
2147  \( e \)  DOUBLE-STRUCK ITALIC SMALL E  
• sometimes used for the natural exponent  
\( \approx \) \texttt{0065 e}  latin small letter e  

2148  \( i \)  DOUBLE-STRUCK ITALIC SMALL I  
• sometimes used for the imaginary unit  
\( \approx \) \texttt{0069 i}  latin small letter i  

2149  \( j \)  DOUBLE-STRUCK ITALIC SMALL J  
• sometimes used for the imaginary unit  
\( \approx \) \texttt{006A j}  latin small letter j  

Additional letterlike symbols  

214A  \( \Phi \)  PROPERTY LINE  

214B  \( \Upsilon \)  TURNED AMPERSAND  
• used in linear logic  
\( \rightarrow 0026 \) \&  ampersand