Mathematical Alphanumeric Symbols
Range: 1D400–1D7FF

The Unicode Standard, Version 15.1
This file contains an excerpt from the character code tables and list of character names for The Unicode Standard, Version 15.1

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-15.1/ for charts showing only the characters added in Unicode 15.1.
See https://www.unicode.org/Public/15.1.0/charts/ for a complete archived file of character code charts for Unicode 15.1.
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 15.1 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 15.1, online at https://www.unicode.org/versions/Unicode15.1.0/, 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 https://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.

Copying characters from the character code tables or list of character names is not recommended, because for production reasons the PDF files for the code charts cannot guarantee that the correct character codes will always be copied.

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See https://www.unicode.org/pending/pending.html and http://www.unicode.org/alloc/Pipeline.html.
See https://www.unicode.org/charts/About.html for more information concerning the conventions and symbols used in these code charts.

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<table>
<thead>
<tr>
<th>Unicode Block</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>1D50</code> - <code>1D5F</code></td>
<td>Mathematical Alphanumeric Symbols</td>
</tr>
</tbody>
</table>

The image contains a table showing the Unicode blocks for mathematical alphanumeric symbols. Each row represents a different block, with columns indicating the code points for each symbol within the block. The table is designed to help users understand the range and structure of these symbols in the Unicode standard.
<table>
<thead>
<tr>
<th>Unicode</th>
<th>Name</th>
<th>Description</th>
<th>Comment</th>
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<tbody>
<tr>
<td>1D60</td>
<td>s I Y o E U k A Q g w I Ω o q O</td>
<td>Mathematical Alphanumeric Symbols</td>
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<tr>
<td>1D61</td>
<td>t J Z p F V l B R h x K ∨ π ω Π</td>
<td>Mathematical Alphanumeric Symbols</td>
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<tr>
<td>1D62</td>
<td>u K a q G W m C S i y Λ α ρ A P</td>
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<td>1D63</td>
<td>v L b r H X n D T j z M β ζ B Θ</td>
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<tr>
<td>1D64</td>
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<td>1D65</td>
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<td>1D69</td>
<td>B R h x N d t J Z p B Θ θ ψ Θ Ψ</td>
<td>Mathematical Alphanumeric Symbols</td>
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<tr>
<td>1D60A</td>
<td>C S i y O e u K a q Γ Σ i Ω I Ω</td>
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<tr>
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<td>1D60C</td>
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<tr>
<td>1D60D</td>
<td>F V l B R h x N d t Z Φ μ θ M β</td>
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<tr>
<td>1D60E</td>
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<td>1D60F</td>
<td>H X n D T j z P f v Θ Ψ ξ φ Ξ δ</td>
<td>Mathematical Alphanumeric Symbols</td>
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</table>
### Mathematical Alphanumeric Symbols

<table>
<thead>
<tr>
<th>Unicode Range</th>
<th>Symbol</th>
<th>Symbol</th>
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<tbody>
<tr>
<td>1D70 - 1D79</td>
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<td>𝜁</td>
<td>𝜂</td>
<td>𝜃</td>
<td>𝜄</td>
<td>𝜅</td>
<td>𝜆</td>
<td>𝜇</td>
<td>𝜈</td>
<td>𝜉</td>
<td>𝜊</td>
<td>𝜋</td>
<td>𝜌</td>
<td>𝜍</td>
<td>𝜐</td>
<td>𝜑</td>
<td>𝜒</td>
<td>𝜓</td>
<td>𝜔</td>
<td>𝜕</td>
<td>𝜖</td>
<td>𝜗</td>
<td>𝜘</td>
<td>𝜙</td>
</tr>
<tr>
<td>1D7A - 1D7F</td>
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<td>𝜑</td>
<td>𝜒</td>
<td>𝜓</td>
<td>𝜔</td>
<td>𝜕</td>
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<td>𝜑</td>
<td>𝜒</td>
<td>𝜓</td>
<td>𝜔</td>
</tr>
</tbody>
</table>
To be used for mathematical variables where style variations are important semantically. For general text, use standard Latin and Greek letters with markup.

**Bold symbols**

1D400 A MATHMATICAL BOLD CAPITAL A
≈ <font> 0041 A latin capital letter a
1D401 B MATHMATICAL BOLD CAPITAL B
≈ <font> 0042 B latin capital letter b
1D402 C MATHMATICAL BOLD CAPITAL C
≈ <font> 0043 C latin capital letter c
1D403 D MATHMATICAL BOLD CAPITAL D
≈ <font> 0044 D latin capital letter d
1D404 E MATHMATICAL BOLD CAPITAL E
≈ <font> 0045 E latin capital letter e
1D405 F MATHMATICAL BOLD CAPITAL F
≈ <font> 0046 F latin capital letter f
1D406 G MATHMATICAL BOLD CAPITAL G
≈ <font> 0047 G latin capital letter g
1D407 H MATHMATICAL BOLD CAPITAL H
≈ <font> 0048 H latin capital letter h
1D408 I MATHMATICAL BOLD CAPITAL I
≈ <font> 0049 I latin capital letter i
1D409 J MATHMATICAL BOLD CAPITAL J
≈ <font> 004A J latin capital letter j
1D40A K MATHMATICAL BOLD CAPITAL K
≈ <font> 004B K latin capital letter k
1D40B L MATHMATICAL BOLD CAPITAL L
≈ <font> 004C L latin capital letter l
1D40C M MATHMATICAL BOLD CAPITAL M
≈ <font> 004D M latin capital letter m
1D40D N MATHMATICAL BOLD CAPITAL N
≈ <font> 004E N latin capital letter n
1D40E O MATHMATICAL BOLD CAPITAL O
≈ <font> 004F O latin capital letter o
1D40F P MATHMATICAL BOLD CAPITAL P
≈ <font> 0050 P latin capital letter p
1D410 Q MATHMATICAL BOLD CAPITAL Q
≈ <font> 0051 Q latin capital letter q
1D411 R MATHMATICAL BOLD CAPITAL R
≈ <font> 0052 R latin capital letter r
1D412 S MATHMATICAL BOLD CAPITAL S
≈ <font> 0053 S latin capital letter s
1D413 T MATHMATICAL BOLD CAPITAL T
≈ <font> 0054 T latin capital letter t
1D414 U MATHMATICAL BOLD CAPITAL U
≈ <font> 0055 U latin capital letter u
1D415 V MATHMATICAL BOLD CAPITAL V
≈ <font> 0056 V latin capital letter v
1D416 W MATHMATICAL BOLD CAPITAL W
≈ <font> 0057 W latin capital letter w
1D417 X MATHMATICAL BOLD CAPITAL X
≈ <font> 0058 X latin capital letter x
1D418 Y MATHMATICAL BOLD CAPITAL Y
≈ <font> 0059 Y latin capital letter y
1D419 Z MATHMATICAL BOLD CAPITAL Z
≈ <font> 005A Z latin capital letter z
1D41A a MATHMATICAL BOLD SMALL A
≈ <font> 0061 a latin small letter a
1D41B b MATHMATICAL BOLD SMALL B
≈ <font> 0062 b latin small letter b
1D41C c MATHMATICAL BOLD SMALL C
≈ <font> 0063 c latin small letter c
1D41D d MATHMATICAL BOLD SMALL D
≈ <font> 0064 d latin small letter d
1D41E e MATHMATICAL BOLD SMALL E
≈ <font> 0065 e latin small letter e
1D41F f MATHMATICAL BOLD SMALL F
≈ <font> 0066 f latin small letter f
1D420 g MATHMATICAL BOLD SMALL G
≈ <font> 0067 g latin small letter g
1D421 h MATHMATICAL BOLD SMALL H
≈ <font> 0068 h latin small letter h
1D422 i MATHMATICAL BOLD SMALL I
≈ <font> 0069 i latin small letter i
1D423 j MATHMATICAL BOLD SMALL J
≈ <font> 006A j latin small letter j
1D424 k MATHMATICAL BOLD SMALL K
≈ <font> 006B k latin small letter k
1D425 l MATHMATICAL BOLD SMALL L
≈ <font> 006C l latin small letter l
1D426 m MATHMATICAL BOLD SMALL M
≈ <font> 006D m latin small letter m
1D427 n MATHMATICAL BOLD SMALL N
≈ <font> 006E n latin small letter n
1D428 o MATHMATICAL BOLD SMALL O
≈ <font> 006F o latin small letter o
1D429 p MATHMATICAL BOLD SMALL P
≈ <font> 0070 p latin small letter p
1D42A q MATHMATICAL BOLD SMALL Q
≈ <font> 0071 q latin small letter q
1D42B r MATHMATICAL BOLD SMALL R
≈ <font> 0072 r latin small letter r
1D42C s MATHMATICAL BOLD SMALL S
≈ <font> 0073 s latin small letter s
1D42D t MATHMATICAL BOLD SMALL T
≈ <font> 0074 t latin small letter t
1D42E u MATHMATICAL BOLD SMALL U
≈ <font> 0075 u latin small letter u
1D42F v MATHMATICAL BOLD SMALL V
≈ <font> 0076 v latin small letter v
1D430 w MATHMATICAL BOLD SMALL W
≈ <font> 0077 w latin small letter w
1D431 x MATHMATICAL BOLD SMALL X
≈ <font> 0078 x latin small letter x
1D432 y MATHMATICAL BOLD SMALL Y
≈ <font> 0079 y latin small letter y
1D433 z MATHMATICAL BOLD SMALL Z
≈ <font> 007A z latin small letter z

**Italic symbols**

Italic symbols already encoded in the Letterlike Symbols block are omitted here to avoid duplicate encoding.

1D434 A MATHMATICAL ITALIC CAPITAL A
≈ <font> 0041 A latin capital letter a
1D435 B MATHMATICAL ITALIC CAPITAL B
≈ <font> 0042 B latin capital letter b
1D436 C MATHMATICAL ITALIC CAPITAL C
≈ <font> 0043 C latin capital letter c
1D437 D MATHMATICAL ITALIC CAPITAL D
≈ <font> 0044 D latin capital letter d
1D438 E MATHMATICAL ITALIC CAPITAL E
≈ <font> 0045 E latin capital letter e
1D439 F MATHMATICAL ITALIC CAPITAL F
≈ <font> 0046 F latin capital letter f

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\[ \text{Mathematical Alphanumeric Symbols} \]

1D458 \( 𝑘 \) MATHEMATICAL ITALIC SMALL K
≈ <font> 006B k latin small letter k

1D459 \( l \) MATHEMATICAL ITALIC SMALL L
≈ <font> 006C l latin small letter l

Bold italic symbols

1D468 \( A \) MATHEMATICAL BOLD ITALIC CAPITAL A
≈ <font> 0041 A latin capital letter a

1D470 \( I \) MATHEMATICAL BOLD ITALIC CAPITAL I
≈ <font> 0049 I latin capital letter i

1D471 \( J \) MATHEMATICAL BOLD ITALIC CAPITAL J
≈ <font> 004A J latin capital letter j

1D472 \( K \) MATHEMATICAL BOLD ITALIC CAPITAL K
≈ <font> 004B K latin capital letter k

1D473 \( L \) MATHEMATICAL BOLD ITALIC CAPITAL L
≈ <font> 004C L latin capital letter l

1D474 \( M \) MATHEMATICAL BOLD ITALIC CAPITAL M
≈ <font> 004D M latin capital letter m

1D475 \( N \) MATHEMATICAL BOLD ITALIC CAPITAL N
≈ <font> 004E N latin capital letter n

1D476 \( O \) MATHEMATICAL BOLD ITALIC CAPITAL O
≈ <font> 004F O latin capital letter o

1D478 \( P \) MATHEMATICAL BOLD ITALIC CAPITAL P
≈ <font> 0050 P latin capital letter p

1D479 \( Q \) MATHEMATICAL BOLD ITALIC CAPITAL Q
≈ <font> 0051 Q latin capital letter q

1D47E \( S \) MATHEMATICAL BOLD ITALIC CAPITAL S
≈ <font> 0053 S latin capital letter s

1D47F \( T \) MATHEMATICAL BOLD ITALIC CAPITAL T
≈ <font> 0054 T latin capital letter t

1D480 \( U \) MATHEMATICAL BOLD ITALIC CAPITAL U
≈ <font> 0055 U latin capital letter u

1D481 \( V \) MATHEMATICAL BOLD ITALIC CAPITAL V
≈ <font> 0056 V latin capital letter v

1D482 \( W \) MATHEMATICAL BOLD ITALIC CAPITAL W
≈ <font> 0057 W latin capital letter w

1D483 \( X \) MATHEMATICAL BOLD ITALIC CAPITAL X
≈ <font> 0058 X latin capital letter x

1D484 \( Y \) MATHEMATICAL BOLD ITALIC CAPITAL Y
≈ <font> 0059 Y latin capital letter y

1D485 \( Z \) MATHEMATICAL BOLD ITALIC CAPITAL Z
≈ <font> 005A Z latin capital letter z

1D486 \( a \) MATHEMATICAL BOLD ITALIC SMALL A
≈ <font> 0061 a latin small letter a

1D487 \( b \) MATHEMATICAL BOLD ITALIC SMALL B
≈ <font> 0062 b latin small letter b

1D488 \( c \) MATHEMATICAL BOLD ITALIC SMALL C
≈ <font> 0063 c latin small letter c

1D489 \( d \) MATHEMATICAL BOLD ITALIC SMALL D
≈ <font> 0064 d latin small letter d

1D48A \( e \) MATHEMATICAL BOLD ITALIC SMALL E
≈ <font> 0065 e latin small letter e

1D48B \( f \) MATHEMATICAL BOLD ITALIC SMALL F
≈ <font> 0066 f latin small letter f

1D48C \( g \) MATHEMATICAL BOLD ITALIC SMALL G
≈ <font> 0067 g latin small letter g

1D48D \( h \) MATHEMATICAL BOLD ITALIC SMALL H
≈ <font> 0048 H latin capital letter h

1D48E \( i \) MATHEMATICAL BOLD ITALIC SMALL I
≈ <font> 0069 i latin small letter i

1D48F \( j \) MATHEMATICAL BOLD ITALIC SMALL J
≈ <font> 006A j latin small letter j

1D490 \( k \) MATHEMATICAL BOLD ITALIC SMALL K
≈ <font> 006B k latin small letter k

1D491 \( l \) MATHEMATICAL BOLD ITALIC SMALL L
≈ <font> 006C l latin small letter l
Mathematical Alphanumeric Symbols

1D477 \( P \) MATHEMATICAL BOLD ITALIC CAPITAL P
≈ \(<font> 0050 \ P \) latin capital letter p
1D478 \( Q \) MATHEMATICAL BOLD ITALIC CAPITAL Q
≈ \(<font> 0051 \ Q \) latin capital letter q
1D479 \( R \) MATHEMATICAL BOLD ITALIC CAPITAL R
≈ \(<font> 0052 \ R \) latin capital letter r
1D47A \( S \) MATHEMATICAL BOLD ITALIC CAPITAL S
≈ \(<font> 0053 \ S \) latin capital letter s
1D47B \( T \) MATHEMATICAL BOLD ITALIC CAPITAL T
≈ \(<font> 0054 \ T \) latin capital letter t
1D47C \( U \) MATHEMATICAL BOLD ITALIC CAPITAL U
≈ \(<font> 0055 \ U \) latin capital letter u
1D47D \( V \) MATHEMATICAL BOLD ITALIC CAPITAL V
≈ \(<font> 0056 \ V \) latin capital letter v
1D47E \( W \) MATHEMATICAL BOLD ITALIC CAPITAL W
≈ \(<font> 0057 \ W \) latin capital letter w
1D47F \( X \) MATHEMATICAL BOLD ITALIC CAPITAL X
≈ \(<font> 0058 \ X \) latin capital letter x
1D480 \( Y \) MATHEMATICAL BOLD ITALIC CAPITAL Y
≈ \(<font> 0059 \ Y \) latin capital letter y
1D481 \( Z \) MATHEMATICAL BOLD ITALIC CAPITAL Z
≈ \(<font> 005A \ Z \) latin capital letter z
1D482 \( a \) MATHEMATICAL BOLD ITALIC SMALL A
≈ \(<font> 0061 \ a \) latin small letter a
1D483 \( b \) MATHEMATICAL BOLD ITALIC SMALL B
≈ \(<font> 0062 \ b \) latin small letter b
1D484 \( c \) MATHEMATICAL BOLD ITALIC SMALL C
≈ \(<font> 0063 \ c \) latin small letter c
1D485 \( d \) MATHEMATICAL BOLD ITALIC SMALL D
≈ \(<font> 0064 \ d \) latin small letter d
1D486 \( e \) MATHEMATICAL BOLD ITALIC SMALL E
≈ \(<font> 0065 \ e \) latin small letter e
1D487 \( f \) MATHEMATICAL BOLD ITALIC SMALL F
≈ \(<font> 0066 \ f \) latin small letter f
1D488 \( g \) MATHEMATICAL BOLD ITALIC SMALL G
≈ \(<font> 0067 \ g \) latin small letter g
1D489 \( h \) MATHEMATICAL BOLD ITALIC SMALL H
≈ \(<font> 0068 \ h \) latin small letter h
1D48A \( i \) MATHEMATICAL BOLD ITALIC SMALL I
≈ \(<font> 0069 \ i \) latin small letter i
1D48B \( j \) MATHEMATICAL BOLD ITALIC SMALL J
≈ \(<font> 006A \ j \) latin small letter j
1D48C \( k \) MATHEMATICAL BOLD ITALIC SMALL K
≈ \(<font> 006B \ k \) latin small letter k
1D48D \( l \) MATHEMATICAL BOLD ITALIC SMALL L
≈ \(<font> 006C \ l \) latin small letter l
1D48E \( m \) MATHEMATICAL BOLD ITALIC SMALL M
≈ \(<font> 006D \ m \) latin small letter m
1D48F \( n \) MATHEMATICAL BOLD ITALIC SMALL N
≈ \(<font> 006E \ n \) latin small letter n
1D490 \( o \) MATHEMATICAL BOLD ITALIC SMALL O
≈ \(<font> 006F \ o \) latin small letter o
1D491 \( p \) MATHEMATICAL BOLD ITALIC SMALL P
≈ \(<font> 0070 \ p \) latin small letter p
1D492 \( q \) MATHEMATICAL BOLD ITALIC SMALL Q
≈ \(<font> 0071 \ q \) latin small letter q
1D493 \( r \) MATHEMATICAL BOLD ITALIC SMALL R
≈ \(<font> 0072 \ r \) latin small letter r
1D494 \( s \) MATHEMATICAL BOLD ITALIC SMALL S
≈ \(<font> 0073 \ s \) latin small letter s
1D495 \( t \) MATHEMATICAL BOLD ITALIC SMALL T
≈ \(<font> 0074 \ t \) latin small letter t
1D496 \( u \) MATHEMATICAL BOLD ITALIC SMALL U
≈ \(<font> 0075 \ u \) latin small letter u
1D497 \( v \) MATHEMATICAL BOLD ITALIC SMALL V
≈ \(<font> 0076 \ v \) latin small letter v
1D498 \( w \) MATHEMATICAL BOLD ITALIC SMALL W
≈ \(<font> 0077 \ w \) latin small letter w
1D499 \( x \) MATHEMATICAL BOLD ITALIC SMALL X
≈ \(<font> 0078 \ x \) latin small letter x
1D49A \( y \) MATHEMATICAL BOLD ITALIC SMALL Y
≈ \(<font> 0079 \ y \) latin small letter y
1D49B \( z \) MATHEMATICAL BOLD ITALIC SMALL Z
≈ \(<font> 007A \ z \) latin small letter z

Script symbols

Script symbols already encoded in the Letterlike Symbols block are omitted here to avoid duplicate encoding. Fonts that use a less elaborate style are also acceptable for many uses, as long as they can be distinguished from serifed and italic styles.

1D49C \( \mathcal{A} \) MATHEMATICAL SCRIPT CAPITAL A
≈ \( 1D49C \ FE00 \ \mathcal{A} \) chancery style
≈ \( 1D49C \ FE01 \ \mathcal{A} \) roundhand style
≈ \(<font> 0041 \ A \) latin capital letter a
1D49D \(<reserved> \)
→ 212C \( \mathfrak{A} \) script capital b
1D49E \( \mathfrak{C} \) MATHEMATICAL SCRIPT CAPITAL C
≈ \( 1D49E \ FE00 \ \mathfrak{C} \) chancery style
≈ \( 1D49E \ FE01 \ \mathfrak{C} \) roundhand style
≈ \(<font> 0043 \ C \) latin capital letter c
1D49F \( \mathfrak{D} \) MATHEMATICAL SCRIPT CAPITAL D
≈ \( 1D49F \ FE00 \ \mathfrak{D} \) chancery style
≈ \( 1D49F \ FE01 \ \mathfrak{D} \) roundhand style
≈ \(<font> 0044 \ D \) latin capital letter d
1D4A0 \(<reserved> \)
→ 2130 \( \mathfrak{E} \) script capital e
1D4A1 \(<reserved> \)
→ 2131 \( \mathfrak{F} \) script capital f
1D4A2 \( \mathfrak{G} \) MATHEMATICAL SCRIPT CAPITAL G
≈ \( 1D4A2 \ FE00 \ \mathfrak{G} \) chancery style
≈ \( 1D4A2 \ FE01 \ \mathfrak{G} \) roundhand style
≈ \(<font> 0047 \ G \) latin capital letter g
1D4A3 \(<reserved> \)
→ 2108 \( \mathfrak{H} \) script capital h
1D4A4 \(<reserved> \)
→ 2110 \( \mathfrak{I} \) script capital i
1D4A5 \( \mathfrak{J} \) MATHEMATICAL SCRIPT CAPITAL J
≈ \( 1D4A5 \ FE00 \ \mathfrak{J} \) chancery style
≈ \( 1D4A5 \ FE01 \ \mathfrak{J} \) roundhand style
≈ \(<font> 0044 \ J \) latin capital letter j
1D4A6 \( \mathfrak{K} \) MATHEMATICAL SCRIPT CAPITAL K
≈ \( 1D4A6 \ FE00 \ \mathfrak{K} \) chancery style
≈ \( 1D4A6 \ FE01 \ \mathfrak{K} \) roundhand style
≈ \(<font> 0048 \ K \) latin capital letter k
1D4A7 \(<reserved> \)
→ 2112 \( \mathfrak{L} \) script capital l
1D4A8 \(<reserved> \)
→ 2133 \( \mathfrak{M} \) script capital m
1D4A9 \( \mathfrak{N} \) MATHEMATICAL SCRIPT CAPITAL N
≈ \( 1D4A9 \ FE00 \ \mathfrak{N} \) chancery style
≈ \( 1D4A9 \ FE01 \ \mathfrak{N} \) roundhand style
≈ \(<font> 004E \ N \) latin capital letter n

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<table>
<thead>
<tr>
<th>Code</th>
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**Bold script symbols**

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**Fraktur symbols**

This style is sometimes known as black-letter. Black-letter symbols already encoded in the Letterlike Symbols block are omitted here to avoid duplicate encoding.

1D504  | α     | MATHEMATICAL FRAKTUR CAPITAL A |
1D505  | β     | MATHEMATICAL FRAKTUR CAPITAL B |
1D506  | γ     | MATHEMATICAL FRAKTUR CAPITAL C |
1D507  | δ     | MATHEMATICAL FRAKTUR CAPITAL D |
1D508  | ε     | MATHEMATICAL FRAKTUR CAPITAL E |
1D509  | ζ     | MATHEMATICAL FRAKTUR CAPITAL F |
1D50A  | η     | MATHEMATICAL FRAKTUR CAPITAL G |
1D50B  | θ     | MATHEMATICAL FRAKTUR CAPITAL H |
1D50C  | ι     | MATHEMATICAL FRAKTUR CAPITAL I |
1D50D  | κ     | MATHEMATICAL FRAKTUR CAPITAL J |
1D50E  | λ     | MATHEMATICAL FRAKTUR CAPITAL K |
1D50F  | μ     | MATHEMATICAL FRAKTUR CAPITAL L |
1D510  | ν     | MATHEMATICAL FRAKTUR CAPITAL M |
1D511  | ξ     | MATHEMATICAL FRAKTUR CAPITAL N |
1D512  | ο     | MATHEMATICAL FRAKTUR CAPITAL O |
1D513  | η     | MATHEMATICAL FRAKTUR CAPITAL P |
1D514  | ρ     | MATHEMATICAL FRAKTUR CAPITAL Q |
1D515  | σ     | MATHEMATICAL FRAKTUR CAPITAL R |
1D516  | τ     | MATHEMATICAL FRAKTUR CAPITAL S |

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<table>
<thead>
<tr>
<th>Unicode</th>
<th>Name</th>
<th>Value</th>
<th>Description</th>
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<td>1D517</td>
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</table>

**Double-struck symbols**

This style is sometimes known as open-face or blackboard-bold. Double-struck symbols already encoded in the Letterlike Symbols block are omitted here to avoid duplicate encoding. Considerable variation in font style is acceptable, as long as the glyphs retain the visual element of doubled strokes.

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<th>Description</th>
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<td>a glyph variant with doubled stroke on the left exists</td>
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<td>Mathematical Double-Struck Capital C</td>
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Sans-serif bold italic symbols

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### Dotless symbols

For use as independent symbols. These are not required as base characters for accents since regular i and j are soft-dotted in Unicode.

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<tr>
<th>Code</th>
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### Bold Greek symbols

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### Additional bold Greek symbols

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1D6DD  θ  MATHEMATICAL BOLD THETA SYMBOL
≈ <font> 03D1 θ greek theta symbol
1D6E E  ×  MATHEMATICAL BOLD KAPPA SYMBOL
≈ <font> 03F0 x greek kappa symbol
1D6F  ϕ  MATHEMATICAL BOLD PHI SYMBOL
≈ <font> 03D5 ϕ greek phi symbol
1D6E 0  ρ  MATHEMATICAL BOLD RHO SYMBOL
≈ <font> 03F1 ρ greek rho symbol
1D6E 1  ϑ  MATHEMATICAL BOLD PI SYMBOL
≈ <font> 03D6 ϑ greek pi symbol

Italic Greek symbols
1D6E 2  A  MATHEMATICAL ITALIC CAPITAL ALPHA
≈ <font> 0391 A greek capital letter alpha
1D6E 3  B  MATHEMATICAL ITALIC CAPITAL BETA
≈ <font> 0392 B greek capital letter beta
1D6E 4  Γ  MATHEMATICAL ITALIC CAPITAL GAMMA
≈ <font> 0393 Γ greek capital letter gamma
1D6E 5  Δ  MATHEMATICAL ITALIC CAPITAL DELTA
≈ <font> 0394 Δ greek capital letter delta
1D6E 6  E  MATHEMATICAL ITALIC CAPITAL EPSILON
≈ <font> 0395 E greek capital letter epsilon
1D6E 7  Ζ  MATHEMATICAL ITALIC CAPITAL ZETA
≈ <font> 0396 Ζ greek capital letter zeta
1D6E 8  Η  MATHEMATICAL ITALIC CAPITAL ETA
≈ <font> 0397 Η greek capital letter eta
1D6E 9  Θ  MATHEMATICAL ITALIC CAPITAL THETA
≈ <font> 0398 Θ greek capital letter theta
1D6E A  Ι  MATHEMATICAL ITALIC CAPITAL IOTA
≈ <font> 0399 Ι greek capital letter iota
1D6E B  Κ  MATHEMATICAL ITALIC CAPITAL KAPPA
≈ <font> 039A Κ greek capital letter kappa
1D6E C  Λ  MATHEMATICAL ITALIC CAPITAL LAMDA
≈ <font> 039B Λ greek capital letter lambda
1D6E D  Μ  MATHEMATICAL ITALIC CAPITAL MU
≈ <font> 039C Μ greek capital letter mu
1D6E E  Ν  MATHEMATICAL ITALIC CAPITAL NU
≈ <font> 039D Ν greek capital letter nu
1D6E F  Ξ  MATHEMATICAL ITALIC CAPITAL XI
≈ <font> 039E Ξ greek capital letter xi
1D6F 0  Ο  MATHEMATICAL ITALIC CAPITALomicron
≈ <font> 039F Ο greek capital letter omicron
1D6F 1  Π  MATHEMATICAL ITALIC CAPITAL PI
≈ <font> 03A0 Π greek capital letter pi
1D6F 2  Ρ  MATHEMATICAL ITALIC CAPITAL RHO
≈ <font> 03A1 Ρ greek capital letter rho
1D6F 3  Ξ  MATHEMATICAL ITALIC CAPITAL THETA SYMBOL
≈ <font> 03F4 Ξ greek capital theta symbol
1D6F 4  Σ  MATHEMATICAL ITALIC CAPITAL SIGMA
≈ <font> 03A3 Σ greek capital letter sigma
1D6F 5  Τ  MATHEMATICAL ITALIC CAPITAL TAU
≈ <font> 03A4 Τ greek capital letter tau
1D6F 6  Υ  MATHEMATICAL ITALIC CAPITAL UPSILON
≈ <font> 03A5 Υ greek capital letter upsilon
1D6F 7  Φ  MATHEMATICAL ITALIC CAPITAL PHI
≈ <font> 03A6 Φ greek capital letter phi
1D6F 8  Χ  MATHEMATICAL ITALIC CAPITAL CHI
≈ <font> 03A7 Χ greek capital letter chi
1D6F 9  Ψ  MATHEMATICAL ITALIC CAPITAL PSI
≈ <font> 03A8 Ψ greek capital letter psi
1D6FA  Ω  MATHEMATICAL ITALIC CAPITAL OMEGA
≈ <font> 03A9 Ω greek capital letter omega
1D6FB  ð  MATHEMATICAL ITALIC NABLA
≈ <font> 2207 ð nabla
1D6F C  α  MATHEMATICAL ITALIC SMALL ALPHA
≈ <font> 03B1 α greek small letter alpha
1D6FD  β  MATHEMATICAL ITALIC SMALL BETA
≈ <font> 03B2 β greek small letter beta
1D6FE  γ  MATHEMATICAL ITALIC SMALL GAMMA
≈ <font> 03B3 γ greek small letter gamma
1D6FF  δ  MATHEMATICAL ITALIC SMALL DELTA
≈ <font> 03B4 δ greek small letter delta
1D700  ε  MATHEMATICAL ITALIC SMALL EPSILON
≈ <font> 03B5 ε greek small letter epsilon
1D701  ζ  MATHEMATICAL ITALIC SMALL ZETA
≈ <font> 03B6 ζ greek small letter zeta
1D702  η  MATHEMATICAL ITALIC SMALL ETA
≈ <font> 03B7 η greek small letter eta
1D703  θ  MATHEMATICAL ITALIC SMALL THETA
≈ <font> 03B8 θ greek small letter theta
1D704  ι  MATHEMATICAL ITALIC SMALL IOTA
≈ <font> 03B9 ι greek small letter iota
1D705  κ  MATHEMATICAL ITALIC SMALL KAPPA
≈ <font> 03BA κ greek small letter kappa
1D706  λ  MATHEMATICAL ITALIC SMALL LAMDA
≈ <font> 03BB λ greek small letter lambda
1D707  μ  MATHEMATICAL ITALIC SMALL MU
≈ <font> 03BC μ greek small letter mu
1D708  ν  MATHEMATICAL ITALIC SMALL NU
≈ <font> 03BD ν greek small letter nu
1D709  ξ  MATHEMATICAL ITALIC SMALL XI
≈ <font> 03BE ξ greek small letter xi
1D70A  ο  MATHEMATICAL ITALIC SMALL OMICRON
≈ <font> 03BF ο greek small letter omicron
1D70B  π  MATHEMATICAL ITALIC SMALL PI
≈ <font> 03C0 π greek small letter pi
1D70C  ρ  MATHEMATICAL ITALIC SMALL RHO
≈ <font> 03C1 ρ greek small letter rho
1D70D  ζ  MATHEMATICAL ITALIC SMALL FINAL SIGMA
≈ <font> 03C2 ζ greek small letter final sigma
1D70E  σ  MATHEMATICAL ITALIC SMALL SIGMA
≈ <font> 03C3 σ greek small letter sigma
1D70F  τ  MATHEMATICAL ITALIC SMALL TAU
≈ <font> 03C4 τ greek small letter tau
1D710  υ  MATHEMATICAL ITALIC SMALL UPSILON
≈ <font> 03C5 υ greek small letter upsilon
1D711  ϕ  MATHEMATICAL ITALIC SMALL PHI
≈ <font> 03C6 ϕ greek small letter phi
1D712  χ  MATHEMATICAL ITALIC SMALL CHI
≈ <font> 03C7 χ greek small letter chi
1D713  ψ  MATHEMATICAL ITALIC SMALL PSI
≈ <font> 03C8 ψ greek small letter psi
1D714  ω  MATHEMATICAL ITALIC SMALL OMEGA
≈ <font> 03C9 ω greek small letter omega

Additional italic Greek symbols
1D715  δ  MATHEMATICAL ITALIC PARTIAL differential
≈ <font> 2202 δ partial differential
1D716  ε  MATHEMATICAL ITALIC EPSILON SYMBOL
≈ <font> 03F5 ε greek lunate epsilon symbol
1D717  ϑ  MATHEMATICAL ITALIC THETA SYMBOL
≈ <font> 03D1 ϑ greek theta symbol
1D718  ϑ  MATHEMATICAL ITALIC KAPPA SYMBOL
≈ <font> 03F0 ϑ greek kappa symbol

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Sans-serif bold Greek symbols

1D756 ₐ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
ALPHA ≈ <font> 0391 ₐ greek capital letter alpha
1D757 ₑ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
BÉTA ≈ <font> 0392 ₑ greek capital letter beta
1D758 ₒ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
GAMMA ≈ <font> 0393 ₒ greek capital letter gamma
1D759 ₓ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
DELTA ≈ <font> 0394 ₓ greek capital letter delta
1D75A ₔ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
ÉPSILON ≈ <font> 0395 ₔ greek capital letter epsilon
1D75B ₕ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
ZÉTA ≈ <font> 0396 ₕ greek capital letter zeta
1D75C ₖ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
ÉTA ≈ <font> 0397 ₖ greek capital letter eta
1D75D ₗ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
THÉTA ≈ <font> 0398 ₗ greek capital letter theta
1D75E ₘ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
IÔTA ≈ <font> 0399 ₘ greek capital letter iota
1D75F ₙ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
KAPPA ≈ <font> 039A ₙ greek capital letter kappa
1D760 ₚ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
LAMDA ≈ <font> 039B ₚ greek capital letter lambda
1D761 ₛ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
MU ≈ <font> 039C ₛ greek capital letter mu
1D762 ₒ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
NU ≈ <font> 039D ₒ greek capital letter nu
1D763 ₓ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
OMICRON ≈ <font> 039E ₓ greek capital letter xi
1D764 ₔ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
OMICRON ≈ <font> 039F ₔ greek capital letter omicron
1D765 ₕ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
Π ≈ <font> 03A0 ₕ greek capital letter pi
1D766 ₖ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
RHO ≈ <font> 03A1 ₖ greek capital letter rho
1D767 ₗ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
THÉTA SYMBOL ≈ <font> 03F4 ₗ greek capital theta symbol
1D768 ₘ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
SIGMA ≈ <font> 03A3 ₘ greek capital letter sigma
1D769 ₙ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
TAU ≈ <font> 03A4 ₙ greek capital letter tau
1D76A ₚ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
UPSIŁON ≈ <font> 03A5 ₚ greek capital letter upsilon
1D76B ₛ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
PHI ≈ <font> 03A6 ₛ greek capital letter phi
1D76C ₜ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
CHI ≈ <font> 03A7 ₜ greek capital letter chi
1D76D ₝ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
PSI ≈ <font> 03A8 ₝ greek capital letter psi
1D76E ₞ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
OMICRON ≈ <font> 03A9 ₞ greek capital letter omega
1D76F ₟ MATHÉMATIQUE SANS-SERIF BOLD CAPITAL
NABLA ≈ <font> 2207 ₟ nabla
1D770 ₠ MATHÉMATIQUE SANS-SERIF BOLD SMALL
ALPHA ≈ <font> 03B1 ₠ greek small letter alpha
1D771 ₡ MATHÉMATIQUE SANS-SERIF BOLD SMALL
BÉTA ≈ <font> 03B2 ₡ greek small letter beta
1D772 ₢ MATHÉMATIQUE SANS-SERIF BOLD SMALL
GAMMA ≈ <font> 03B3 ₢ greek small letter gamma
1D773 ₣ MATHÉMATIQUE SANS-SERIF BOLD SMALL
DELTA ≈ <font> 03B4 ₣ greek small letter delta
1D774 ₤ MATHÉMATIQUE SANS-SERIF BOLD SMALL
ÉPSILON ≈ <font> 03B5 ₤ greek small letter epsilon
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1D779 ₩ MATHÉMATIQUE SANS-SERIF BOLD SMALL
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1D77A ₪ MATHÉMATIQUE SANS-SERIF BOLD SMALL
LAMDA ≈ <font> 03BB ₪ greek small letter lambda
1D77B ₫ MATHÉMATIQUE SANS-SERIF BOLD SMALL
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1D77C € MATHÉMATIQUE SANS-SERIF BOLD SMALL
NU ≈ <font> 03BD € greek small letter nu
1D77D ₭ MATHÉMATIQUE SANS-SERIF BOLD SMALL
OMICRON ≈ <font> 03BE ₭ greek small letter omicron
1D77E ₮ MATHÉMATIQUE SANS-SERIF BOLD SMALL
OMICRON ≈ <font> 03BF ₮ greek small letter omicron
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**Additional sans-serif bold italic Greek symbols**

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1D7DA 2 MATHEMATICAL DOUBLE-STRUCK DIGIT TWO
≈ <font> 0032 2 digit two
1D7DB 3 MATHEMATICAL DOUBLE-STRUCK DIGIT THREE
≈ <font> 0033 3 digit three
1D7DC 4 MATHEMATICAL DOUBLE-STRUCK DIGIT FOUR
≈ <font> 0034 4 digit four
1D7DD 5 MATHEMATICAL DOUBLE-STRUCK DIGIT FIVE
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1D7DE 6 MATHEMATICAL DOUBLE-STRUCK DIGIT SIX
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1D7DF 7 MATHEMATICAL DOUBLE-STRUCK DIGIT SEVEN
≈ <font> 0037 7 digit seven
1D7E0 8 MATHEMATICAL DOUBLE-STRUCK DIGIT EIGHT
≈ <font> 0038 8 digit eight
1D7E1 9 MATHEMATICAL DOUBLE-STRUCK DIGIT NINE
≈ <font> 0039 9 digit nine

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1D7E6 4 MATHEMATICAL SANS-SERIF DIGIT FOUR
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1D7E7 5 MATHEMATICAL SANS-SERIF DIGIT FIVE
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1D7E8 6 MATHEMATICAL SANS-SERIF DIGIT SIX
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1D7E9 7 MATHEMATICAL SANS-SERIF DIGIT SEVEN
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1D7EA 8 MATHEMATICAL SANS-SERIF DIGIT EIGHT
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1D7EB 9 MATHEMATICAL SANS-SERIF DIGIT NINE
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Sans-serif bold digits
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1D7F4 8 MATHEMATICAL SANS-SERIF BOLD DIGIT EIGHT
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1D7F5 9 MATHEMATICAL SANS-SERIF BOLD DIGIT NINE
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Monospace digits
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1D7F8 2 MATHEMATICAL MONOSPACED DIGIT TWO
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1D7F9 3 MATHEMATICAL MONOSPACED DIGIT THREE
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1D7FA 4 MATHEMATICAL MONOSPACED DIGIT FOUR
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1D7FB 5 MATHEMATICAL MONOSPACED DIGIT FIVE
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1D7FC 6 MATHEMATICAL MONOSPACED DIGIT SIX
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1D7FD 7 MATHEMATICAL MONOSPACED DIGIT SEVEN
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1D7FE 8 MATHEMATICAL MONOSPACED DIGIT EIGHT
≈ <font> 0038 8 digit eight
1D7FF 9 MATHEMATICAL MONOSPACED DIGIT NINE
≈ <font> 0039 9 digit nine

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## Standardized Variation Sequences

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