Miscellaneous Technical
Range: 2300–23FF

This file contains an excerpt from the character code tables and list of character names for
The Unicode Standard, Version 15.0

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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-15.0/ for charts showing only the characters added in Unicode 15.0.
See https://www.unicode.org/Public/15.0.0/charts/ for a complete archived file of character code charts for Unicode 15.0.
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 15.0 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 15.0, online at https://www.unicode.org/versions/Unicode15.0.0/, as well as Unicode Standard Annexes
#9, #11, #14, #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 https://www.unicode.org/reports/
A thorough understanding of the information contained in these additional sources is required for a successful
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Copying characters from the character code tables or list of character names is not recommended, because for
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See https://www.unicode.org/pending/pending.html and https://www.unicode.org/alloc/Pipeline.html.

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miscellaneous technical

2300 ⌀ DIAMETER SIGN
→ 00F8 ⌀ latin small letter o with stroke
→ 2205 ⌀ empty set

2301 ⋙ ELECTRIC ARROW
• from ISO 2047
• symbol for End of Transmission

2302 ⌐ HOUSE

2303 ▲ UP ARROWHEAD
→ 005E ▲ circumflex accent
→ 02C4 ▲ modifier letter up arrowhead
→ 2038 ▲ caret
→ 2227 ▲ logical and

2304 ▼ DOWN ARROWHEAD
→ 02C5 ▼ logical or
→ 2335 ▼ countersink

2305 ⌐ PROJECTIVE
→ 22BC ⌐ nand

2306 ▱ PERSPECTIVE

2307 ⌉ WAVY LINE
→ 2E3E ⌉ wiggly vertical line
→ 3030 ⌉ wavy dash

ceilings and floors

These characters are tall and narrow mathematical delimiters, in contrast to the quine corners or half brackets. They are also distinct from CJK corner brackets, which are wide quotation marks.

2308 ⌈ LEFT CEILING
= APL upstile
→ 2E22 ⌈ top left half bracket
→ 300C ⌈ left corner bracket

2309 ⌉ RIGHT CEILING
→ 20E7 ⌉ combining annuity symbol
→ 2E23 ⌉ top right half bracket

230A ⌊ LEFT FLOOR
= APL downstile
→ 2E24 ⌊ bottom left half bracket

230B ⌋ RIGHT FLOOR
→ 300D ⌋ right corner bracket
→ 2E25 ⌋ bottom right half bracket

Crops

230C ⌉ BOTTOM RIGHT CROP
• set of four “crop” corners, arranged facing outward

230D ⌌ BOTTOM LEFT CROP

230E ⌍ TOP RIGHT CROP

230F ⌌ TOP LEFT CROP

miscellaneous technical

2310 ⌙ REVERSED NOT SIGN
= beginning of line
→ 00AC ⌙ not sign

2311 ⌐ SQUARE LOZENGE
= Kissen (pillow)
• used as a command delimiter in some very old computers
→ 2BCF ⌐ rotated white four pointed cusp

2312 ⌚ ARC
= position of any line
→ 25E0 ⌚ upper half circle

2313 ⌑ SEGMENT
= position of a surface

2314 ⌘ SECTOR

2315 ⌜ TELEPHONE RECORDER

2316 ⌝ POSITION INDICATOR
= true position
→ 2BDD ⌝ square position indicator

2317 ⌞ VIEWDATA SQUARE
→ 22DS ⌞ equal and parallel to

2318 ⌈ PLACE OF INTEREST SIGN
= command key (1.0)
= operating system key (ISO 9995-7)

2319 ⌷ TURNED NOT SIGN
= line marker

user interface symbols

231A ⌠ WATCH
→ 23F0 ⌠ alarm clock
→ 1F550 ⌠ clock face one o'clock

231B ⌡ HOURGLASS
= alchemical symbol for hour

Quine corners

These form a set of four quine corners, for quincuncial arrangement. They are also used in upper and lower pairs in mathematics, or more rarely in editorial usage as alternatives to half brackets.

231C ⌟ TOP LEFT CORNER
→ 2E00 ⌟ right angle substitution marker
→ 2E22 ⌟ top left half bracket

231D ⌠ TOP RIGHT CORNER

231E ⌋ BOTTOM LEFT CORNER

231F ⌌ BOTTOM RIGHT CORNER

Integral pieces

2320 ⌟ TOP LEFT CORNER
→ 23AE ⌟ integral extension

2321 ⌌ BOTTOM HALF INTEGRAL

Frown and smile

2322 ⌠ FROWN
→ 2040 ⌠ character tie

2323 ⌨ SMILE
→ 203F ⌨ undertie

Keyboard symbols

2324 ⌡ UP ARROWHEAD BETWEEN TWO HORIZONTAL BARS
= enter key

2325 ⌡ OPTION KEY

2326 ⌡ ERASE TO THE RIGHT
= delete to the right key

2327 ⌡ X IN A RECTANGLE BOX
= clear key
→ 2612 ⌡ ballot box with x

2328 ⌡ KEYBOARD
→ 1F5A6 ⌡ keyboard and mouse
→ 1F5AE ⌡ wired keyboard
Deprecated angle brackets
These characters are deprecated and are strongly discouraged for mathematical use because of their canonical equivalence to CJK punctuation.

2366 Miscellaneous Technical

[2366]

Miscellaneous Technical

Deprecated angle brackets
These characters are deprecated and are strongly discouraged for mathematical use because of their canonical equivalence to CJK punctuation.

2329 〈 LEFT-POINTING ANGLE BRACKET
→ 003C < less-than sign
→ 2039 〈 single left-pointing angle quotation mark
→ 27E8 ( mathematical left angle bracket
⇒ 3008 ⤽ left angle bracket

232A 〉 RIGHT-POINTING ANGLE BRACKET
→ 003E > greater-than sign
→ 203A 〉 single right-pointing angle quotation mark
→ 27E9 ) mathematical right angle bracket
⇒ 3009 ⤾ right angle bracket

Keyboard symbol
232B ⠎ ERASE TO THE LEFT
= delete to the left key

Chemistry symbol
232C ⠵ BENZENE RING

Drafting symbols
232D ⠋ CYLINDRICITY
232E ⠑ ALL AROUND-PROFILE
232F ⠏ SYMMETRY
2330 ⠘ TOTAL RUNOUT
2331 ⠑ DIMENSION ORIGIN
2332 ⠑ CONICAL TAPER
2333 ⠘ SLOPE
→ 25FA ⠤ lower left triangle
2334 ⠙ COUNTERBORE
→ 2423 ⠧ open box
2335 ⠯ COUNTERSINK
→ 2304 ⠬ down arrowhead

APL
2336 ⠾ APL FUNCTIONAL SYMBOL I-BEAM
2337 ⠿ APL FUNCTIONAL SYMBOL SQUISH QUAD
→ 2395 ⠾ apl functional symbol quad
→ 25AF ⠪ white vertical rectangle
→ 2AFF ⠣ n-ary white vertical bar
2338 ⠍ APL FUNCTIONAL SYMBOL QUAD EQUAL
2339 ⠎ APL FUNCTIONAL SYMBOL QUAD DIVIDE
233A ⠏ APL FUNCTIONAL SYMBOL QUAD DIAMOND
→ 26CB ⠭ white diamond in square
233B ⠍ APL FUNCTIONAL SYMBOL QUAD JOT
→ 29C7 ⠰ squared small circle
233C ⠏ APL FUNCTIONAL SYMBOL QUAD CIRCLE
233D ⠎ APL FUNCTIONAL SYMBOL CIRCLE STILE
233E ⠏ APL FUNCTIONAL SYMBOL CIRCLE JOT
→ 229A ⠨ circled ring operator
→ 29BE ⠯ circled white bullet
233F ⠏ APL FUNCTIONAL SYMBOL SLASH BAR
→ 1019 # roman as sign
2340 ⠑ APL FUNCTIONAL SYMBOL BACKSLASH BAR
→ 29F7 \ reverse solidus with horizontal stroke
2341 ⠑ APL FUNCTIONAL SYMBOL QUAD SLASH
→ 29C4 ⠣ squared rising diagonal slash
2342 ⠑ APL FUNCTIONAL SYMBOL QUAD BACKSLASH
→ 29C5 ⠣ squared falling diagonal slash
2343 ⠔ APL FUNCTIONAL SYMBOL QUAD LESS-THAN

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**Graphics for control codes**
- from ISO 9047
- symbol for Negative Acknowledge

**Miscellaneous technical**
- RIGHT ANGLE WITH DOWNWARDS ZIGZAG ARROW
- BELL SYMBOL
- VERTICAL LINE WITH MIDDLE DOT
- End of Medium

**Keyboard symbols from ISO 9995-7**
- INSERTION SYMBOL
- CONTINUOUS UNDERLINE SYMBOL
- DISCONTINUOUS UNDERLINE SYMBOL
- EMPHASIS SYMBOL
- COMPOSITION SYMBOL
- WHITE SQUARE WITH CENTRE VERTICAL LINE
- ENTER SYMBOL
- ALTERNATIVE KEY SYMBOL
- HELM SYMBOL
- CIRCLED HORIZONTAL BAR WITH NOTCH
- CIRCLED TRIANGLE DOWN

**Special character extensions**
- INTEGRAL EXTENSION
- HORIZONTAL LINE EXTENSION

**Bracket pieces**
- LEFT PARENTHESES LOWER HOOK
- RIGHT PARENTHESES LOWER HOOK
- LEFT CURLY BRACKET LOWER CORNER
- RIGHT CURLY BRACKET LOWER CORNER
- LEFT SQUARE BRACKET LOWER CORNER
- RIGHT SQUARE BRACKET LOWER CORNER
- LEFT PARENTHESES HOOK
- RIGHT PARENTHESES HOOK
- LEFT SQUARE BRACKET HOOK
- RIGHT SQUARE BRACKET HOOK
- LEFT PARENTHESES EXTENSION
- RIGHT PARENTHESES EXTENSION
- LEFT SQUARE BRACKET EXTENSION
- RIGHT SQUARE BRACKET EXTENSION
- LEFT CURLY BRACKET HOOK
- RIGHT CURLY BRACKET HOOK
- LEFT CURLY BRACKET MIDDLE PIECE
- RIGHT CURLY BRACKET MIDDLE PIECE
- LEFT CURLY BRACKET LOWER HOOK
- RIGHT CURLY BRACKET LOWER HOOK

**Electrotechnical symbols from IR 181**
- PASSIVE-PULL-UP-OUTPUT SYMBOL
- PASSIVE-PULL-DOWN-OUTPUT SYMBOL
- OPEN-CIRCUIT-OUTPUT H-TYPE SYMBOL
- OPEN-CIRCUIT-OUTPUT L-TYPE SYMBOL
- DIRECT CURRENT SYMBOL FORM TWO

**APL**
- APL FUNCTIONAL SYMBOL QUAD
- APL FUNCTIONAL SYMBOL ALPHA

**Keyboard symbols from ISO 2047**
- Next page
- Previous page
- PRINT SCREEN SYMBOL
- CLEAR SCREEN SYMBOL
- Terminal escape

**Bracket pieces**
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- RIGHT PARENTHESES HOOK
- LEFT SQUARE BRACKET HOOK
- RIGHT SQUARE BRACKET HOOK
- LEFT PARENTHESES EXTENSION
- RIGHT PARENTHESES EXTENSION
- LEFT SQUARE BRACKET EXTENSION
- RIGHT SQUARE BRACKET EXTENSION
- LEFT CURLY BRACKET HOOK
- RIGHT CURLY BRACKET HOOK
- LEFT CURLY BRACKET MIDDLE PIECE
- RIGHT CURLY BRACKET MIDDLE PIECE
- LEFT CURLY BRACKET LOWER HOOK
- RIGHT CURLY BRACKET LOWER HOOK

**Special character extensions**
- INTEGRAL EXTENSION
- HORIZONTAL LINE EXTENSION

**Bracket pieces**
- LEFT PARENTHESES LOWER HOOK
- RIGHT PARENTHESES LOWER HOOK
- LEFT SQUARE BRACKET LOWER CORNER
- RIGHT SQUARE BRACKET LOWER CORNER
- LEFT PARENTHESES EXTENSION
- RIGHT PARENTHESES EXTENSION
- LEFT SQUARE BRACKET EXTENSION
- RIGHT SQUARE BRACKET EXTENSION
- LEFT CURLY BRACKET HOOK
- RIGHT CURLY BRACKET HOOK
- LEFT CURLY BRACKET MIDDLE PIECE
- RIGHT CURLY BRACKET MIDDLE PIECE
- LEFT CURLY BRACKET LOWER HOOK
- RIGHT CURLY BRACKET LOWER HOOK

**Special character extensions**
- INTEGRAL EXTENSION
- HORIZONTAL LINE EXTENSION

**Bracket pieces**
- LEFT PARENTHESES LOWER HOOK
- RIGHT PARENTHESES LOWER HOOK
- LEFT SQUARE BRACKET LOWER CORNER
- RIGHT SQUARE BRACKET LOWER CORNER
- LEFT PARENTHESES EXTENSION
- RIGHT PARENTHESES EXTENSION
- LEFT SQUARE BRACKET EXTENSION
- RIGHT SQUARE BRACKET EXTENSION
- LEFT CURLY BRACKET HOOK
- RIGHT CURLY BRACKET HOOK
- LEFT CURLY BRACKET MIDDLE PIECE
- RIGHT CURLY BRACKET MIDDLE PIECE
- LEFT CURLY BRACKET LOWER HOOK
- RIGHT CURLY BRACKET LOWER HOOK

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Summation sign parts
23B2 \[ \sum \text{SUMMATION TOP} \]
23B3 \[ \sum \text{SUMMATION BOTTOM} \]
\[ \rightarrow 2211 \sum n\text{-ary summation} \]

Horizontal brackets
These characters are also used as delimiters of vertical text in non-CJK terminal emulation.
23B4 \( \top \text{TOP SQUARE BRACKET} \)
\[ \rightarrow \text{FE47} \text{presentation form for vertical left square bracket} \]
23B5 \( \bot \text{BOTTOM SQUARE BRACKET} \)
\[ \rightarrow \text{FE48} \text{presentation form for vertical right square bracket} \]
23B6 \( \sqcup \text{BOTTOM SQUARE BRACKET OVER TOP SQUARE BRACKET} \)
\[ \text{only used for terminal emulation} \]

Terminal graphic characters
23B7 \( \text{RADICAL SYMBOL BOTTOM} \)
23B8 \( \text{LEFT VERTICAL BOX LINE} \)
23B9 \( \text{RIGHT VERTICAL BOX LINE} \)

Scan lines for terminal graphics
The scan line numbers here refer to old, low-resolution technology for terminals, with only 9 scan lines per fixed-size character glyph.
23BA \( \text{HORIZONTAL SCAN LINE-1} \)
23BB \( \text{HORIZONTAL SCAN LINE-3} \)
\[ \text{scan line-5 is unified with the box-drawing graphic character 2500 —} \]
23BC \( \text{HORIZONTAL SCAN LINE-7} \)
23BD \( \text{HORIZONTAL SCAN LINE-9} \)

Dentistry notation symbols
23BE \( \text{DENTISTRY SYMBOL LIGHT VERTICAL AND TOP RIGHT} \)
\[ \rightarrow 2308 \text{ left ceiling} \]
23BF \( \text{DENTISTRY SYMBOL LIGHT VERTICAL AND BOTTOM RIGHT} \)
\[ \rightarrow 230A \text{ left floor} \]
23C0 \( \text{DENTISTRY SYMBOL LIGHT VERTICAL WITH CIRCLE} \)
23C1 \( \text{DENTISTRY SYMBOL LIGHT DOWN AND HORIZONTAL WITH CIRCLE} \)
23C2 \( \text{DENTISTRY SYMBOL LIGHT UP AND HORIZONTAL WITH CIRCLE} \)
23C3 \( \text{DENTISTRY SYMBOL LIGHT VERTICAL WITH TRIANGLE} \)
23C4 \( \text{DENTISTRY SYMBOL LIGHT DOWN AND HORIZONTAL WITH TRIANGLE} \)
23C5 \( \text{DENTISTRY SYMBOL LIGHT UP AND HORIZONTAL WITH TRIANGLE} \)
23C6 \( \text{DENTISTRY SYMBOL LIGHT VERTICAL AND WAVE} \)
23C7 \( \text{DENTISTRY SYMBOL LIGHT DOWN AND HORIZONTAL WITH WAVE} \)
23C8 \( \text{DENTISTRY SYMBOL LIGHT UP AND HORIZONTAL WITH WAVE} \)
23C9 \( \text{DENTISTRY SYMBOL LIGHT DOWN AND HORIZONTAL} \)
\[ \rightarrow 22A4 \text{ down tack} \]
\[ \rightarrow 252C \text{ box drawings light down and horizontal} \]

23CA \( \text{DENTISTRY SYMBOL LIGHT UP AND HORIZONTAL} \)
\[ \rightarrow 22A5 \text{ up tack} \]
\[ \rightarrow 2534 \text{ box drawings light up and horizontal} \]
23CB \( \text{DENTISTRY SYMBOL LIGHT VERTICAL AND TOP LEFT} \)
\[ \rightarrow 2309 \text{ right ceiling} \]
23CC \( \text{DENTISTRY SYMBOL LIGHT VERTICAL AND BOTTOM LEFT} \)
\[ \rightarrow 230B \text{ right floor} \]

Miscellaneous technical
23CD \( \square \text{SQUARE FOOT} \)

Keyboard and UI symbols
23CE \( \text{RETURN SYMBOL} \)
\[ \text{may be shown with either hollow or filled glyph} \]
\[ \rightarrow 21B5 \text{ downwards hollow or filled arrow} \]
\[ \rightarrow 2890 \text{ return left} \]
23CF \( \text{EJECT SYMBOL} \)
\[ \text{UI symbol to eject media} \]

Special character extension
23D0 \( \text{VERTICAL LINE EXTENSION} \)
\[ \text{used for extension of arrows} \]
\[ \rightarrow 23AF \text{ — horizontal line extension} \]

Metrical symbols
23D1 \( \text{METRICAL BREVE} \)
23D2 \( \text{METRICAL LONG OVER SHORT} \)
23D3 \( \text{METRICAL SHORT OVER LONG} \)
23D4 \( \text{METRICAL LONG OVER TWO SHORTS} \)
23D5 \( \text{METRICAL TWO SHORTS OVER LONG} \)
23D6 \( \text{METRICAL TWO SHORTS JOINED} \)
23D7 \( \text{METRICAL TRISEME} \)
\[ \rightarrow 1D242 \text{ combining greek musical triseme} \]
23D8 \( \text{METRICAL TETRASEME} \)
\[ \rightarrow 1D243 \text{ combining greek musical tetraseme} \]
23D9 \( \text{METRICAL PENTASEME} \)
\[ \rightarrow 1D244 \text{ combining greek musical pentaseme} \]

Electrotechnical symbols
23DA \( \text{EARTH GROUND} \)
23DB \( \text{FUSE} \)

Horizontal brackets
These are intended for bracketing terms of mathematical expressions where their glyph extends to accommodate the width of the bracketed expression.
23DC \( \text{TOP PARENTHESIS} \)
\[ \rightarrow \text{FE35 presentation form for vertical left parenthesis} \]
23DD \( \text{BOTTOM PARENTHESIS} \)
\[ \rightarrow \text{FE36 presentation form for vertical right parenthesis} \]
23DE \( \text{TOP CURLY BRACKET} \)
\[ \rightarrow \text{FE37 presentation form for vertical left curly bracket} \]
23DF \( \text{BOTTOM CURLY BRACKET} \)
\[ \rightarrow \text{FE38 presentation form for vertical right curly bracket} \]
23E0 \( \text{TOP TORTOISE SHELL BRACKET} \)
\[ \rightarrow \text{FE39 presentation form for vertical left tortoise shell bracket} \]
23E1 ⬇️ BOTTOM TORTOISE SHELL BRACKET  
→ FE3A ⬇️ presentation form for vertical right tortoise shell bracket

Miscellaneous technical
23E2 □ WHITE TRAPEZIUM

Chemistry symbol
23E3 ☞ BENZENE RING WITH CIRCLE

Miscellaneous technical
23E4 — STRAIGHTNESS
23E5 ⏰ FLATNESS
23E6 ~ AC CURRENT
23E7 ⏰ ELECTRICAL INTERSECTION
23E8 ⧵ DECIMAL EXPONENT SYMBOL
  • Algol-60 token for scientific notation literals

User interface symbols
23E9 ⫸ BLACK RIGHT-POINTING DOUBLE TRIANGLE  
  = fast forward
23EA ⬅ BLACK LEFT-POINTING DOUBLE TRIANGLE  
  = rewind, fast backwards
23EB ↭ BLACK UP-POINTING DOUBLE TRIANGLE
23EC ⬆ BLACK DOWN-POINTING DOUBLE TRIANGLE  
  WITH VERTICAL BAR  
  = skip to the end or next file/track/chapter
23ED ⬈ BLACK LEFT-POINTING DOUBLE TRIANGLE  
  WITH VERTICAL BAR  
  = skip to the start or previous file/track/chapter
23EE ⬇ BLACK RIGHT-POINTING DOUBLE TRIANGLE  
  WITH DOUBLE VERTICAL BAR  
  = play/pause toggle
23F0 ⌚ ALARM CLOCK
  → 231A ⌚️ watch
  → 1F550 ⌚️ clock face one o'clock
  → 1F570 ⌚️ mantelpiece clock
23F1 ⌚ STOPWATCH
23F2 ⌚ TIMER CLOCK
23F3 ⌚ HOURGLASS WITH FLOWING SAND  
  → 231B ⌚️ hourglass
23F4 ⮞ BLACK MEDIUM LEFT-POINTING TRIANGLE  
  = reverse, back
  • preferred to 25C0 ◄ black left-pointing triangle
  → 2BC7 ◄ black medium left-pointing triangle centred
  → 1F780 ◄ black left-pointing isosceles right triangle
23F5 ⮟ BLACK MEDIUM RIGHT-POINTING TRIANGLE  
  = forward
  • preferred to 25B6 ▶ black right-pointing triangle
  → 2BC8 ▶ black medium right-pointing triangle centred
  → 1F782 ▶ black right-pointing isosceles right triangle
23F6 ⮠ BLACK MEDIUM UP-POINTING TRIANGLE  
  = increase
  • preferred to 25B2 ▲ black up-pointing triangle
  → 2BC5 ▲ black medium up-pointing triangle centred
  → 1F781 ▲ black up-pointing isosceles right triangle

Power symbols from ISO 7000:2012
23FB ⚪ POWER SYMBOL
  • IEC 5009 standby symbol
  • IEEE 1621 power symbol
23FC ⚫ POWER ON-OFF SYMBOL
  • IEC 5010 power on-off symbol
23FD ⚪️ POWER ON SYMBOL
  • use 2B58 ⭠ heavy circle
  → 2B58 ⭠ for power off symbol
  → 2858 ⭠ heavy circle

Power symbol from IEEE 1621-2004
23FE ⚫️ POWER SLEEP SYMBOL  
  → 263E ⚫️ last quarter moon

Miscellaneous symbol
23FF ⏞ OBSERVER EYE SYMBOL