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 7.0

This file may be changed at any time without notice to reflect errata or other updates 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-7.0/ for charts showing only the characters added in Unicode 7.0. See http://www.unicode.org/Public/7.0.0/charts/ for a complete archived file of character code charts for Unicode 7.0.

Disclaimer

These charts are provided as the online reference to the character contents of the Unicode Standard, Version 7.0 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 7.0, online at http://www.unicode.org/versions/Unicode7.0.0/, as well as Unicode Standard Annexes #9, #11, #14, #15, #24, #29, #31, #34, #38, #41, #42, #44, and #45, 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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Miscellaneous technical
2300 Ø DIAMETER SIGN
   → 2205 Ø empty set
2301 ← ELECTRIC ARROW
   • from ISO 2047
   • symbol for End of Transmission
2302 ◄ UP ARROWHEAD
   → 005E ^ circumflex accent
   → 02C4 ^ modifier letter up arrowhead
   → 2038  caret
   → 2227 logical and
2304 ▼ DOWN ARROWHEAD
   → 02C5  v modifier letter down arrowhead
   → 2228 v logical or
   → 2335  v countersink
2305 ⊙ PROJECTIVE
   → 22BC ⊼ nand
2306 □ PERSPECTIVE
2307 △ WAVY LINE
   → 2E3E icky 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  ⌉ 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

User interface symbols
2315 ⌋ TELEPHONE RECORDER
2316 ﮣ POSITION INDICATOR
   = true position
   → 2BD0 ﮣ square position indicator
2317 ﮤ VIEWDATA SQUARE
   → 22DS ﮤ equal and parallel to
2318 ﮥ PLACE OF INTEREST SIGN
   = command key (1.0)
   = operating system key (ISO 9995-7)
2319 ❔ TURNED NOT SIGN
   = line marker

Quine corners
These form a set of four quine corners, for quincuncial arrangement. They are also used in upper and lower pairs in mathematical, 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 HALF INTEGRAL
   → 23AE ⌞ integral extension
2321 ⌘ BOTTOM HALF INTEGRAL

Frown and smile
2322 ⌃ FROWN
   → 2040 ⁀ character tie
2323 ¹ 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
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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>2329</td>
<td>LEFT-POINTING ANGLE BRACKET</td>
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<tr>
<td>2344</td>
<td>APL FUNCTIONAL SYMBOL QUAD GREATER-T \nTHAN</td>
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<td>APL FUNCTIONAL SYMBOL LEFTWARDS VANE</td>
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<td>APL FUNCTIONAL SYMBOL QUAD LEFTWARDS \nARROW</td>
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<td>APL FUNCTIONAL SYMBOL CIRCLE BACKSLASH</td>
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<td>APL FUNCTIONAL SYMBOL DEL STILE</td>
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<td>APL FUNCTIONAL SYMBOL QUAD UP CARET</td>
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<td>APL FUNCTIONAL SYMBOL QUAD DEL</td>
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<td>APL FUNCTIONAL SYMBOL UP TACK JOT</td>
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<td>2403</td>
<td>APL FUNCTIONAL SYMBOL QUAD LESS-T \nTHAN</td>
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### Keyboard symbol

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<th>Character</th>
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<tbody>
<tr>
<td>232B</td>
<td>ERASE TO THE LEFT</td>
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<tr>
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<td>BENZENE RING</td>
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<td>APL FUNCTIONAL SYMBOL QUAD LESS-T \nTHAN</td>
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### Drafting symbols

<table>
<thead>
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<th>Code</th>
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<td>2336</td>
<td>APL FUNCTIONAL SYMBOL I-BEAM</td>
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### APL

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<td>⎭</td>
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<tr>
<td>2399</td>
<td>⎪</td>
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</tbody>
</table>

**Graphics for control codes**

- 237B  ⼻      NOT CHECK MARK
  - from ISO 2047
  - symbol for Negative Acknowledge

**Miscellaneous technical**

- 237C  ⹅      RIGHT ANGLE WITH DOWNWARDS ZIGZAG ARROW

**Graphics for control codes**

- 237D  ⹇      SHOULDERED OPEN BOX
  - from ISO 9995-7
  - keyboard symbol for No Break Space
  - 2423 ⨡    open box

- 237E  ⹈      BELL SYMBOL
  - from ISO 2047

- 237F  ⹉      VERTICAL LINE WITH MIDDLE DOT
  - from ISO 2047
  - symbol for End of Medium

**Keyboard symbols from ISO 9995-7**

- 2380  ⎯      INSERTION SYMBOL
- 2381  ⎳      CONTINUOUS UNDERLINE SYMBOL
- 2382  ⎴      DISCONTINUOUS UNDERLINE SYMBOL
- 2383  ⎵      EMPHASIS SYMBOL
- 2384  ⎷      COMPOSITION SYMBOL
- 2385  ⎸      WHITE SQUARE WITH CENTRE VERTICAL LINE
- 2386  ⎹      ENTER SYMBOL
- 2387  ⎺      ALTERNATIVE KEY SYMBOL
- 2388  ⎻      HELM SYMBOL
  - control
  - 2638 ⎹    wheel of dharma
- 2389  ⎼      CIRCLED HORIZONTAL BAR WITH NOTCH
  - pause
- 238A  ⎽      CIRCLED TRIANGLE DOWN
  - interrupt, break
- 238B  ⎾      BROKEN CIRCLE WITH NORTHWEST ARROW
  - escape
- 238C  ⎿      UNDO SYMBOL

**Electrotechnical symbols from IR 181**

- 238D  ⎯      MONOSTABLE SYMBOL
- 238E  ⎰      HYSTERESIS SYMBOL
- 238F  ⎱      OPEN-CIRCUIT-OUTPUT H-TYPE SYMBOL
- 2390  ⎱      OPEN-CIRCUIT-OUTPUT L-TYPE SYMBOL
- 2391  ⎱      PASSIVE-PULL-DOWN-OUTPUT SYMBOL
- 2392  ⎱      PASSIVE-PULL-UP-OUTPUT SYMBOL
- 2393  ⎱      DIRECT CURRENT SYMBOL FORM TWO
- 2394  ⎱      SOFTWARE-FUNCTION SYMBOL

**APL**

- 2395  ⎱      APL functional symbol quad
  - 2337 ⎲    aapl functional symbol squish quad
  - 25AF ⎱    white vertical rectangle

**Keyboard symbols from ISO 9995-7**

- 2396  ⎲      DECIMAL SEPARATOR KEY SYMBOL
- 2397  ⎳      PREVIOUS PAGE
  - 1F519 ⎲    back with leftwards arrow above
- 2398  ⎴      NEXT PAGE
- 2399  ⎵      PRINT SCREEN SYMBOL
- 239A  ⎶      CLEAR SCREEN SYMBOL
  - 20E2 ⎳    combining enclosing screen

**Bracket pieces**

- 239B  ⎲      LEFT PARENTHESES UP ORIGINAL HOOK
- 239C  ⎳      LEFT PARENTHESES EXTENSION
- 239D  ⎴      LEFT PARENTHESES LOWER ORIGIN HOOK
- 239E  ⎵      RIGHT PARENTHESES UP ORIGINAL HOOK
- 239F  ⎴      RIGHT PARENTHESES EXTENSION
- 23A0  ⎵      RIGHT PARENTHESES LOWER ORIGIN HOOK
- 23A1  ⎶      LEFT SQUARE BRACKET UP ORIGINAL CORNER
- 23A2  ⎷      LEFT SQUARE BRACKET LOWER ORIGIN CORNER
- 23A3  ⎸      LEFT SQUARE BRACKET EXTENSION
- 23A4  ⎴      LEFT SQUARE BRACKET LOWER ORIGIN HOOK
- 23A5  ⎶      RIGHT SQUARE BRACKET UP ORIGINAL CORNER
- 23A6  ⎷      RIGHT SQUARE BRACKET LOWER ORIGIN CORNER
- 23A7  ⎸      RIGHT SQUARE BRACKET EXTENSION
- 23A8  ⎴      LEFT CURLY BRACKET UP ORIGINAL HOOK
- 23A9  ⎴      LEFT CURLY BRACKET LOWER ORIGIN HOOK
- 23AA  ⎴      LEFT CURLY BRACKET EXTENSION
- 23AB  ⎴      RIGHT CURLY BRACKET UP ORIGINAL HOOK
- 23AC  ⎴      RIGHT CURLY BRACKET MIDDLE PIECE
- 23AD  ⎴      RIGHT CURLY BRACKET LOWER ORIGIN HOOK

**Special character extensions**

- 23AE  ⎲      INTEGRAL EXTENSION
  - 2320 ⎲    top half integral
  - 2321 ⎲    bottom half integral
- 23AF  ⎲      HORIZONTAL LINE INTEGRAL
  - used for extension of arrows
  - 23DD ⎲    vertical line extension

**Bracket pieces**

- 23B0  ⎲      UP ORIGINAL LEFT OR LOWER RIGHT CURLY BRACKET PARENTHESIS
  - left moustache
- 23B1  ⎲      UP ORIGINAL LEFT OR LOWER LEFT CURLY BRACKET PARENTHESIS
  - right moustache
Summation sign parts
23B2 \[ \sum \] SUMMATION TOP
23B3 \[ \sum \] SUMMATION BOTTOM
\[ \sum \rightarrow 2211 \sum \] n-ary summation

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

Terminal graphic characters
23B7 \[ \radical \] RADICAL SYMBOL BOTTOM
23B8 \[ \left \] LEFT VERTICAL BOX LINE
23B9 \[ \right \] 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. Even-numbered scan lines are unified with box-drawing graphics.
23BA \[ \text{HORIZONTAL SCAN LINE-1} \]
23BB \[ \text{HORIZONTAL SCAN LINE-3} \]
23BC \[ \text{HORIZONTAL SCAN LINE-7} \]
23BD \[ \text{HORIZONTAL SCAN LINE-9} \]

Dentistry notation symbols
23BE \[ \text{DENTISTRY SYMBOL LIGHT VERTICAL AND TOP RIGHT} \]
\[ \text{DENTISTRY SYMBOL LIGHT VERTICAL AND TOP RIGHT} \rightarrow \text{2308} \] left ceiling
23BF \[ \text{DENTISTRY SYMBOL LIGHT VERTICAL AND BOTTOM RIGHT} \]
\[ \text{DENTISTRY SYMBOL LIGHT VERTICAL AND BOTTOM RIGHT} \rightarrow \text{230A} \] 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 \[ \text{DENTISTRY SYMBOL LIGHT DOWN AND HORIZONTAL} \]
\[ \text{DENTISTRY SYMBOL LIGHT DOWN AND HORIZONTAL} \rightarrow \text{22A4} \] down tack
\[ \text{DENTISTRY SYMBOL LIGHT DOWN AND HORIZONTAL} \rightarrow \text{253C} \] box drawings light down and horizontal

23CA \[ \text{DENTISTRY SYMBOL LIGHT UP AND HORIZONTAL} \]
\[ \text{DENTISTRY SYMBOL LIGHT UP AND HORIZONTAL} \rightarrow \text{22A5} \] up tack
\[ \text{DENTISTRY SYMBOL LIGHT UP AND HORIZONTAL} \rightarrow \text{2534} \] box drawings light up and horizontal
23CB \[ \text{DENTISTRY SYMBOL LIGHT VERTICAL AND TOP LEFT} \]
\[ \text{DENTISTRY SYMBOL LIGHT VERTICAL AND TOP LEFT} \rightarrow \text{2309} \] right ceiling
23CC \[ \text{DENTISTRY SYMBOL LIGHT VERTICAL AND BOTTOM LEFT} \]
\[ \text{DENTISTRY SYMBOL LIGHT VERTICAL AND BOTTOM LEFT} \rightarrow \text{2308} \] right floor

Miscellaneous technical
23CD \[ \square \] SQUARE FOOT

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

Special character extension
23D0 \[ \text{VERTICAL LINE EXTENSION} \]
\[ \text{VERTICAL LINE EXTENSION} \] used for extension of arrows
\[ \text{VERTICAL LINE EXTENSION} \rightarrow \text{23AF} \] 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 \[ \text{METRICAL TRISME} \]
\[ \text{METRICAL TRISME} \rightarrow \text{1D242} \] combining greek musical triseme
23D8 \[ \text{METRICAL TETRASEME} \]
\[ \text{METRICAL TETRASEME} \rightarrow \text{1D243} \] combining greek musical tetrasteve
23D9 \[ \text{METRICAL PENTASEME} \]
\[ \text{METRICAL PENTASEME} \rightarrow \text{1D244} \] 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 \[ \text{TOP PARENTHESIS} \]
\[ \text{TOP PARENTHESIS} \rightarrow \text{FE35} \] presentation form for vertical left parenthesis
23DD \[ \text{BOTTOM PARENTHESIS} \]
\[ \text{BOTTOM PARENTHESIS} \rightarrow \text{FE36} \] presentation form for vertical right parenthesis
23DE \[ \text{TOP CURLY BRACKET} \]
\[ \text{TOP CURLY BRACKET} \rightarrow \text{FE37} \] presentation form for vertical left curly bracket
23DF \[ \text{BOTTOM CURLY BRACKET} \]
\[ \text{BOTTOM CURLY BRACKET} \rightarrow \text{FE38} \] presentation form for vertical right curly bracket
23E0 \[ \text{TOP TORTOISE SHELL BRACKET} \]
\[ \text{TOP TORTOISE SHELL BRACKET} \rightarrow \text{FE39} \] presentation form for vertical left tortoise shell bracket

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23F9 ■ BLACK SQUARE FOR STOP
= stop
→ 25FC ■ black medium square
23FA ● BLACK CIRCLE FOR RECORD
= record
→ 26AB ● medium black circle

Miscellaneous technical
23E1 ⏋ BOTTOM TORTOISE SHELL BRACKET
= 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
= fast rewind
23EB ✈ BLACK UP-POINTING DOUBLE TRIANGLE
23EC ▼ BLACK DOWN-POINTING DOUBLE TRIANGLE
23ED ▶ BLACK RIGHT-POINTING DOUBLE TRIANGLE WITH VERTICAL BAR
23EE ◄ BLACK LEFT-POINTING DOUBLE TRIANGLE WITH VERTICAL BAR
23EF ▶ BLACK RIGHT-POINTING TRIANGLE WITH DOUBLE VERTICAL BAR
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
→ 1F780 ◄ black left-pointing isosceles right triangle
23F5 ▲ BLACK MEDIUM RIGHT-POINTING TRIANGLE
= forward
  • preferred to 2586 ▶ black right-pointing triangle
→ 1F782 ▶ black right-pointing isosceles right triangle
23F6 ▲ BLACK MEDIUM UP-POINTING TRIANGLE
= increase
  • preferred to 25B2 ▲ black up-pointing triangle
→ 1F781 ▲ black up-pointing isosceles right triangle
23F7 ▼ BLACK MEDIUM DOWN-POINTING TRIANGLE
= decrease
  • preferred to 25BC ▼ black down-pointing triangle
→ 1F783 ▼ black down-pointing isosceles right triangle
23F8 ⏯ DOUBLE VERTICAL BAR
= pause
→ 2016 ▷ double vertical line

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