

## Miscellaneous Technical

### Range: 2300–23FF

#### The Unicode Standard, Version 4.1

This file contains an excerpt from the character code tables and list of character names for *The Unicode Standard, Version 4.1*.

Characters in this chart that are new for The Unicode Standard, Version 4.1 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 code charts. See <http://www.unicode.org/Public/4.1.0/charts/> for a complete archived file of character code charts for Unicode 4.1.

#### Disclaimer

These charts are provided as the on-line reference to the character contents of the Unicode Standard, Version 4.1 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 excerpt file, please consult the appropriate sections of The Unicode Standard, Version 4.1, at <http://www.unicode.org/versions/Unicode4.1.0/>, including sections unchanged in The Unicode Standard, Version 4.0 (ISBN 0-321-18578-1), as well as Unicode Standard Annexes #9, #11, #14, #15, #24, #29, #31, and #34, the other Unicode Technical Reports and Standards, and the Unicode Character Database, which are available on-line.

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

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	230	231	232	233	234	235	236	237	238	239	23A	23B	23C	23D	23E	23F
0	2300	2310	2320	2330	2340	2350	2360	2370	2380	2390	23A0	23B0	23C0	23D0		
1	2301	2311	2321	2331	2341	2351	2361	2371	2381	2391	23A1	23B1	23C1	23D1		
2	2302	2312	2322	2332	2342	2352	2362	2372	2382	2392	23A2	23B2	23C2	23D2		
3	2303	2313	2323	2333	2343	2353	2363	2373	2383	2393	23A3	23B3	23C3	23D3		
4	2304	2314	2324	2334	2344	2354	2364	2374	2384	2394	23A4	23B4	23C4	23D4		
5	2305	2315	2325	2335	2345	2355	2365	2375	2385	2395	23A5	23B5	23C5	23D5		
6	2306	2316	2326	2336	2346	2356	2366	2376	2386	2396	23A6	23B6	23C6	23D6		
7	2307	2317	2327	2337	2347	2357	2367	2377	2387	2397	23A7	23B7	23C7	23D7		
8	2308	2318	2328	2338	2348	2358	2368	2378	2388	2398	23A8	23B8	23C8	23D8		
9	2309	2319	2329	2339	2349	2359	2369	2379	2389	2399	23A9	23B9	23C9	23D9		
A	230A	231A	232A	233A	234A	235A	236A	237A	238A	239A	23AA	23BA	23CA	23DA		
B	230B	231B	232B	233B	234B	235B	236B	237B	238B	239B	23AB	23BB	23CB	23DB		
C	230C	231C	232C	233C	234C	235C	236C	237C	238C	239C	23AC	23BC	23CC			
D	230D	231D	232D	233D	234D	235D	236D	237D	238D	239D	23AD	23BD	23CD			
E	230E	231E	232E	233E	234E	235E	236E	237E	238E	239E	23AE	23BE	23CE			
F	230F	231F	232F	233F	234F	235F	236F	237F	238F	239F	23AF	23BF	23CF			

**Miscellaneous technical**

- 2300 ∅ DIAMETER SIGN  
→ 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 v DOWN ARROWHEAD  
→ 02C5 v modifier letter down arrowhead  
→ 2228 v logical or  
→ 2335 v countersink
- 2305 ⋈ PROJECTIVE  
→ 22BC ⋈ nand
- 2306 ≀ PERSPECTIVE
- 2307 〰 WAVY LINE  
→ 3030 ~ wavy dash

**Corner brackets**

*The ceiling and floor characters are recommended for general-purpose corner brackets, rather than the CJK corner brackets, which are wide quotation marks.*

- 2308 ⌈ LEFT CEILING  
= APL upstile  
→ 300C ⌈ left corner bracket
- 2309 ⌋ RIGHT CEILING  
→ 20E7 ⌋ combining annuity symbol
- 230A ⌌ LEFT FLOOR  
= APL downstile
- 230B ⌍ RIGHT FLOOR  
→ 300D ⌍ right corner 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
- 2312 ⌒ ARC  
→ 25E0 ⌒ upper half circle
- 2313 ◐ SEGMENT
- 2314 ◑ SECTOR
- 2315 ☎ TELEPHONE RECORDER
- 2316 † POSITION INDICATOR
- 2317 # VIEWDATA SQUARE  
→ 22D5 # equal and parallel to
- 2318 ⌘ PLACE OF INTEREST SIGN  
= COMMAND KEY

- 2319 ⌵ TURNED NOT SIGN  
= line marker

**GUI icons**

- 231A ⌚ WATCH
- 231B ⌚ HOURGLASS

**Quine corners**

- 231C ⌞ TOP LEFT CORNER  
• set of four “quine” corners, for quincuncial arrangement
- 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 ∪ 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

**Angle brackets**

*These are 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	234E	⊥	APL FUNCTIONAL SYMBOL DOWN TACK JOT = up tack jot → 22A5 ⊥ up tack
2330	∕	TOTAL RUNOUT	234F	⊕	APL FUNCTIONAL SYMBOL UPWARDS VANE
2331	⊕	DIMENSION ORIGIN	2350	⊞	APL FUNCTIONAL SYMBOL QUAD UPWARDS ARROW
2332	▽	CONICAL TAPER	2351	⊟	APL FUNCTIONAL SYMBOL UP TACK OVERBAR = down tack overbar → 22A4 ⊟ down tack → 3012 ⊟ postal mark
2333	∇	SLOPE → 25FA ∇ lower left triangle	2352	∇	APL FUNCTIONAL SYMBOL DEL STILE
2334	⊐	COUNTERBORE → 2423 ⊐ open box	2353	⊠	APL FUNCTIONAL SYMBOL QUAD UP CARET
2335	∨	COUNTERSINK → 2304 ∨ down arrowhead	2354	⊡	APL FUNCTIONAL SYMBOL QUAD DEL
<b>APL</b>			2355	⊢	APL FUNCTIONAL SYMBOL UP TACK JOT = down tack jot → 22A4 ⊢ down tack
2336	⊔	APL FUNCTIONAL SYMBOL I-BEAM	2356	⊣	APL FUNCTIONAL SYMBOL DOWNWARDS VANE
2337	⊞	APL FUNCTIONAL SYMBOL SQUISH QUAD → 2395 ⊞ apl functional symbol quad → 25AF ⊞ white vertical rectangle → 2AFF ⊞ n-ary white vertical bar	2357	⊤	APL FUNCTIONAL SYMBOL QUAD DOWNWARDS ARROW
2338	⊞	APL FUNCTIONAL SYMBOL QUAD EQUAL	2358	⊥	APL FUNCTIONAL SYMBOL QUOTE UNDERBAR
2339	⊞	APL FUNCTIONAL SYMBOL QUAD DIVIDE	2359	Δ	APL FUNCTIONAL SYMBOL DELTA UNDERBAR
233A	⊞	APL FUNCTIONAL SYMBOL QUAD DIAMOND	235A	◇	APL FUNCTIONAL SYMBOL DIAMOND UNDERBAR
233B	⊞	APL FUNCTIONAL SYMBOL QUAD JOT → 29C7 ⊞ squared small circle	235B	⊙	APL FUNCTIONAL SYMBOL JOT UNDERBAR
233C	⊞	APL FUNCTIONAL SYMBOL QUAD CIRCLE	235C	⊚	APL FUNCTIONAL SYMBOL CIRCLE UNDERBAR
233D	⊙	APL FUNCTIONAL SYMBOL CIRCLE STILE	235D	⊛	APL FUNCTIONAL SYMBOL UP SHOE JOT → 2A40 ⊛ intersection with dot
233E	⊙	APL FUNCTIONAL SYMBOL CIRCLE JOT → 229A ⊙ circled ring operator → 29BE ⊙ circled white bullet	235E	⊜	APL FUNCTIONAL SYMBOL QUOTE QUAD
233F	⊛	APL FUNCTIONAL SYMBOL SLASH BAR	235F	⊝	APL FUNCTIONAL SYMBOL CIRCLE STAR → 229B ⊝ circled asterisk operator
2340	⊜	APL FUNCTIONAL SYMBOL BACKSLASH BAR	2360	⊞	APL FUNCTIONAL SYMBOL QUAD COLON
2341	⊞	APL FUNCTIONAL SYMBOL QUAD SLASH → 29C4 ⊞ squared rising diagonal slash	2361	⊟	APL FUNCTIONAL SYMBOL UP TACK DIAERESIS = down tack diaeresis → 22A4 ⊟ down tack
2342	⊞	APL FUNCTIONAL SYMBOL QUAD BACKSLASH → 29C5 ⊞ squared falling diagonal slash	2362	∇	APL FUNCTIONAL SYMBOL DEL DIAERESIS
2343	⊞	APL FUNCTIONAL SYMBOL QUAD LESS-THAN	2363	*	APL FUNCTIONAL SYMBOL STAR DIAERESIS
2344	⊞	APL FUNCTIONAL SYMBOL QUAD GREATER-THAN	2364	⊖	APL FUNCTIONAL SYMBOL JOT DIAERESIS = hoot
2345	+	APL FUNCTIONAL SYMBOL LEFTWARDS VANE	2365	⊚	APL FUNCTIONAL SYMBOL CIRCLE DIAERESIS = holler
2346	+	APL FUNCTIONAL SYMBOL RIGHTWARDS VANE	2366	⊛	APL FUNCTIONAL SYMBOL DOWN SHOE STILE
2347	⊞	APL FUNCTIONAL SYMBOL QUAD LEFTWARDS ARROW	2367	⊜	APL FUNCTIONAL SYMBOL LEFT SHOE STILE
2348	⊞	APL FUNCTIONAL SYMBOL QUAD RIGHTWARDS ARROW	2368	˜	APL FUNCTIONAL SYMBOL TILDE DIAERESIS = smirk
2349	⊙	APL FUNCTIONAL SYMBOL CIRCLE BACKSLASH → 29B0 ⊙ reversed empty set	2369	⊢	APL FUNCTIONAL SYMBOL GREATER-THAN DIAERESIS
234A	⊥	APL FUNCTIONAL SYMBOL DOWN TACK UNDERBAR = up tack underbar • preferred naming for APL tack symbols now follows the London Convention in ISO/IEC 13751:2000 (APL Extended) → 22A5 ⊥ up tack	236A	⊣	APL FUNCTIONAL SYMBOL COMMA BAR
234B	Δ	APL FUNCTIONAL SYMBOL DELTA STILE	236B	∇	APL FUNCTIONAL SYMBOL DEL TILDE
234C	⊞	APL FUNCTIONAL SYMBOL QUAD DOWN CARET			
234D	⊡	APL FUNCTIONAL SYMBOL QUAD DELTA			

236C	ø	APL FUNCTIONAL SYMBOL ZILDE
236D	†	APL FUNCTIONAL SYMBOL STILE TILDE
236E	;	APL FUNCTIONAL SYMBOL SEMICOLON UNDERBAR
236F	⊞	APL FUNCTIONAL SYMBOL QUAD NOT EQUAL
2370	⊟	APL FUNCTIONAL SYMBOL QUAD QUESTION
2371	∨	APL FUNCTIONAL SYMBOL DOWN CARET TILDE
2372	∧	APL FUNCTIONAL SYMBOL UP CARET TILDE
2373	ι	APL FUNCTIONAL SYMBOL IOTA
2374	ρ	APL FUNCTIONAL SYMBOL RHO
2375	ω	APL FUNCTIONAL SYMBOL OMEGA
2376	α	APL FUNCTIONAL SYMBOL ALPHA UNDERBAR
2377	ε	APL FUNCTIONAL SYMBOL EPSILON UNDERBAR
2378	ι	APL FUNCTIONAL SYMBOL IOTA UNDERBAR
2379	ω	APL FUNCTIONAL SYMBOL OMEGA UNDERBAR
237A	α	APL FUNCTIONAL SYMBOL ALPHA

### Graphics for control codes

237B	✓	NOT CHECK MARK
		• from ISO 2047
		• symbol for Negative Acknowledge

### Miscellaneous technical

237C	↘	RIGHT ANGLE WITH DOWNWARDS ZIGZAG ARROW
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### Graphics for control codes

237D	┌	SHOULDERED OPEN BOX
		• from ISO 9995-7
		• keyboard symbol for No Break Space
		→ 2423 $\sqcup$ 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
		= center
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

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 □ apl functional symbol squish quad
		→ 25AF □ white vertical rectangle

### Keyboard symbols from ISO 9995-7

2396	▸	DECIMAL SEPARATOR KEY SYMBOL
2397	⏪	PREVIOUS PAGE
2398	⏩	NEXT PAGE
2399	⏏	PRINT SCREEN SYMBOL
239A	⏏	CLEAR SCREEN SYMBOL
		→ 20E2 ⏏ combining enclosing screen

### Bracket pieces

239B	{	LEFT PARENTHESIS UPPER HOOK
239C		LEFT PARENTHESIS EXTENSION
239D	}	LEFT PARENTHESIS LOWER HOOK
239E	)	RIGHT PARENTHESIS UPPER HOOK
239F		RIGHT PARENTHESIS EXTENSION
23A0	}	RIGHT PARENTHESIS LOWER HOOK
23A1	┌	LEFT SQUARE BRACKET UPPER CORNER
23A2		LEFT SQUARE BRACKET EXTENSION
23A3	└	LEFT SQUARE BRACKET LOWER CORNER
23A4	┐	RIGHT SQUARE BRACKET UPPER CORNER
23A5		RIGHT SQUARE BRACKET EXTENSION
23A6	┑	RIGHT SQUARE BRACKET LOWER CORNER
23A7	{	LEFT CURLY BRACKET UPPER HOOK
23A8		LEFT CURLY BRACKET MIDDLE PIECE
23A9	}	LEFT CURLY BRACKET LOWER HOOK
23AA		CURLY BRACKET EXTENSION
23AB	)	RIGHT CURLY BRACKET UPPER HOOK
23AC		RIGHT CURLY BRACKET MIDDLE PIECE
23AD	}	RIGHT CURLY BRACKET LOWER HOOK

### Special character extensions

23AE		INTEGRAL EXTENSION
		→ 2320 $\int$ top half integral
		→ 2321 $\int$ bottom half integral
23AF	—	HORIZONTAL LINE EXTENSION
		• used for extension of arrows
		→ 23D0   vertical line extension

**Bracket pieces**

- 23B0 | UPPER LEFT OR LOWER RIGHT CURLY BRACKET SECTION  
= left moustache
- 23B1 | UPPER RIGHT OR LOWER LEFT CURLY BRACKET SECTION  
= right moustache

**Summation sign parts**

- 23B2 ∑ SUMMATION TOP
- 23B3 ∑ SUMMATION BOTTOM

**Vertical brackets**

- 23B4 ⌈ TOP SQUARE BRACKET  
→ FE47 ⌈ presentation form for vertical left square bracket
- 23B5 ⌋ BOTTOM SQUARE BRACKET  
→ FE48 ⌋ presentation form for vertical right square bracket
- 23B6 ⌋ BOTTOM SQUARE BRACKET OVER TOP SQUARE BRACKET

**Terminal graphic characters**

- 23B7 | RADICAL SYMBOL BOTTOM
- 23B8 | LEFT VERTICAL BOX LINE
- 23B9 | 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 - HORIZONTAL SCAN LINE-1
- 23BB - HORIZONTAL SCAN LINE-3
- 23BC - HORIZONTAL SCAN LINE-7
- 23BD - HORIZONTAL SCAN LINE-9

**Dentistry notation symbols**

- 23BE ⌈ DENTISTRY SYMBOL LIGHT VERTICAL AND TOP RIGHT  
→ 2308 ⌈ left ceiling
- 23BF ⌋ DENTISTRY SYMBOL LIGHT VERTICAL AND BOTTOM RIGHT  
→ 230A ⌋ left floor
- 23C0 ◊ DENTISTRY SYMBOL LIGHT VERTICAL WITH CIRCLE
- 23C1 ⌋ DENTISTRY SYMBOL LIGHT DOWN AND HORIZONTAL WITH CIRCLE
- 23C2 ◊ DENTISTRY SYMBOL LIGHT UP AND HORIZONTAL WITH CIRCLE
- 23C3 ⌋ DENTISTRY SYMBOL LIGHT VERTICAL WITH TRIANGLE
- 23C4 ⌋ DENTISTRY SYMBOL LIGHT DOWN AND HORIZONTAL WITH TRIANGLE
- 23C5 ⌋ DENTISTRY SYMBOL LIGHT UP AND HORIZONTAL WITH TRIANGLE
- 23C6 † DENTISTRY SYMBOL LIGHT VERTICAL AND WAVE
- 23C7 † DENTISTRY SYMBOL LIGHT DOWN AND HORIZONTAL WITH WAVE
- 23C8 ± DENTISTRY SYMBOL LIGHT UP AND HORIZONTAL WITH WAVE

- 23C9 † DENTISTRY SYMBOL LIGHT DOWN AND HORIZONTAL  
→ 22A4 † down tack  
→ 252C † box drawings light down and horizontal
- 23CA ⊥ DENTISTRY SYMBOL LIGHT UP AND HORIZONTAL  
→ 22A5 ⊥ up tack  
→ 2534 ⊥ box drawings light up and horizontal
- 23CB † DENTISTRY SYMBOL LIGHT VERTICAL AND TOP LEFT  
→ 2309 † right ceiling
- 23CC ⊥ DENTISTRY SYMBOL LIGHT VERTICAL AND BOTTOM LEFT  
→ 230B ⊥ right floor

**Miscellaneous technical symbol**

- 23CD ◻ SQUARE FOOT

**Keyboard and UI symbols**

- 23CE ↵ RETURN SYMBOL  
• may be shown with either hollow or filled glyph  
→ 21B5 ↵ downwards arrow with corner leftwards
- 23CF ⏏ EJECT SYMBOL  
• UI symbol to eject media

**Special character extension**

- 23D0 | VERTICAL LINE EXTENSION  
• used for extension of arrows  
→ 23AF - horizontal line extension

**Metrical symbols**

- 23D1 ∩ METRICAL BREVE
- 23D2 ∩ METRICAL LONG OVER SHORT
- 23D3 ∩ METRICAL SHORT OVER LONG
- 23D4 ∩ METRICAL LONG OVER TWO SHORTS
- 23D5 ∩ METRICAL TWO SHORTS OVER LONG
- 23D6 ∩ METRICAL TWO SHORTS JOINED
- 23D7 ∩ METRICAL TRISEME  
→ 1D242 ∩ combining greek musical triseme
- 23D8 ∩ METRICAL TETRASEME  
→ 1D243 ∩ combining greek musical tetraseme
- 23D9 ∩ METRICAL PENTASEME  
→ 1D244 ∩ combining greek musical pentaseme

**Electrotechnical symbols**

- 23DA ⊥ EARTH GROUND
- 23DB ≡ FUSE