

Miscellaneous Mathematical Symbols-A

Range: 27C0–27EF

The Unicode Standard, Version 5.0

This file contains an excerpt from the character code tables and list of character names for *The Unicode Standard, Version 5.0*.

Characters in this chart that are new for The Unicode Standard, Version 5.0 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/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-5.0/> for charts showing only the characters added in Unicode 5.0.
See <http://www.unicode.org/Public/5.0.0/charts/> for a complete archived file of character code charts for Unicode 5.0.

Disclaimer

These charts are provided as the on-line reference to the character contents of the Unicode Standard, Version 5.0 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 5.0 (ISBN 0-321-48091-0), online at <http://www.unicode.org/versions/Unicode5.0.0/>, 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.

Fonts

The shapes of the reference glyphs used in these code charts are not prescriptive. Considerable variation is to be expected in actual fonts. The particular fonts used in these charts were provided to the Unicode Consortium by a number of different font designers, who own the rights to the fonts.

See <http://www.unicode.org/charts/fonts.html> for a list.

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

































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

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	27C	27D	27E
0	 27C0	 27D0	 27E0
1	 27C1	 27D1	 27E1
2	 27C2	 27D2	 27E2
3	 27C3	 27D3	 27E3
4	 27C4	 27D4	 27E4
5	 27C5	 27D5	 27E5
6	 27C6	 27D6	 27E6
7	 27C7	 27D7	 27E7
8	 27C8	 27D8	 27E8
9	 27C9	 27D9	 27E9
A	 27CA	 27DA	 27EA
B		 27DB	 27EB
C		 27DC	
D		 27DD	
E		 27DE	
F		 27DF	

Miscellaneous symbols

27C0	∠	THREE DIMENSIONAL ANGLE • used by Euclid
27C1	△	WHITE TRIANGLE CONTAINING SMALL WHITE TRIANGLE • used by Euclid
27C2	⊥	PERPENDICULAR = orthogonal to • relation, typeset with additional spacing → 22A5 ⊥ up tack
27C3	⊆	OPEN SUBSET
27C4	⊇	OPEN SUPERSET
27C5	⌈	LEFT S-SHAPED BAG DELIMITER
27C6	⌋	RIGHT S-SHAPED BAG DELIMITER
27C7	∨	OR WITH DOT INSIDE
27C8	⊂	REVERSE SOLIDUS PRECEDING SUBSET
27C9	⊃	SUPERSET PRECEDING SOLIDUS

Vertical line operator

27CA	‡	VERTICAL BAR WITH HORIZONTAL STROKE → 2AF2 ‡ parallel with horizontal stroke → 2AF5 ‡ triple vertical bar with horizontal stroke
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Miscellaneous symbol

27D0	◊	WHITE DIAMOND WITH CENTRED DOT
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Operators

27D1	∧	AND WITH DOT → 2227 ∧ logical and → 2A40 ∩ intersection with dot
27D2	⊍	ELEMENT OF OPENING UPWARDS → 2AD9 ⊍ element of opening downwards
27D3	↵	LOWER RIGHT CORNER WITH DOT = pullback → 230B ↵ right floor
27D4	↖	UPPER LEFT CORNER WITH DOT = pushout → 2308 ↖ left ceiling

Database theory operators

27D5	⋈	LEFT OUTER JOIN
27D6	⋉	RIGHT OUTER JOIN
27D7	⋊	FULL OUTER JOIN → 2A1D ⋊ join

Tacks and turnstiles

27D8	⊥	LARGE UP TACK → 22A5 ⊥ up tack
27D9	⊤	LARGE DOWN TACK → 22A4 ⊤ down tack
27DA	≠	LEFT AND RIGHT DOUBLE TURNSTILE → 22A8 ≠ true → 2AE4 ≠ vertical bar double left turnstile
27DB	≠	LEFT AND RIGHT TACK → 22A2 ≠ right tack
27DC	↔	LEFT MULTIMAP → 22B8 ↔ multimap
27DD	⊢	LONG RIGHT TACK → 22A2 ⊢ right tack
27DE	⊣	LONG LEFT TACK → 22A3 ⊣ left tack
27DF	⊥	UP TACK WITH CIRCLE ABOVE = radial component → 2AF1 ⊥ down tack with circle below

Modal logic operators

27E0	◇	LOZENGE DIVIDED BY HORIZONTAL RULE • used as form of possibility in modal logic → 25CA ◇ lozenge
27E1	◇	WHITE CONCAVE-SIDED DIAMOND = never (modal operator)
27E2	◇	WHITE CONCAVE-SIDED DIAMOND WITH LEFTWARDS TICK = was never (modal operator)
27E3	◇	WHITE CONCAVE-SIDED DIAMOND WITH RIGHTWARDS TICK = will never be (modal operator)
27E4	◻	WHITE SQUARE WITH LEFTWARDS TICK = was always (modal operator) → 25A1 ◻ white square
27E5	◻	WHITE SQUARE WITH RIGHTWARDS TICK = will always be (modal operator)

Mathematical brackets

27E6	⌈	MATHEMATICAL LEFT WHITE SQUARE BRACKET = z notation left bag bracket → 301A ⌈ left white square bracket
27E7	⌋	MATHEMATICAL RIGHT WHITE SQUARE BRACKET = z notation right bag bracket → 301B ⌋ right white square bracket
27E8	⟨	MATHEMATICAL LEFT ANGLE BRACKET = bra = z notation left sequence bracket → 2329 ⟨ left-pointing angle bracket → 3008 ⟨ left angle bracket
27E9	⟩	MATHEMATICAL RIGHT ANGLE BRACKET = ket = z notation right sequence bracket → 232A ⟩ right-pointing angle bracket → 3009 ⟩ right angle bracket
27EA	⟨⟨	MATHEMATICAL LEFT DOUBLE ANGLE BRACKET = z notation left chevron bracket → 300A ⟨⟨ left double angle bracket
27EB	⟩⟩	MATHEMATICAL RIGHT DOUBLE ANGLE BRACKET = z notation right chevron bracket → 300B ⟩⟩ right double angle bracket