

Miscellaneous Mathematical Symbols-A

Range: 27C0–27EF

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

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-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

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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