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Miscellaneous Mathematical Symbols-B

Miscellaneous Mathematical Symbols-B is a Unicode block containing miscellaneous mathematical symbols, including brackets, angles, and circle symbols.

Contents

Block
History
See also
References

Miscellaneous Mathematical Symbols-B	
Range	U+2980..U+29FF (128 code points)
Plane	BMP
Scripts	Common
Assigned	128 code points
Unused	0 reserved code points
Unicode version history	
3.2 (2002) 128 (+128)	
Chart	
Code chart (https://www.unicode.org/charts/PDF/U2980.pdf)	
Note: [1][2]	

Block

Miscellaneous Mathematical Symbols-B[1] Official Unicode Consortium code chart (https://www.unicode.org/charts/PDF/U2980.pdf) (PDF)																
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
U+298x	⦀	⦁	⦂	⦃	⦄	⦅	⦆	⦇	⦈	⦉	⦊	⦋	⦌	⦍	⦎	⦏
U+299x	⦐	⦑	⦒	⦓	⦔	⦕	⦖	⦗	⦘	⦙	⦚	⦛	⦜	⦝	⦞	⦟
U+29Ax	⦠	⦡	⦢	⦣	⦤	⦥	⦦	⦧	⦨	⦩	⦪	⦫	⦬	⦭	⦮	⦯
U+29Bx	⦰	⦱	⦲	⦳	⦴	⦵	⦶	⦷	⦸	⦹	⦺	⦻	⦼	⦽	⦾	⦿
U+29Cx	⧀	⧁	⧂	⧃	⧄	⧅	⧆	⧇	⧈	⧉	⧊	⧋	⧌	⧍	⧎	⧏
U+29Dx	⧐	⧑	⧒	⧓	⧔	⧕	⧖	⧗	⧘	⧙	⧚	⧛	⧜	⧝	⧞	⧟
U+29Ex	⧠	⧡	⧢	⧣	⧤	⧥	⧦	⧧	⧨	⧩	⧪	⧫	⧬	⧭	⧮	⧯
U+29Fx	⧰	⧱	⧲	⧳	⧴	⧵	⧶	⧷	⧸	⧹	⧺	⧻	⧼	⧽	⧾	⧿
Notes																
1.^ As of Unicode version 14.0																

Some of these symbols are used in Z notation. Specifically

- U+2981 ⦁ Z NOTATION SPOT
- U+2982 ⦂ Z NOTATION TYPE COLON
- U+2987 ⦇ Z NOTATION LEFT IMAGE BRACKET
- U+2988 ⦈ Z NOTATION RIGHT IMAGE BRACKET
- U+2989 ⦉ Z NOTATION LEFT BINDING BRACKET
- U+298A ⦊ Z NOTATION RIGHT BINDING BRACKET

The last two symbols are used in combinatorial game theory

- U+29FE ⧾ TINY
- U+29FF ⧿ MINY

History

The following Unicode-related documents record the purpose and process of defining specific characters in the Miscellaneous Mathematical Symbols-B block:

Version	Final code points[a]	Count	L2 ID	WG2 ID
3.2	U+2980..2996, 2999..29D7, 29DC..29E5, 29E7..29FB	117	L2/98-405 (https://www.unicode.org/L2/L1998/98405.htm)	
			L2/98-406 (https://www.unicode.org/L2/L1998/98406.htm)	
			L2/98-419 (pdf (https://www.unicode.org/L2/L1998/98419.pdf), doc (https://www.unicode.org/L2/L1998/98419.doc))	
			L2/99-160 (https://www.unicode.org/L2/L1999/99160.pdf)	
			L2/99-238 (https://www.unicode.org/L2/L1999/99238-non-kanji2.pdf)	
				N2093 (https://www.unicode.org/wg2/docs/n2(
			L2/00-010 (https://www.unicode.org/L2/L2000/00010-n2103.pdf)	N2103 (https://www.unicode.org/wg2/docs/n2
			L2/00-002 (https://www.unicode.org/L2/L2000/00002-math.pdf)	
			L2/00-024 (https://www.unicode.org/L2/L2000/00024.pdf)	
			L2/00-005R2 (https://www.unicode.org/L2/L2000/00005.htm)	
			L2/00-094 (https://www.unicode.org/L2/L2000/00094-n2191.pdf)	N2191 (https://www.unicode.org/wg2/docs/n2
			L2/00-098 (https://www.unicode.org/L2/L2000/00098-n2195.pdf), L2/00-098-page5 (https://www.unicode.org/L2/L2000/00098-page5.pdf)	N2195 (https://www.unicode.org/wg2/docs/n2
			L2/00-119 (https://www.unicode.org/L2/L2000/00119-math.pdf)	N2191R (https://www.unicode.org/wg2/docs/n
			L2/00-234 (https://www.unicode.org/L2/L2000/00234-n2203m.pdf)	N2203 (rtf (https://www.unicode.org/wg2/docs/ txt (https://www.unicode.org/wg2/docs/n2203.
			L2/00-115R2 (https://www.unicode.org/L2/L2000/00115.htm)	

			L2/00-298 (https://www.unicode.org/L2/L2000/00298-n2258.pdf)	N2258 (https://www.unicode.org/wg2/docs/n2
			L2/00-342 (https://www.unicode.org/L2/L2000/00342-n2278.htm)	N2278 (https://www.unicode.org/wg2/docs/n2
			L2/01-050 (https://www.unicode.org/L2/L2001/01050-n2353.pdf)	N2253 (https://www.unicode.org/wg2/docs/n2
			L2/01-114 (https://www.unicode.org/L2/L2001/01114-n2328.pdf)	N2328 (https://www.unicode.org/wg2/docs/n2
			L2/01-147 (pdf (https://www.unicode.org/L2/L2001/01147-n2343.pdf), html (https://www.unicode.org/L2/L2001/01147-n2343.htm))	N2343 (https://www.unicode.org/wg2/docs/n2
			L2/01-012R (https://www.unicode.org/L2/L2001/01012.htm)	
			L2/01-317 (https://www.unicode.org/L2/L2001/01317-bracket.htm)	
			L2/01-342 (https://www.unicode.org/L2/L2001/01342-10646-1-FPDAM1-comment.pdf)	
			L2/01-386R (https://www.unicode.org/L2/L2001/01386r-N2389R.pdf)	N2389R (https://www.unicode.org/wg2/docs/n
			L2/13-145 (https://www.unicode.org/L2/L2013/13145-n4434.pdf)	N4434 (https://www.unicode.org/wg2/docs/n44
				N4403 (pdf (https://www.unicode.org/wg2/docs doc (https://www.unicode.org/wg2/docs/n4403
U+2997..2998, 29D8..29DB, 29E6, 29FC..29FF	11		L2/01-064 (https://www.unicode.org/L2/L2001/01064-mvs.txt)	
			L2/01-067 (https://www.unicode.org/L2/L2001/01067-n2318-mathadd4.pdf)	N2318 (https://www.unicode.org/wg2/docs/n2
			L2/01-142 (https://www.unicode.org/L2/L2001/01142-N2336-Mathadd9.pdf)	N2336 (https://www.unicode.org/wg2/docs/n2
			L2/01-156 (https://www.unicode.org/L2/L2001/01156-n2356-mathadd10.pdf)	N2356 (https://www.unicode.org/wg2/docs/n2

			L2/01-159 (https://www.unicode.org/L2/L2001/01159-N2344-MathAdHoc.pdf)		N2344 (https://www.unicode.org/wg2/docs/n23
			L2/01-227 (https://www.unicode.org/L2/L2001/01227-utc87consent.htm)		
			L2/01-184R (https://www.unicode.org/L2/L2001/01184.htm)		
			L2/01-344 (https://www.unicode.org/L2/L2001/01344-n2353.pdf)		N2353 (pdf (https://www.unicode.org/wg2/doc: doc (https://www.unicode.org/wg2/docs/n2353
			L2/01-386R (https://www.unicode.org/L2/L2001/01386r-N2389R.pdf)		N2389R (https://www.unicode.org/wg2/docs/n

a. Proposed code points and characters names may differ from final code points and names

See also

- Mathematical operators and symbols in Unicode

References

1. "Unicode character database" (https://www.unicode.org). *The Unicode Standard*. Retrieved 2016-07-09.
2. "Enumerated Versions of The Unicode Standard" (https://www.unicode.org/versions/enumeratedversions.html). *The Unicode Standard*. Retrieved 2016-07-09.

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