Supplemental Arrows-B

Range: 2900-297F

This file contains an excerpt from the character code tables and list of character names for *The Unicode Standard, Version 16.0*

This file may be changed at any time without notice to reflect errata, or other updates to the Unicode Standard. See https://www.unicode.org/errata/ for an up-to-date list of errata.

See https://www.unicode.org/charts/ for access to a complete list of the latest character code charts. See https://www.unicode.org/charts/PDF/Unicode-16.0/ for charts showing only the characters added in Unicode 16.0. See https://www.unicode.org/Public/16.0.0/charts/ for a complete archived file of character code charts for Unicode 16.0. See https://www.unicode.org/charts/About.html#Conventions for conventions used in these code charts, and other general information.

Disclaimer

These charts are provided as the online reference to the character contents of the Unicode Standard, Version 16.0 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 16.0, online at https://www.unicode.org/versions/Unicode16.0.0/, as well as the Unicode Standard Annexes, the other Unicode Technical Reports and Standards, and the Unicode Character Database, which are available online.

See https://www.unicode.org/ucd/ and https://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.

See https://www.unicode.org/charts/fonts.html for a list.

Terms of Use

© 1991–2024 Unicode, Inc. This publication is protected by copyright, and permission must be obtained from Unicode, Inc. prior to any reproduction, modification, or other use not permitted by the Terms of Use (https://www.unicode.org/copyright.html). Specifically, you may make copies of this publication and may annotate and translate it solely for personal or internal business purposes and not for public distribution, provided that any such permitted copies and modifications fully reproduce all copyright and other legal notices contained in the original. You may not make copies of or modifications to this publication for public distribution, or incorporate it in whole or in part into any product or publication without the express written permission of Unicode.

The Unicode Consortium specifically grants ISO a license to produce such code charts with their associated character names list to show the repertoire of characters for that standard, as a normatively referenced, integral part of that standard.

Unicode uses most fonts under restricted license from the original font owner. You may not extract, copy, modify, or distribute fonts or font data from any Unicode Products, including this publication, without license from the font owner.

Use of all Unicode Products, including this publication, is governed by the Unicode Terms of Use (https://www.unicode.org/copyright.html). The authors, contributors, and publishers have taken care in the preparation of this publication, but make no express or implied representation or warranty of any kind and assume no responsibility or liability for errors or omissions or for consequential or incidental damages that may arise therefrom. This publication is provided "AS-IS" without charge as a convenience to users.

Unicode and the Unicode Logo are registered trademarks of Unicode, Inc., in the United States and other countries.

	290	291	292	293	294	295	296	297
0		> >>	2920	2930	2940	2950	1 2960	2970
1	- >> 2901	2911	2921	2931	2941	2951	J 2961	=> 2971
2	2902	7	2922	2932		2952	2962	<u>~</u> →
3	2903	<u>1</u>	2923	2933	← 2943	2953	11 2963	← 2973
4	2904	2914	2924	→ 2934	→ 2944	T 2954	2964	~ →
5	2905	> > 2915	2925	2935	+ 2945	2955	2965	≈
6	2906	>	2926	2936	+ 2946	2956	2966	¥ 2976
7	2907	> > > 	2927	2937	→ 2947	2957	2967	2977
8	‡ 2908	> >> 2918	2928) 2938	←→ 2948	7	2968	→ 2978
9	‡	2919	2929	(2949	2959	2969	→ 2979
Α	1 1 290A	>— 291A	292A	293A	294A	295A	296A	← 297A
В	₩ 290B	─	292B	9 38	294B	295B	296B	→ 297B
С	← − 290C	> → 291C	292C	293C	294C		296C	{ —
D	-→ 290D	◆ ← 291D	292D	293D	1 294D	7 295D	296D	 3
E	← 290E	→	292E	293E	294E	295E	1 296E	T
F	> 290F	◆ ← 291F	292F	(J 293F	294F	295F	296F	J 297F

Misce	Miscellaneous arrows			//>	RIGHTWARDS TWO-HEADED ARROW WITH		
2900	+>>	RIGHTWARDS TWO-HEADED ARROW WITH VERTICAL STROKE			TAIL WITH VERTICAL STROKE = z notation surjective injection		
		= z notation partial surjection			→ 2B3C « leftwards two-headed arrow with tail with vertical stroke		
		→ 2B34 ← leftwards two-headed arrow with vertical stroke	2918	/ >	RIGHTWARDS TWO-HEADED ARROW WITH		
2901	 >	RIGHTWARDS TWO-HEADED ARROW WITH			TAIL WITH DOUBLE VERTICAL STROKE		
		DOUBLE VERTICAL STROKE			= z notation finite surjective injection		
		= z notation finite surjection			→ 2B3D leftwards two-headed arrow with tail with double vertical stroke		
		→ 2B35	Arrov	v tail			
2902	#	LEFTWARDS DOUBLE ARROW WITH VERTICAL	2919		LEFTWARDS ARROW-TAIL		
0000		STROKE	291A		RIGHTWARDS ARROW-TAIL		
2903	*	RIGHTWARDS DOUBLE ARROW WITH VERTICAL STROKE	291B	~	LEFTWARDS DOUBLE ARROW-TAIL		
2904	#	LEFT RIGHT DOUBLE ARROW WITH VERTICAL	291C	>	RIGHTWARDS DOUBLE ARROW-TAIL		
		STROKE		Miscellaneous arrows			
2905	₩	RIGHTWARDS TWO-HEADED ARROW FROM BAR	291D		LEFTWARDS ARROW TO BLACK DIAMOND		
		= maps to	291E 291F	→•	RIGHTWARDS ARROW TO BLACK DIAMOND LEFTWARDS ARROW FROM BAR TO BLACK		
		ightarrow 2B36 $ ightharpoonup$ leftwards two-headed arrow from bar	2917	•	DIAMOND		
2906	\Leftrightarrow	LEFTWARDS DOUBLE ARROW FROM BAR	2920	→•	RIGHTWARDS ARROW FROM BAR TO BLACK		
		= maps from → 27FB ← long leftwards arrow from bar	0004	_	DIAMOND		
2907	⊭	RIGHTWARDS DOUBLE ARROW FROM BAR	2921 2922		NORTH WEST AND SOUTH EAST ARROW NORTH EAST AND SOUTH WEST ARROW		
		= maps to	2923	\(\)	NORTH WEST ARROW WITH HOOK		
0000		\rightarrow 27FC \longmapsto long rightwards arrow from bar	2924	کر	NORTH EAST ARROW WITH HOOK		
2908	‡	DOWNWARDS ARROW WITH HORIZONTAL STROKE	2925	5	SOUTH EAST ARROW WITH HOOK		
2909	‡	UPWARDS ARROW WITH HORIZONTAL STROKE	2926	2	SOUTH WEST ARROW WITH HOOK		
290A	1	UPWARDS TRIPLE ARROW	Cross	ing a	arrows for knot theory		
		→ 21D1 ↑ upwards double arrow	2927	X	NORTH WEST ARROW AND NORTH EAST		
290B	₩	→ 27F0 1↑ upwards quadruple arrow DOWNWARDS TRIPLE ARROW	2928	V	ARROW NORTH EAST ARROW AND SOUTH EAST		
2000	Ψ	→ 21D3 \$\psi\$ downwards double arrow	2020	/1	ARROW		
		→ 27F1 W downwards quadruple arrow	2929	X			
290C	←-	LEFTWARDS DOUBLE DASH ARROW	292A	×	ARROW SOUTH WEST ARROW AND NORTH WEST		
290D 290E	-→ +	RIGHTWARDS DOUBLE DASH ARROW LEFTWARDS TRIPLE DASH ARROW	LOLI	- '	ARROW		
290F	·>	RIGHTWARDS TRIPLE DASH ARROW	292B	X	RISING DIAGONAL CROSSING FALLING		
2910	> »	RIGHTWARDS TWO-HEADED TRIPLE DASH	292C	\	DIAGONAL FALLING DIAGONAL CROSSING RISING		
		ARROW	2320	^	DIAGONAL CROSSING NISING		
		→ 2B37 *-≺ leftwards two-headed triple dash arrow			→ 26CC X crossing lanes		
2911	>	RIGHTWARDS ARROW WITH DOTTED STEM	292D	X	SOUTH EAST ARROW CROSSING NORTH EAST ARROW		
0040		→ 2B38 ← leftwards arrow with dotted stem	292E	X	NORTH EAST ARROW CROSSING SOUTH EAST		
2912 2913	↑ ↓	UPWARDS ARROW TO BAR DOWNWARDS ARROW TO BAR			ARROW		
2914	> >> ∓	RIGHTWARDS ARROW WITH TAIL WITH	292F	X	FALLING DIAGONAL CROSSING NORTH EAST ARROW		
		VERTICAL STROKE	2930	X	RISING DIAGONAL CROSSING SOUTH EAST		
		= z notation partial injection → 2B39 ← leftwards arrow with tail with vertical		, -	ARROW		
		stroke	2931	X	NORTH EAST ARROW CROSSING NORTH WEST ARROW		
2915	/ >	RIGHTWARDS ARROW WITH TAIL WITH	2932	X	NORTH WEST ARROW CROSSING NORTH EAST		
		DOUBLE VERTICAL STROKE = z notation finite injection		, ,	ARROW		
		→ 2B3A « leftwards arrow with tail with double	Misce	llan	eous curved arrows		
		vertical stroke	2933	\rightarrow	WAVE ARROW POINTING DIRECTLY RIGHT		
2916	>→	RIGHTWARDS TWO-HEADED ARROW WITH TAIL			→ 219D ~ rightwards wave arrow		
		= bijective mapping	2934	♪	→ 2B3F ← wave arrow pointing directly left ARROW POINTING RIGHTWARDS THEN		
		= z notation bijection	2007	ر	CURVING UPWARDS		
		→ 2B3B « leftwards two-headed arrow with tail	2935	7	ARROW POINTING RIGHTWARDS THEN		
					CURVING DOWNWARDS		

2936	Ų	ARROW POINTING DOWNWARDS THEN CURVING LEFTWARDS	295D	Ţ	DOWNWARDS HARPOON WITH BARB RIGHT FROM BAR
2937	<i>(</i>	ARROW POINTING DOWNWARDS THEN CURVING RIGHTWARDS	295E	\vdash	LEFTWARDS HARPOON WITH BARB DOWN FROM BAR
2938 2939)	RIGHT-SIDE ARC CLOCKWISE ARROW LEFT-SIDE ARC ANTICLOCKWISE ARROW	295F	\vdash	RIGHTWARDS HARPOON WITH BARB DOWN FROM BAR
2939 293A	(TOP ARC ANTICLOCKWISE ARROW	2960	1	UPWARDS HARPOON WITH BARB LEFT FROM
293B	٠. ب	BOTTOM ARC ANTICLOCKWISE ARROW		_	BAR
293C	ā	TOP ARC CLOCKWISE ARROW WITH MINUS	2961	1	DOWNWARDS HARPOON WITH BARB LEFT
293D	F	TOP ARC ANTICLOCKWISE ARROW WITH PLUS			FROM BAR
293E	S	LOWER RIGHT SEMICIRCULAR CLOCKWISE ARROW			rpoons
293F	G	LOWER LEFT SEMICIRCULAR ANTICLOCKWISE	2962	=	LEFTWARDS HARPOON WITH BARB UP ABOVE LEFTWARDS HARPOON WITH BARB DOWN
2940	Ó	ARROW ANTICLOCKWISE CLOSED CIRCLE ARROW	2963	1	UPWARDS HARPOON WITH BARB LEFT BESIDE UPWARDS HARPOON WITH BARB RIGHT
20.0	O	→ 20DA @ combining anticlockwise ring overlay	2964	\Rightarrow	RIGHTWARDS HARPOON WITH BARB UP
2941	Ò	CLOCKWISE CLOSED CIRCLE ARROW → 20D9 © combining clockwise ring overlay			ABOVE RIGHTWARDS HARPOON WITH BARB DOWN
Линоз			2965	#	DOWNWARDS HARPOON WITH BARB LEFT
2942		mbined with operators			BESIDE DOWNWARDS HARPOON WITH BARB
2942	₹	RIGHTWARDS ARROW ABOVE SHORT LEFTWARDS ARROW	2966	=	RIGHT LEFTWARDS HARPOON WITH BARB UP ABOVE
2943	\leftarrow	LEFTWARDS ARROW ABOVE SHORT RIGHTWARDS ARROW			RIGHTWARDS HARPOON WITH BARB UP
2944	↔	SHORT RIGHTWARDS ARROW ABOVE LEFTWARDS ARROW	2967	=	LEFTWARDS HARPOON WITH BARB DOWN ABOVE RIGHTWARDS HARPOON WITH BARB
2945	\rightarrow	RIGHTWARDS ARROW WITH PLUS BELOW	2968	≠	DOWN RIGHTWARDS HARPOON WITH BARB UP
2946	÷	LEFTWARDS ARROW WITH PLUS BELOW	2000		ABOVE LEFTWARDS HARPOON WITH BARB UP
2947	*	RIGHTWARDS ARROW THROUGH X	2969	\rightleftharpoons	RIGHTWARDS HARPOON WITH BARB DOWN
		→ 2B3E ↔ leftwards arrow through x			ABOVE LEFTWARDS HARPOON WITH BARB DOWN
2948	↔	LEFT RIGHT ARROW THROUGH SMALL CIRCLE	296A	_	LEFTWARDS HARPOON WITH BARB UP ABOVE
2949		UPWARDS TWO-HEADED ARROW FROM SMALL CIRCLE	200/1		LONG DASH
Daul	ام ام		296B	=	LEFTWARDS HARPOON WITH BARB DOWN
294A		arbed harpoons LEFT BARB UP RIGHT BARB DOWN HARPOON	2000		BELOW LONG DASH
294A 294B		LEFT BARB DOWN RIGHT BARB UP HARPOON	296C	=	RIGHTWARDS HARPOON WITH BARB UP ABOVE LONG DASH
294C		UP BARB RIGHT DOWN BARB LEFT HARPOON	296D	=	RIGHTWARDS HARPOON WITH BARB DOWN
294D	ì	UP BARB LEFT DOWN BARB RIGHT HARPOON			BELOW LONG DASH
294E	_	LEFT BARB UP RIGHT BARB UP HARPOON	296E	11	UPWARDS HARPOON WITH BARB LEFT BESIDE
294F	t	UP BARB RIGHT DOWN BARB RIGHT HARPOON	296F	I.	DOWNWARDS HARPOON WITH BARB RIGHT DOWNWARDS HARPOON WITH BARB LEFT
2950	$\overline{}$	LEFT BARB DOWN RIGHT BARB DOWN HARPOON	290	11	BESIDE UPWARDS HARPOON WITH BARB RIGHT
2951	1	UP BARB LEFT DOWN BARB LEFT HARPOON			
Modif	fied	harpoons			eous arrow
2952		LEFTWARDS HARPOON WITH BARB UP TO BAR	2970		RIGHT DOUBLE ARROW WITH ROUNDED HEAD → 2283 ⊃ superset of
2953	-	RIGHTWARDS HARPOON WITH BARB UP TO	Δ		
2954	Τ.	BAR			mbined with relations
2954	7	UPWARDS HARPOON WITH BARB RIGHT TO BAR	2971	\Rightarrow	EQUALS SIGN ABOVE RIGHTWARDS ARROW → 2B40 ← equals sign above leftwards arrow
2955	Ţ	DOWNWARDS HARPOON WITH BARB RIGHT TO BAR	2972	$\stackrel{\sim}{\to}$	TILDE OPERATOR ABOVE RIGHTWARDS
2956		LEFTWARDS HARPOON WITH BARB DOWN TO BAR			ARROW → 2B41 ← reverse tilde operator above leftwards arrow
2957	→ I	RIGHTWARDS HARPOON WITH BARB DOWN TO BAR	2973	←	LEFTWARDS ARROW ABOVE TILDE OPERATOR
2958	7	UPWARDS HARPOON WITH BARB LEFT TO BAR			→ 2B4C ⇒ rightwards arrow above reverse tilde operator
2959	1	DOWNWARDS HARPOON WITH BARB LEFT TO BAR	2974	\Rightarrow	RIGHTWARDS ARROW ABOVE TILDE
295A	4	LEFTWARDS HARPOON WITH BARB UP FROM			OPERATOR → 2B4B ← leftwards arrow above reverse tilde
295B	\vdash	BAR RIGHTWARDS HARPOON WITH BARB UP FROM	2975	≅	operator RIGHTWARDS ARROW ABOVE ALMOST EQUAL
2050		BAR			TO
295C	1	UPWARDS HARPOON WITH BARB RIGHT FROM BAR			→ 2B42 ← leftwards arrow above reverse almost equal to

Fish tails

297C ← LEFT FISH TAIL
297D → RIGHT FISH TAIL
297E ↑ UP FISH TAIL
297F ↓ DOWN FISH TAIL