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 11.0*

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-11.0/ for charts showing only the characters added in Unicode 11.0.

See http://www.unicode.org/Public/11.0.0/charts/ for a complete archived file of character code charts for Unicode 11.0.

Disclaimer

These charts are provided as the online reference to the character contents of the Unicode Standard, Version 11.0 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 11.0, online at http://www.unicode.org/versions/Unicode11.0.0/, as well as Unicode Standard Annexes #9, #11, #14, #15, #24, #29, #31, #34, #38, #41, #42, #44, #45, and #50, the other Unicode Technical Reports and Standards, and the Unicode Character Database, which are available online.

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.

Terms of Use

You may freely use these code charts for personal or internal business uses only. You may not incorporate them either wholly or in part into any product or publication, or otherwise distribute them without express written permission from the Unicode Consortium. However, you may provide links to these charts.

The fonts and font data used in production of these code charts may NOT be extracted, or used in any other way in any product or publication, without permission or license granted by the typeface owner(s).

The Unicode Consortium is not liable for errors or omissions in this file or the standard itself. Information on characters added to the Unicode Standard since the publication of the most recent version of the Unicode Standard, as well as on characters currently being considered for addition to the Unicode Standard can be found on the Unicode web site.

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

Copyright © 1991-2018 Unicode, Inc. All rights reserved.

	290	291	292	293	294	295	296	297
0	- >> 2900	> >>	2920	2930	2940	2950	1 2960	2970
1	2901	2911	2921	2931	2941	1 2951	T 2961	= →
2	2902	7	2922	2932	← 2942	2952	2962	<u>~</u> →
3	2903	<u>1</u>	2923	→ 2933	← 2943	2953	11	← 2973
4	2904	2914	2924	 2934	→ 2944	2954	2964	~ →
5	2905	> >	2925	2935	+ 2945	<u></u>	2965	≈ 2975
6	2906	>	2926	2936	+ 2946	2956	2966	₹
7	2907	> }>	2927	2937	>>> 2947	2957	2967	← 2977
8	‡	> >> 2918	2928) 2938	←→ 2948	<u></u>	2968	→ 2978
9	1 2909	2919	2929	(2939	2949	2959	2969	→ 2979
Α	1 1 290A	>— 291A	292A	293A	294A	295A		← 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	 }
E	← 290E	→	292E	293E	294E	295E	1 296E	7
F	> 290F	◆← 291F	292F	993F	294F	295F	296F	J 297F

Miscellaneous arrows			2917	> >	RIGHTWARDS TWO-HEADED ARROW WITH		
2900		RIGHTWARDS TWO-HEADED ARROW WITH			TAIL WITH VERTICAL STROKE		
		VERTICAL STROKE			= z notation surjective injection → 2B3C		
		= z notation partial surjection			with vertical stroke		
		→ 2B34 « leftwards two-headed arrow with vertical stroke	2918	} >	RIGHTWARDS TWO-HEADED ARROW WITH		
2901	11>>	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	, tail			
2902	#	LEFTWARDS DOUBLE ARROW WITH VERTICAL			LEFTWARDS ARROW-TAIL		
		STROKE	2919 291A		RIGHTWARDS ARROW-TAIL		
2903	\Rightarrow	RIGHTWARDS DOUBLE ARROW WITH VERTICAL	291B		LEFTWARDS DOUBLE ARROW-TAIL		
2904	#	STROKE	291C		RIGHTWARDS DOUBLE ARROW-TAIL		
2904	₩	LEFT RIGHT DOUBLE ARROW WITH VERTICAL STROKE		llan	eous arrows		
2905	₩	RIGHTWARDS TWO-HEADED ARROW FROM	291D		LEFTWARDS ARROW TO BLACK DIAMOND		
		BAR	291E	→•	RIGHTWARDS ARROW TO BLACK DIAMOND		
		= maps to	291F	•↔	LEFTWARDS ARROW FROM BAR TO BLACK		
2906	∉	→ 2B36 ← leftwards two-headed arrow from bar LEFTWARDS DOUBLE ARROW FROM BAR			DIAMOND		
2300	T	= maps from	2920	→•	RIGHTWARDS ARROW FROM BAR TO BLACK DIAMOND		
		→ 27FB ← long leftwards arrow from bar	2921	Κ.	NORTH WEST AND SOUTH EAST ARROW		
2907	\Rightarrow	RIGHTWARDS DOUBLE ARROW FROM BAR	2922	Ž	NORTH EAST AND SOUTH WEST ARROW		
		= maps to	2923	5	NORTH WEST ARROW WITH HOOK		
2000		→ 27FC → long rightwards arrow from bar	2924	Ž	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 fth upwards quadruple arrow DOWNWARDS TRIPLE ARROW	2928	X	ARROW NORTH EAST ARROW AND SOUTH EAST		
2906	Ψ	→ 21D3 \$\psi\$ downwards double arrow	2320	\wedge	ARROW		
		→ 27F1 W downwards quadruple arrow	2929	X	SOUTH EAST ARROW AND SOUTH WEST		
290C	←-	LEFTWARDS DOUBLE DASH ARROW			ARROW		
290D	-→	RIGHTWARDS DOUBLE DASH ARROW	292A	X	SOUTH WEST ARROW AND NORTH WEST ARROW		
290E	←	LEFTWARDS TRIPLE DASH ARROW	292B	X	RISING DIAGONAL CROSSING FALLING		
290F	→	RIGHTWARDS TRIPLE DASH ARROW	LULD	^	DIAGONAL		
2910	> »	RIGHTWARDS TWO-HEADED TRIPLE DASH ARROW	292C	\times	FALLING DIAGONAL CROSSING RISING		
		→ 2B37 *- leftwards two-headed triple dash			DIAGONAL → 26CC X crossing lanes		
		arrow	292D	V	SOUTH EAST ARROW CROSSING NORTH EAST		
2911	>	RIGHTWARDS ARROW WITH DOTTED STEM	LULD	/7	ARROW		
2912	₹	→ 2B38 ← leftwards arrow with dotted stem UPWARDS ARROW TO BAR	292E	X	NORTH EAST ARROW CROSSING SOUTH EAST		
2913	ļ	DOWNWARDS ARROW TO BAR	292F	\ 7	ARROW FALLING DIAGONAL CROSSING NORTH EAST		
2914	→	RIGHTWARDS ARROW WITH TAIL WITH	2321	\wedge	ARROW		
		VERTICAL STROKE	2930	X	RISING DIAGONAL CROSSING SOUTH EAST		
		= z notation partial injection → 2B39 ← leftwards arrow with tail with vertical	0004		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	Miscellaneous curved arrows			
		vertical stroke	2933	\rightarrow	WAVE ARROW POINTING DIRECTLY RIGHT		
2916	>>>	RIGHTWARDS TWO-HEADED ARROW WITH			→ 219D ~ rightwards wave arrow		
		TAIL = bijective mapping	000 1		→ 2B3F ← wave arrow pointing directly left		
		= z notation bijection	2934	♪	ARROW POINTING RIGHTWARDS THEN CURVING UPWARDS		
		→ 2B3B «< leftwards two-headed arrow with tail	2935	→	ARROW POINTING RIGHTWARDS THEN		
				•	CURVING DOWNWARDS		

2936	Ų	ARROW POINTING DOWNWARDS THEN CURVING LEFTWARDS	295D	Ţ	DOWNWARDS HARPOON WITH BARB RIGHT FROM BAR
2937	4	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,	BOTTOM ARC ANTICLOCKWISE ARROW			BAR
293C	<u></u>	TOP ARC CLOCKWISE ARROW WITH MINUS	2961	1	DOWNWARDS HARPOON WITH BARB LEFT
293D	F	TOP ARC ANTICLOCKWISE ARROW WITH PLUS			FROM BAR
293E	k)	LOWER RIGHT SEMICIRCULAR CLOCKWISE	Paire	d ha	rpoons
	,0	ARROW	2962		LEFTWARDS HARPOON WITH BARB UP ABOVE
293F	G	LOWER LEFT SEMICIRCULAR ANTICLOCKWISE ARROW	2963	11	LEFTWARDS HARPOON WITH BARB DOWN UPWARDS HARPOON WITH BARB LEFT BESIDE
2940	Ó	ANTICLOCKWISE CLOSED CIRCLE ARROW	2964		UPWARDS HARPOON WITH BARB RIGHT
2941	Ò	→ 20DA © combining anticlockwise ring overlay CLOCKWISE CLOSED CIRCLE ARROW	2904	\Rightarrow	RIGHTWARDS HARPOON WITH BARB UP ABOVE RIGHTWARDS HARPOON WITH BARB
2541	O	→ 20D9 © combining clockwise ring overlay			DOWN
Ликоз		mbined with operators	2965	1	DOWNWARDS HARPOON WITH BARB LEFT
					BESIDE DOWNWARDS HARPOON WITH BARB
2942	↔	RIGHTWARDS ARROW ABOVE SHORT LEFTWARDS ARROW	2000	,	RIGHT
2943	←	LEFTWARDS ARROW ABOVE SHORT	2966	$\stackrel{\smile}{=}$	LEFTWARDS HARPOON WITH BARB UP ABOVE RIGHTWARDS HARPOON WITH BARB UP
		RIGHTWARDS ARROW	2967	=	LEFTWARDS HARPOON WITH BARB DOWN
2944	$\stackrel{\Rightarrow}{\leftarrow}$	SHORT RIGHTWARDS ARROW ABOVE LEFTWARDS ARROW			ABOVE RIGHTWARDS HARPOON WITH BARB DOWN
2945	\rightarrow	RIGHTWARDS ARROW WITH PLUS BELOW	2968	=	RIGHTWARDS HARPOON WITH BARB UP
2946	←+	LEFTWARDS ARROW WITH PLUS BELOW			ABOVE LEFTWARDS HARPOON WITH BARB UP
2947	*	RIGHTWARDS ARROW THROUGH X	2969	\rightleftharpoons	RIGHTWARDS HARPOON WITH BARB DOWN
		\rightarrow 2B3E \leftrightarrow 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	2307	_	LONG DASH
			296B	=	LEFTWARDS HARPOON WITH BARB DOWN
		arbed harpoons			BELOW LONG DASH
294A		LEFT BARB UP RIGHT BARB DOWN HARPOON	296C	\Rightarrow	RIGHTWARDS HARPOON WITH BARB UP
294B 294C	, -	LEFT BARB DOWN RIGHT BARB UP HARPOON	296D	_	ABOVE LONG DASH RIGHTWARDS HARPOON WITH BARB DOWN
294C 294D	\$ 1	UP BARB RIGHT DOWN BARB LEFT HARPOON UP BARB LEFT DOWN BARB RIGHT HARPOON	2300	$\overline{}$	BELOW LONG DASH
294E	ا -	LEFT BARB UP RIGHT BARB UP HARPOON	296E	11	UPWARDS HARPOON WITH BARB LEFT BESIDE
294F	t	UP BARB RIGHT DOWN BARB RIGHT HARPOON		.,	DOWNWARDS HARPOON WITH BARB RIGHT
2950	,	LEFT BARB DOWN RIGHT BARB DOWN	296F	11	DOWNWARDS HARPOON WITH BARB LEFT
		HARPOON			BESIDE UPWARDS HARPOON WITH BARB RIGHT
2951	1	UP BARB LEFT DOWN BARB LEFT HARPOON			
Modi	fied	harpoons			eous arrow
2952		LEFTWARDS HARPOON WITH BARB UP TO BAR	2970	$\overline{}$	RIGHT DOUBLE ARROW WITH ROUNDED HEAD
2953		RIGHTWARDS HARPOON WITH BARB UP TO			→ 2283 ⊃ superset of
		BAR	Arrov	vs co	mbined with relations
2954	7	UPWARDS HARPOON WITH BARB RIGHT TO	2971	\Longrightarrow	EQUALS SIGN ABOVE RIGHTWARDS ARROW
2955	l	BAR DOWNWARDS HARPOON WITH BARB RIGHT	0070		→ 2B40 ← equals sign above leftwards arrow
2333	ŀ	TO BAR	2972	$\stackrel{\sim}{\longrightarrow}$	TILDE OPERATOR ABOVE RIGHTWARDS ARROW
2956	⊬	LEFTWARDS HARPOON WITH BARB DOWN TO BAR			→ 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
2959	1	DOWNWARDS HARPOON WITH BARB LEFT TO	2974	\Rightarrow	operator RIGHTWARDS ARROW ABOVE TILDE
	7	BAR	-011	~′	OPERATOR
295A	\leftarrow	LEFTWARDS HARPOON WITH BARB UP FROM			→ 2B4B ← leftwards arrow above reverse tilde
0055		BAR	0075		operator
295B	<u> </u>	RIGHTWARDS HARPOON WITH BARB UP FROM BAR	2975	≈	RIGHTWARDS ARROW ABOVE ALMOST EQUAL TO
295C	1	UPWARDS HARPOON WITH BARB RIGHT FROM			→ 2B42 ← leftwards arrow above reverse almost
	-	BAR			equal to

Fish tails

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