

Supplemental Arrows-B

Range: 2900–297F

The Unicode Standard, Version 3.2

This file contains an excerpt from the character code tables and list of character names for *The Unicode Standard, Version 3.2*.

Characters in this chart that are new for The Unicode Standard, Version 3.2 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/charts> for access to a complete list of the latest character charts.

Disclaimer

These charts are provided as the on-line reference to the character contents of the Unicode Standard, Version 3.2 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 excerpt file, please consult the appropriate sections of The Unicode Standard, Version 3.0 (ISBN 0-201-61633-5), as well as Unicode Standard Annexes #28 and #27, the other Unicode Technical Reports and the Unicode Character Database, which are available on-line.

See <http://www.unicode.org/Public/UNIDATA/UnicodeCharacterDatabase.html> and <http://www.unicode.org/unicode/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/unicode/uni2book/u2fonts.html> for a list.

Terms of Use

































































































































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

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	290	291	292	293	294	295	296	297
0	 2900	 2910	 2920	 2930	 2940	 2950	 2960	 2970
1	 2901	 2911	 2921	 2931	 2941	 2951	 2961	 2971
2	 2902	 2912	 2922	 2932	 2942	 2952	 2962	 2972
3	 2903	 2913	 2923	 2933	 2943	 2953	 2963	 2973
4	 2904	 2914	 2924	 2934	 2944	 2954	 2964	 2974
5	 2905	 2915	 2925	 2935	 2945	 2955	 2965	 2975
6	 2906	 2916	 2926	 2936	 2946	 2956	 2966	 2976
7	 2907	 2917	 2927	 2937	 2947	 2957	 2967	 2977
8	 2908	 2918	 2928	 2938	 2948	 2958	 2968	 2978
9	 2909	 2919	 2929	 2939	 2949	 2959	 2969	 2979
A	 290A	 291A	 292A	 293A	 294A	 295A	 296A	 297A
B	 290B	 291B	 292B	 293B	 294B	 295B	 296B	 297B
C	 290C	 291C	 292C	 293C	 294C	 295C	 296C	 297C
D	 290D	 291D	 292D	 293D	 294D	 295D	 296D	 297D
E	 290E	 291E	 292E	 293E	 294E	 295E	 296E	 297E
F	 290F	 291F	 292F	 293F	 294F	 295F	 296F	 297F

Supplemental arrows

2900	➔	RIGHTWARDS TWO-HEADED ARROW WITH VERTICAL STROKE = z notation partial surjection	2918	➔	RIGHTWARDS TWO-HEADED ARROW WITH TAIL WITH DOUBLE VERTICAL STROKE = z notation finite surjective injection
2901	➔	RIGHTWARDS TWO-HEADED ARROW WITH DOUBLE VERTICAL STROKE = z notation finite surjection	2919	↔	LEFTWARDS ARROW-TAIL
2902	⇄	LEFTWARDS DOUBLE ARROW WITH VERTICAL STROKE	291A	↔	RIGHTWARDS ARROW-TAIL
2903	⇄	RIGHTWARDS DOUBLE ARROW WITH VERTICAL STROKE	291B	↔	LEFTWARDS DOUBLE ARROW-TAIL
2904	⇄	LEFT RIGHT DOUBLE ARROW WITH VERTICAL STROKE	291C	↔	RIGHTWARDS DOUBLE ARROW-TAIL
2905	➔	RIGHTWARDS TWO-HEADED ARROW FROM BAR = maps to	291D	➔	LEFTWARDS ARROW TO BLACK DIAMOND
2906	⇄	LEFTWARDS DOUBLE ARROW FROM BAR = maps from → 27FB ↔ long leftwards arrow from bar	291E	➔	RIGHTWARDS ARROW TO BLACK DIAMOND
2907	➔	RIGHTWARDS DOUBLE ARROW FROM BAR = maps to → 27FC ➔ long rightwards arrow from bar	291F	⇄	LEFTWARDS ARROW FROM BAR TO BLACK DIAMOND
2908	↓	DOWNWARDS ARROW WITH HORIZONTAL STROKE	2920	➔	RIGHTWARDS ARROW FROM BAR TO BLACK DIAMOND
2909	↑	UPWARDS ARROW WITH HORIZONTAL STROKE	2921	↖	NORTH WEST AND SOUTH EAST ARROW
290A	⇄	UPWARDS TRIPLE ARROW → 21D1 ⇄ upwards double arrow → 27F0 ⇄ upwards quadruple arrow	2922	↗	NORTH EAST AND SOUTH WEST ARROW
290B	⇄	DOWNWARDS TRIPLE ARROW → 21D3 ⇄ downwards double arrow → 27F1 ⇄ downwards quadruple arrow	2923	↖	NORTH WEST ARROW WITH HOOK
290C	↔	LEFTWARDS DOUBLE DASH ARROW	2924	↗	NORTH EAST ARROW WITH HOOK
290D	➔	RIGHTWARDS DOUBLE DASH ARROW	2925	↖	SOUTH EAST ARROW WITH HOOK
290E	↔	LEFTWARDS TRIPLE DASH ARROW	2926	↗	SOUTH WEST ARROW WITH HOOK
290F	➔	RIGHTWARDS TRIPLE DASH ARROW	2927	✕	NORTH WEST ARROW AND NORTH EAST ARROW
2910	➔	RIGHTWARDS TWO-HEADED TRIPLE DASH ARROW	2928	✕	NORTH EAST ARROW AND SOUTH EAST ARROW
2911	➔	RIGHTWARDS ARROW WITH DOTTED STEM	2929	✕	SOUTH EAST ARROW AND SOUTH WEST ARROW
2912	↑	UPWARDS ARROW TO BAR	292A	✕	SOUTH WEST ARROW AND NORTH WEST ARROW
2913	↓	DOWNWARDS ARROW TO BAR	292B	✕	RISING DIAGONAL CROSSING FALLING DIAGONAL
2914	➔	RIGHTWARDS ARROW WITH TAIL WITH VERTICAL STROKE = z notation partial injection	292C	✕	FALLING DIAGONAL CROSSING RISING DIAGONAL
2915	➔	RIGHTWARDS ARROW WITH TAIL WITH DOUBLE VERTICAL STROKE = z notation finite injection	292D	✕	SOUTH EAST ARROW CROSSING NORTH EAST ARROW
2916	➔	RIGHTWARDS TWO-HEADED ARROW WITH TAIL = bijective mapping	292E	✕	NORTH EAST ARROW CROSSING SOUTH EAST ARROW
2917	➔	RIGHTWARDS TWO-HEADED ARROW WITH TAIL WITH VERTICAL STROKE = z notation surjective injection	292F	✕	FALLING DIAGONAL CROSSING NORTH EAST ARROW
			2930	✕	RISING DIAGONAL CROSSING SOUTH EAST ARROW
			2931	✕	NORTH EAST ARROW CROSSING NORTH WEST ARROW
			2932	✕	NORTH WEST ARROW CROSSING NORTH EAST ARROW
			2933	↔	WAVE ARROW POINTING DIRECTLY RIGHT → 219D ↔ rightwards wave arrow
			2934	↗	ARROW POINTING RIGHTWARDS THEN CURVING UPWARDS
			2935	↘	ARROW POINTING RIGHTWARDS THEN CURVING DOWNWARDS
			2936	↙	ARROW POINTING DOWNWARDS THEN CURVING LEFTWARDS
			2937	↘	ARROW POINTING DOWNWARDS THEN CURVING RIGHTWARDS

2938	↻	RIGHT-SIDE ARC CLOCKWISE ARROW	2955	⤵	DOWNWARDS HARPOON WITH BARB RIGHT TO BAR
2939	↺	LEFT-SIDE ARC ANTICLOCKWISE ARROW	2956	↵	LEFTWARDS HARPOON WITH BARB DOWN TO BAR
293A	↶	TOP ARC ANTICLOCKWISE ARROW	2957	↷	RIGHTWARDS HARPOON WITH BARB DOWN TO BAR
293B	↷	BOTTOM ARC ANTICLOCKWISE ARROW	2958	⤴	UPWARDS HARPOON WITH BARB LEFT TO BAR
293C	↻	TOP ARC CLOCKWISE ARROW WITH MINUS	2959	⤵	DOWNWARDS HARPOON WITH BARB LEFT TO BAR
293D	↺	TOP ARC ANTICLOCKWISE ARROW WITH PLUS	295A	↵	LEFTWARDS HARPOON WITH BARB UP FROM BAR
293E	↻	LOWER RIGHT SEMICIRCULAR CLOCKWISE ARROW	295B	↷	RIGHTWARDS HARPOON WITH BARB UP FROM BAR
293F	↺	LOWER LEFT SEMICIRCULAR ANTICLOCKWISE ARROW	295C	⤴	UPWARDS HARPOON WITH BARB RIGHT FROM BAR
2940	⦿	ANTICLOCKWISE CLOSED CIRCLE ARROW → 20DA ☉ combining anticlockwise ring overlay	295D	⤵	DOWNWARDS HARPOON WITH BARB RIGHT FROM BAR
2941	⦿	CLOCKWISE CLOSED CIRCLE ARROW → 20D9 ☉ combining clockwise ring overlay	295E	↵	LEFTWARDS HARPOON WITH BARB DOWN FROM BAR
2942	↗	RIGHTWARDS ARROW ABOVE SHORT LEFTWARDS ARROW	295F	↷	RIGHTWARDS HARPOON WITH BARB DOWN FROM BAR
2943	↶	LEFTWARDS ARROW ABOVE SHORT RIGHTWARDS ARROW	2960	⤴	UPWARDS HARPOON WITH BARB LEFT FROM BAR
2944	↗	SHORT RIGHTWARDS ARROW ABOVE LEFTWARDS ARROW	2961	⤵	DOWNWARDS HARPOON WITH BARB LEFT FROM BAR
2945	↗	RIGHTWARDS ARROW WITH PLUS BELOW	2962	↵	LEFTWARDS HARPOON WITH BARB UP ABOVE LEFTWARDS HARPOON WITH BARB DOWN
2946	↶	LEFTWARDS ARROW WITH PLUS BELOW	2963	⤴	UPWARDS HARPOON WITH BARB LEFT BESIDE UPWARDS HARPOON WITH BARB RIGHT
2947	↗	RIGHTWARDS ARROW THROUGH X	2964	↵	RIGHTWARDS HARPOON WITH BARB UP ABOVE RIGHTWARDS HARPOON WITH BARB DOWN
2948	↔	LEFT RIGHT ARROW THROUGH SMALL CIRCLE	2965	⤵	DOWNWARDS HARPOON WITH BARB LEFT BESIDE DOWNWARDS HARPOON WITH BARB RIGHT
2949	↕	UPWARDS TWO-HEADED ARROW FROM SMALL CIRCLE	2966	↵	LEFTWARDS HARPOON WITH BARB UP ABOVE RIGHTWARDS HARPOON WITH BARB UP
294A	↶	LEFT BARB UP RIGHT BARB DOWN HARPOON	2967	↵	LEFTWARDS HARPOON WITH BARB DOWN ABOVE RIGHTWARDS HARPOON WITH BARB DOWN
294B	↷	LEFT BARB DOWN RIGHT BARB UP HARPOON	2968	↵	RIGHTWARDS HARPOON WITH BARB UP ABOVE LEFTWARDS HARPOON WITH BARB UP
294C	⤵	UP BARB RIGHT DOWN BARB LEFT HARPOON	2969	↵	RIGHTWARDS HARPOON WITH BARB DOWN ABOVE LEFTWARDS HARPOON WITH BARB DOWN
294D	⤴	UP BARB LEFT DOWN BARB RIGHT HARPOON	296A	↵	LEFTWARDS HARPOON WITH BARB UP ABOVE LONG DASH
294E	↶	LEFT BARB UP RIGHT BARB UP HARPOON	296B	↵	LEFTWARDS HARPOON WITH BARB DOWN BELOW LONG DASH
294F	⤴	UP BARB RIGHT DOWN BARB RIGHT HARPOON	296C	↵	RIGHTWARDS HARPOON WITH BARB UP ABOVE LONG DASH
2950	↶	LEFT BARB DOWN RIGHT BARB DOWN HARPOON	296D	↵	RIGHTWARDS HARPOON WITH BARB DOWN BELOW LONG DASH
2951	⤴	UP BARB LEFT DOWN BARB LEFT HARPOON			
2952	↵	LEFTWARDS HARPOON WITH BARB UP TO BAR			
2953	↷	RIGHTWARDS HARPOON WITH BARB UP TO BAR			
2954	⤴	UPWARDS HARPOON WITH BARB RIGHT TO BAR			

- 296E † UPWARDS HARPOON WITH BARB
LEFT BESIDE DOWNWARDS
HARPOON WITH BARB RIGHT
- 296F † DOWNWARDS HARPOON WITH BARB
LEFT BESIDE UPWARDS HARPOON
WITH BARB RIGHT
- 2970 ⇨ RIGHT DOUBLE ARROW WITH
ROUNDED HEAD
→ 2283 ⊃ superset of
- 2971 ⇨ EQUALS SIGN ABOVE RIGHTWARDS
ARROW
- 2972 ⇨ TILDE OPERATOR ABOVE
RIGHTWARDS ARROW
- 2973 ⇨ LEFTWARDS ARROW ABOVE TILDE
OPERATOR
- 2974 ⇨ RIGHTWARDS ARROW ABOVE TILDE
OPERATOR
- 2975 ⇨ RIGHTWARDS ARROW ABOVE
ALMOST EQUAL TO
- 2976 ⇨ LESS-THAN ABOVE LEFTWARDS
ARROW
- 2977 ⇨ LEFTWARDS ARROW THROUGH
LESS-THAN
- 2978 ⇨ GREATER-THAN ABOVE
RIGHTWARDS ARROW
- 2979 ⇨ SUBSET ABOVE RIGHTWARDS
ARROW
- 297A ⇨ LEFTWARDS ARROW THROUGH
SUBSET
- 297B ⇨ SUPERSET ABOVE LEFTWARDS
ARROW

Fish tails

- 297C ⇨ LEFT FISH TAIL
- 297D ⇨ RIGHT FISH TAIL
- 297E ⇨ UP FISH TAIL
- 297F ⇨ DOWN FISH TAIL