

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 14.0*

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-14.0/> for charts showing only the characters added in Unicode 14.0.
See <https://www.unicode.org/Public/14.0.0/charts/> for a complete archived file of character code charts for Unicode 14.0.

Disclaimer

These charts are provided as the online reference to the character contents of the Unicode Standard, Version 14.0 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 14.0, online at <https://www.unicode.org/versions/Unicode14.0.0/>, 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 <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.

Copying characters from the character code tables or list of character names is not recommended, because for production reasons the PDF files for the code charts cannot guarantee that the correct character codes will always be copied.

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

Terms of Use

































































































































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

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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

Miscellaneous arrows

- 2900 ⇨ RIGHTWARDS TWO-HEADED ARROW WITH VERTICAL STROKE
= z notation partial surjection
→ 2B34 ⇐ leftwards two-headed arrow with vertical stroke
- 2901 ⇨ RIGHTWARDS TWO-HEADED ARROW WITH DOUBLE VERTICAL STROKE
= z notation finite surjection
→ 2B35 ⇐ leftwards two-headed arrow with double vertical stroke
- 2902 ⇐ LEFTWARDS DOUBLE ARROW WITH VERTICAL STROKE
- 2903 ⇨ RIGHTWARDS DOUBLE ARROW WITH VERTICAL STROKE
- 2904 ⇐ LEFT RIGHT DOUBLE ARROW WITH VERTICAL STROKE
- 2905 ↗ RIGHTWARDS TWO-HEADED ARROW FROM BAR
= maps to
→ 2B36 ⇐ leftwards two-headed arrow from bar
- 2906 ⇐ LEFTWARDS DOUBLE ARROW FROM BAR
= maps from
→ 27FB ← long leftwards arrow from bar
- 2907 ⇨ RIGHTWARDS DOUBLE ARROW FROM BAR
= maps to
→ 27FC → long rightwards arrow from bar
- 2908 ↓ DOWNWARDS ARROW WITH HORIZONTAL STROKE
- 2909 ↑ UPWARDS ARROW WITH HORIZONTAL STROKE
- 290A ↑↑ UPWARDS TRIPLE ARROW
→ 21D1 ↑ upwards double arrow
→ 27F0 ↑↑ upwards quadruple arrow
- 290B ↓↓ DOWNWARDS TRIPLE ARROW
→ 21D3 ↓ downwards double arrow
→ 27F1 ↓↓ downwards quadruple arrow
- 290C ←← LEFTWARDS DOUBLE DASH ARROW
- 290D →→ RIGHTWARDS DOUBLE DASH ARROW
- 290E ←←← LEFTWARDS TRIPLE DASH ARROW
- 290F →→→ RIGHTWARDS TRIPLE DASH ARROW
- 2910 ⇨⇨⇨ RIGHTWARDS TWO-HEADED TRIPLE DASH ARROW
→ 2B37 ⇐⇐⇐ leftwards two-headed triple dash arrow
- 2911 ⇨⇨ RIGHTWARDS ARROW WITH DOTTED STEM
→ 2B38 ⇐⇐ leftwards arrow with dotted stem
- 2912 ↑ UPWARDS ARROW TO BAR
- 2913 ↓ DOWNWARDS ARROW TO BAR
- 2914 ⇨⇨ RIGHTWARDS ARROW WITH TAIL WITH VERTICAL STROKE
= z notation partial injection
→ 2B39 ⇐⇐ leftwards arrow with tail with vertical stroke
- 2915 ⇨⇨⇨ RIGHTWARDS ARROW WITH TAIL WITH DOUBLE VERTICAL STROKE
= z notation finite injection
→ 2B3A ⇐⇐⇐ leftwards arrow with tail with double vertical stroke
- 2916 ⇨⇨ RIGHTWARDS TWO-HEADED ARROW WITH TAIL
= bijective mapping
= z notation bijection
→ 2B3B ⇐⇐ leftwards two-headed arrow with tail

- 2917 ⇨⇨ RIGHTWARDS TWO-HEADED ARROW WITH TAIL WITH VERTICAL STROKE
= z notation surjective injection
→ 2B3C ⇐⇐ leftwards two-headed arrow with tail with vertical stroke
- 2918 ⇨⇨⇨ RIGHTWARDS TWO-HEADED ARROW WITH TAIL WITH DOUBLE VERTICAL STROKE
= z notation finite surjective injection
→ 2B3D ⇐⇐⇐ leftwards two-headed arrow with tail with double vertical stroke

Arrow tails

- 2919 ↗ LEFTWARDS ARROW-TAIL
- 291A ↘ RIGHTWARDS ARROW-TAIL
- 291B ↙ LEFTWARDS DOUBLE ARROW-TAIL
- 291C ↘ RIGHTWARDS DOUBLE ARROW-TAIL

Miscellaneous arrows

- 291D ←← LEFTWARDS ARROW TO BLACK DIAMOND
- 291E →→ RIGHTWARDS ARROW TO BLACK DIAMOND
- 291F ⇐⇐ LEFTWARDS ARROW FROM BAR TO BLACK DIAMOND
- 2920 ⇨⇨ RIGHTWARDS ARROW FROM BAR TO BLACK DIAMOND
- 2921 ↖ NORTH WEST AND SOUTH EAST ARROW
- 2922 ↗ NORTH EAST AND SOUTH WEST ARROW
- 2923 ↖ NORTH WEST ARROW WITH HOOK
- 2924 ↗ NORTH EAST ARROW WITH HOOK
- 2925 ↘ SOUTH EAST ARROW WITH HOOK
- 2926 ↙ SOUTH WEST ARROW WITH HOOK

Crossing arrows for knot theory

- 2927 ✕ NORTH WEST ARROW AND NORTH EAST ARROW
- 2928 ✕ NORTH EAST ARROW AND SOUTH EAST ARROW
- 2929 ✕ SOUTH EAST ARROW AND SOUTH WEST ARROW
- 292A ✕ SOUTH WEST ARROW AND NORTH WEST ARROW
- 292B ✕ RISING DIAGONAL CROSSING FALLING DIAGONAL
- 292C ✕ FALLING DIAGONAL CROSSING RISING DIAGONAL
→ 26CC ✕ crossing lanes
- 292D ✕ SOUTH EAST ARROW CROSSING NORTH EAST ARROW
- 292E ✕ NORTH EAST ARROW CROSSING SOUTH EAST ARROW
- 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

Miscellaneous curved arrows

- 2933 ↪ WAVE ARROW POINTING DIRECTLY RIGHT
→ 219D ↪ rightwards wave arrow
→ 2B3F ↪ wave arrow pointing directly left
- 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
2939	↶	LEFT-SIDE ARC ANTICLOCKWISE ARROW
293A	↶	TOP ARC ANTICLOCKWISE ARROW
293B	↶	BOTTOM ARC ANTICLOCKWISE ARROW
293C	↷	TOP ARC CLOCKWISE ARROW WITH MINUS
293D	↷	TOP ARC ANTICLOCKWISE ARROW WITH PLUS
293E	↷	LOWER RIGHT SEMICIRCULAR CLOCKWISE ARROW
293F	↶	LOWER LEFT SEMICIRCULAR ANTICLOCKWISE ARROW
2940	↺	ANTICLOCKWISE CLOSED CIRCLE ARROW → 20DA ☉ combining anticlockwise ring overlay
2941	↻	CLOCKWISE CLOSED CIRCLE ARROW → 20D9 ☻ combining clockwise ring overlay

Arrows combined with operators

2942	↔	RIGHTWARDS ARROW ABOVE SHORT LEFTWARDS ARROW
2943	↔	LEFTWARDS ARROW ABOVE SHORT RIGHTWARDS ARROW
2944	↔	SHORT RIGHTWARDS ARROW ABOVE LEFTWARDS ARROW
2945	↔	RIGHTWARDS ARROW WITH PLUS BELOW
2946	↔	LEFTWARDS ARROW WITH PLUS BELOW
2947	↔	RIGHTWARDS ARROW THROUGH X → 2B3E ↔ leftwards arrow through x
2948	↔	LEFT RIGHT ARROW THROUGH SMALL CIRCLE
2949	↕	UPWARDS TWO-HEADED ARROW FROM SMALL CIRCLE

Double-barbed harpoons

294A	↔	LEFT BARB UP RIGHT BARB DOWN HARPOON
294B	↔	LEFT BARB DOWN RIGHT BARB UP HARPOON
294C	↕	UP BARB RIGHT DOWN BARB LEFT HARPOON
294D	↕	UP BARB LEFT DOWN BARB RIGHT HARPOON
294E	↔	LEFT BARB UP RIGHT BARB UP HARPOON
294F	↕	UP BARB RIGHT DOWN BARB RIGHT HARPOON
2950	↔	LEFT BARB DOWN RIGHT BARB DOWN HARPOON
2951	↕	UP BARB LEFT DOWN BARB LEFT HARPOON

Modified harpoons

2952	↔	LEFTWARDS HARPOON WITH BARB UP TO BAR
2953	↔	RIGHTWARDS HARPOON WITH BARB UP TO BAR
2954	↕	UPWARDS HARPOON WITH BARB RIGHT TO BAR
2955	↕	DOWNWARDS HARPOON WITH BARB RIGHT TO BAR
2956	↔	LEFTWARDS HARPOON WITH BARB DOWN TO BAR
2957	↔	RIGHTWARDS HARPOON WITH BARB DOWN TO BAR
2958	↕	UPWARDS HARPOON WITH BARB LEFT TO BAR
2959	↕	DOWNWARDS HARPOON WITH BARB LEFT TO BAR
295A	↔	LEFTWARDS HARPOON WITH BARB UP FROM BAR
295B	↔	RIGHTWARDS HARPOON WITH BARB UP FROM BAR
295C	↕	UPWARDS HARPOON WITH BARB RIGHT FROM BAR

295D	↕	DOWNWARDS HARPOON WITH BARB RIGHT FROM BAR
295E	↔	LEFTWARDS HARPOON WITH BARB DOWN FROM BAR
295F	↔	RIGHTWARDS HARPOON WITH BARB DOWN FROM BAR
2960	↕	UPWARDS HARPOON WITH BARB LEFT FROM BAR
2961	↕	DOWNWARDS HARPOON WITH BARB LEFT FROM BAR

Paired harpoons

2962	↔	LEFTWARDS HARPOON WITH BARB UP ABOVE LEFTWARDS HARPOON WITH BARB DOWN
2963	↕	UPWARDS HARPOON WITH BARB LEFT BESIDE UPWARDS HARPOON WITH BARB RIGHT
2964	↔	RIGHTWARDS HARPOON WITH BARB UP ABOVE RIGHTWARDS HARPOON WITH BARB DOWN
2965	↕	DOWNWARDS HARPOON WITH BARB LEFT BESIDE DOWNWARDS HARPOON WITH BARB RIGHT
2966	↔	LEFTWARDS HARPOON WITH BARB UP ABOVE RIGHTWARDS HARPOON WITH BARB UP
2967	↔	LEFTWARDS HARPOON WITH BARB DOWN ABOVE RIGHTWARDS HARPOON WITH BARB DOWN
2968	↔	RIGHTWARDS HARPOON WITH BARB UP ABOVE LEFTWARDS HARPOON WITH BARB UP
2969	↔	RIGHTWARDS HARPOON WITH BARB DOWN ABOVE LEFTWARDS HARPOON WITH BARB DOWN
296A	↔	LEFTWARDS HARPOON WITH BARB UP ABOVE LONG DASH
296B	↔	LEFTWARDS HARPOON WITH BARB DOWN BELOW LONG DASH
296C	↔	RIGHTWARDS HARPOON WITH BARB UP ABOVE LONG DASH
296D	↔	RIGHTWARDS HARPOON WITH BARB DOWN BELOW LONG DASH
296E	↕	UPWARDS HARPOON WITH BARB LEFT BESIDE DOWNWARDS HARPOON WITH BARB RIGHT
296F	↕	DOWNWARDS HARPOON WITH BARB LEFT BESIDE UPWARDS HARPOON WITH BARB RIGHT

Miscellaneous arrow

2970	⇒	RIGHT DOUBLE ARROW WITH ROUNDED HEAD → 2283 ▷ superset of
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Arrows combined with relations

2971	⇒	EQUALS SIGN ABOVE RIGHTWARDS ARROW → 2B40 ⇌ equals sign above leftwards arrow
2972	⇒	TILDE OPERATOR ABOVE RIGHTWARDS ARROW → 2B41 ⇌ reverse tilde operator above leftwards arrow
2973	⇌	LEFTWARDS ARROW ABOVE TILDE OPERATOR → 2B4C ⇌ rightwards arrow above reverse tilde operator
2974	⇒	RIGHTWARDS ARROW ABOVE TILDE OPERATOR → 2B4B ⇌ leftwards arrow above reverse tilde operator
2975	⇒	RIGHTWARDS ARROW ABOVE ALMOST EQUAL TO → 2B42 ⇌ leftwards arrow above reverse almost equal to

2976	↖	LESS-THAN ABOVE LEFTWARDS ARROW
2977	↔	LEFTWARDS ARROW THROUGH LESS-THAN → 2B43 ↔ rightwards arrow through greater-than
2978	↗	GREATER-THAN ABOVE RIGHTWARDS ARROW
2979	⊆	SUBSET ABOVE RIGHTWARDS ARROW
297A	↔	LEFTWARDS ARROW THROUGH SUBSET → 2B44 ↔ rightwards arrow through superset
297B	⊇	SUPERSET ABOVE LEFTWARDS ARROW

Fish tails

297C	↵	LEFT FISH TAIL
297D	↶	RIGHT FISH TAIL
297E	↱	UP FISH TAIL
297F	↴	DOWN FISH TAIL