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 13.0

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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-13.0/ for charts showing only the characters added in Unicode 13.0. See http://www.unicode.org/Public/13.0.0/charts/ for a complete archived file of character code charts for Unicode 13.0.

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### Miscellaneous arrows

2900  ➡️ RIGHTWARDS TWO-HEADED ARROW WITH VERTICAL STROKE  
= z notation partial surjection  
→ 2B36 ➡️ leftwards two-headed arrow from bar  
2901  ➡️ RIGHTWARDS TWO-HEADED ARROW WITH DOUBLE VERTICAL STROKE  
= z notation surjective injection  
→ 2B34 ➡️ leftwards two-headed arrow with 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  
→ 2B3E ➡️ leftwards two-headed arrow from bar  
2906  ⬅️ LEFTWARDS DOUBLE ARROW FROM BAR  
= maps from  
→ 27F0 ⬅️ 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  
290B  ⤤ DOWNWARDS TRIPLE ARROW  
→ 21D3 ⤤ downwards double 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  
→ 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  
→ 2B31 ↞ 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
2941 ⤙ CLOCKWISE CLOSED CIRCLE ARROW

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 LEFTWARDS ARROW
2946 ⤤ LEFTWARDS ARROW WITH PLUS BELOW RIGHTWARDS ARROW
2947 ⤥ RIGHTWARDS 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 UP
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 DOWN

Arrows combined with relations
2966 ⤵ LEFTWARDS HARPOON WITH BARB UP ABOVE LEFTWARDS 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 LEFTWARDS HARPOON WITH BARB LEFT
296B ⤺ LEFTWARDS HARPOON WITH BARB DOWN ABOVE RIGHTWARDS HARPOON WITH BARB DOWN
296C ⤻ RIGHTWARDS HARPOON WITH BARB UP ABOVE LEFTWARDS HARPOON WITH BARB LEFT
296D ⤼ RIGHTWARDS HARPOON WITH BARB DOWN ABOVE RIGHTWARDS HARPOON WITH BARB LEFT
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

Arrows combined with relations
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

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**Fish tails**

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