

## Arrows

**Range: 2190–21FF**

This file contains an excerpt from the character code tables and list of character names for  
*The Unicode Standard, Version 8.0*

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-8.0/> for charts showing only the characters added in Unicode 8.0.  
See <http://www.unicode.org/Public/8.0.0/charts/> for a complete archived file of character code charts for Unicode 8.0.

## Disclaimer

These charts are provided as the online reference to the character contents of the Unicode Standard, Version 8.0 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 8.0, online at <http://www.unicode.org/versions/Unicode8.0.0/>, as well as Unicode Standard Annexes #9, #11, #14, #15, #24, #29, #31, #34, #38, #41, #42, #44, and #45, 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 © 1991–2015 Unicode, Inc. All rights reserved.*

	219	21A	21B	21C	21D	21E	21F
0	 2190	 21A0	 21B0	 21C0	 21D0	 21E0	 21F0
1	 2191	 21A1	 21B1	 21C1	 21D1	 21E1	 21F1
2	 2192	 21A2	 21B2	 21C2	 21D2	 21E2	 21F2
3	 2193	 21A3	 21B3	 21C3	 21D3	 21E3	 21F3
4	 2194	 21A4	 21B4	 21C4	 21D4	 21E4	 21F4
5	 2195	 21A5	 21B5	 21C5	 21D5	 21E5	 21F5
6	 2196	 21A6	 21B6	 21C6	 21D6	 21E6	 21F6
7	 2197	 21A7	 21B7	 21C7	 21D7	 21E7	 21F7
8	 2198	 21A8	 21B8	 21C8	 21D8	 21E8	 21F8
9	 2199	 21A9	 21B9	 21C9	 21D9	 21E9	 21F9
A	 219A	 21AA	 21BA	 21CA	 21DA	 21EA	 21FA
B	 219B	 21AB	 21BB	 21CB	 21DB	 21EB	 21FB
C	 219C	 21AC	 21BC	 21CC	 21DC	 21EC	 21FC
D	 219D	 21AD	 21BD	 21CD	 21DD	 21ED	 21FD
E	 219E	 21AE	 21BE	 21CE	 21DE	 21EE	 21FE
F	 219F	 21AF	 21BF	 21CF	 21DF	 21EF	 21FF

**Simple arrows**

2190	←	LEFTWARDS ARROW	→ 20EA ⇌ combining leftwards arrow overlay
2191	↑	UPWARDS ARROW	• IPA: egressive airflow
2192	→	RIGHTWARDS ARROW	= z notation total function
2193	↓	DOWNWARDS ARROW	• IPA: ingressive airflow
2194	↔	LEFT RIGHT ARROW	= z notation relation ~ 2194 FE0E text style ~ 2194 FE0F emoji style
2195	↕	UP DOWN ARROW	~ 2195 FE0E text style ~ 2195 FE0F emoji style
2196	↖	NORTH WEST ARROW	~ 2196 FE0E text style ~ 2196 FE0F emoji style
2197	↗	NORTH EAST ARROW	~ 2197 FE0E text style ~ 2197 FE0F emoji style
2198	↘	SOUTH EAST ARROW	~ 2198 FE0E text style ~ 2198 FE0F emoji style
2199	↙	SOUTH WEST ARROW	~ 2199 FE0E text style ~ 2199 FE0F emoji style

**Arrows with modifications**

219A	↔	LEFTWARDS ARROW WITH STROKE	• negation of 2190 ← ≡ 2190 ← 0338 ∅
219B	↔	RIGHTWARDS ARROW WITH STROKE	• negation of 2192 → ≡ 2192 → 0338 ∅
219C	↔	LEFTWARDS WAVE ARROW	→ 2B3F ↔ wave arrow pointing directly left
219D	↔	RIGHTWARDS WAVE ARROW	
219E	↔	LEFTWARDS TWO HEADED ARROW	= fast cursor left → 2BEC ↔ leftwards two-headed arrow with triangle arrowheads
219F	↕	UPWARDS TWO HEADED ARROW	= fast cursor up
21A0	↔	RIGHTWARDS TWO HEADED ARROW	= z notation total surjection = fast cursor right
21A1	↓	DOWNWARDS TWO HEADED ARROW	= form feed = fast cursor down
21A2	←	LEFTWARDS ARROW WITH TAIL	
21A3	→	RIGHTWARDS ARROW WITH TAIL	= z notation total injection
21A4	←	LEFTWARDS ARROW FROM BAR	
21A5	↑	UPWARDS ARROW FROM BAR	
21A6	→	RIGHTWARDS ARROW FROM BAR	= z notation maplet
21A7	↓	DOWNWARDS ARROW FROM BAR	= depth symbol
21A8	↕	UP DOWN ARROW WITH BASE	
21A9	↔	LEFTWARDS ARROW WITH HOOK	~ 21A9 FE0E text style ~ 21A9 FE0F emoji style

21AA	↔	RIGHTWARDS ARROW WITH HOOK	~ 21AA FE0E text style ~ 21AA FE0F emoji style
21AB	↔	LEFTWARDS ARROW WITH LOOP	
21AC	↔	RIGHTWARDS ARROW WITH LOOP	
21AD	↔	LEFT RIGHT WAVE ARROW	
21AE	↔	LEFT RIGHT ARROW WITH STROKE	• negation of 2194 ↔ ≡ 2194 ↔ 0338 ∅
21AF	↔	DOWNWARDS ZIGZAG ARROW	= electrolysis → 2B4D ↘ downwards triangle-headed zigzag arrow

**Arrows with bent tips**

*Other arrows with bent tips to complete this set can be found in the Miscellaneous Symbols and Arrows block.*

21B0	↖	UPWARDS ARROW WITH TIP LEFTWARDS	
21B1	↗	UPWARDS ARROW WITH TIP RIGHTWARDS	
21B2	↘	DOWNWARDS ARROW WITH TIP LEFTWARDS	
21B3	↙	DOWNWARDS ARROW WITH TIP RIGHTWARDS	

**Keyboard symbols and circle arrows**

21B4	↵	RIGHTWARDS ARROW WITH CORNER DOWNWARDS	= line feed
21B5	↵	DOWNWARDS ARROW WITH CORNER LEFTWARDS	• may indicate a carriage return or new line → 23CE ↵ return symbol
21B6	↶	ANTICLOCKWISE TOP SEMICIRCLE ARROW	
21B7	↷	CLOCKWISE TOP SEMICIRCLE ARROW	
21B8	↖	NORTH WEST ARROW TO LONG BAR	= home
21B9	↵	LEFTWARDS ARROW TO BAR OVER RIGHTWARDS ARROW TO BAR	= tab with shift tab → 2B7E ↵ horizontal tab key
21BA	↶	ANTICLOCKWISE OPEN CIRCLE ARROW	
21BB	↷	CLOCKWISE OPEN CIRCLE ARROW	

**Harpoons**

21BC	↔	LEFTWARDS HARPOON WITH BARB UPWARDS	
21BD	↔	LEFTWARDS HARPOON WITH BARB DOWNWARDS	
21BE	↗	UPWARDS HARPOON WITH BARB RIGHTWARDS	
21BF	↖	UPWARDS HARPOON WITH BARB LEFTWARDS	
21C0	↔	RIGHTWARDS HARPOON WITH BARB UPWARDS	
21C1	↔	RIGHTWARDS HARPOON WITH BARB DOWNWARDS	
21C2	↘	DOWNWARDS HARPOON WITH BARB RIGHTWARDS	
21C3	↙	DOWNWARDS HARPOON WITH BARB LEFTWARDS	

**Paired arrows and harpoons**

21C4	↔	RIGHTWARDS ARROW OVER LEFTWARDS ARROW	
21C5	↕	UPWARDS ARROW LEFTWARDS OF DOWNWARDS ARROW	
21C6	↔	LEFTWARDS ARROW OVER RIGHTWARDS ARROW	
21C7	↔	LEFTWARDS PAIRED ARROWS	
21C8	↕	UPWARDS PAIRED ARROWS	

- 21C9 ⇒ RIGHTWARDS PAIRED ARROWS  
 21CA ⇓ DOWNWARDS PAIRED ARROWS  
 21CB ⇐ LEFTWARDS HARPOON OVER RIGHTWARDS HARPOON  
 21CC ⇐ RIGHTWARDS HARPOON OVER LEFTWARDS HARPOON

**Double arrows**

- 21CD ⇐ LEFTWARDS DOUBLE ARROW WITH STROKE  
 • negation of 21D0 ⇐  
 ≡ 21D0 ⇐ 0338 ∅  
 21CE ⇐ LEFT RIGHT DOUBLE ARROW WITH STROKE  
 • negation of 21D4 ⇐  
 ≡ 21D4 ⇐ 0338 ∅  
 21CF ⇒ RIGHTWARDS DOUBLE ARROW WITH STROKE  
 • negation of 21D2 ⇒  
 ≡ 21D2 ⇒ 0338 ∅  
 21D0 ⇐ LEFTWARDS DOUBLE ARROW  
 21D1 ⇑ UPWARDS DOUBLE ARROW  
 21D2 ⇒ RIGHTWARDS DOUBLE ARROW  
 21D3 ⇓ DOWNWARDS DOUBLE ARROW  
 21D4 ⇐ LEFT RIGHT DOUBLE ARROW  
 21D5 ⇑ UP DOWN DOUBLE ARROW  
 21D6 ↖ NORTH WEST DOUBLE ARROW  
 21D7 ↗ NORTH EAST DOUBLE ARROW  
 21D8 ↘ SOUTH EAST DOUBLE ARROW  
 21D9 ↙ SOUTH WEST DOUBLE ARROW

**Miscellaneous arrows and keyboard symbols**

- 21DA ⇐ LEFTWARDS TRIPLE ARROW  
 21DB ⇒ RIGHTWARDS TRIPLE ARROW  
 21DC ⇐ LEFTWARDS SQUIGGLE ARROW  
 → 2B33 ⇐ long leftwards squiggle arrow  
 21DD ⇐ RIGHTWARDS SQUIGGLE ARROW  
 21DE ⇑ UPWARDS ARROW WITH DOUBLE STROKE  
 = page up  
 21DF ⇓ DOWNWARDS ARROW WITH DOUBLE STROKE  
 = page down  
 21E0 ⇐ LEFTWARDS DASHED ARROW  
 21E1 ⇑ UPWARDS DASHED ARROW  
 21E2 ⇐ RIGHTWARDS DASHED ARROW  
 21E3 ⇓ DOWNWARDS DASHED ARROW  
 21E4 ⇐ LEFTWARDS ARROW TO BAR  
 = leftward tab  
 21E5 → RIGHTWARDS ARROW TO BAR  
 = rightward tab

**White arrows and keyboard symbols**

- 21E6 ⇐ LEFTWARDS WHITE ARROW  
 → 2B00 ↗ north east white arrow  
 21E7 ⇑ UPWARDS WHITE ARROW  
 = shift  
 = level 2 select (ISO 9995-7)  
 21E8 ⇐ RIGHTWARDS WHITE ARROW  
 = group select (ISO 9995-7)  
 21E9 ⇓ DOWNWARDS WHITE ARROW  
 21EA ⇑ UPWARDS WHITE ARROW FROM BAR  
 = caps lock  
 21EB ⇑ UPWARDS WHITE ARROW ON PEDESTAL  
 = level 2 lock  
 21EC ⇑ UPWARDS WHITE ARROW ON PEDESTAL WITH HORIZONTAL BAR  
 = capitals (caps) lock  
 → 2BB8 ⇑ upwards white arrow from bar with horizontal bar

- 21ED ⇑ UPWARDS WHITE ARROW ON PEDESTAL WITH VERTICAL BAR  
 = numeric lock  
 21EE ⇑ UPWARDS WHITE DOUBLE ARROW  
 = level 3 select  
 21EF ⇑ UPWARDS WHITE DOUBLE ARROW ON PEDESTAL  
 = level 3 lock  
 21F0 ⇐ RIGHTWARDS WHITE ARROW FROM WALL  
 = group lock  
 21F1 ↖ NORTH WEST ARROW TO CORNER  
 = home  
 21F2 ↘ SOUTH EAST ARROW TO CORNER  
 = end  
 21F3 ⇑ UP DOWN WHITE ARROW  
 = scrolling  
 → 2B04 ⇐ left right white arrow

**Miscellaneous arrows**

- 21F4 ⇐ RIGHT ARROW WITH SMALL CIRCLE  
 → 2B30 ⇐ left arrow with small circle  
 21F5 ⇓ DOWNWARDS ARROW LEFTWARDS OF UPWARDS ARROW  
 21F6 ⇐ THREE RIGHTWARDS ARROWS  
 → 2B31 ⇐ three leftwards arrows  
 21F7 ⇐ LEFTWARDS ARROW WITH VERTICAL STROKE  
 21F8 ⇐ RIGHTWARDS ARROW WITH VERTICAL STROKE  
 = z notation partial function  
 21F9 ⇐ LEFT RIGHT ARROW WITH VERTICAL STROKE  
 = z notation partial relation  
 21FA ⇐ LEFTWARDS ARROW WITH DOUBLE VERTICAL STROKE  
 21FB ⇐ RIGHTWARDS ARROW WITH DOUBLE VERTICAL STROKE  
 = z notation finite function  
 21FC ⇐ LEFT RIGHT ARROW WITH DOUBLE VERTICAL STROKE  
 = z notation finite relation  
 21FD ⇐ LEFTWARDS OPEN-HEADED ARROW  
 21FE → RIGHTWARDS OPEN-HEADED ARROW  
 21FF ⇐ LEFT RIGHT OPEN-HEADED ARROW