

## **Arrows**

**Range: 2190–21FF**

This file contains an excerpt from the character code tables and list of character names for *The Unicode Standard, Version 10.0*

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-10.0/> for charts showing only the characters added in Unicode 10.0.  
See <http://www.unicode.org/Public/10.0.0/charts/> for a complete archived file of character code charts for Unicode 10.0.

## **Disclaimer**

These charts are provided as the online reference to the character contents of the Unicode Standard, Version 10.0 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 10.0, online at <http://www.unicode.org/versions/Unicode10.0.0/>, 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.

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















































































































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

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	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
- 2195 ⇕ UP DOWN ARROW
- 2196 ↖ NORTH WEST ARROW
- 2197 ↗ NORTH EAST ARROW
- 2198 ↘ SOUTH EAST ARROW
- 2199 ↙ SOUTH WEST ARROW

**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
- 21AA ⇐ RIGHTWARDS ARROW WITH HOOK
- 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