

Arrows

Range: 2190–21FF

DRAFT The Unicode Standard, Version 16.0 BETA REVIEW

This file contains an excerpt from the character code tables and list of character names for *DRAFT The Unicode Standard, Version 16.0 BETA REVIEW*

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-15.1/> for charts showing only the characters added in Unicode 15.1. See <https://www.unicode.org/Public/15.1.0/charts/> for a complete archived file of character code charts for Unicode 15.1. See <https://www.unicode.org/charts/About.html#Conventions> for conventions used in these code charts, and other general information.

Disclaimer

These charts are provided as the online reference to the character contents of the Unicode Standard, Version 15.1 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 15.1, online at <https://www.unicode.org/versions/Unicode15.1.0/>, 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 <http://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

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

See <https://www.unicode.org/charts/About.html> for more information concerning the conventions and symbols used in these code charts.

Copyright © 1991–2023 Unicode, Inc. All rights reserved. See <https://www.unicode.org/copyright.html>

	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
→ 1F8C0 ⇩ leftwards arrow from downwards arrow
- 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
→ 1FBB4 ⇩ inverse 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