## Supplemental Arrows-A
## Range: 27F0–27FF

## The Unicode Standard, Version 3.2

This file contains an excerpt from the character code tables and list of character names for
*The Unicode Standard, Version 3.2.*

Characters in this chart that are new for The Unicode Standard, Version 3.2 are shown in conjunction with any existing characters. For ease of reference, the new characters have been highlighted in the chart grid and in the names list.

This file will not be updated with errata, or when additional characters are assigned to the Unicode Standard. See http://www.unicode.org/charts for access to a complete list of the latest character charts.

## Disclaimer

These charts are provided as the on-line reference to the character contents of the Unicode Standard, Version 3.2 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 excerpt file, please consult the appropriate sections of The Unicode Standard, Version 3.0 (ISBN 0-201-61633-5), as well as Unicode Standard Annexes #28 and #27, the other Unicode Technical Reports and the Unicode Character Database, which are available on-line.

*See http://www.unicode.org/Public/UNIDATA/UnicodeCharacterDatabase.html and*
*http://www.unicode.org/unicode/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/unicode/uni2book/u2fonts.html for a list.*
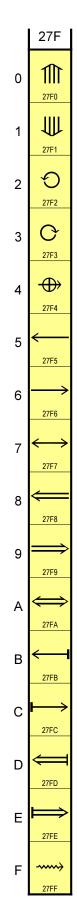
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The information in this file may be updated from time to time. The Unicode Consortium is not liable for errors or omissions in this excerpt file or the standard itself. Information on characters added to the Unicode Standard since the publication of Version 3.2 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/unicode/alloc/Pipeline.html.*

| | 27F |
|---|---|
| 0 | ⇑ 27F0 |
| 1 | ⇓ 27F1 |
| 2 | ↺ 27F2 |
| 3 | ↻ 27F3 |
| 4 | ⊕ 27F4 |
| 5 | ⟵ 27F5 |
| 6 | ⟶ 27F6 |
| 7 | ⟷ 27F7 |
| 8 | ⟸ 27F8 |
| 9 | ⟹ 27F9 |
| A | ⟺ 27FA |
| B | ⟻ 27FB |
| C | ⟼ 27FC |
| D | ⟽ 27FD |
| E | ⟾ 27FE |
| F | ⟿ 27FF |

## Arrows

27F0   ⇑   UPWARDS QUADRUPLE ARROW
      → 290A ⇑ upwards triple arrow
27F1   ⇓   DOWNWARDS QUADRUPLE ARROW
      → 290B ⇓ downwards triple arrow
27F2   ↺   ANTICLOCKWISE GAPPED CIRCLE
      ARROW
      → 21BA ↺ anticlockwise open circle arrow
      → 2940 ↺ anticlockwise closed circle arrow
27F3   ↻   CLOCKWISE GAPPED CIRCLE ARROW
      → 21BB ↻ clockwise open circle arrow
      → 2941 ↻ clockwise closed circle arrow
27F4   ⊕→   RIGHT ARROW WITH CIRCLED PLUS

## Long arrows

*The long arrows are used for mapping whereas the short forms would be used in limits. They are also needed for MathML to complete mapping to the ASMA sets.*

27F5   ⟵   LONG LEFTWARDS ARROW
      → 2190 ← leftwards arrow
27F6   ⟶   LONG RIGHTWARDS ARROW
      → 2192 → rightwards arrow
27F7   ⟷   LONG LEFT RIGHT ARROW
      → 2194 ↔ left right arrow
27F8   ⟸   LONG LEFTWARDS DOUBLE ARROW
      → 21D0 ⇐ leftwards double arrow
27F9   ⟹   LONG RIGHTWARDS DOUBLE
      ARROW
      → 21D2 ⇒ rightwards double arrow
27FA   ⟺   LONG LEFT RIGHT DOUBLE ARROW
      → 21D4 ⇔ left right double arrow
27FB   ⟻   LONG LEFTWARDS ARROW FROM
      BAR
      = maps from
      → 21A4 ↤ leftwards arrow from bar
27FC   ⟼   LONG RIGHTWARDS ARROW FROM
      BAR
      = maps to
      → 21A6 ↦ rightwards arrow from bar
27FD   ⟽   LONG LEFTWARDS DOUBLE ARROW
      FROM BAR
      → 2906 ⤆ leftwards double arrow from bar
27FE   ⟾   LONG RIGHTWARDS DOUBLE
      ARROW FROM BAR
      → 2907 ⤇ rightwards double arrow from bar
27FF   ⟿   LONG RIGHTWARDS SQUIGGLE
      ARROW
      → 21DD ⇝ rightwards squiggle arrow