Arrows Range: 2190–21FF

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

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-16.0/ for charts showing only the characters added in Unicode 16.0. See https://www.unicode.org/Public/16.0.0/charts/ for a complete archived file of character code charts for Unicode 16.0. 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 16.0 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 16.0, online at https://www.unicode.org/versions/Unicode16.0.0/, as well as the Unicode Standard Annexes, the other Unicode Technical Reports and Standards, and the Unicode Character Database, which are available online.

See https://www.unicode.org/ucd/ and https://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.

See https://www.unicode.org/charts/fonts.html for a list.

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21FF

	219	21A	21B	21C	21D	21E	21F
0	← 2190	→→ 21A0	1 21B0	21C0	21D0	← 21E0	21F0
1	1 2191	¥ 21A1	▶ 21B1	21C1	1 21D1	21E1	21F1
2	→ 2192	← 21A2	2 1B2	21C2	→ 21D2		21F2
3	2193	→ 21A3	1 21B3	21C3	↓ 21D3	¥ 21E3	21F3
4	↔ 2194	← 21A4	21B4	•	21D4		- ↔ 21F4
5	2195	1 21A5	21B5	↑↓ 21C5	105 £	→ 21E5	↓↑ 21F5
6	2196	→ 21A6	21B6	↔ 21C6	21D6	21E6	→ 21F6
7	2197	J 21A7	21B7	21C7	21D7	1 21E7	← 21F7
8	2198	1 21A8	21B8	11 21C8	21D8	21E8	→→ 21F8
9	2199	ح 21A9	₩ 21B9	⇒ 21C9	21D9	1 21E9	↔ 21F9
A	←/ 219A	↔ 21AA	2 1BA	↓↓ 21CA	21DA	삼 21EA	← - 21FA
В	→→ 219B	← 21AB	کل 21BB	21CB		21EB	- → 21FB
С	2 19C	♀ 21AC	 21BC	21CC	400 -21DC	21EC	↔ → 21FC
D	219D	↔→ 21AD	21BD	4 21CD		1 21ED	↓ 21FD
E	↔ 219E	↔→ 21AE	21BE	21CE	1 21DE	1 21EE	► 21FE
F	19F	2 1AF	1 21BF	21CF	1 21DF	21EF	↓ → 21FF

Arrows

2190 ← LETTWARDS ARROW Other across with bent tips to complete this set can be found 2191 ↓ UPWARDS ARROW 2181 ↓ 2192 ← RIGHTWARDS ARROW 2181 ↓ UPWARDS ARROW WITH TP RIGHTWARDS 2193 ↓ DOMWWARDS ARROW 2181 ↓ DOMWWARDS ARROW 2181 ↓ 2193 ↓ DOMWWARDS ARROW 2181 ↓ DOMWWARDS ARROW WITH TP RIGHTWARDS 2194 ↓ LETTWARDS ARROW 2181 ↓ DOMWWARDS ARROW WITH CORNER DOMWWARDS ARROW WITH CORNER DOMWWARDS ARROW WITH CORNER DOMWWARDS 2183 ↓ DOMWWARDS 2184 ↓ DOMWWARDS ARROW 2184 ↓ DOMWWARDS 2184 ↓ DOMWWARDS 2184 ↓ DOMWWARDS 2184 ↓ DOMWWARDS 2184 ↓ DOWWWARDS 2184 ↓ 0 2184 ↓ DOWWARDS 2184 ↓ <t< th=""><th colspan="3">Simple arrows</th><th colspan="4">Arrows with bent tips</th></t<>	Simple arrows			Arrows with bent tips					
 → 20TA+c combining leftwards arrow overlay IN UPWARDS ARROW IN UPWARDS ARROW IN UPWARDS ARROW WITH TIP LEFTWARDS 2192 IN UPWARDS ARROW WITH TIP LEFTWARDS 2193 IN UPWARDS ARROW WITH TIP LEFTWARDS 2194 IN UPWARDS ARROW WITH TIP LEFTWARDS 2193 IN UPWARDS ARROW WITH TIP LEFTWARDS 2194 2194 2194 2195 2195 2195 2194 2194 2194 2195 2195 2195 2195 2196 2196 2197 2197 2191 2190 2190 2190 2191 2192 2192 2191 2191 2191 2191 2192 2194 2194 2194 <	-		-						
2191 1 UPWARDS ARROW 2180 1 UPWARDS ARROW WITH TDE RIGHTWARDS 2192 - RIGHTWARDS ARROW 2181 - UPWARDS ARROW WITH TDE RIGHTWARDS 2193 1 DOWNWARDS ARROW - </td <td>2100</td> <td></td> <td></td> <td></td> <td colspan="5"></td>	2100								
 • PA: egressive airlow • PA: egressive airlow • PA: egressive airlow • PA: ingressive airlow 	2191	↑				-			
2192 → RICHTWARDS ARROW 2193 ↓ DOWNWARDS ARROW 2193 ↓ DOWNWARDS ARROW 2194 ↓ DETWARDS 2195 ↓ DOWNWARDS ARROW WITH TIP RIGHTWARDS 2194 ↓ LEFT RIGHT ARROW 2195 ↓ DOWNWARDS ARROW WITH CORNER 2195 ↓ DOWNWARDS ARROW WITH CORNER 2196 > NORTH AST ARROW 2198 > SOUTH KEST ARROW 2199 > SOUTH KEST ARROW 2199 > SOUTH KEST ARROW 2194 ↓ LEFTWARDS ARROW WITH STROKE • • • • • CLOCKWISE OPE SEMICIRCLE ARROW 2199 > RICHTWARDS ARROW WITH STROKE • • • 2190 SOUTH KEST ARROW <t< td=""><td></td><td>1</td><td></td><td></td><td>•</td><td></td></t<>		1			•				
= 2 notation total function → 1F882 □ inverse downwards arrow with tip letivards 2193 L DOWNWARDS ARROW **1F800 □ ieftwards 2183 2194 LEFT RIGHT ARROW = 2 notation telation = 2 notation telation 2195 L UP DOWN ARDS ARROW WITH CORNER 2196 NORTH WEST ARROW 2197 NORTH WEST ARROW 2198 S OUTH LAST ARROW 2199 > SOUTH LAST ARROW 2199 > RIGHTWARDS ARROW WITH STROKE • magation d2192 - = 2192 - 0338 / = 2192 - 0338 / 2190 EIGHTWARDS ARROW WAR ARROW = 1190 - RIGHTWARDS WAVE ARROW = 1190 - RIGHTWARDS WAVE ARROW = 2192 - 0338 / 2190 = IEFTWARDS ARROW WITH BARB = 1190 - RIGHTWARDS ARROW WAR ARROW = 1190 - RIGHTWARDS ARROW WAR ARROW = 2192 - 10338 / 2190 - E TEFTWARDS ARRO	2192	\rightarrow	5						
2193 1 DOWNWARDS ARROW •• 1F8C0 1 Leftwards arrow from downwards arrow 2194 •• LEFT RIGHT ARROW 2195 •• Datation relation 2195 •• DATATION (CONNWARDS ARROW WITH CORNER 2196 •• NORTH WEST ARROW 2197 > NORTH WEST ARROW 2198 > SOUTH WEST ARROW 2199 > SOUTH WEST ARROW 2199 > SOUTH WEST ARROW 2194 •• LEFTWARDS ARROW WITH STROKE •• negation of 2190 - = 2190 - 038 g = 2190 - 038 g · 2195 • LEFTWARDS ARROW WITH STROKE •• negation of 2192 -+ = 238 + wave arrow pointing directly left + 0284 + wave arrow pointing directly left - + 2190 - 0338 g = 10000MWARDS ARROW TO DAR ARROW + 2192 - 0333 d = 10000MWARDS ARROW NTH BARB 2195 • LEFTWARDS TWO HEADED ARROW + 2192 - 0333 d = 10000MWARDS ARROW NTH BARB 2196 • LEFTWARDS TWO HEADED ARROW = an otation rolation total sulgiction = 10000MWARDS = 210 + CHWARDS ARROW WITH FALL - 2000WWARDS = 210 CHWARDS ARROW WITH BARB <td< td=""><td></td><td></td><td>= z notation total function</td><td>2102</td><td>4</td><td></td></td<>			= z notation total function	2102	4				
 PA: ingressive airflow PA: ingressive airflow 	2193	Ţ							
→ 11800 ⁺ leftwards arow from downwards arow Keyboard symbols and circle arrows 2194 + LEFT RIGHT ARROW 2184 RICHTWARDS ARROW WITH CORNER 2195 > NORTH VEST ARROW 2184 RICHTWARDS ARROW WITH CORNER 2197 > NORTH VEST ARROW 2185 DIOWNWARDS ARROW WITH CORNER 2198 > SOUTH VEST ARROW 2186 RICHTWARDS ARROW WITH CORNER 2199 > SOUTH VEST ARROW 2186 RICHTWARDS ARROW WITH STROKE • negation of 2190 - = 2190 + 0338 / • negation of 2192 - = 100me = 2190 + 0338 / = 2188 NORTH WEST ARROW - 2192 + 0338 / = 2180 + 0338 / 2190 + 0328 / = 2180 + 0338 / 2191 + UEFTWARDS TWO HEADED ARROW 2180 CLOCKWISE OPEN CIRCLE ARROW - 2192 + 0338 / = 2180 + 0408 arrow pointing directly left + 2192 + 0338 / = 2004 (RICHWARDS TWO HEADED ARROW - 2181 + UWARDS TWO HEADED ARROW 2180 CLOCKWISE OPEN CIRCLE ARROW - 2194 + 102 / WARDS TWO HEADED ARROW = 100me - 2004 reliftmarked arrow faith = 1000mWARDS - 2194 + 102 / WARDS TWO HEADED ARROW = 100WARDS - 2194 + 100WARDS TWO HEADED ARROW = 100WARDS 2141 + DOWARDS TWO HEADED ARROW = 100WARDS 2142		•		21B3	L				
arrow implementation 2194 ← LEFT RIGHT ARROW 2195 1 UP DOWN ARROW 2195 1 UP DOWN ARROW 2195 1 UP DOWN ARROW 2196 NORTH HAST ARROW 2197 > NORTH HAST ARROW 2198 > SOUTH HAST ARROW 2199 > SOUTH HAST ARROW 2199 > SOUTH HAST ARROW 2194 ← LEFTWARDS ARROW WITH STROKE • negation of 2190 = 2190 0338 # = 2190 0338 # 2186 2198 RIGHTWARDS ARROW WITH STROKE • negation of 2190 = 2192 0338 # 2190 2385 * wave arrow pointing directly left + 285C ** telftwards two-headed arrow with + 286C ** telftwards two-headed arrow with + 1trangle arrowheads 2194 + DOWNWARDS TWO HEADED ARROW = fast cursor light 2194 + DOWNWARDS TWO HEADED ARROW = fast cursor light 2194 + DOWNWARDS ARROW WITH TALL = 2 notation total sujection = fast cursor light 2144 + LEFTWARDS ARROW WITH TALL = 2 notation total sujection = fast cursor light 2145 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
2105 = 2 notation relation 2195 1 UP DOWN ARROW 2196 NORTH WEST ARROW 2197 > NORTH MEST ARROW 2198 > SOUTH RAST ARROW 2199 > SOUTH RAST ARROW 2199 > SOUTH HAST ARROW 2199 > SOUTH HEST ARROW 2190 - Marcows with modifications 2194 > RIGHTWARDS ARROW WITH STROKE • negation of 2190 = = 2192 - 0388 / 2190 - 2382 / = RIGHTWARDS ARROW WITH STROKE = • negation of 2192 = = 2192 - 0388 / 2190 - 2382 / = 2381 / - ware arrow pointing directly left - 2812 / - ware arrow pointing directly left - 2814 / - ware arrow pointing directly left - 2815 / - ware arrow pointing directly left - 2816 / - leftwards two-headed arrow with - 4381 / - ware arrow pointing directly left - 4381 / - ware arrow pointing directly left - 4381 / - ware arrow pointing directly left - 141 / <t< td=""><td></td><td></td><td>arrow</td><td></td><td></td><td></td></t<>			arrow						
2195 1 UP DOWN ARROW = line feed 2195 1 UP DOWN ARROW 2 2195 1 UP DOWN ARROW 2 2197 N ORTH EAST ARROW 2 2 2198 > SOUTH EAST ARROW 2 180 - anticlock with modifications 2199 > SOUTH WEST ARROW 2 180 - anticlock with modifications 2194 ← LEFTWARDS ARROW WITH STROKE • negation of 2190 ← 2 2 2 2195 ⊂ UEFTWARDS ARROW WITH STROKE • negation of 2190 ← 2 2 2 2 2 188 ⊂ NORTH WEST ARROW 2 188 ⊂ NORTH WEST ARROW 2 189 ⊂ 2 189 ⊂ 10 0	2194	\leftrightarrow		21B4	Ļ				
2195 ↓ DOWNWARDS 2196 ↓ DOWNWARDS ARROW 2197 ✓ NORTH MEST ARROW 2198 ✓ SOUTH AST ARROW 2199 ✓ SOUTH AST ARROW 2199 ✓ SOUTH AST ARROW 2199 ✓ SOUTH AST ARROW 2194 ✓ LEFTWARDS ARROW WITH STROKE • negation of 2190 ← E1912 → 038 / 2195 ✓ NORTH WEST ARROW 2196 ← RIGHTWARDS ARROW WITH STROKE • negation of 2192 → = E1912 → 038 / 2190 → RIGHTWARDS WAVE ARROW 2180 2191 → = E1702 → 038 / 2192 → 238 / ✓ 2192 → 238 / ✓ 2192 → 238 / ✓ 2192 → 238 / ✓ 2192 → 238 / ✓ 2192 → 238 / ✓ 2192 → 238 / ✓ 2192 → 238 / ✓ 2192 → 238 / ✓ 2192 → 238 /									
2197 NORTH EAST ARROW 2198 SOUTH EAST ARROW 2198 SOUTH EAST ARROW 2199 SOUTH WEST ARROW 2199 SOUTH WEST ARROW 2199 SOUTH WEST ARROW 2199 SOUTH WEST ARROW 2194 Count East ARROW 2195 SOUTH WEST ARROW 2194 - Regation of 2190 ← = 2190 ← 0338 /4 = = 2192 ← 0338 /4 = = 2192 ← 0338 /4 = = 2192 ← 0338 /4 = = 2192 ← 0338 /4 = = 2192 ← 0338 /4 = = 2192 ← 0338 /4 = = 2192 ← 0338 /4 = = 2192 ← 0338 /4 = = 2192 ← 0338 /4 = = 2192 ← 0338 /4 = = 2192 ← 0338 /4 = = 2192 ← 0338 /4 = = 2192 ← 0338 /4 = = 2192 ← 0338 /4 = = 2192 ← 0338 /4 = 2190 ← EFTWARDS ARROW WITH STROKE = = 2191 ← 0000000000000000000000000000000000				21R5	. 1				
2188 \ SOUTH LAST ARROW				2100	Ļ				
2189 SOUTH WEST ARROW → 232C 2/ return symbol 2199 SOUTH WEST ARROW → 232C 2/ return symbol 2194 ✓ SOUTH WEST ARROW → 2180 ← ANTICLOCKWISE TOP SEMICIRCLE ARROW 2194 ✓ SOUTH WEST ARROW WITH STROKE → 1800 ↔ 0338 / 2198 ✓ RIGHTWARDS ARROW WITH STROKE → 1800 ↔ 0338 / 2198 ✓ RIGHTWARDS ARROW WITH STROKE → 1800 ↔ 0338 / 2198 ✓ RIGHTWARDS ARROW WITH STROKE → 1800 ↔ 038 / 2198 ✓ RIGHTWARDS ARROW WITH STROKE → 1800 ↔ 038 / 2190 ← LEFTWARDS ARROW WITH STROKE → 1800 ↔ 038 / 21910 ← LIEFTWARDS ARROW WITH STROKE → 2800 ↔ 038 / 2192 ← LIEFTWARDS ARROW WOTE ARROW 2180 ↔ 01000 ↔ 0100 ↔ 0100 ↔ 01000 ↔ 0100 ↔ 0100 ↔ 01000 ↔ 0100 ↔ 0100 ↔ 01						 may indicate a carriage return or new line 			
2199 / SOUTH WEST ARROW Arrows with modifications 2186 Arrows with modifications 219A / LEFTWARDS ARROW WITH STROKE • negation of 2190 + = ±2190 + 038 /# 2188 CLOCKWISE TOP SEMICIRCLE ARROW 219B //>= ±2192 + 038 /# 2188 CLOCKWISE TOP SEMICIRCLE ARROW 219C + 2192 + 038 /# 2188 CLOCKWISE OPEN CIRCLE ARROW 219E + LEFTWARDS WATE ARROW 2188 0 ANTICLOCKWISE OPEN CIRCLE ARROW 2192 + 033 /# 2180 0 ANTICLOCKWISE OPEN CIRCLE ARROW 219E + LEFTWARDS WATE ARROW 2180 0 ANTICLOCKWISE OPEN CIRCLE ARROW 219E + LEFTWARDS ARROW WITH STROKE -> 287E ¹⁵ / ₂ horizontal tab key -> 287E ¹⁵ / ₂ horizontal tab key 219E + LEFTWARDS ARROW WATE ARROW 2180 CLOCKWISE OPEN CIRCLE ARROW 219E + LEFTWARDS ARROW RAROW 2180 LEFTWARDS ARROW WITH BARB 219F + UPWARDS TWO HEADED ARROW 2180 LEFTWARDS HARPOON WITH BARB 2140 + RIGHTWARDS ARROW WITH TAIL 2160 RIGHTWARDS HARPOON WITH BARB 2142 + LEFTWARDS ARROW WITH TAIL 2161 <td< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td></td<>		-							
Arrows with modifications 2187 CLOCKWISE TOP SEMICIRCLE ARROW Progation of 2190 ← ≡ 2190 ← 0338 Ø 219B → RIGHTWARDS ARROW WITH STROKE • negation of 2192 → ≡ 2192 → 0338 Ø 2189 □ <td>2199</td> <td>2</td> <td>SOUTH WEST ARROW</td> <td>21B6</td> <td>$\hat{\mathbf{v}}$</td> <td></td>	2199	2	SOUTH WEST ARROW	21B6	$\hat{\mathbf{v}}$				
 • negation of 2190 ↔ ≡ 2190 ↔ 0338 Ø 2198 Ø RICHTWARDS ARROW WITH STROKE • negation of 2192 ↔ ≡ 2192 ↔ 0338 Ø 2192 ↔ 02192 ↔ 0338 Ø 2192 ↔ 02192 ↔ 0338 Ø 2192 ↔ 021920 ↔ 021920 ↔ 02192 ↔ 021920 ↔	Arrow	/s w	ith modifications	21B7					
2199 ← 0.338 ≠ 2189 ← 0.338 ≠ 2198 ← RIGHTWARDS ARROW WITH STROKE • negation of 2192 → • negation of 2192 → 0.338 ≠ 2190 ← 2192 → 0.338 ≠ = 2190 ← 2192 → 0.338 ≠ = 2190 ← 2192 → 0.338 ≠ = 2190 ← 2192 → 0.338 ≠ = 2190 ← 2192 → 0.338 ≠ = 2190 ← 2192 → 0.338 ≠ = 2190 ← 2192 → 0.338 ≠ = 2190 ← 2192 → 0.338 ≠ = 2190 ← 2192 → 0.338 ≠ = 2190 ← 2192 → 0.338 ≠ = 2190 ← 2192 → 0.338 ≠ = 2191 ← 2192 → 0.338 ≠ = 2192 ← 0.11000000000000000000000000000000000	219A	↔	LEFTWARDS ARROW WITH STROKE	21B8	$\overline{\mathbf{\nabla}}$	NORTH WEST ARROW TO LONG BAR			
 ≥ 190 ← 0338 <i>i</i> 2198 → RIGHTWARDS ARROW WITH STROKE engation of 2192 → 338 <i>i</i> ≥ 192 → 0338 <i>i</i> ≥ 193 → 00000000000000000000000000000000000			 negation of 2190 ← 			= home			
219B → RIGHTWARDS ARROW WTH STROKE • negation of 2192 → 219C • negation of 2192 → 219C ← EFTWARDS WAVE ARROW 219D → RIGHTWARDS WAVE ARROW 219D → EFTWARDS TWO HEADED ARROW = fast cursor up = fast cursor up 21A0 → RIGHTWARDS TWO HEADED ARROW = fast cursor right 216 21A1 → DOWNWARDS TWO HEADED ARROW = fast cursor right 2162 21A1 → DOWNWARDS TWO HEADED ARROW = fast cursor right 2162 21A2 ← LEFTWARDS ARROW WTH TAIL = fast cursor down = fast cursor down = fast cursor down = contation total injection = fast cursor down = contation maplet 21A2 ← LEFTWARDS ARROW WTH MOM BAR 21A4 LEFTWARDS ARROW FROM BAR 21A5 1 UPOWN ARROW ARROW ROM BA				21B9	₩				
 Thegation of 2192 → 0338 # → 287E ¹/₅₁ horizontal tab key 2192 → 0338 # → 287E ¹/₅₁ horizontal tab key 2192 → 0338 # → 287E ¹/₅₁ horizontal tab key 2192 → 287E ¹/₅₁ horizontal tab key 218A O ANTICLOCKWISE OPEN CIRCLE ARROW 218D → RIGHTWARDS WAVE ARROW 218D → LEFTWARDS HARPOON WITH BARB UPWARDS 218C ← LEFTWARDS HARPOON WITH BARB UPWARDS 218D → LEFTWARDS HARPOON WITH BARB UPWARDS 218F 1 UPWARDS HARPOON WITH BARB 218C ← LEFTWARDS HARPOON WITH BARB 218C ← LEFTWARDS HARPOON WITH BARB 218F 1 UPWARDS ARROW WITH TAIL 218F 1 UPWARDS ARROW WITH TAIL 218F 1 UPWARDS ARROW WITH TAIL 218F 1 UPWARDS ARROW FROM BAR 218F 1 UPWARDS ARROW FROM BAR 218F 1 UPWARDS ARROW FROM BAR 218F 1 UPWARDS ARROW WITH HOK 218F 218F × 038 # 218F 1 UPWARDS ARROW WITH STROKE 100WWWARDS ZIGZAG ARROW 218F 2184 + 0338 # 218F 4 DOWWWARDS ZIGZAG ARROW 218F 1 UPWARDS HARPOON OVER LEFTWARDS HARPOON OVER LEFTWARDS HARPOON 218F 1 UPWARDS ARROW WITH HOOK 218F 1 UPWARDS ARROW WITH HOK 218F 1 UPWARDS ARROW WITH HOK	219B	\rightarrow	RIGHTWARDS ARROW WITH STROKE						
 219C → LEFTWARDS WAVE ARROW → 283F ↔ wave arrow pointing directly left → 285F ↔ LEFTWARDS TWO HEADED ARROW = fast cursor left → 285F ↔ LeftwarDs two-headed arrow with triangle arrowheads 219F † UPWARDS TWO HEADED ARROW = fast cursor up 100 → RIGHTWARDS TWO HEADED ARROW = znotation total surjection = fast cursor right 2140 → RIGHTWARDS TWO HEADED ARROW = znotation total surjection = fast cursor right 2141 ‡ DOWNWARDS TWO HEADED ARROW = form feed = fast cursor down = anotation total injection 2144 ↔ LEFTWARDS ARROW FROM BAR = znotation trail injection 2145 1 UPWARDS ARROW FROM BAR = znotation trail injection 2144 ↔ LEFTWARDS ARROW FROM BAR = znotation trail injection 2145 1 UPWARDS ARROW FROM BAR = depth symbol 2146 ↔ RIGHTWARDS ARROW WITH HASE 2147 J DOWNWARDS ARROW FROM BAR = depth symbol 2148 ↔ LEFT RIGHT ARROW WITH HOOK 2148 ↔ LEFT RIGHT ARROW WITH HOOK 2140 ↔ RIGHTWARDS ARROW WITH HOOK 2140 ↔ LEFT RIGHT ARROW WITH STROKE • negation of 2194 ↔ = 2194 ↔ 0338 <i>i</i> 			• negation of 2192 \rightarrow						
 2190 → RIGHTWARDS WAVE ARROW 2191 → 2B3 ← wave arrow pointing directly left 2192 → RIGHTWARDS TWO HEADED ARROW 2195 ↑ UPWARDS TWO HEADED ARROW 219F ↑ UPWARDS TWO HEADED ARROW 219F ↑ UPWARDS TWO HEADED ARROW 219F ↑ UPWARDS TWO HEADED ARROW 2100 → RIGHTWARDS TWO HEADED ARROW 2100 → RIGHTWARDS TWO HEADED ARROW 2100 → RIGHTWARDS TWO HEADED ARROW 2101 → DOWNWARDS TWO HEADED ARROW 2102 → RIGHTWARDS TWO HEADED ARROW 2102 → RIGHTWARDS TWO HEADED ARROW 2102 → RIGHTWARDS TWO HEADED ARROW 2103 ↓ DOWNWARDS TWO HEADED ARROW 2104 ← LEFTWARDS ARROW WITH TAIL 2104 ← LEFTWARDS ARROW FROM BAR 21A4 ↔ LEFTWARDS ARROW FROM BAR 21A5 ↓ DOWNWARDS ARROW FROM BAR 21A6 ↔ RIGHTWARDS ARROW WITH HOK 21A8 ↔ LEFTWARDS ARROW WITH HOK 21A9 ↔ LEFTWARDS ARROW WITH HOK 21A9 ↔ LEFTWARDS ARROW WITH HOK 21A9 ↔ LEFT RIGHT ARROW WITH HOK 21A6 ↔ RIGHTWARDS ARROW WITH HOK 21A6 ↔ RIGHTWARDS ARROW WITH HOK 21A6 ↔ LEFT RIGHT ARROW WITH HOK 21A6 ↔ LEFT RIGHT ARROW WITH HOK 21A6 ↔ LEFT RIGHT ARROW WITH STROKE • negation of 2194 ↔ 2194 ↔ 0338 Ø 21AF f DOWNWARDS ARROW WITH STROKE • negation of 2194 ↔ 2194 ↔ 0338 Ø 21AF f DOWNWARDS ARROW WITH STROKE • negation of 2100 ← 			$\equiv 2192 \rightarrow 0338 \text{\emptyset}$		_				
 2190 → RIGHTWARDS WAVE ARROW 2192 → RIGHTWARDS WAVE ARROW 2192 ← LEFTWARDS TWO HEADED ARROW 2194 → 28EC ← leftwards two-headed arrow with triangle arrowheads 2197 † UPWARDS TWO HEADED ARROW 2198 → RIGHTWARDS TWO HEADED ARROW 2198 → RIGHTWARDS TWO HEADED ARROW 2140 → RIGHTWARDS TWO HEADED ARROW 2141 ↓ DOWNWARDS TWO HEADED ARROW 2141 ↓ DOWNWARDS TWO HEADED ARROW 2141 ↓ DOWNWARDS TWO HEADED ARROW 2142 ← LEFTWARDS ARROW WITH TAIL 2143 → RIGHTWARDS ARROW WITH TAIL 2144 ← LEFTWARDS ARROW WITH TAIL 2144 ← LEFTWARDS ARROW FROM BAR 2144 ← LEFTWARDS ARROW FROM BAR 2144 ← LEFTWARDS ARROW FROM BAR 2145 ↑ UPDWNARDS ARROW FROM BAR 2144 ← LEFTWARDS ARROW WITH BASE 2144 ← RIGHTWARDS ARROW WITH BASE 2144 ← RIGHTWARDS ARROW WITH HOOK 2144 ← RIGHTWARDS ARROW WITH HOOK 2145 ← LEFTWARDS ARROW WITH HOOK 2146 ← RIGHTWARDS ARROW WITH HOOK 2147 ↓ DOWNWARDS ARROW WITH HOOK 2144 ← LEFT RIGHT ARROW WITH STROKE 1000NWARDS ARROW WITH STROKE 2144 ← 0.338 / 2144 ← 22194 + 0.338 / 2154 ← 0.338 / 2164 ← CONTWARDS LEFTWARDS ARROW WITH STROKE 1000NWARDS ZIGZAG ARROW 2144 ← 22194 + 0.338 / 2150 ← LEFTWARDS DOUBLE ARROW WITH STROKE 1000NWARDS ZIGZAG ARROW 2160 ← LEFTWARDS DOUBLE ARROW WITH STROKE 1000NWARDS ZIGZAG ARROW 2160 ← CONTWARDS SIGZAG ARROW 2160 ← LEFTWARDS DOUBLE ARROW WITH STROKE 10204 ← 2200 € downwards t	219C	ĸ	LEFTWARDS WAVE ARROW		-				
 219E ← LEFTWARDS TWO HEADED ARROW fast cursor left → 28EC ← leftwards two-headed arrow with triangle arrowheads 219F ‡ UPWARDS TWO HEADED ARROW fast cursor up fast cursor ight z notation total surgection fast cursor right a totation total injection fast cursor down fast cursor down a fast cursor down a totation total injection fast cursor down a cotation total injection fast cursor down a cotation total injection a cotation maplet 2104 ↔ LEFTWARDS ARROW FROM BAR				21BB	Ø	CLOCKWISE OPEN CIRCLE ARROW			
 = fast cursor left → 28EC ≪ leftwards two-headed arrow with triangle arrowheads 219F † UPWARDS TWO HEADED ARROW = fast cursor up = fast cursor up 2100 = fast cursor up 218E 1 UPWARDS TWO HEADED ARROW	219D	~1		Harp	oons	i			
 → 2BEC ← leftwards two-headed arrow with triangle arrowheads 219F † UPWARDS TWO HEADED ARROW = fast cursor up 21A0 → RIGHTWARDS TWO HEADED ARROW = fast cursor right 21A1 ↓ DOWNWARDS TWO HEADED ARROW = form feed = fast cursor down = a totation total injection = z notation total injection = z notation total injection = a totation total injection = a	219E	↔		21BC	~	LEFTWARDS HARPOON WITH BARB UPWARDS			
triangle arrowheads218F1UPWARDS HARPOON WITH BARB RIGHTWARDS219F1UPWARDS TWO HEADED ARROW = fast cursor right218F1UPWARDS HARPOON WITH BARB LEFTWARDS21A0→RIGHTWARDS TWO HEADED ARROW = fast cursor right218F1UPWARDS HARPOON WITH BARB UPWARDS21A1‡DOWNWARDS TWO HEADED ARROW = fast cursor down210C→RIGHTWARDS HARPOON WITH BARB UPWARDS21A2←LEFTWARDS ARROW WITH TAIL = z notation total injection21C2↓DOWNWARDS HARPOON WITH BARB UPWARDS21A3→RIGHTWARDS ARROW FROM BAR = dottion total injection21C3↓DOWNWARDS HARPOON WITH BARB UEFTWARDS21A4←LEFTWARDS ARROW FROM BAR = dottion maplet21C4₹RIGHTWARDS ARROW OVER RIGH BAR 21C621A6←RIGHTWARDS ARROW WITH HAOK = dottion maplet21C6₹LEFTWARDS ARROW OVER RIGHTWARDS ARROW21A8‡UP DOWN ARROW WITH BASE = depth symbol21C6\$LEFTWARDS ARROW VITH HOOK 21C6\$21A6↓LEFTWARDS ARROW WITH HOOK 21A6\$RIGHTWARDS ARROW WITH HOOK 21A6\$\$21A6↓LEFTWARDS ARROW WITH HOOK 21A6\$\$LEFTWARDS ARROW S21A7↓DOWNWARDS ARROW WITH LOOP 21A6\$\$LEFTWARDS ARROW S21A6↓LEFT RIGHT ARROS WITH HOOK 21A6\$\$\$21A7✓DOWNWARDS ARROW WITH STROKE • negation of 2194 ↔ ≅ 2194 ↔ 0338 #\$\$ <tr< td=""><td></td><td></td><td></td><td>21BD</td><td>~</td><td>LEFTWARDS HARPOON WITH BARB</td></tr<>				21BD	~	LEFTWARDS HARPOON WITH BARB			
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= depth symbol 21A8	2147	т				DOWNWARDS ARROW			
21A8	2171	¥		21C6	\Leftrightarrow				
21A9 ↔ LEFTWARDS ARROW WITH HOOK 21AA ↔ RIGHTWARDS ARROW WITH HOOK 21AB \leftrightarrow LEFTWARDS ARROW WITH LOOP 21AC ↔ RIGHTWARDS ARROW WITH LOOP 21AD \leftrightarrow LEFT RIGHT WAVE ARROW 21AE \leftrightarrow LEFT RIGHT ARROW WITH STROKE • negation of 2194 \leftrightarrow $\equiv 2194 \leftrightarrow 0338 \neq$ 21AF \checkmark DOWNWARDS ZIGZAG ARROW = electrolysis $\rightarrow 2B4D \checkmark$ downwards triangle-headed zigzag	21A8	t.							
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 ↔ $\equiv 2194 \leftrightarrow 0338 \neq$ 21AF \checkmark DOWNWARDS ZIGZAG ARROW = electrolysis $\rightarrow 2B4D \checkmark$ downwards triangle-headed zigzag		_			⇇				
21AB ← LEFTWARDS ARROW WITH LOOP 21AC \Rightarrow RIGHTWARDS ARROW WITH LOOP 21AD \leftrightarrow LEFT RIGHT WAVE ARROW 21AE \leftrightarrow LEFT RIGHT ARROW WITH STROKE • negation of 2194 \leftrightarrow $\equiv 2194 \leftrightarrow 0338 \neq$ 21AF \notin DOWNWARDS ZIGZAG ARROW = electrolysis $\rightarrow 2B4D \checkmark$ downwards triangle-headed zigzag 21C9 \Rightarrow RIGHTWARDS PAIRED ARROWS 21CA \Downarrow DOWNWARDS PAIRED ARROWS 21CA \oiint DOWNWARDS HARPOON OVER RIGHTWARDS HARPOON 21CC \Rightarrow RIGHTWARDS HARPOON OVER LEFTWARDS HARPOON 21CC \Rightarrow RIGHTWARDS HARPOON OVER LEFTWARDS HARPOON 21CC \Rightarrow RIGHTWARDS HARPOON OVER LEFTWARDS HARPOON 21CC \Rightarrow RIGHTWARDS DOUBLE ARROW WITH STROKE • negation of 2194 \leftrightarrow $\Rightarrow 2B4D \checkmark$ downwards triangle-headed zigzag									
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• negation of $2194 \leftrightarrow$ $\equiv 2194 \leftrightarrow 0338 \not =$ 21AF $\not =$ DOWNWARDS ZIGZAG ARROW = electrolysis $\rightarrow 2B4D \not =$ downwards triangle-headed zigzag $21CC = RIGHTWARDS HARPOON OVER LEPTWARDS HARPOON Double arrows 21CD \not = LEFTWARDS DOUBLE ARROW WITH STROKE• negation of 21D0 \Leftarrow$				2400					
$\begin{array}{c} \equiv 2194 \leftrightarrow 0338 \not e \\ \hline 21AF \not e \\ = \text{electrolysis} \\ \rightarrow 2B4D \not e \\ \hline downwards triangle-headed zigzag \end{array} \qquad \begin{array}{c} \text{Double arrows} \\ 21CD \not e \\ e \\ e \\ \hline e \\ e \\ e \\ e \\ e \\ e \\ e$				2100	#				
21AF \neq DOWNWARDS ZIGZAG ARROW = electrolysis \rightarrow 2B4D \neq downwards triangle-headed zigzag				- ·					
= electrolysis $21CD \iff 12EFWARDS DOUBLE ARROW WITH STROKE$ → 2B4D $\cancel{2}$ downwards triangle-headed zigzag • negation of 21D0 \Leftarrow	21AF	ŧ							
			= electrolysis	21CD	¢				
arrow $\equiv 21D0 \Leftarrow 0338 \phi$						5			
			arrow			$\equiv 21D0 \Leftarrow 0338 \emptyset$			

21CE

Arrows

21CE	⇔	LEFT RIGHT DOUBLE ARROW WITH STROKE	21F1	$\overline{\nabla}$	NORTH WEST ARROW TO CORNER
		 negation of 21D4 ⇔ 			= home
		$\equiv 21D4 \Leftrightarrow 0338 \phi$	21F2	М	SOUTH EAST ARROW TO CORNER
21CF	∌	RIGHTWARDS DOUBLE ARROW WITH STROKE			= end
2101	\rightarrow		21F3	î	UP DOWN WHITE ARROW
		 negation of 21D2 ⇒ 	2115	Ŷ	
		$\equiv 21D2 \Rightarrow 0338 \phi$			= scrolling
21D0	⇐	LEFTWARDS DOUBLE ARROW			\rightarrow 2B04 \Leftrightarrow left right white arrow
21D1	↑	UPWARDS DOUBLE ARROW	Misce	ellan	eous arrows
21D2	⇒	RIGHTWARDS DOUBLE ARROW	21F4	- o>	RIGHT ARROW WITH SMALL CIRCLE
21D3	₩	DOWNWARDS DOUBLE ARROW	2114	-07	
21D0	⇔	LEFT RIGHT DOUBLE ARROW	0455		\rightarrow 2B30 \Leftrightarrow left arrow with small circle
			21F5	J↑	DOWNWARDS ARROW LEFTWARDS OF
21D5	⊅	UP DOWN DOUBLE ARROW			UPWARDS ARROW
21D6	\swarrow	NORTH WEST DOUBLE ARROW	21F6	₿	THREE RIGHTWARDS ARROWS
21D7	\overline{P}	NORTH EAST DOUBLE ARROW			\rightarrow 2B31 \rightleftharpoons three leftwards arrows
21D8	\mathbf{N}	SOUTH EAST DOUBLE ARROW	21F7	\leftarrow	LEFTWARDS ARROW WITH VERTICAL STROKE
21D9	//	SOUTH WEST DOUBLE ARROW	21F8	\rightarrow	RIGHTWARDS ARROW WITH VERTICAL STROKE
	-				= z notation partial function
	llan	eous arrows and keyboard symbols	21F9	↔	LEFT RIGHT ARROW WITH VERTICAL STROKE
21DA	∉	LEFTWARDS TRIPLE ARROW	2115	17	= z notation partial relation
21DB	⇒	RIGHTWARDS TRIPLE ARROW	21FA	< 	LEFTWARDS ARROW WITH DOUBLE VERTICAL
21DC	÷~-	LEFTWARDS SQUIGGLE ARROW	ZIFA	~ -	STROKE
		\rightarrow 2B33 \leftrightarrow long leftwards squiggle arrow			
21DD		RIGHTWARDS SQUIGGLE ARROW	21FB	++>	RIGHTWARDS ARROW WITH DOUBLE VERTICAL
	~~ `	-			STROKE
21DE	ŧ	UPWARDS ARROW WITH DOUBLE STROKE			= z notation finite function
		= page up	21FC	⇔	LEFT RIGHT ARROW WITH DOUBLE VERTICAL
21DF	ŧ	DOWNWARDS ARROW WITH DOUBLE STROKE			STROKE
		= page down			= z notation finite relation
21E0		LEFTWARDS DASHED ARROW	21FD	-	LEFTWARDS OPEN-HEADED ARROW
21E1	1	UPWARDS DASHED ARROW	21FE	→	RIGHTWARDS OPEN-HEADED ARROW
21E2	, >	RIGHTWARDS DASHED ARROW	21FF	↔	
21E3	Ĺ	DOWNWARDS DASHED ARROW			
	•				
21E4	⊬	LEFTWARDS ARROW TO BAR			
o /		= leftward tab			
21E5	\rightarrow	RIGHTWARDS ARROW TO BAR			
		= rightward tab			
White	arre	ows and keyboard symbols			
21E6	\Diamond	LEFTWARDS WHITE ARROW			
ZILU	-	\rightarrow 2B00 \bigtriangledown north east white arrow			
0457	~				
21E7	Û	UPWARDS WHITE ARROW			
		= shift			
		= level 2 select (ISO 9995-7)			
21E8	⇒	RIGHTWARDS WHITE ARROW			
		= group select (ISO 9995-7)			
21E9	Û	DOWNWARDS WHITE ARROW			
21EA	샵	UPWARDS WHITE ARROW FROM BAR			
		= caps lock			
21EB	介	UPWARDS WHITE ARROW ON PEDESTAL			
2120		= level 2 lock			
21EC	介	UPWARDS WHITE ARROW ON PEDESTAL WITH			
ZIEU	25	HORIZONTAL BAR			
		= capitals (caps) lock			
		→ 2BB8 含 upwards white arrow from bar with horizontal bar			
	₼				
21ED	Î	UPWARDS WHITE ARROW ON PEDESTAL WITH			
		VERTICAL BAR			
o	~	= numeric lock			
21EE	Û	UPWARDS WHITE DOUBLE ARROW			
	~	= level 3 select			
21EF	鉈	UPWARDS WHITE DOUBLE ARROW ON			
		PEDESTAL			
		= level 3 lock			
21F0	₽	RIGHTWARDS WHITE ARROW FROM WALL			
		= group lock			