# The stix package

## STI Pub Companies

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#### 1 Introduction

The mission of the *Scientific and Technical Information Exchange (STIX)* font creation project is the preparation of a comprehensive set of fonts that serve the scientific and engineering community in the process from manuscript creation through final publication, both in electronic and print formats. Toward this purpose, the STIX fonts will be made available, under royalty-free license, to anyone, including publishers, software developers, scientists, students, and the general public.

The STIX fonts are based on the Unicode standard for character representation. Not all Unicode values are included in the STIX Fonts, but there is extensive coverage of Latin alphabets, Greek, and Cyrillic. The Font contents were assembled from a list of every character/glyph required for publication in the journals of the participating STI Pub companies. Every scientific discipline is represented in this list, as well as many other fields from the arts and humanities.

Most of the glyphs in the STIX Fonts have been designed in Times-compatible style.

The stix package provides LaTeX support for using STIX fonts in both text and math. The text fonts are provided in both T1 (default) and OT1 encodings, as well as TS1 symbol font encoding, which cover only a subset of Latin characters supported by STIX fonts. The math support covers nearly every mathematical symbol in STIX fonts, around 2400 symbols in 11 regular fonts, in addition to around 1950 symbols in 10 bold fonts. Section 3 lists math alphabets supported by the stix package, while section 4 lists all defined math symbols. There are also three fonts containing extra miscellaneous symbols, stix-extra1, stix-extra2 and stix-extra3, provided as TFM and PFB files without support from the macro package.

### 2 Usage

Using STIX fonts with LATEX is as simple as loading the stix package:

```
\documentclass{article}
\usepackage{stix}
\begin{document}
Some text, and a math formula \(a+b=\sqrt{c}\).
\end{document}
```

#### 2.1 Options

notext Do not change the default text fonts.

Do not change the default math fonts.

not 1 Do not change the default font encoding to T1.

notextcomp Do not load the textcomp package (provides symbols and oldstyle figures from TS1 encod-

ing to be used with T1 encoded text fonts).

lcgreekalpha By default lower case Greek, partial differential and nabla are given \mathord class which

makes them insensitive to math alphabet changes (i.e.  $\boldsymbol{\beta}$ ); with this option they will be given  $\boldsymbol{\beta}$ ); with this option they will be given  $\boldsymbol{\beta}$ );

Greek.

upint Use upright integrals by default ( $\int$  instead of  $\int$ ). See Section 4.6 on page 18 for more

details.

#### 2.2 Compatibility with other packages

#### amsmath

The stix package should be used with at least amsmath v2.14, amssymb v3.01 and amsfonts v3.01.

With amsmath v2.14 or newer, it is recommended to load it (and/or packages that load it) *after* the stix package. Older versions of amsmath must be loaded *before* the stix package, otherwise errors will arise.

The following amsmath options affect not only symbols known to amsmath, but also new symbols defined by the stix package: sumlimits, nosumlimits, intlimits and nointlimits.

#### 2.3 Feedback

Bug reports and technical support issues should be reported to http://sourceforge.net/projects/stixfonts.

### 3 Math alphabets

The following table lists math alphabets defined by the stix package with the Unicode ranges they cover:

		A–Z	a–z	$\Gamma$ – $\Omega$	α–ω	0–9
*	\mathrm	00041-0005A	00061-0007A	00393-003A9	003B1-003C9	00030-00039
*	\mathbf	1D400-1D419	1D41A-1D433	1D6AA-1D6C0	1D6C2-1D6DA	1D7CE-1D7D7
*	\mathit	1D434-1D44D	1D44E-1D467	1D6E4-1D6FA	1D6FC-1D714	-
	\mathbfit	1D468-1D481	1D482-1D49B	1D71E-1D734	1D736-1D74E	-
*	\mathcal	•	-	-	-	-
*	\mathscr	1D49C-1D4B5	1D4B6-1D4CF	-	-	-
	\mathbfscr	1D4D0-1D4E9	1D4EA-1D503	-	-	-
*	\mathsf	1D5A0-1D5B9	1D5BA-1D5D3	•	•	1D7E2-1D7EB
	$\mbox{\tt mathbfsf}$	1D5D4-1D5ED	1D5EE-1D607	1D758-1D76E	1D770-1D788	1D7EC-1D7F5
*	\mathsfit	1D608-1D621	1D622-1D63B	•	•	-
	\mathbfsfit	1D63C-1D655	1D656-1D66F	1D792-1D7A8	1D7AA-1D7C2	-
*	\mathbb	1D538-1D551	1D552-1D56B	-	-	1D7D8-1D7E1
	\mathbfbb	•	•	-	-	-
*	$\mbox{mathbbit}$	•	•	-	-	-
	$\mbox{mathbfbbit}$	•	•	-	-	-
*	\mathfrak	1D504-1D51D	1D51E-1D537	-	-	-
	\mathbffrak	1D56C-1D585	1D586-1D59F	-	-	-
*	\mathtt	1D670-1D689	1D68A-1D6A3	-	-	1D7F6-1D7FF

- Covered by STIX fonts but not in Unicode.
- Not covered.
- \* Available by default when loading the stix package.

TEX allows only 16 math alphabets to be used simultaneously, so not all of these alphabets can be used in one document. When the stix package is loaded, 12 math groups are allocated, with the 11 math alphabets that are marked above available by default, which leaves room for 4 other math groups to be allocated on demand when any of the other alphabets is used.

## 4 Math symbols

The following section lists all math symbols defined by the stix package. Symbols with \* next to their name do not have a bold version; when \boldmath is active, the non-bold glyph will be used.

## 4.1 Alphabetics

Γ	U+0393	\Gamma	μ	U+03BC \mu
Δ	U+0394	\Delta	$\nu$	U+03BD \nu
Θ	U+0398	\Theta	ξ	U+03BE \xi
Λ	U+039B	\Lambda	$\pi$	U+03C0 \pi
Ξ	U+039E	\Xi	ρ	U+03C1 \rho
Π	U+03A0	\Pi	$\sigma$	U+03C3 \sigma
$\Sigma$	U+03A3	\Sigma	au	U+03C4 \tau
Υ	U+03A5	\Upsilon	v	U+03C5 \upsilon
Φ	U+03A6	\Phi	$\phi$	U+03D5 \phi
Ψ	U+03A8	\Psi	χ	U+03C7 \chi
Ω	U+03A9	\Omega	Ψ	U+03C8 \psi
α	U+03B1	\alpha	$\omega$	U+03C9 \omega
β	U+03B2	\beta	$\boldsymbol{\varepsilon}$	U+03F5 \varepsilor
γ	U+03B3	\gamma	θ	U+03D1 \vartheta
$\delta$	U+03B4	\delta	$\boldsymbol{\varpi}$	U+03D6 \varpi
$\epsilon$	U+03B5	\epsilon	Q	U+03F1 \varrho
ζ	U+03B6	\zeta	ς	U+03C2 \varsigma
η	U+03B7	\eta	$\varphi$	U+03C6 \varphi
$\theta$	U+03B8	\theta	$\nabla$	U+2207 \nabla
ı	U+03B9	\iota	$\partial$	U+2202 \partial
K	U+03BA	\kappa	ı	U+1D6A4\imath
λ	U+03BB	\lambda	J	U+1D6A5\jmath

## 4.2 Ordinary symbols

#	U+0023	<b>\</b> #	ð	U+00F0	\eth
\$	U+0024	\mathdollar	Z	U+01B5	\Zbar*
%	U+0025	\%	F	U+03DD	\digamma
&	U+0026	\&	χ	U+03F0	\varkappa
	U+002E		Э	U+03F6	\backepsilon
/	U+002F	/	Э	U+03F6	\upbackepsilon
?	U+003F	?		U+2025	\enleadertwodots
@	U+0040	<b>©</b>		U+2026	\mathellipsis
\	U+005C	\backslash	1	U+2032	\prime
£	U+00A3	\mathsterling	″	U+2033	\dprime
§	U+00A7	\mathsection	///	U+2034	\trprime
$\neg$	U+00AC	\neg, \lnot	1	U+2035	\backprime
$\P$	U+00B6	\mathparagraph	"	U+2036	\backdprime

""	U+2037	\backtrprime	Ŷ	U+21E9	\downwhitearrow
^		\caretinsert	· 企		\whitearrowupfrombar
!!	U+203C	\Exclam	Ā		\forall
-	U+2043	\hyphenbullet*	С	U+2201	\complement
??		\Question	3		\exists
////		\qprime	∄	U+2204	\nexists
$\circ$		\enclosecircle	Ø	U+2205	\varnothing
Ĭ		\enclosesquare*	Ø		\emptyset
$\overline{\Diamond}$		\enclosediamond*	Δ		\increment
Ň	II+20E4	\enclosetriangle		U+220E	
3		\Eulerconst	$\infty$	U+221E	·
ħ	U+210F	·	L		\rightangle
ħ		\hslash	_	U+2220	
F	U+2111		4		\measuredangle
$\ell$	U+2113	·	∢		\sphericalangle
જ્ઞ	U+2118	·			\therefore
$\Re$	U+211C	-	•••		\because
$\overline{\sigma}$	U+2127	·	$\sim$		\sinewave
1		\turnediota	Т	U+22A4	
Å		\Angstrom	1	U+22A5	-
4	U+2132		- +		\hermitmatrix
×	U+2135	·	L		\measuredrightangle
ב ב	U+2136	-	_ ⊿		\varlrtriangle
ر ک	U+2137	·		U+22EF	_
7		\daleth	ø		\diameter*
, 9	U+2141			U+2302	
٦		\sansLturned*	_		\invnot
j		\sansLmirrored*	П		\sqlozenge*
7	U+2144	•	$\circ$		\profline*
r <u>b</u>		\PropertyLine*	Δ		\profsurf*
<u></u>		\updownarrowbar	#		\viewdata*
$\stackrel{\star}{\supset}$		\linefeed	т-		\turnednot
, I		\carriagereturn			\varhexagonlrbonds*
<u></u>		\barovernorthwestarrow	≽		\conictaper*
₩		\barleftarrowrightarrowbar	Ī		\topbot
Q		\acwopencirclearrow	+		\APLnotbackslash*
Ğ		\cwopencirclearrow	À		\APLboxupcaret*
<b></b>		\nHuparrow*	?		\APLboxquestion*
#		\nHdownarrow*	<u></u>		\rangledownzigzagarrow*
<del>*</del>		\leftdasharrow*	Ö		\hexagon*
1		\updasharrow*	)		\bbrktbrk
: >		\rightdasharrow*	 4		\varcarriagereturn*
<b>↓</b>		\downdasharrow*	<b>\</b>		\obrbrak
<b>*</b>		\leftwhitearrow	$\equiv$		\ubrbrak
û		\upwhitearrow			\trapezium*
⊔ ⇒		\rightwhitearrow	<u>□</u>		\benzenr*
~	J. ZILO	/T TOTTO MITT 00 CT T O M	৶	J . ZULU	\~ O.I.Z.O.II.I

```
U+23E4 \strns*
                                            U+25CA \mdlgwhtlozenge, \lozenge,
   U+23E5 \fltns*
                                              \Diamond
\Box
                                           U+25CC \dottedcircle*
   U+23E6 \accurrent*
                                        U+25CD \circlevertfill*
   U+23E7 \elinters*
*
                                            U+25CE \bullseve*
   U+2423 \mathvisiblespace
                                            U+25CF \mdlgblkcircle*
   U+24C7 \circledR
                                            U+25D0 \circlelefthalfblack*
                                        \mathbf{O}
(S)
   U+24C8 \circledS
                                            U+25D1 \circlerighthalfblack*
   U+25A0 \mdlgblksquare*, \blacksquare
                                            U+25D2 \circlebottomhalfblack*
U+25A1 \mdlgwhtsquare*, \square, \Box
                                           U+25D3 \circletophalfblack*
\Box
   U+25A2 \squoval*
                                          U+25D4 \circleurquadblack*
                                        •
U+25A3 \blackinwhitesquare*
                                          U+25D5 \blackcircleulquadwhite*
■ U+25A4 \squarehfill*
                                           U+25D6 \blacklefthalfcircle*
U+25D7 \blackrighthalfcircle*
                                        U+25A6 \squarehvfill*
U+25D8 \inversebullet*
U+25A7 \squarenwsefill*
                                            U+25D9 \inversewhitecircle*
                                        \circ
U+25A8 \squareneswfill*

□ U+25DA \invwhiteupperhalfcircle*

   U+25A9 \squarecrossfill*
U+25DB \invwhitelowerhalfcircle*
                                        \cup
    U+25AA \smblksquare*
•
                                            U+25DC \ularc*
   U+25AB \smwhtsquare*
\ U+25DD \urarc*
■ U+25AC \hrectangleblack*
                                         ノ U+25DE \lrarc*
□ U+25AD \hrectangle*
                                            U+25DF \llarc*
   U+25AE \vrectangleblack*
                                        ○ U+25E0 \topsemicircle*
   U+25AF \vrectangle*
                                        ∪ U+25E1 \botsemicircle*
■ U+25B0 \parallelogramblack*
                                        ■ U+25E2 \lrblacktriangle*
☐ U+25B1 \parallelogram*
                                        V+25E3 \llblacktriangle*
▲ U+25B2 \bigblacktriangleup*

▼ U+25E4 \ulblacktriangle*

   U+25B4 \blacktriangle*
                                         ■ U+25E5 \urblacktriangle*
▶ U+25B6 \blacktriangleright*
                                           U+25E6 \circ, \smwhtcircle
   U+25B8 \smallblacktriangleright*
                                        ■ U+25E7 \squareleftblack*
\triangleright
   U+25B9 \smalltriangleright*
                                        U+25BA \blackpointerright*

ightharpoons

▼ U+25E9 \squareulblack*

   U+25BB \whitepointerright*

☑ U+25EA \squarelrblack*

▼ U+25BC \bigblacktriangledown*

    ∆ U+25EC \trianglecdot

   U+25BD \bigtriangledown

▲ U+25ED \triangleleftblack*

   U+25BE \blacktriangledown*
▼

    ∆ U+25EE \trianglerightblack*

\nabla
   U+25BF \triangledown*
                                        U+25EF \lgwhtcircle*
■ U+25C0 \blacktriangleleft*

    U+25F0 \squareulquad*

   U+25C2 \smallblacktriangleleft*
                                        ☐ U+25F1 \squarellquad*
   U+25C3 \smalltriangleleft*
◁
                                        ☐ U+25F2 \squarelrquad*
◀
   U+25C4 \blackpointerleft*
                                           U+25F3 \squareurquad*
                                        П
   U+25C5 \whitepointerleft*
\triangleleft
                                           U+25F4 \circleulquad*
                                        0
   U+25C6 \mdlgblkdiamond*
                                           U+25F5 \circlellquad*
                                        െ
U+25F6 \circlelrquad*
                                        \Theta
   U+25C8 \blackinwhitediamond*
                                        (
                                            U+25F7 \circleurquad*
                                            U+25F8 \ultriangle*
   U+25C9 \fisheye*

abla
```

```
√ U+25F9 \urtriangle*

                                    ♀ U+26B2 \neuter
   U+25FA \lltriangle*

√ U+2713 \checkmark

abla
   U+25FB \mdwhtsquare*
                                    ₩ U+2720 \maltese
U+25FC \mdblksquare*
                                    ♥ U+272A \circledstar
U+25FD \mdsmwhtsquare*
                                    ★ U+2736 \varstar
* U+273D \dingasterisk
   U+25FE \mdsmblksquare*

∠ U+25FF \lrtriangle*

                                    → U+279B \draftingarrow*
\star
   U+2605 \bigstar*

∠ U+27C0 \threedangle*

   U+2606 \bigwhitestar*

    ∆ U+27C1 \whiteinwhitetriangle*

\Rightarrow
   U+2609 \astrosun
                                    @ U+27C3 \subsetcirc*
\odot
   U+2621 \danger
                                    D U+27C4 \supsetcirc*
Z
☻
   U+263B \blacksmiley
                                    / U+27CB \diagup*

∨ U+27CD \diagdown*

₩
   U+263C \sun
                                    ♦ U+27D0 \diamondcdot*
)
   U+263D \rightmoon
(
   U+263E \leftmoon
                                    φ
   U+2640 \female
                                    U+2642 \male
                                    ð
   U+2660 \spadesuit*
                                    \Diamond
   U+2661 \heartsuit*
                                    U+2662 \diamondsuit*
                                    \Diamond
                                    *
   U+2663 \clubsuit*
۵
   U+2664 \varspadesuit

    ∀ U+2932 \nwovnearrow*

→ U+2934 \uprightcurvearrow*

   U+2665 \varheartsuit
٧
                                    \rightarrow U+2935 \downrightcurvedarrow*
♦
   U+2666 \vardiamondsuit
                                    • U+2981 \mdsmblkcircle*
   U+2667 \varclubsuit
යු
                                    U+2999 \fourvdots*
   U+2669 \quarternote
   U+266A \eighthnote
                                      U+299A \vzigzag*
♪
J
   U+266B \twonotes

∆ U+299B \measuredangleleft*

                                    U+266D \flat
   U+266E \natural
þ
                                    Ħ
   U+266F \sharp

∠s U+299E \angles*

∠ U+299F \angdnr*
   U+2680 \dicei
                                    b U+29A0 \gtlpar*
oldsymbol{\cdot}
   U+2681 \diceii
•
                                    ∀ U+29A1 \sphericalangleup*
U+2682 \diceiii
                                    7 U+29A2 \turnangle*
   U+2683 \diceiv
                                    U+2684 \dicev

∠ U+29A4 \angleubar*

<u>U+29A5 \revangleubar*</u>

U+2685 \dicevi
○ U+2686 \circledrightdot
                                    / U+29A7 \wideangleup*
\odot
   U+2687 \circledtwodots

    ∆ U+29A8 \measanglerutone*

•
   U+2688 \blackcircledrightdot
•
   U+2689 \blackcircledtwodots

∆ U+29A9 \measanglelutonw*

₽
   U+26A5 \Hermaphrodite

∀ U+29AA \measanglerdtose*

▼ U+29AB \measangleldtosw*

   U+26AA \mdwhtcircle
0
   U+26AB \mdblkcircle

∀ U+29AC \measangleurtone*

U+26AC \mdsmwhtcircle
                                    ♥ U+29AD \measangleultonw*
```

	II LOOAT	\	_	II 1 0 D 4 0	\
₽ <sub>s</sub>		\measangledrtose*			\squaretopblack
<b>A</b>		\measangledltosw*			\squarebotblack
Ø		\revemptyset*			\squareurblack
Ø		\emptysetobar*			\squarellblack
<b>Ø</b>		\emptysetocirc*	lack		\diamondleftblack
Ø		\emptysetoarr*	<b>•</b>		\diamondrightblack
Ø		\emptysetoarrl*	<b>♦</b>		\diamondtopblack
$\oplus$	U+29BA	\obot*	<b>\rightarrow</b>		\diamondbotblack
$\boxtimes$	U+29BB	\olcross*			\dottedsquare
$\otimes$	U+29BC	$\odotslashdot^*$			\lgblksquare
Ф	U+29BD	\uparrowoncircle*			\lgwhtsquare
0	U+29BE	$\circledwhitebullet^*$	•		\vysmblksquare
$\odot$	U+29BF	\circledbullet*			\vysmwhtsquare
$\circ$	U+29C2	\cirscir*			\pentagonblack
0=	U+29C3	\cirE*	$\bigcirc$		\pentagon
Ē.		\boxonbox*	0		\varhexagon
$\dot{\triangle}$		\triangleodot*			\varhexagonblack
$\triangle$		\triangleubar*			\hexagonblack
<u>S</u>		\triangles*			\lgblkcircle
<u>ح</u>		\iinfin*	<b>♦</b>	U+2B25	\mdblkdiamond
8			$\Diamond$	U+2B26	\mdwhtdiamond
		\tieinfty*	<b>♦</b>	U+2B27	\mdblklozenge
<b>\$</b>		\nvinfty*	$\Diamond$	U+2B28	\mdwhtlozenge
$\Box$		\laplac*	•	U+2B29	\smblkdiamond
‡ <b>=</b> 7		\thermod*	•	U+2B2A	\smblklozenge
$\mathbf{V}$		\downtriangleleftblack*	<b>♦</b>	U+2B2B	\smwhtlozenge
<b>T</b>		\downtrianglerightblack*	•	U+2B2C	\blkhorzoval
•		\blackdiamonddownarrow*	0	U+2B2D	\whthorzoval
<b>♦</b>	U+29EB	\blacklozenge	•	U+2B2E	\blkvertoval
Q	U+29EC	\circledownarrow*	0	U+2B2F	\whtvertoval
•		\blackcircledownarrow*	☆	U+2B50	\medwhitestar
Φ	U+29EE	\errbarsquare*	*	U+2B51	\medblackstar
₫	U+29EF	\errbarblacksquare*	*	U+2B52	\smwhitestar
abla	U+29F0	\errbardiamond*		U+2B53	\rightpentagonblack
₹	U+29F1	\errbarblackdiamond*	$\Diamond$		\rightpentagon
Φ	U+29F2	\errbarcircle*	=		\postalmark
	U+29F3	\errbarblackcircle*	~~		\hzigzag
<u>ls</u>	U+2AE1	\perps	k	U+1D550	
Ĭ		\topcir			\bracevert*
-		-			
4.3	Binar	y operators			
+	U+000B	+	÷	U+00F7	\div
	3.000	•	•	3.0011	/ ~~ = v

- $\pm$  U+00B1 \pm . U+00B7 \cdotp,\centerdot † U+2020 \dagger
  - ‡ U+2021 \ddagger
- × U+00D7 \times • U+2022 \smblkcircle

```
Y U+22CE \curlyvee
/
   U+2044 \fracslash
₹ U+214B \upand
                                  A U+22CF \curlywedge
                                  U+000D -
   U+2213 \mp
                                  ⊎ U+22D3 \Cup, \doublecup
                                  U+2214 \dotplus
   U+2216 \smallsetminus
                                  ① U+233D \obar
   U+2217 \ast
   U+2218 \vysmwhtcircle
                                  △ U+25B3 \triangle, \bigtriangleup
   U+2219 \vysmblkcircle, \bullet
                                  ▶ U+22B3 \rhd
  U+2227 \wedge, \land
                                  ⊴ U+22B4 \unlhd
  U+2228 \vee, \lor
V
∩ U+2229 \cap

▷ U+22B5 \unrhd

                                  O U+25CB \mdlgwhtcircle*
   U+222A \cup
U
   U+2238 \dotminus
                                  U+223E \invlazys
                                  ∀ U+27C7 \veedot*
   U+2240 \wr
                                  A U+27D1 \wedgedot*
ζ
                                  U+228C \cupleftarrow
⊍ U+228D \cupdot
                                  ♦ U+27E1 \concavediamond*
⊎ U+228E \uplus
                                  ♦ U+27E2 \concavediamondtickleft*
                                  ♦ U+27E3 \concavediamondtickright*
-□ U+27E4 \whitesquaretickleft*
Ц
   U+2294 \sqcup
⊕ U+2295 \oplus
                                  U+27E5 \whitesquaretickright*
⊖ U+2296 \ominus
                                  8 U+2982 \typecolon*

→ U+29B5 \circlehbar*

\otimes U+2297 \otimes
                                  ① U+29B6 \circledvert
Ø U+2298 \oslash
⊙ U+2299 \odot
                                  ① U+29B7 \circledparallel
⊙ U+229A \circledcirc
                                  ① U+29B9 \operp*

    ₩ U+229B \circledast

                                  ⊗ U+29C0 \olessthan
○ U+229D \circleddash
⊞ U+229E \boxplus

☑ U+29C4 \boxdiag

☐ U+229F \boxminus

∇ U+29C5 \boxbslash

    □ U+22A0 \boxtimes

₩ U+29C6 \boxast

○ U+29C7 \boxcircle
                                  U+29C8 \boxbox*
   U+22BA \intercal
T
   U+22BB \veebar

    ∆ U+29CD \triangleserifs*

V
   U+22BC \barwedge
                                  X U+29D6 \hourglass*
\overline{\wedge}
                                  ▼ U+29D7 \blackhourglass*
   U+22BD \barvee
                                  ш U+29E2 \shuffle*
   U+22C4 \diamond, \smwhtdiamond
   U+22C5 \cdot*
                                  ♦ U+29EB \mdlgblklozenge*
                                    U+29F5 \setminus*
*
   U+22C6 \star
                                  7 U+29F6 \dsol*
*
   U+22C7 \divideontimes
\ U+29F7 \rsolbar*

⋈ U+22CA \rtimes

                                 # U+29FA \doubleplus*
                                 ₩ U+29FB \tripleplus*
   U+22CB \leftthreetimes
\lambda
+ U+29FE \tplus*
```

```
U+29FF \tminus*
                                              U+2A47 \capovercup*
   U+2A22 \ringplus
                                              U+2A48 \cupbarcap*
Î
   U+2A23 \plushat
                                              U+2A49 \capbarcup*
Ŧ
   U+2A24 \simplus
                                         ₩ U+2A4A \twocups*
   U+2A25 \plusdot
                                         U+2A26 \plussim
ŧ
                                              U+2A4C \closedvarcup*
    U+2A27 \plussubtwo
+2
                                              U+2A4D \closedvarcap*
                                         Ω
   U+2A28 \plustrif*
                                              U+2A4E \Sqcap*
                                         Ш
    U+2A29 \commaminus*
                                         Ш
                                            U+2A4F \Sqcup*
   U+2A2A \minusdot
÷
                                         ⊗
                                            U+2A50 \closedvarcupsmashprod*
   U+2A2B \minusfdots
<u>-</u>
                                             U+2A51 \wedgeodot*
                                         Ż
<del>. .</del>
   U+2A2C \minusrdots*
                                              U+2A52 \veeodot*
   U+2A2D \opluslhrim*
\oplus
                                              U+2A53 \Wedge*
   U+2A2E \oplusrhrim*
+)
                                              U+2A54 \Vee*
   U+2A2F \vectimes*
×
                                          M U+2A55 \wedgeonwedge*
×
   U+2A30 \dottimes
                                            U+2A56 \veeonvee*
                                          W
   U+2A31 \timesbar
×

∨ U+2A57 \bigslopedvee*

   U+2A32 \btimes
X

✓ U+2A58 \bigslopedwedge*

   U+2A33 \smashtimes*
*
                                              U+2A5A \wedgemidvert*
                                         \Lambda
   U+2A34 \otimeslhrim*
(×
                                         V U+2A5B \veemidvert*
   U+2A35 \otimesrhrim*
X)
                                         A U+2A5C \midbarwedge*
∀ U+2A5D \midbarvee*
\overline{\wedge} U+2A5E \doublebarwedge
   U+2A38 \odiv*
\oplus

∆ U+2A5F \wedgebar*

    ∆ U+2A39 \triangleplus*

                                            U+2A60 \wedgedoublebar*
△ U+2A3A \triangleminus*
                                             U+2A61 \varveebar*

    ∆ U+2A3B \triangletimes*

                                             U+2A62 \doublebarvee*
    U+2A3C \intprod*

∨ U+2A63 \veedoublebar

← U+2A64 \dsub*

   U+2A3D \intprodr*
   U+2A3E \fcmp*
                                          П
   U+2A3F \amalg
                                         \(\frac{1}{2}\) \eqqplus
   U+2A40 \capdot*
oldsymbol{\cap}
                                            U+2A72 \pluseqq
   U+2A41 \uminus*
                                             U+2AF4 \interleave
\cup
   U+2A42 \barcup*
                                             U+2AF5 \nhVvert
Ū
   U+2A43 \barcap*
┌
                                              U+2AF6 \threedotcolon
   U+2A44 \capwedge*
                                          ///
                                            U+2AFB \trslash
M
   U+2A45 \cupvee*
                                              U+2AFD \sslash
\mathbb{V}
    U+2A46 \cupovercap*
                                              U+2AFE \talloblong
```

#### 4.4 Relations

*	U+002A	*, \ast	>	U+003E >,\greater
:	U+003A	:	$\Box$	U+2050 \closure*
<	U+003C	<, \less	1	U+20D2 \vertoverlay
=	U+003D	=, \equal	$\leftarrow$	U+2190 \leftarrow, \gets

```
U+2191 \uparrow
                                                                    ↑
→ U+2192 \rightarrow, \to
                                                                   ↑ U+21C5 \updownarrows
                                                                   U+2193 \downarrow
↔ U+2194 \leftrightarrow
                                                                 1
   U+2195 \updownarrow
                                                                 ↑↑ U+21C8 \upuparrows

⇒ U+21C9 \rightrightarrows

↓ U+21CA \downdownarrows

     U+2197 \nearrow

√ U+2198 \searrow

      U+2199 \swarrow

⇒ U+21CC \rightleftharpoons

← U+219A \nleftarrow

→ U+219B \nrightarrow

⇔ U+21CE \nLeftrightarrow

⇒ U+21CF \nRightarrow

← U+21D0 \Leftarrow

→ U+219D \rightwavearrow

                                                             ↑ U+21D1 \Uparrow

← U+219E \twoheadleftarrow

↑ U+219F \twoheaduparrow
                                                                 ⇒ U+21D2 \Rightarrow
                                                           → U+21A0 \twoheadrightarrow
   U+21A1 \twoheaddownarrow

← U+21A2 \leftarrowtail

→ U+21A3 \rightarrowtail

    ∇ U+21D6 \Nwarrow

                                                                   U+21D7 \Nearrow

← U+21A4 \mapsfrom

                                                                   ↑ U+21A5 \mapsup

✓ U+21D9 \Swarrow

⇐ U+21DA \Lleftarrow*

⇒ U+21DB \Rrightarrow*

✓ U+2

→ U+21A6 \mapsto

↓ U+21A7 \mapsdown

← U+21A9 \hookleftarrow

← U+21DC \leftsquigarrow

→ U+21DD \rightsquigarrow, \leadsto
← U+21AB \looparrowleft

← U+21E4 \barleftarrow*

→ U+21AC \looparrowright
                                                             \rightarrow U+21E5 \rightarrowbar*
↔ U+21AD \leftrightsquigarrow
                                                                 → U+21F4 \circleonrightarrow*

↔ U+21AE \nleftrightarrow

      U+21AF \downzigzagarrow
                                                                 ↓↑ U+21F5 \downuparrows
                                                                  U+21B0 \Lsh
٩
                                                                 U+21F7 \nvleftarrow*
      U+21B1 \Rsh
P

→ U+21F8 \nvrightarrow*

   U+21B2 \Ldsh
۲
                                                                 \leftrightarrow U+21F9 \nvleftrightarrow*
      U+21B3 \Rdsh
U+21FA \nVleftarrow*

→ U+21B7 \curvearrowright

⇒ U+21FB \nVrightarrow*

U+21BB \circlearrowright← U+21BC \leftharpoonup
                                                              ← U+21FD \leftarrowtriangle*
                                                                 → U+21FE \rightarrowtriangle*
← U+21BD \leftharpoondown
                                                                 ↔ U+21FF \leftrightarrowtriangle*
      U+21BE \upharpoonright, \restriction ∈ U+2208 \in
1
                                               ∉ U+2209 \notin
      U+21BF \upharpoonleft
1
→ U+21C0 \rightharpoonup
                                                           € U+220A \smallin
→ U+21C1 \rightharpoondown

U+21C2 \downharpoonright

U+21C3 \downharpoonleft
                                                                 ∍ U+220D \smallni
      U+21C3 \downharpoonleft
```

```
≝ U+225D \eqdef
   U+221D \propto
\propto
                                \stackrel{\text{m}}{=} U+225E \measeq
   U+221D \varpropto
\alpha
                                ≟ U+225F \questeq
   U+2223 \mid
                                ≠ U+2260 \ne, \neq
   U+2223 \shortmid
1
   U+2224 \nmid
                                U+2224 \nshortmid*
                                ≢ U+2262 \nequiv
U+2225 \parallel
                                U+2225 \shortparallel*
                                ≤ U+2264 \leq, \le
∦ U+2226 \nparallel
                                ≥ U+2265 \geq, \ge
                                 ≦ U+2266 \leqq
  U+2226 \nshortparallel*
                                 ≥ U+2267 \geqq
≤ U+2268 \lneqq
::
   U+2237 \Colon
   U+2239 \dashcolon
                                 ≨ U+2268 \lvertneqq
   U+223A \dotsminusdots
:=
   U+223B \kernelcontraction
                              ÷

↓ U+2269 \gvertneqq
   U+223C \sim
                                 ≪ U+226A \11
   U+223C \thicksim
                                 >> U+226B \gg
   U+223D \backsim
   U+2241 \nsim
                                 N
\approx U+2242 \eqsim
                                \simeq U+2243 \simeq
                                 \simeq
   U+2244 \nsime
\cong U+2245 \cong
                                 ⊈ U+2270 \nleq
\cong U+2246 \simneqq
                                 \lesssim U+2272 \lesssim
  U+2247 \ncong
\not\simeq
\approx U+2248 \approx
                                 ≥ U+2273 \gtrsim
                                 ≈ U+2248 \thickapprox

★ U+2275 \ngtrsim

§ U+2276 \lessgtr
≊
   U+224A \approxeq
                                 ≋ U+224B \approxident
                                 ≸ U+2278 \nlessgtr
≅ U+224C \backcong
                                 U+224D \asymp
\simeq

⇒ U+224E \Bumpeq

≺ U+227A \prec

> U+227B \succ

≼ U+227C \preccurlyeq

≐ U+2250 \doteq

    ∀ U+227D \succcurlyeq

≒ U+2252 \fallingdotseq
                                ≾ U+227E \precsim
                                 \gtrsim U+227F \succsim
≓ U+2253 \risingdotseq
                                 ≔ U+2254 \coloneq
≕ U+2255 \eqcolon

★ U+2281 \nsucc

   U+2256 \eqcirc
                                 C U+2282 \subset
<u>•</u>
                                 ⊃ U+2283 \supset
   U+2257 \circeq
\widehat{=}
  U+2258 \arceq
                                 \triangle U+2259 \wedgeq
                                 \stackrel{\vee}{=} U+225A \veeeq
                                 ⊆ U+2286 \subseteq
± U+225B \stareq
                                ⊇ U+2287 \supseteq
≜ U+225C \triangleq
                                ⊈ U+2288 \nsubseteq
```

```
U+2289 \nsupseteq
Ç
  U+228A \subsetneq
                            ⊊
  U+228A \varsubsetneq*
  U+228B \supsetneq
                            ⊋
  U+228B \varsupsetneg*
                            U+228F \sqsubset
⊐
  U+2290 \sqsupset
                              U+22E6 \lnsim
                            \gtrsim U+22E7 \gnsim
  U+2291 \sqsubseteq
                            \lesssim U+22E8 \precnsim
  U+2292 \sqsupseteq
                              U+22E9 \succnsim
\vdash
  U+22A2 \vdash
\dashv
  U+22A3 \dashv
                            U+22A6 \assert
  U+22A7 \models
F
                            ⊨
  U+22A8 \vDash
                            ⊩ U+22A9 \Vdash
                            : U+22EE \vdots
                            ∴ U+22F0 \adots
III-
  U+22AA \Vvdash
⊫ U+22AB \VDash
                            ∴ U+22F1 \ddots
⊬
  U+22AC \nvdash
                            € U+22F2 \disin*
⊭
  U+22AD \nvDash
                            ∈ U+22F3 \varisins*
⊮ U+22AE \nVdash
                            e U+22F4 \isins*
                            ⊯ U+22AF \nVDash
⊰ U+22B0 \prurel
                            € U+22F6 \varisinobar
⊱ U+22B1 \scurel
                           ē U+22F7 \isinobar*
                            € U+22F8 \isinvb*
€ U+22F9 \isinE*
▶ U+22B3 \vartriangleright
→ U+22FA \nisd*
                            ⊌ U+22FC \nis*
⊶ U+22B6 \origof
                           ∃ U+22FD \varniobar
• U+22B7 \imageof
                           5 U+22FE \niobar*
→ U+22B8 \multimap

⋈ U+22C8 \bowtie

                            U+22FF \bagmember*
← U+2322 \frown
© U+22D0 \Subset
                            U+22D1 \Supset
                            ─ U+2323 \smile
⋑
Μ
  U+22D4 \pitchfork

∪ U+2323 \smallsmile*

→ U+233F \APLnotslash

#
  U+22D5 \equalparallel
∢
  U+22D6 \lessdot
                            △ U+25B5 \vartriangle*
  U+22D7 \gtrdot
                            >
W U+22D8 \111, \11less
                           \C U+27C8 \bsolhsub
>>> U+22D9 \ggg, \gggtr
                           ⊃/ U+27C9 \suphsol
VI VIVVIV
                            U+22DA \lesseggtr
                            U+22DB \gtreqless
  U+22DC \eqless
                           F U+27D4 \pushout*
>
  U+22DD \eqgtr
                           ≓⊨ U+27DA \DashVDash*
                           ⊣⊢ U+27DB \dashVdash*
U+22DF \curlyeqsucc
```

```
\longmapsto U+27DD \vlongdash*

→ U+291B \leftdbltail*

── U+27DE \longdashv*

→ U+291C \rightdbltail*

Ŷ
   U+27DF \cirbot*
                                    ← U+291D \diamondleftarrow*

↑ U+27F0 \UUparrow*

                                    → U+291E \rightarrowdiamond*
₩ U+27F1 \DDownarrow*
                                    ↔ U+291F \diamondleftarrowbar*

★ U+27F2 \acwgapcirclearrow*

                                    → U+2920 \barrightarrowdiamond*
C U+27F3 \cwgapcirclearrow*

√ U+2921 \nwsearrow*

√ U+2922 \neswarrow*

→ U+27F4 \rightarrowonoplus*

                                    √ U+2923 \hknwarrow*
← U+27F5 \longleftarrow*
                                    U+2924 \hknearrow*
→ U+27F6 \longrightarrow*
                                    \ U+2925 \ hksearow*

←→ U+27F7 \longleftrightarrow*

← U+27F8 \Longleftarrow*

                                    J U+2926 \hkswarow*
                                    \implies U+27F9 \Longrightarrow*
X
                                       U+2928 \toea*
                                    ← U+27FB \longmapsfrom*
→ U+27FC \longmapsto*
                                    → U+2933 \rightcurvedarrow*

← U+27FD \Longmapsfrom*

⇒ U+27FE \Longmapsto*

↓ U+2936 \leftdowncurvedarrow*

WHO U+27FF \longrightsquigarrow*

↓ U+2937 \rightdowncurvedarrow*

                                    ) U+2938 \cwrightarcarrow*
   U+2900 \nvtwoheadrightarrow*
                                    ( U+2939 \acwleftarcarrow*
<del>||>></del>
   U+2901 \nVtwoheadrightarrow*
⇒ U+2903 \nvRightarrow*

    ∪+293B \acwunderarcarrow*

   U+2904 \nvLeftrightarrow*

□ U+293C \curvearrowrightminus*

#
→ U+2905 \twoheadmapsto*
                                    ← U+293D \curvearrowleftplus*

    ∪+293E \cwundercurvearrow*

U+2907 \Mapsto*
                                    \Rightarrow
                                    ŧ
   U+2908 \downarrowbarred*
   U+2909 \uparrowbarred*

→ U+2941 \cwcirclearrow*

1

→ U+2942 \rightarrowshortleftarrow*

  U+290A \Uuparrow*
   U+290B \Ddownarrow*
                                    ←-
   U+290C \leftbkarrow*

→ U+2944 \shortrightarrowleftarrow*

→ U+2945 \rightarrowplus*

   U+290D \rightbkarrow*
-→
   U+290E \leftdbkarrow*, \dashleftarrow
                                    ← U+2946 \leftarrowplus*
   U+290F \dbkarow*, \dashrightarrow

→ U+2947 \rightarrowx*

--→
>--- U+2910 \drbkarow*
                                    U+2911 \rightdotarrow*
                                       U+2949 \twoheaduparrowcircle*

→ U+294A \leftrightharpoonupdown*

₹
   U+2912 \baruparrow*
\downarrow
   U+2913 \downarrowbar*
                                    → U+294B \leftrightharpoondownup*
>>> U+2914 \nvrightarrowtail*
                                    U+294C \updownharpoonrightleft*
                                    1
   U+2915 \nVrightarrowtail*
                                       U+294D \updownharpoonleftright*
>>> U+2916 \twoheadrightarrowtail*
                                    >>> U+2917 \nvtwoheadrightarrowtail*
                                    U+294F \updownharpoonrightright*
   U+2918 \nVtwoheadrightarrowtail*
                                    → U+2950 \leftrightharpoondowndown*
   U+2919 \lefttail*
                                        U+2951 \updownharpoonleftleft*
                                    1
   U+291A \righttail*
```

```
    U+29CF \ltrivb*

→ U+2953 \rightharpoonupbar*
7
   U+2954 \barupharpoonright*
                                     U+29D0 \vbrtri*

► U+29D1 \lfbowtie*

   U+2955 \downharpoonrightbar*
ļ
                                     → U+2957 \rightharpoondownbar*

    U+29D3 \fbowtie*

   U+2958 \barupharpoonleft*
                                     1
1
   U+2959 \downharpoonleftbar*

→ U+29D5 \rftimes*

    ∪+29DF \dualmap*

← U+295A \leftharpoonupbar*

   U+295B \barrightharpoonup*

∠ U+29E1 \lrtriangleeq*

                                     # U+29E3 \epars1*
   U+295C \upharpoonrightbar*
1
                                     \tilde{\#} U+29E4 \smepars1*
Ţ
   U+295D \bardownharpoonright*

→ U+295E \leftharpoondownbar*

                                     # U+29E5 \eqvpars1*
                                     \vdash
   U+295F \barrightharpoondown*
   U+2960 \upharpoonleftbar*
                                     :→ U+29F4 \ruledelayed*
1
   U+2961 \bardownharpoonleft*
                                     X U+2A59 \veeonwedge*
I
= U+2A66 \eqdot
                                     ± U+2A67 \dotequiv
11
   U+2963 \upharpoonsleftright*
⇒ U+2964 \rightharpoonsupdown*
                                     # U+2A68 \equivVert*
   U+2965 \downharpoonsleftright*
                                     # U+2A69 \equivVvert*
#
\stackrel{\smile}{=}
   U+2966 \leftrightharpoonsup*
                                     =
   U+2967 \leftrightharpoonsdown*

⇒ U+2968 \rightleftharpoonsup*

                                     ≈ U+2A6C \simminussim*

    □ U+2969 \rightleftharpoonsdown*

                                     \stackrel{.}{\cong} U+2A6D \congdot

<u>*</u> U+2A6E \asteq

   U+296A \leftharpoonupdash*
                                     \hat{\approx} U+2A6F \hatapprox
= U+296B \dashleftharpoondown*

⇒ U+296C \rightharpoonupdash*

≅ U+2A70 \approxeqq

   U+296D \dashrightharpoondown*
                                     \equiv U+2A73 \eqqsim
                                     U+296E \updownharpoonsleftright*
11
   U+296F \downupharpoonsleftright*
                                     == U+2A75 \eqeq*
11

⇒ U+2970 \rightimply*

                                     === U+2A76 \setminus eqeqeq^*
≕
   U+2971 \equalrightarrow*
                                     \stackrel{\sim}{\longrightarrow}
   U+2972 \similarrightarrow*
                                     ₩ U+2A78 \equivDD*
   U+2973 \leftarrowsimilar*

≪ U+2A79 \ltcir*

←
                                     > U+2A7A \gtcir*
   U+2974 \rightarrowsimilar*
\Rightarrow

₹ U+2A7B \ltquest*

   U+2975 \rightarrowapprox*
≈
                                     3 U+2A7C \gtquest*
   U+2976 \ltlarr*
≨
   U+2977 \leftarrowless*
                                     \leftarrow
   U+2978 \gtrarr*
                                     ≥
\subseteq
   U+2979 \subrarr*
                                     U+297A \leftarrowsubset*

≥ U+2A80 \gesdot*

€
                                     ⊋
   U+297B \suplarr*
   U+297C \leftfishtail*

⇒ U+2A82 \gesdoto*

⊢
→ U+297D \rightfishtail*
                                     U+297E \upfishtail*
Υ
                                     U+297F \downfishtail*
                                        U+2A85 \lessapprox*
.l.
                                         U+2A86 \gtrapprox*
   U+29CE \rtriltri*
```

```
U+2AB2 \succneq*
    U+2A87 \lneq
                                             U+2AB3 \preceqq*
    U+2A88 \gneq
WWWAIIAMIYA AZV VZA IZV IZAAIIV VIIA &V #A +V
    U+2A89 \lnapprox
                                             U+2AB4 \succeqq*
    U+2A8A \gnapprox
                                             U+2AB5 \precnegg*
                                             U+2AB6 \succneqq*
    U+2A8B \lesseqqgtr*
                                             U+2AB7 \precapprox*
    U+2A8C \gtreqqless*
                                             U+2AB8 \succapprox*
    U+2A8D \ \ \ \ 
                                             U+2AB9 \precnapprox*
    U+2A8E \gsime*
                                             U+2ABA \succnapprox*
    U+2A8F \lsimg*

≪ U+2ABB \Prec*

    U+2A90 \gsiml*
                                         >> U+2ABC \Succ*
    U+2A91 \lgE*
                                         U+2A92 \glE*

    ∪+2ABE \supsetdot

    U+2A93 \lesges*

    U+2ABF \subsetplus*

    U+2A94 \gesles*

⊋ U+2ACO \supsetplus*

1
    U+2A95 \eqslantless

    U+2AC1 \submult*

≽
    U+2A96 \eqslantgtr

⊋ U+2AC2 \supmult*

€
    U+2A97 \elsdot*
                                         U+2A98 \egsdot*
≽
                                         |
|-
|-
    U+2A99 \eqqless*
                                         U+2AC5 \subseteqq
    U+2A9A \eqqgtr*
                                            U+XXXX \nsubseteqq*
1
    U+2A9B \eggslantless*
                                            U+2AC6 \supsetegg
≷
    U+2A9C \eqqslantgtr*
                                             U+XXXX \nsupseteqq*
~
    U+2A9D \simless
                                             U+2AC7 \subsim*
≥\ ≥\II\>\II
    U+2A9E \simgtr
                                         U+2AC8 \supsim*
    U+2A9F \simlE*
                                             U+2AC9 \subsetapprox*
    U+2AAO \simgE*
                                             U+2ACA \supsetapprox*
    U+2AA1 \Lt*
⋖
                                             U+2ACB \subsetneqq
≽
    U+2AA2 \Gt*
                                             U+2ACB \varsubsetneqq*
U+2ACC \supsetnegg
    U+2AA4 \glj*
×
                                            U+2ACC \varsupsetneqq*
   U+2AA5 \gla*
\times
                                         U+2ACD \lsqhook
\triangleleft
    U+2AA6 \ltcc*
                                          ☐ U+2ACE \rsqhook
    U+2AA7 \gtcc*
\triangleright
                                         ☐ U+2ACF \csub
    U+2AA8 \lescc*
Ø
                                         D U+2AD0 \csup
\triangleright
    U+2AA9 \gescc*
                                         ☐ U+2AD1 \csube
<
    U+2AAA \smt*

□ U+2AD2 \csupe

    U+2AAB \lat*
>
                                             U+2AD3 \subsup
    U+2AAC \smte*
≤
                                             U+2AD4 \supsub
≥
    U+2AAD \late*
                                             U+2AD5 \subsub
    U+2AAE \bumpeqq*
≘
                                             U+2AD6 \supsup
≤
    U+2AAF \preceq
                                         ⊃C U+2AD7 \suphsub
≰
    U+XXXX \npreceq*
                                         ∋∈ U+2AD8 \supdsub
≥
    U+2AB0 \succeq
                                         ∩ U+2AD9 \forkv
    U+XXXX \nsucceq*
                                         ↑ U+2ADA \topfork
    U+2AB1 \precneq*
                                         ↑ U+2ADB \mlcp
```

```
U+2ADC \forks

    ∀ U+2B3E \leftarrowx*

ъľ
Ψ
   U+2ADD \forksnot

← U+2B3F \leftcurvedarrow*

                                \leftarrow U+2B40 \equalleftarrow*
  U+2ADE \shortlefttack
+
                                ← U+2B41 \bsimilarleftarrow*
  U+2ADF \shortdowntack
\mathbf{T}
  U+2AEO \shortuptack

← U+2B42 \leftarrowbackapprox*

Ŧ
   U+2AE2 \vDdash

→ U+2B43 \rightarrowgtr*

Ħ
\dashv
  U+2AE3 \dashV
                                ⇒ U+2B44 \rightarrowsupset*
=
                                U+2AE4 \Dashv
\exists

⇒ U+2B46 \RRightarrow*

  U+2AE5 \DashV
₩
   U+2AE6 \varVdash
                                ⇒ U+2B47 \bsimilarrightarrow*
   U+2AE7 \Barv
                                ⇒ U+2B48 \rightarrowbackapprox*
₹
   U+2AE8 \vBar

← U+2B49 \similarleftarrow*

ㅗ
                                U+2B4A \leftarrowapprox*
   U+2AE9 \vBarv
                                ← U+2B4B \leftarrowbsimilar*
Ш
  U+2AEA \barV
  U+2AEB \Vbar
                                ⇒ U+2B4C \rightarrowbsimilar*
Ш
=
  U+2AEC \Not
                                U+2AED \bNot
  U+2AEE \revnmid
                                U+2AEF \cirmid
                                  U+XXXX \nleqq
Ŷ
  U+2AF0 \midcir
                                U+2AF2 \nhpar
                                  U+XXXX \napproxeqq
  U+2AF3 \parsim
                                ₩
  U+2AF7 \lllnest

⇒ U+XXXX \ngg
⋘
\leq
  U+2AF9 \leqqslant
                                \geqslant
  U+2AFA \geqqslant
  U+2B30 \circleonleftarrow*
                               ≠ U+XXXX \nbumpeq
↔
∉ U+XXXX \nvarisinobar
                               ∌ U+XXXX \nvarniobar
WWW U+2B33 \longleftsquigarrow*
<del>«</del>1-
  U+2B34 \nvtwoheadleftarrow*
                                U+2B35 \nVtwoheadleftarrow*

← U+2B36 \twoheadmapsfrom*

                               U+XXXX \lhook
                               U+XXXX \rhook
«--- U+2B37 \twoheadleftdbkarrow*
  U+2B38 \leftdotarrow*
                               - U+XXXX \relbar
# U+2B39 \nvleftarrowtail*
                              = U+XXXX \Relbar
U+XXXX \RRelbar*
W U+2B3C \nvtwoheadleftarrowtail*
                              U+XXXX \mapsfromchar
U+2B3D \nVtwoheadleftarrowtail*
                              U+XXXX \mapstochar
```

#### 4.5 Punctuation

#### 4.6 Integrals

Integrals come in two styles, the slanted versions shown below ( $\int$ , etc.) and upright versions such as  $\int$ . By default, the symbol names listed below will give you the slanted style, but if you specify the upint package option, they will give you the corresponding upright symbols.

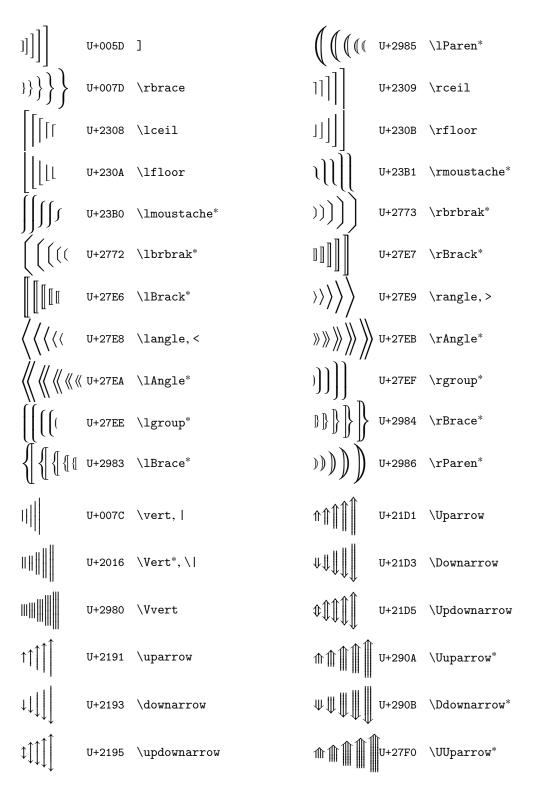
It is highly recommended that authors stick to the names below and use the upint package option to choose a style globally for their document. However, in recognition of the fact that it might occasionally be necessary to mix the two styles, alternative names have been provided for all integrals. Append sl or up to the names below to request either the *sl*anted or the *up*right variant. Thus,  $\$  will always yield f and  $\$  intup will always yield f, and similarly for the other integrals.

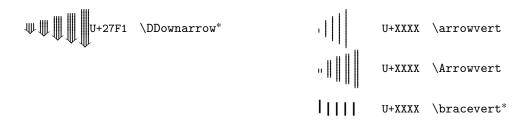
```
ſ
    U+222B \smallint
                                                U+2A10 \smallcirfnint
                                            ∮
    U+222C \smalliint
\iint
                                                U+2A11 \smallawint
\iiint
    U+222D \smalliiint
                                                U+2A12 \smallrppolint
    U+222E \smalloint
∮
                                                U+2A13 \smallscpolint
∯
    U+222F \smalloiint
                                            5
                                                U+2A14 \smallnpolint
    U+2230 \smalloiiint
∰
                                                U+2A15 \smallpointint
                                            ģ
    U+2231 \smallintclockwise
£
                                            ₽
                                                U+2A16 \smallsqint
∮
    U+2232 \smallvarointclockwise
                                            ∱
                                                U+2A17 \smallintlarhk
    U+2233 \smallointctrclockwise
∮
                                                U+2A18 \smallintx
                                            ¥
    U+2AOB \smallsumint
£
                                                U+2A19 \smallintcap
\iiint
    U+2AOC \smalliiiint
                                                U+2A1A \smallintcup
    U+2AOD \smallintbar
                                                U+2A1B \smallupint
    U+2AOE \smallintBar
    U+2AOF \smallfint
                                                U+2A1C \smalllowint
         U+222B \int
                                                             \ointctrclockwise
         U+222C \iint
                                                      U+2A0B
                                                             \sumint
         U+222D \iiint
                                                      U+2A0C
                                                             \iiiint
         U+222E \oint
                                                      U+2AOD
                                                             \intbar
         U+222F
                                                      U+2A0E
                                                             \intBar
                 \oiint
                                                             \fint
         U+2230
                 \oiiint
                                                      U+2A0F
         U+2231 \intclockwise
                                                      U+2A10
                                                            \cirfnint
         U+2232 \varointclockwise
                                                      U+2A11 \awint
```

#### 4.7 Big operators

$\sum$	$\sum$	U+2140	\Bbbsum	$\oplus$	$\oplus$	U+2A01	\bigoplus*
Π	π	U+220F	\prod	$\otimes$	$\bigotimes$	U+2A02	\bigotimes*
Ш	Ħ	U+2210	\coprod	Ū	$[\cdot]$	U+2A03	\bigcupdot*
Σ	$\sum_{i}$	U+2211	\sum	<u>+</u>	(+)	U+2A04	\biguplus*
$\overline{\wedge}$	$\overline{\wedge}$	U+22C0	\bigwedge	П	Ĭ	U+2A05	\bigsqcap*
V	$\langle \rangle$	U+22C1	\bigvee	Ц	Ιİ	U+2A06	\bigsqcup*
Ù	Ň	U+22C2	\bigcap	$\wedge$	$\overline{\mathbb{M}}$	U+2A07	\conjquant*
IJ	ij	U+22C3	\bigcup	W	Ŵ	U+2A08	\disjquant*
$\bowtie$	$\bowtie$	U+27D5	\leftouterjoin*	X	Ÿ	U+2A09	\bigtimes*
$\bowtie$	$\bowtie$	U+27D6	$\right outerjoin^*$	<b>&gt;</b>	$\sum$	U+2A0A	\modtwosum*
$\mathbf{M}$	M	U+27D7	\fullouterjoin*	$\mathbb{N}$	$\overline{\bowtie}$	U+2A1D	\Join*
$\perp$	$\perp$	U+27D8	\bigbot*	$\triangleleft$	$\triangleleft$	U+2A1E	\bigtriangleleft*
Т	Ţ	U+27D9	\bigtop*	9	9	U+2A1F	\zcmp*
/	/	U+29F8	\xsol*	<b>≫</b>	<b>≫</b>	U+2A20	\zpipe*
\		U+29F9	\xbsol*	1	1	U+2A21 U+2AFC	\zproject* \biginterleave
$\odot$	$\odot$	U+2A00	\bigodot*			U+2AFF	\bigtalloblong*

#### 4.8 Delimiters





### 4.9 Other bracess

Г	U+231C	\ulcorner*	<	U+2993 \lparenless*
٦	U+231D	\urcorner*	>	U+2994 \rparengtr*
L	U+231E	\llcorner*	₩	U+2995 \Lparengtr*
_	U+231F	\lrcorner*	*	U+2996 \Rparenless*
(	U+27EC	\Lbrbrak*	(	U+2997 \lblkbrbrak*
)	U+27ED	\Rbrbrak*	)	U+2998 \rblkbrbrak*
(	U+2987	\llparenthesis*	}	U+29D8 \lvzigzag*
D	U+2988	\rrparenthesis*	{	U+29D9 \rvzigzag*
1	U+2989	\llangle*	<b>}</b>	U+29DA \Lvzigzag*
$\triangleright$	U+298A	\rrangle*	<b>{</b> {	U+29DB \Rvzigzag*
[	U+298B	\lbrackubar*	<	U+29FC \lcurvyangle*
]	U+298C	\rbrackubar*	>	U+29FD \rcurvyangle*
	U+298D	\lbrackultick*	(	U+2772 \lbrbrak*
]	U+298E	\rbracklrtick*	)	U+2773 \rbrbrak*
[	U+298F	\lbracklltick*	ર	U+27C5 \lbag*
]	U+2990	\rbrackurtick*	S	U+27C6 \rbag*
<b>(</b> ·	U+2991	\langledot*	(	U+27EC \Lbrbrak*
ò	U+2992	\rangledot*	)	U+27ED \Rbrbrak*

### 4.10 Accents

$\grave{b}$	U+0300	\grave	$\dot{b}$	U+0315	\ocommatopright
$\dot{\hat{b}}$	U+0301	\acute	$\vec{ar{b}}$	U+031A	\droang
$\hat{b}$	U+0302	\hat	$\overline{b}$	U+20D0	\leftharpoonaccent
$ ilde{b}$	U+0303	\tilde	$\vec{b}$	U+20D1	\rightharpoonaccent
$ar{b}$	U+0304	\bar	$\dot{\overline{b}}$	U+20D6	\leftarrowaccent
Ď	U+0306	\breve	$\vec{b}$	U+20D7	\vec, \rightarrowaccent
b	U+0307	\dot	↔		
$\ddot{b}$	U+0308	\ddot	<i>b</i>	U+20E1	\leftrightarrowaccent
$\mathring{b}$	U+0309	\ovhook	b	U+20DB	\dddot
$\mathring{b}$	U+030A	\mathring	$\overline{b}$	U+20DC	\ddddot
$\check{b}$	U+030C	\check	b	U+20E7	\annuity
$\dot{ar{b}}$	U+0310	\candra	$\overline{b}$	U+20E9	\widebridgeabove
$\dot{b}$	U+0312	\oturnedcomma	$\mathring{b}$	U+20F0	\asteraccent

$\widehat{xxx}$	U+0302	\widehat*	$\overrightarrow{x}\overrightarrow{x}\overrightarrow{x}$	U+20E1	$\olimits$
$\widetilde{xxx}$	U+0303	$\widetilde^*$	xxx	U+034D	\underleftrightarrow
$\widetilde{xxx}$	U+030C	\widecheck*	${\overline{x}\overline{x}}$	U+20D0	\overleftharpoon
$\overleftarrow{x}\overrightarrow{x}\overrightarrow{x}$	U+20D6	\overleftarrow			-
$\overrightarrow{x}\overrightarrow{x}\overrightarrow{x}$	U+20D7	\overrightarrow	$\overrightarrow{x}\overrightarrow{x}\overrightarrow{x}$	U+20D1	\overrightharpoon
xxx	U+20EF	\underrightarrow	xxx	U+20EC	\underleftharpoon
xxx	U+20EE	\underleftarrow	$\underline{x}\underline{x}\underline{x}$	U+20ED	$\underrightharpoon$

OpenType STIX fonts include a number of under accents that can be used in math mode, but  $T_EX$  does not support under accents natively so such glyphs can not be used directly. Under accents can be set using regular accents and commands like \underaccent from the accents package, for example \underaccent{\hat}{X} gives X. The undertilde package provides \utilde for extensible under tilde accent.

#### 4.11 Over and under brackets

xxxxxx	U+23B4	\overbracket	xxxxxx	U+23B5	\underbracket
$\widehat{xxxxxx}$	U+23DC	\overparen	xxxxxx	U+23DD	\underparen
$\overbrace{xxxxxx}$	U+23DE	\overbrace	xxxxxx	U+23DF	\underbrace

#### 4.12 Radicals

```
\sqrt{b} U+221A \sqrt \overline{b} U+27CC \longdivision*
```

## 5 Font tables

The rest of this document shows glyph tables for all STIX fonts. The name before each table is the TEX font name (i.e. TFM file name).

Note that STIX fonts have no real smallcaps, the smallcaps below are synthesized (scaled down upper case letters).

#### **5.1** Text fonts

ot1-stixgeneral

	'0	'1	′2	'3	'4	<b>'</b> 5	<i>'</i> 6	'7	
'00x	Γ	Δ	Θ	Λ	Ξ	П	Σ	Υ	″0x
'01x	Φ	Ψ	Ω	ff	fi	fl	ffi	ffl	OX.
'02x	1	J	`	,	~	-	-	۰	″1x
'03x	5	В	æ	œ	ø	Æ	Œ	Ø	1 1 1 1
'04x		!	,,	#	\$	%	&	,	″2x
'05x	(	)	*	+	,	-		/	
'06x	0	1	2	3	4	5	6	7	″3x
'07x	8	9	:	;	i	=	i	?	J JX
'10x	@	A	В	С	D	Е	F	G	"4x
'11x	Н	I	J	K	L	M	N	О	47
'12x	P	Q	R	S	T	U	V	W	″5x
'13x	X	Y	Z	[	"	]	^	•	) JX
'14x	•	a	b	С	d	e	f	g	″6x
'15x	h	i	j	k	1	m	n	0	
'16x	p	q	r	s	t	u	v	w	″7x
'17x	X	у	Z	_	_	"	~		/ A
	″8	"9	"A	″В	"C	"D	"E	"F	

ot1-stixgeneralsc

	0'	'1	′2	'3	'4	<i>'</i> 5	<i>'</i> 6	'7	
'00x	Γ	Δ	Θ	Λ	Ξ	П	Σ	Υ	"0x
'01x	Φ	Ψ	Ω	ff	fi	fl	ffi	ffl	] UX
'02x	I	J	`	,	~	v	-	٥	″1x
'03x	5	SS	Æ	Œ	Ø	Æ	Œ	Ø	1 IX
'04x		!	,,	#	\$	%	&	,	″2x
'05x	(	)	*	+	,	-		/	2 x
'06x	0	1	2	3	4	5	6	7	″3x
'07x	8	9	:	;	i	=	i	?	J JX
'10x	@	A	В	С	D	Е	F	G	″4x
'11x	Н	I	J	K	L	M	N	О	47
'12x	P	Q	R	S	Т	U	V	W	″5x
'13x	X	Y	Z	[	44	]	^	•	J JX
′14x	•	A	В	С	D	Е	F	G	"6x
'15x	Н	I	J	K	L	M	N	О	
'16x	P	Q	R	S	T	U	V	W	″7x
'17x	X	Y	Z	_	_	"	~		] 'x
	"8	″9	"A	″В	"C	"D	″E	"F	

t1-stixgeneral

	'0	'1	′2	'3	'4	'5	'6	′7	
'00x	`	,	^	~		"	٥	~	".0
'01x	v	-	•	5	ı	,	<	>	″0x
'02x	"	,,	,,	«	»	_	_		″1x
'03x	o	1	J	ff	fi	fl	ffi	ffl	1X
'04x	L	!	"	#	\$	%	&	,	″2x
'05x	(	)	*	+	,	-		/	2.1
'06x	0	1	2	3	4	5	6	7	″3x
'07x	8	9	:	;	<	=	>	?	JA.
'10x	@	A	В	С	D	Е	F	G	″4x
'11x	Н	I	J	K	L	M	N	0	ın.
′12x	P	Q	R	S	Т	U	V	W	″5x
′13x	X	Y	Z	[	١	]	^		0.11
′14x	•	a	b	С	d	e	f	g	″6x
'15x	h	i	j	k	1	m	n	О	
′16x	p	q	r	S	t	u	V	w	″7x
′17x	X	У	Z	{	l	}	~	-	
	Ă	Ą	Ć	Č	Ď	Ě	Ę	Ğ	″8x
'21x	Ĺ	Ľ	Ł	Ń	Ň	Ŋ	Ő	Ŕ	
'22x	Ř	Ś	Š	Ş	Ť	Ţ	Ű	Ů	″9x
'23x	Ÿ	Ź	Ž	Ż	IJ	İ	đ	§	J
'24x	ă	ą	ć	č	ď	ě	ę	ğ	"Ax
'25x	ĺ	ľ	ł	ń	ň	ŋ	ő	ŕ	AX.
'26x	ř	ś	š	ş	ť	ţ	ű	ů	"Bx
′27x	ÿ	ź	ž	Ż	ij	i	i	£	DX
'30x	À	Á	Â	Ã	Ä	Å	Æ	Ç	<b>"</b> a
'31x	È	É	Ê	Ë	Ì	Í	Î	Ï	"Cx
'32x	Đ	Ñ	Ò	Ó	Ô	Õ	Ö	Œ	// D
'33x	Ø	Ù	Ú	Û	Ü	Ý	Þ	SS	"Dx
'34x	à	á	â	ã	ä	å	æ	ç	// -
'35x	è	é	ê	ë	ì	í	î	ï	Ex "Ex
'36x	ð	ñ	ò	ó	ô	õ	ö	œ	"Fx
′37x	ø	ù	ú	û	ü	ý	þ	В	r x
	″8	″9	" A	″В	"C	"D	"E	"F	

<sup>\*&</sup>quot;18 and "DF do not exist in STIX OpenType fonts, they were added as part of this package for compatability with T1 encoding.

t1-stixgeneralsc

	'0	′1	′2	'3	'4	′5	<i>'</i> 6	′7	
'00x	`	,	^	~		"	0	~	// 0
'01x	v	-		5	ı	,	<	>	″0x
'02x	"	,,	,,	«	»	_	_		″1x
'03x	О	I	J	ff	fi	fl	ffi	ffl	IX
'04x	J	!	"	#	\$	%	&	,	″2x
′05x	(	)	*	+	,	-		/	2x
'06x	0	1	2	3	4	5	6	7	″3x
′07x	8	9	:	;	<	=	>	?	3x
′10x	@	A	В	С	D	Е	F	G	″4x
'11x	Н	I	J	K	L	M	N	О	4X
′12x	P	Q	R	S	Т	U	V	W	″5x
′13x	X	Y	Z	[	١	]	^	_	5X
′14x	6	A	В	С	D	Е	F	G	″6x
′15x	Н	I	J	K	L	M	N	О	- OX
′16x	P	Q	R	S	T	U	V	W	″7x
′17x	X	Y	Z	{	I	}	~	-	1 /x
'20x	Ă	Ą	Ć	Č	Ď	Ě	Ę	Ğ	″8x
'21x	Ĺ	Ľ	Ł	Ń	Ň	n	Ő	Ŕ	8x
'22x	Ř	Ś	Š	Ş	Ť	Ţ	Ű	Ů	".0
'23x	Ÿ	Ź	Ž	Ż	IJ	İ	Đ	§	″9x
′24x	Ă	Ą	Ć	Č	Ď	Ě	Ę	Ğ	// ^
'25x	Ĺ	Ľ	Ł	Ń	Ň	n	Ő	Ŕ	"Ax
'26x	Ř	Ś	š	Ş	Ť	Ţ	Ű	Ů	"Bx
'27x	Ÿ	Ź	Ž	Ż	IJ	i	ن	£	ВХ
'30x	À	Á	Â	Ã	Ä	Å	Æ	Ç	" ~
'31x	È	É	Ê	Ë	Ì	Í	Î	Ϊ	"Cx
'32x	Đ	Ñ	Ò	Ó	Ô	Õ	Ö	Œ	//5
'33x	Ø	Ù	Ú	Û	Ü	Ý	Þ	SS	"Dx
'34x	À	Á	Â	Ã	Ä	Å	Æ	Ç	"Ex
'35x	È	É	Ê	Ë	Ì	Í	Î	Ï	Ex
′36x	Đ	Ñ	Ò	Ó	Ô	Õ	Ö	Œ	"Fx
JUA		<b>-</b>	<b>.</b> .			,	1	1	X1
'37x	Ø	Ù	Ú	Û	Ü	Ý	Þ	SS	

ot2-stixgeneral

	0'	′1	′2	'3	′4	<b>'</b> 5	<b>'</b> 6	′7	
'00x	Њ	Љ	Ų	Э	I	$\epsilon$	Ђ	ħ	"0x
'01x	њ	љ	Ų	Э	i	E	ħ	ħ	UX
'02x	Ю	Ж	Й	Ë	V	9	S	Я	″1x
'03x	Ю	ж	й	ë	v	Θ	S	Я	1 IX
'04x		!	,,	Ъ	٥	%	,	,	″2x
'05x	(	)	*	ъ	,	-		/	2X
'06x	0	1	2	3	4	5	6	7	″3x
'07x	8	9	:	;	«	1	<b>»</b>	?	3 SX
'10x	v	A	Б	Ц	Д	Е	Φ	Γ	"4x
'11x	X	И	J	К	Л	M	Н	0	4x
'12x	П	Ч	P	С	T	У	В	Щ	″5x
'13x	Ш	Ы	3	[	"	]	Ь	Ъ	J JX
'14x	٤	a	б	ц	д	e	ф	Г	″6x
'15x	X	И	j	К	Л	M	Н	О	OX.
'16x	П	Ч	p	С	Т	У	В	Щ	″7x
′17x	Ш	Ы	3	_	_	№	Ь	Ъ	/ X
'22x			ÿ						″9x
'23x									9x
'26x			ÿ						"Bx
'27x									DX
	″8	″9	"A	″В	"C	"D	"E	"F	

<sup>\*&</sup>quot;24 does not exist in STIX OpenType fonts, it was added as part of this package for compatability with 0T2 encoding.

ot2-stixgeneralsc

	'0	′1	′2	'3	'4	<i>'5</i>	<i>'</i> 6	′7	
'00x	Њ	Љ	Ų	Э	I	$\epsilon$	Ђ	ħ	″0x
'01x	Њ	Љ	ŢŢ	Э	I	€	Ђ	Th	UX
'02x	Ю	Ж	Й	Ë	V	9	S	Я	″1x
'03x	Ю	ж	Й	Ë	V	Θ	S	Я	1 IX
'04x	••	!	,,	Ъ	v	%	,	,	″2x
'05x	(	)	*	Ъ	,	-		/	ZX
'06x	0	1	2	3	4	5	6	7	″3x
'07x	8	9	:	;	«	Й	<b>»</b>	?	J.
'10x	,	Α	Б	Ц	Д	Е	Φ	Γ	"4x
'11x	X	И	J	К	Л	M	Н	О	47
'12x	П	Ч	P	C	T	У	В	Щ	″5x
'13x	Ш	Ы	3	[		]	Ь	Ъ	J.
'14x	•	A	Б	Ц	Д	Е	Φ	Γ	"6x
'15x	X	И	J	К	Л	M	Н	0	OX.
'16x	П	Ч	P	C	Т	У	В	Щ	″7x
′17x	Ш	Ы	3	_	_	№	Ь	Ъ	1 1
'22x			ў						″9x
'23x									J JX
'26x			ў						"Bx
'27x									DX
	″8	"9	"A	″В	"C	"D	"E	"F	

ts1-stixgeneral

	'0	'1	′2	'3	'4	'5	<i>'</i> 6	'7	
'00x	`	,	^	~		"	٥	~	<i>"</i> •
'01x	Ü	-		5	ı	,			″0x
′02x			,,						″1x
′03x	<b>←</b>	$\rightarrow$							IX
′04x					\$			•	″2x
′05x			*		,			/	ZX
'06x	О	1	2	3	4	5	6	7	″3x
′07x	8	9			(	_	>		3x
′10x									″4x
'11x						$\mho$		0	4X
′12x								Ω	″5x
′13x							1	1	3 SX
′14x	`								″6x
′15x							<b>J</b>		ox
′16x									"7x
′17x							~		1 / X
′20x	Ü	~	"	"	†	‡	II	%0	″8x
'21x	•		\$	¢	f				OX
'22x			£	Ŗ.				TM	″9x
'23x	%00			№	7.	е	0		9x
′24x			¢	£	¤	¥	1	§	"Ax
'25x		©	a		٦	P	®	_	AX
′26x	0	±	2	3	,	μ	P		"Bx
′27x	*	1	0		1/4	1/2	3/4	€	Xa
'32x							×		// D.
'33x									"Dx
′36x							÷		//
′37x									"Fx
	″8	″9	" A	″в	"C	"D	"E	"F	

## 5.2 Math fonts

stix-mathrm

	'0	'1	′2	'3	'4	′5	<b>'</b> 6	′7	
'00x	Γ	Δ	Θ	Λ	Ξ	П	Σ	Υ	″0x
'01x	Φ	Ψ	Ω	α	β	γ	δ	$\epsilon$	UX
'02x	ζ	η	θ	ι	κ	λ	μ	ν	″1x
'03x	ξ	π	ρ	σ	τ	υ	ф	χ	IX
'04x	Ψ	ω	ε	θ	ω	Q	ς	φ	″2x
'05x	$\nabla$	д	_	+	±	<b></b>	(	)	2X
'06x	0	1	2	3	4	5	6	7	″3x
'07x	8	9	:	;	*	=	\$	?	3x
'10x	!	Α	В	С	D	Е	F	G	″4x
'11x	Н	I	J	K	L	M	N	О	4X
′12x	P	Q	R	S	Т	U	V	W	″5x
′13x	X	Y	Z	[	\	]	{	/	5X
'14x	}	a	b	С	d	e	f	g	″6x
'15x	h	i	j	k	1	m	n	О	OX.
′16x	p	q	r	s	t	u	v	w	″7x
′17x	х	у	z	1	J	#	%	,	/ X
'20x	`	1	^	~	-	U	•		″8x
'21x	2	۰	~	٥	٤	,	٦	-	OX
'22x	_	-	<b>→</b>		••••	<b>+</b>		_	″9x
'23x	*	&	@	7		×	≤	÷	9x
'24x	Z	/	Э	†	‡	•			"Ax
'25x	,	"	///	\	"	""	^	!!	AX
′26x	-	/	??	С	////		0		"Bx
'27x	$\Diamond$	$\triangle$	3	$\Omega$	1	Å	Ь	Ð	DX
'30x	٦	L	Д	₽	38	A	С	3	"Cx
'31x	∄	Ø	Δ	€	∉	€	€	∌	CX
'32x	Э		÷	≥	\	0	•	∝	"Dx
'33x	∞	L		A	∢	I	ł	II	DX
'34x	#	٨	٧	Λ	U		:	Ø	"Ex
'35x	::	÷	-:	H	<b>∻</b>	~	~	~	EX
'36x	~	?	*	≂	~	≄	~	≆	"Fx
'37x	<b>≇</b>	≈	*	≊	≋	≅	×	\$	r X
	″8	″9	"A	″В	"C	"D	″E	"F	

stix-mathit

	'0	′1	′2	'3	'4	′5	<i>'</i> 6	′7	
'00x	Γ	Δ	Θ	Λ	Ξ	П	Σ	Y	// 0
'01x	Φ	Ψ	Ω	α	β	γ	δ	$\epsilon$	"0x
'02x	ζ	η	θ	ı	κ	λ	μ	ν	″1x
'03x	ξ	π	ρ	σ	τ	υ	φ	χ	IX
'04x	Ψ	ω	ε	θ	$\overline{w}$	Q	ς	φ	"2x
'05x	$\nabla$	д	Ж	ב	ょ	٦	<b>&gt;</b>	۵	ZX
'06x	0	1	2	3	4	5	6	7	″3x
'07x	8	9		,	<	ħ	>	*	3X
'10x	≨	A	В	C	D	E	F	G	"4x
'11x	Н	I	J	K	L	M	N	0	4X
'12x	P	Q	R	S	T	$\boldsymbol{U}$	V	W	″5x
'13x	X	Y	Z	b	4	#		_	JA
'14x	$\hbar$	а	b	c	d	e	f	g	"6x
'15x	h	i	j	k	l	m	n	o	O X
′16x	p	q	r	S	t	и	υ	w	″7x
'17x	x	y	Z.	ı	J	≩	«	(	1 .
'20x	`	,	^	~	_	J	•		″8x
'21x	2	۰	~	٠	•	,	٦	_	OX
'22x	1	<b>←</b>	<b>→</b>		••••	<b>↔</b>		]	″9x
'23x	*	-	^	~	~	^	~	~	) 9x
'24x	^	~	~						"Ax
'25x		_	ſ	J		-		~	AX
'26x					_				""
'27x	>>	Ŏ	*	*	*	≰	≱	≲	"Bx
'30x	≳	\$	≵	\$	≷	\$	≹	~	"Cx
'31x	>	≼	≽	≾	≿	*	<b>*</b>	C	CX
'32x	)	⊄	⊅	⊆	⊇	⊈	⊉	Ç	"Dx
'33x	⊋	⊌	⊍	⊎	⊏	コ	⊑	⊒	DX
'34x	П	Ц	Ф	θ	8	0	0	0	"Ex
'35x	*	⊜	Θ	Ш	В	$\boxtimes$		⊢	LX
'36x	-1	Т	1	F	þ	F	I⊢	II⊢	"Fx
'37x	I⊨	¥	¥	⊮	¥	⊰	۶	⊴	ГX
	″8	″9	″A	″В	"C	"D	"E	"F	

stix-mathsf

	0'	′1	′2	'3	'4	<i>'5</i>	′6	′7	
'00x	Г	Δ	Θ	٨	Ξ	П	Σ	Υ	".0
'01x	Ф	Ψ	Ω	α	β	γ	δ	ε	"0x
'02x	ζ	η	θ	ι	κ	λ	μ	ν	″1x
'03x	ξ	π	ρ	σ	τ	υ	ф	χ	1X
'04x	Ψ	ω	ε	θ	ω	6	ς	φ	″2x
'05x	∇	9	c	)	-	=	≡	≣	2X
'06x	0	1	2	3	4	5	6	7	″3x
'07x	8	9	ł	ŀ	ı	п	Ш	1111	3x
'10x	\$→	Α	В	С	D	Е	F	G	″4x
'11x	Н	I	J	K	L	М	N	0	4X
'12x	Р	Q	R	S	Т	U	٧	W	″5x
′13x	Х	Y	Z	←~	₹	←	⇒	1	) JX
′14x	₩	а	b	С	d	е	f	g	″6x
′15x	h	i	j	k	I	m	n	0	OX.
′16x	р	q	r	s	t	u	٧	w	″7x
′17x	х	у	z	- 1	J	<b>←</b>	1		/ X
'20x	`	,	^	~	-	Ü			″8x
'21x	2	٥	~	٥	•	,	٦	_	OX.
'22x	_	<b>←</b>	<b>→</b>			<b>+</b>			″9x
'23x	*	$\rightarrow$	<b>1</b>	$\leftrightarrow$	<b>1</b>	Υ.	7	7	9x
'24x	/	<del>\/</del>	<i>→</i> >	<b>K</b> ~	~	<del>~</del>	<b>†</b>	<b>→</b>	"Ax
'25x	*	$\leftarrow$	$\rightarrow$	$\leftarrow$	1	$\mapsto$	Ţ	<b>1</b>	AX
'26x	<i>←</i>	$\hookrightarrow$	↔	9→	↔	↔	Ź	1	"Bx
'27x	r	٦	Ļ	コ	4	←	$\rightarrow$	_	DX
'30x	₩	Q	Ö	_	_	1	1	_	"Cx
'31x	<b>→</b>	l	1	⇄	1↓	<b>\$</b>	⇇	11	CX
'32x	⇉	<b>#</b>	<b>=</b>	=	#	<b>#</b>	<b>∌</b>	<b>←</b>	"Dx
'33x	1	$\Rightarrow$	₩	$\Leftrightarrow$	<b>\$</b>	4	1	Ø	
'34x	4	€	⇒	₩-	>	<b>\$</b>	<b>‡</b>	<b>←</b> ···	"Ex
'35x	1	>	<b>↓</b>	⊬	<b>→</b>	<b>\( \psi\)</b>	仓	⇒	ĽX.
'36x	Ŷ	슣	<del>-&gt;&gt;</del>	<b>↓</b> ↑	⇉	++	+>	<del>())</del>	"Fx
'37x	<del>(  -</del>	₩	<del>(  )</del>	←	<b>→</b>	↔	⇑	₩	L'X
	"8	″9	" A	″В	"C	"D	"E	"F	

<sup>\*&</sup>quot;28, "3A, "7B and "7C do not exist in STIX OpenType fonts.

stix-mathsfit

	0'	′1	′2	<i>'3</i>	'4	′5	<i>'</i> 6	′7	
'00x	Γ	Δ	Θ	Λ	Ξ	П	Σ	Υ	″0x
'01x	Φ	Ψ	Ω	α	β	γ	δ	$\epsilon$	UX
'02x	ζ	η	θ	ι	κ	λ	μ	ν	″1x
'03x	ξ	π	ρ	σ	τ	υ	φ	χ	IX
'04x	Ψ	ω	ε	θ	ω	Q	ς	φ	″2x
'05x	7	д	₩	<b>←</b> ~~~	<del>«</del> +	<del>«</del> II-	<del>«</del> -I	<b>«</b> <	2 x
'06x	0	1	2	3	4	5	6	7	″3x
'07x	8	9	<b>←</b> ·····	<del>(</del>	<del>(  </del> (	<del>«</del> <	<del>«</del> K	₩K	3 SX
′10x	<del>**</del>	Α	В	С	D	Ε	F	G	″4x
'11x	Н	I	J	K	L	М	Ν	0	1 4x
'12x	Р	Q	R	S	T	U	V	W	″5x
'13x	X	Y	Z	<b>←</b>	€=	<b>←</b>	₹	<b>&gt;</b> →	J SX
′14x	⇒	а	Ь	С	d	е	f	g	″6x
'15x	h	i	j	k	1	m	n	0	
′16x	р	9	r	s	t	и	V	W	″7x
′17x	х	У	Z	1	J	€	∌	^	] /x
'20x	`	,	^	~	-	·	•	••	″8x
'21x	2	۰	~	٥	•	,	٦	_	OX.
'22x	_	-	<b>→</b>	•••	••••	<b>↔</b>		-	″9x
'23x	*	<del></del>	<del>  &gt;</del>	#	<b>*</b>	<b>*</b>	<b>→</b>	⊭	) JA
'24x	⇒	ţ.	<b>‡</b>	↔	₽	<b>←</b> -	<b>-→</b>	<del>&lt;</del>	"Ax
'25x	>	> <b>»</b>	>	<b>T</b>	1	<b>&gt;+&gt;</b>	<b>&gt;</b>	<b>&gt;</b> **	AX
'26x	<b>&gt;+&gt;&gt;</b>	<b>&gt;#&gt;&gt;</b>	~	<b>—</b>		<b>»</b> —	•←	→•	"Bx
'27x	•	<b>→•</b>	\ <u>\</u>	7	5	7	<i>\</i>	2	DX.
'30x	X	X	X	×	X	X	X	X	"Cx
'31x	X	X	×	X	<b>→</b>	♪	7	Ų	- CX
'32x	4	Σ	(	~	J	⊃ı	户	Ŋ	"Dx
'33x	G	Ó	Ò	₹	←	↔	<del>→</del>	<del>+</del>	] DX
'34x	**	↔	₹	4	<del>←</del>	1	1	4	"Ex
'35x	t	$\overline{}$	1	<u></u>	-1	Ŧ	Ţ	₩	Ex
'36x	<del></del> 1	1	1	4	<u> </u>	1	Ţ	+	"Fx
'37x	<b>⊢</b>	1	1	<b>=</b>	11	$\Rightarrow$	#	<b>±</b>	f FX
	″8	″9	"A	″В	"C	"D	"E	"F	

<sup>\*&</sup>quot;28, "7B and "7C do not exist in STIX OpenType fonts.

stix-mathtt

	0'	′1	′2	'3	'4	<i>'</i> 5	<b>'</b> 6	′7	
'00x	C	<b>⊕</b>	<b>←</b>	$\longrightarrow$	$\longleftrightarrow$	$\leftarrow$	$\Longrightarrow$	$\iff$	″0x
'01x	←	$\longmapsto$	$\Leftrightarrow$	$\Longrightarrow$	~~~>	7	<i>∽</i>	•	OX.
'02x	Q	<b>♦</b>	*	P	§	<del></del>	=	=	″1x
'03x	<b>=</b>	=	=	=	11	11	=	≕	1X
'04x	$\stackrel{\sim}{\longrightarrow}$	₹	≈	≅	\$	₩	≥	⊊	″2x
'05x	€	₽	⊱	→	Υ	T	ф	٦	2x
'06x	0	1	2	3	4	5	6	7	″3x
'07x	8	9	<b>)</b>	J.		·.	·.	::	) JX
'10x	∷	A	В	C	D	E	F	G	″4x
'11x	Н	I	J	K	L	М	N	0	4X
'12x	P	Q	R	S	Т	U	V	W	″5x
′13x	Х	Y	Z	::	0	$\odot$	•	•	) JX
′14x	₫̂	a	ъ	С	d	е	f	g	″6x
'15x	h	i	j	k	1	m	n	0	OX.
′16x	р	q	r	s	t	u	v	W	″7x
'17x	x	У	z	1	J	0	•		/ X
'20x	0	ρ	1	4	•	*	*		″8x
'21x				A	lack	Δ	0	巴	OX.
'22x	Б		<u> </u>	Ф	9	Ф	Ф	$\overline{\mathcal{C}}$	″9x
'23x	7						Δ	*	9x
'24x	☆	×	×	×	*	<b>(</b> ×	×	Ô	"Ax
'25x	8	<b>⊕</b>	A	Δ	$\triangle$	_	∟	° 9	AX
'26x	П	О	∀	Ū	Ā	Ŋ	٣	U	"Bx
'27x	Û	C							DX
	″8	″9	"A	″В	"C	"D	″E	"F	

<sup>\*&</sup>quot;7B and "7C do not exist in STIX OpenType fonts.

stix-mathbb

'00x     □       '01x     ¾       '02x     □	
'02x	
'02x	,,,
'03x   m   m	″1x
'04x ≥ ≦	"0
$05x \geq 3 \leq 3$	2x
'06x 0 1 2 3 4 5 6 7	"0
'07x 8 9 ≫ € ⊃ ⊊ ⊋ ⊊	″3x
'10x ⊋ A B C D E F G	
'11x	″4x
$^{\prime}12x$ P Q R S T U V W	
$^{\prime}13x$ $\times$ $\mathbb{Y}$ $\mathbb{Z}$ $\dot{\subseteq}$ $\dot{\subseteq}$ $\dot{\subseteq}$ $\dot{\subseteq}$ $\dot{\subseteq}$	″5x
$^{\prime}14x$ $\gtrsim$ a b c d e f g	".
'15x h i j k l m n o	‴6x
'16x p q r s t u v w	""
'17x x y z 1 1 ∫ ⊊ ⊋ ^	″7x
'20x	"0
'21x '	── ″8x
'22x → → · · · · · · · · · · · · · · · · ·	"-
'23x * ⊕ ₩ M □ □ ■	″9x
'24x ⊌ Å V A ♥ M ₩ V	
$^{\prime}25x$ $^{\prime}$ $^{\prime}$ $^{\prime}$ $^{\prime}$ $^{\prime}$ $^{\prime}$ $^{\prime}$ $^{\prime}$ $^{\prime}$ $^{\prime}$ $^{\prime}$	——————————————————————————————————————
$^{\prime}26x$ $\triangle$ $\times$ $\overline{\nabla}$ $\vee$ $\triangle$ $\Rightarrow$ $\Rightarrow$ $\Rightarrow$	
	—— "Bx
'30x	"Cx
'31x \ \equiv \ \equiv \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	— CX
'32x ≥ ≤ ≥ ≤ ≥ ≤ ≤ ≤	//-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$^{\prime}34x$ $\gtrsim$ $\geq$ $\geq$ $\geq$ $\geq$ $\leq$ $\leq$	
$  35x   \geqslant   \overline{\overline{z}}   \overline{z}	————"Ex
$36x \stackrel{\sim}{\leq} \ll \gg \ll \times \times \varnothing$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	—— "Fx
"8 "9 "A "B "C "D "E "F	

<sup>\*&</sup>quot;7B and "7C do not exist in STIX OpenType fonts.

stix-mathbbit

	'0	′1	′2	'3	'4	′5	<b>'</b> 6	′7	
'00x	49	<b>7</b> →	≱	¥	≰	≰	⊈	⊉	".0
'01x	≉	≇	≇	≰	*	≪	*	∌	″0x
'02x	ø	∉	∉	∉	₹	*	≰	≰	"4
'03x	≱	≱	¢	⊅	<b>#</b>	≴	<b>*</b>	<b>#</b>	″1x
'04x	<b>≠</b>	∉	∌	≉	≢	ŧ	*	₹	″.0
'05x	₹	*	≯	₩	∕dl	I≯	*	¥	″2x
'06x	0	1	2	3	4	5	6	7	″3x
'07x	8	9							3x
′10x		A	B	C	D	E	F	G	″4x
'11x	Н	/	J	K	L	M	N	0	4x
'12x	P	Q	R	\$	T	U	V	W	″5x
'13x	X	Y	$\mathbb{Z}$						J SX
′14x		а	Ь	C	d	е	f	g	″6x
'15x	h	Ī	j	k	1	m	n	0	OX.
'16x	p	q	ľ	S	£ .	Q.J	₽/	₩/	″7x
′17x	X	У	Z	Ø	J	£			1 1 1
'20x	`	,	^	~	_	_	•		″8x
'21x	,	٥	~	٠	٠	,	٦	_	OX.
'22x	_	+	<b>→</b>		••••	<b>+</b>		]	″9x
'23x	*	≨	⊋			а	D	₫	31
'24x	₽	S	U	UU	n n	C	€	m	"Ax
'25x	Ф	Ψ	址	Ψ	4	Т		<u>ls</u>	HX.
'26x	F	⊣ı	╡	<b>⊒</b> I	H	=	<b>±</b>	÷	"Bx
'27x	П	Т	П	F	+	Ŷ	Y	Î	DX
'30x	#	#		#	:	₩	<b>≫</b>	<b>\(\leq</b>	"Cx
'31x	≥	///	III	//					OX.
'32x		•	<b>(</b>	<b>♦</b>	<b>\( \rightarrow</b>				"Dx
'33x			•	$\bigcirc$	0	•	•		DX
'34x	<b>*</b>	<b>♦</b>	<b>*</b>	<b>♦</b>	•	•	<b>*</b>	•	"Ex
'35x	0	•	0	☆	*	*	•	₿	EX
'36x	₹	~~	=			0	Z	•	"Fx
'37x	≎	)	(	φ	ð	<u>ڼ</u>	•	•	r x
	″8	″9	"A	″В	"C	"D	"E	"F	

<sup>\*&</sup>quot;7B and "7C do not exist in STIX OpenType fonts.

stix-mathscr

	0'	′1	′2	′3	'4	′5	<b>'</b> 6	′7	
'00x	⊵	<b>⊶</b>	•••	~	+	Т	V	⊼	″0x
'01x	▽	₽	Δ	<b>♦</b>	•	*	M	×	UX
'02x	×	$\rightarrow$	~	~	Υ	٨	€	∍	″1x
'03x	M	W	Ф	#	≪	>	<b>**</b>	<b>&gt;&gt;&gt;</b>	1X
'04x	<u> </u>	<u>&gt;</u>	<	>	*	≽	≰	*	- "2x
'05x	⊈	⊉	Ş	⊋	\$	<i>≥</i>	⋨	<i>≽</i>	ZX
'06x	⋪	⋫	⊉	⊭	÷	•••		٠.	″3x
'07x	€	⋳	e	Ė	⋶	Ē	€	€	J JX
'10x	→	$\mathscr{A}$	${\mathscr B}$	$\mathscr{C}$	D	E	F	$\mathscr{G}$	″4x
'11x	$\mathcal{H}$	I	J	K	${\mathscr L}$	M	N	0	47
'12x	$\mathscr{P}$	Q	${\mathscr R}$	8	$\mathscr{T}$	$\mathscr{U}$	V	W	″5x
'13x	$\mathscr{X}$	¥	${\mathscr Z}$	Ð	Ð	⋾	⋾	E	OA .
'14x	Ø	a	C	c	d	e	f	$\mathcal{Q}$	″6x
'15x	ħ	i	j	k	$\ell$	m	n	0	OA.
'16x	12	q	1	3	ŧ	u	v	w	″7x
'17x	x	¥	z	t	I	જી			'^
'20x	`	,	^	~	ı	J	•	••	″8x
'21x	2	٥	~	٠	•	,	٦	_	OX.
'22x	_	<b>←</b>	<b>→</b>		••••	<b>+</b>		_	″9x
'23x	*	⊼	₹	Г	П	^	۵	#	JA
'24x	<b>L</b>	Г	٦	L	٦	0	⊳	I	"Ax
'25x	Φ	+	+		?	≰	$\Diamond$	4	n.
'26x		0	_		ď	*			"Bx
'27x						<b> </b>			DX.
'30x		•		_					"Cx
'31x			$\triangle$	•	Δ		<b>&gt;</b>	<b>•</b>	OA
'32x	<b>&gt;</b>	<b>&gt;</b>	$\triangleright$	▼	$\nabla$	▼	▽	•	"Dx
'33x	⊲	4	٥	◀	7	<b>♦</b>	$\Diamond$	<b></b>	J DX
'34x	•	$\Diamond$	0	0		0	•	0	"Ex
'35x	•	•	•	O	•	1	)		_ Ex
'36x	0			(	`	J	(	$\cap$	"Fx
'37x	U	4	<b>L</b>	•	•	0			r x
	″8	″9	"A	″В	"C	"D	″E	"F	

<sup>\*&</sup>quot;7B and "7C do not exist in STIX OpenType fonts.

	0'	'1	′2	'3	'4	<b>'</b> 5	<b>'</b> 6	′7	
'00x	ſ	ſſ	∭	∮	∯	∰	f	∮	″0x
'01x	∮	£	JJJJ	f	€	f	f	f	UX
'02x	ارُ	۶	ß	Ģ	<b>∮</b>	<del>/</del> >	⋠	У	″1x
'03x	ý	Ī	<u>ſ</u>	ſ	IJ	$\mathfrak{M}$	∮	∯	1X
'04x	∰	f	∳	<b>∲</b>	\$	$\mathfrak{M}$	f	£	″2x
'05x	f	<b>\$</b>	£	j	}	5	9	₽	2X
'06x	+	*	η	ý	Ī	Ţ			″3x
'07x			®	(S)		/	ð	^	3x
′10x	U	$\mathcal{A}$	В	С	$\mathcal{D}$	$\mathcal{E}$	$\mathcal{F}$	$\mathcal{G}$	″4x
'11x	$\mathcal{H}$	I	$\mathcal{J}$	$\kappa$	L	M	$\mathcal{N}$	O	4.
'12x	P	Q	$\mathcal{R}$	S	$\mathcal{T}$	v	$\mathcal{V}$	w	″5x
'13x	$\mathcal{X}$	$\mathcal{Y}$	$\mathcal{Z}$	<b>&gt;</b> #	<b>V#</b>	+	#	I	J.X
'14x	II	⊊	⊋	≨	⊋	■	<b>≤</b>	<u>&gt;</u>	"6x
'15x	≦	≧							OX.
'16x									″7x
′17x			х	F	Э	¥	œ		/ X
'20x	_≏	≐	÷	≒	::	:=	=:	<u> </u>	″8x
'21x	<u></u>	≘	<b></b>	≚	<b>*</b>	<b>≜</b>	<u>def</u>	<u>m</u>	OA
'22x	?	<b>≠</b>	=	≢	ſ	$\iint$	∭	∮	″9x
'23x	∯	∰	f	∮	∮	<b>*</b>	∭	f	91
'24x	≠	f	∮	∱	نج	۶	ر	ø	"Ax
'25x	∮	∱	¥	Ŋ	ý	Ī	<u></u>	ſ	HA.
'26x	∬	∭	∮	∯	∰	f	∳	∳	"Bx
'27x	\$	JJJ	f	ŧ	f	\$	f	j	ВХ
'30x	<b>§</b>	þ	<b>•</b>	∮	∯	*	∱	Ý	"Cx
'31x	Ī	Ī	$\int$	$\iint$	$\iiint$	$\oint$	#	#	OX.
'32x	f	f	Þ	<i>‡</i>	<i></i>	f	₹	f	"Dx
'33x	$\int$	f	j	j	ج	\$	∮	f	D <sub>X</sub>

<sup>\*&</sup>quot;09, "24, "9D, "B8, "D3 and "EE do not exist in **bold** STIX OpenType fonts.

′34x	<i>f</i>	Ŋ	ý	$\overline{\int}$	$\int$				"Ex
'35x	$ \oint $	$\blacksquare$	∰	$\int$	<b></b>	· ·	\$	<b>             </b>	EX
'36x	$\int$	₹	}	$\oint$	f	j	}	•	"Fx
'37x	•	<b></b>	$\leftarrow$	*	$\oint$	$\overline{\psi}$	$\overline{\int}$	$\int$	I I
	″8	″9	" A	″В	"C	"D	"E	"F	

	0'	'1	′2	<i>'3</i>	'4	<b>'</b> 5	<b>'</b> 6	′7			
'00x	@	->	L		1	©	ව	ા	″0x		
'01x	S	٧	\C	<b>D</b> /	$\Diamond$	A	Ψ		OX		
'02x	Ŀ	M	M	M	L	T	<b>≓</b> ⊨	⊣⊢	″1x		
'03x	0-	Ь—	—	Î	$\Diamond$	<b>\$</b>	<b>*</b>	<b>\$</b>	1 IX		
'04x			(	)	•	8	1	)	″2x		
'05x	1	<b>&gt;</b>	Ī	]	[	]	[	]	2 x		
'06x	<b>(</b>	>	*	>	₩	*	(	)	″3x		
'07x		***	4	F	<b>P</b>	<b>∠</b> s		⊳	J.X		
'10x	7	U	$\mathfrak{B}$	C	Ð	Œ	$\mathfrak{F}$	ß	″4x		
'11x	$\mathfrak{H}$	গ	$\mathfrak{F}$	Ŕ	£	907	N	D	47		
'12x	$\mathfrak{P}$	Ð	R	ဇ	T	u	V	233	″5x		
'13x	X	Ŋ	3	7	7	∠	7	_			
'14x		a	$\mathfrak{b}$	с	b	e	f	g	″6x		
'15x	ħ	i	j	ť	I	m	n	o	OX.		
′16x	þ	q	r	ß	t	u	b	m	"7x		
′17x	¥	ŋ	3	t	1	4	Ā	^	] 'X		
'20x	`	,	^	~	-	Ü	•		″8x		
'21x	,	۰	~	٠	•	,	7	_	OX.		
'22x	_	+	<b>→</b>	•••		<b>↔</b>			″9x		
'23x	*	4	¥	₩	74	Þ <sub>s</sub>	A	Ø	9x		
'24x	Ø	ø	Ø	Ø	$\Theta$	Ф	0)	0	"Ax		
'25x	<b>①</b>	Ф	Ø	Ø	Ф	0	•	8	AX		
'26x	⊗	0°	0=			*	0		"Bx		
'27x	由	À	Δ	ß	Δ	Ø	⊲।	ID	bx bx		
'30x	M	×	<u> </u>	K	×	X	X	}	" ~		
'31x	{	***	#	م	&	ф	<b>⊶</b>		"Cx		
'32x		ш	#	$\widetilde{\#}$	#	Ħ	‡	V	"-		
'33x	7	<b>•</b>	•	Q	•	Φ	·	δ	"Dx		
'34x	<b></b>	δ	•	;→	\	7	+	#	,,_		
'35x	#	<	>	+		M	4	ş	"Ex		
'36x	>>	1	Å	Ŷ	Ŧ	+	±	+2			
'37x	+	<u>,</u>	÷	<u> </u>	<u>.</u>	(+	<del>~</del>	×	"Fx		
	″8	″9	"A	″В	"C	"D	"E	"F			
*"7B an	*"7B and "7C do not exist in STIX OpenType fonts.										

	′0	'1	′2	'3	'4	′5	<b>'</b> 6	′7	
'00x	(	)	(	)	[	]			″0x
'01x	L		ſ	1	{	}	{	}	UX
'02x	<	>	«	<b>»</b>	(	)	/	\	″1x
'03x	(	)	(	)					11
'04x			[	1	{	}	{	}	"2x
'05x	<	>	<b>«</b>	<b>&gt;&gt;</b>	(	)	/	\	2 X
'06x	(	)	(	)					"3x
'07x					{	}	$\bigg  \   \bigg\{ \hspace{1cm} \bigg  \hspace{1cm}$	}	J.
'10x	<		<b>«</b>	<b>&gt;&gt;</b>			/	\	″4x
'11x	(	)							4x
'12x					{	}	$\bigg  \ \bigg  \bigg  \bigg $		″5x
'13x	<	$\rangle$	<b>(</b>	<b>&gt;&gt;</b>			/		J.A
'14x	<u>(</u>	)	T L	] J	L {	}		l l	"6x

'16x	Ţ	)	I	I				1	
					V	V	<b>V</b>	'	″7x
'17x	I	Г							/ X
′26x	<u>&gt;</u>	П	П	Σ	$\wedge$	V	$\cap$	U	"Bx
′27 <i>x</i>	/	\	0	$\oplus$	$\otimes$	U	₩	П	DX
'30x	Ц	<b>M</b>	W	X	<b>\Sigma</b>	0	$\sum$	П	"Cx
'31x	П	Σ	$\wedge$	>	$\cap$	U	/	\	OX.
'32x	$\odot$	$\oplus$	$\otimes$	U	+	П	Ш	$\wedge$	"Dx
'33x	W	X	$\Sigma$		(	)	(	)	DX
'34x	[		L	J	Γ	1	ſ	J	"Ex
'35x	{[	}	(	>	<b>«</b>	<b>&gt;&gt;</b>	(	)	
'36x		II	III	ı	II	III			"Fx
′37x			7						1 1
	″8	″9	"A	″В	"C	"D	″E	"F	

stix-extra1

	0'	'1	′2	'3	'4	'5	'6	′7	
'00x	Ш	Ш	S	2	*	*	¥	<b>+</b>	".0
'01x	Ж	<del>/</del>	S	#	*	≉	К	α·	″0x
'02x	દ	<b>3</b> <sup>1</sup>	Ø	<del>S</del>	=	<b>=</b>		*	
'03x	~	≂	<u></u>	~	h	<u>=</u> ∉	∌	₫	″1x
'04x	∌	*		<u> </u>	\$	<b>*</b>		<b></b>	".
'05x	*	*	₹	\$	*	*	\$	₽	″2x
'06x	7	()	(.)	•			g	1	"3x
'07x	r	ю	,	1	н	_	7	~	3x
′10x	7	1	V	r	_	L	fj	•	″4x
'11x	$\sqrt{2}$	$\sqrt{3}$	≢	×	$\overline{f}$	$f^T$	>	>	4x
′12x	(	<b>\(\)</b>		=	=	_		=	″5x
′13x	=	=	=	=	■	{	>	<	5 5x
′14x	>	0		$\bigcirc$	_	==	0	o.	″6x
′15x	′.		<u></u>		d ·	h ·	m	P	] Ox
′16x	s ·	y	Ø	/	\	$\nabla$	<+	+	″7x
′17x	<b>\$</b>	Д	<u> </u>		Ī	+	_	ä	] '×
'20x	⊜	Ą		₩	₩	Ξ	Λ	Ē	″8x
'21x	CTRL	RET	ESC	CMD	TAB	SPACE	DEL	ALT	ox
'22x	OPTIC	N -	ENTER	SHIFT	MOD1	MOD2	-{	]	″9x
'23x	`	,	•	"	الامر. الامر	14	K.	kerer	] 9x
'24x		-			1	<b>↓</b>	7	7	"Ax
'25x		V	ŧ		Α.	/	1	į.	AX
'26x	<del>&lt;</del>	>	7	· k	K	ke <sup>n</sup>	!	i	"Bx
'27x			×	Α	,		-	_	
'30x	$\sqrt{}$	_	_	_		J	_ ر	Α	"Cx
'31x	В	Е	Z	Н	I	K	М	N	Lox
'32x	0	Р	θ	Т	Х	0			"Dx
'33x									DA
	″8	″9	″A	″В	"C	"D	″E	"F	

#### stix-extra2

	'0	'1	′2	'3	'4	′5	<i>'</i> 6	′7	
'04x				/	*	₹	-	_	″2x
'05x	-	ΣΣ	ΣΣ						2.8
'22x				Ą		B		<b>I</b> /	″9x
'23x		<b>∡</b>		Æ		Z		ĮА	) 9x
'24x		Ø		1/		Ķ		Д	"Ax
'25x		M		Ņ		芝		Ø	HX.
'26x		Ţſ		Þ		Σ̈́		7	"Bx
'27x		Υ		Ф		Х		*	DX
'30x		Ø							"Cx
'31x									OX.
'36x									"Fx
'37x				$\mathcal{G}$					l rx
	"8	″9	″ A	″В	"C	″D	″E	"F	

#### stix-extra3

	0'	'1	′2	'3	'4	′5	'6	′7	
'00x	<b>I</b> F				1/2				"0x
'01x	Ð								UX.
'04x									″2x
'05x					≢	≊	≇		2.4
'06x		1	1						″3x
'07x									J X
	″8	″9	" A	″В	"C	"D	"E	"F	