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.

not1 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	Γ – Ω	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	•	•	-
	$\mbox{\mbox{\it mathbfsfit}}$	1D63C-1D655	1D656-1D66F	1D792-1D7A8	1D7AA-1D7C2	-
*	\mathbb	1D538-1D551	1D552-1D56B	-	-	1D7D8-1D7E1
	\mathbfbb	•	•	-	-	-
*	$\mbox{\tt mathbbit}$	•	•	-	-	-
	\mathbfbbit	•	•	-	-	-
*	\mathfrak	1D504-1D51D	1D51E-1D537	-	-	-
	$\mbox{\mbox{\it mathbffrak}}$	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	ν	U+03BD \nu
Θ	U+0398	\Theta	ξ	U+03BE \xi
Λ	U+039B	\Lambda	π	U+03C0 \pi
Ξ	U+039E	\Xi	ρ	U+03C1 \rho
Π	U+03A0	\Pi	σ	U+03C3 \sigma
Σ	U+03A3	\Sigma	au	U+03C4 \tau
Υ	U+03A5	\Upsilon	v	U+03C5 \upsilon
Φ	U+03A6	\Phi	ϕ	U+03D5 \phi
Ψ	U+03A8	\Psi	χ	U+03C7 \chi
Ω	U+03A9	\Omega	Ψ	U+03C8 \psi
α	U+03B1	\alpha	ω	U+03C9 \omega
β	U+03B2	\beta	$\boldsymbol{\varepsilon}$	U+03F5 \varepsilor
γ	U+03B3	\gamma	θ	U+03D1 \vartheta
δ	U+03B4	\delta	$\boldsymbol{\varpi}$	U+03D6 \varpi
ϵ	U+03B5	\epsilon	Q	U+03F1 \varrho
ζ	U+03B6	\zeta	ς	U+03C2 \varsigma
η	U+03B7	\eta	φ	U+03C6 \varphi
θ	U+03B8	\theta	∇	U+2207 \nabla
ı	U+03B9	\iota	∂	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	\#	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	©		U+2026	\mathellipsis
\	U+005C	\backslash	1	U+2032	\prime
£	U+00A3	\mathsterling	″	U+2033	\dprime
§	U+00A7	\mathsection	<i>///</i>	U+2034	\trprime
\neg	U+00AC	\neg, \lnot	1	U+2035	\backprime
\P	U+00B6	\mathparagraph	"	U+2036	\backdprime

***	U+2037	\backtrprime	Û	U+21E9	\downwhitearrow
^	U+2038	\caretinsert	슣	U+21EA	\whitearrowupfrombar
!!	U+203C	\Exclam	A	U+2200	\forall
-	U+2043	\hgphenbullet^*	С	U+2201	\complement
??	U+2047	\Question	3	U+2203	\exists
////	U+2057	\qprime	∄	U+2204	\nexists
\circ	U+20DD	\enclosecircle	Ø	U+2205	\varnothing
	U+20DE	\enclosesquare*	Ø	U+2205	\emptyset
\Diamond	U+20DF	$\ensuremath{\verb{\colorediam}}$	Δ	U+2206	\increment
$\dot{\wedge}$	U+20E4	\enclosetriangle		U+220E	\QED*
3		\Eulerconst	∞	U+221E	\infty
\hbar	U+210F		L	U+221F	\rightangle
\hbar		\hslash	_	U+2220	\angle
\mathfrak{F}	U+2111	\Im	4	U+2221	\measuredangle
ℓ	U+2113	\ell	∢	U+2222	\sphericalangle
80	U+2118	·	<i>:</i> .	U+2234	\therefore
\Re	U+211C	•	::	U+2235	\because
σ	U+2127		\sim	U+223F	\sinewave
1		\turnediota	Т	U+22A4	\top
Å	U+212B	\Angstrom	\perp	U+22A5	\bot
Ⅎ	U+2132	=	-}-	U+22B9	\hermitmatrix
*	U+2135		┕	U+22BE	\measuredrightangle
コ	U+2136	=	\triangle	U+22BF	\varlrtriangle
ょ	U+2137	\gimel	•••	U+22EF	\cdots
7		\daleth	Ø	U+2300	\diameter*
Ð	U+2141	\Game*		U+2302	\house
٦	U+2142	\sansLturned*	_	U+2310	\invnot
١	U+2143	\sansLmirrored*	п	U+2311	\sqlozenge*
A	U+2144	\Yup*	$\overline{}$	U+2312	\profline*
Ρ̈́	U+214A	\PropertyLine*	Ω	U+2313	\profsurf*
1		\updownarrowbar	#	U+2317	\viewdata*
\neg	U+21B4	\linefeed	<u></u>	U+2319	\turnednot
\downarrow	U+21B5	\carriagereturn		U+232C	$\var{hexagonlrbonds}^*$
$\overline{}$		\barovernorthwestarrow	\Rightarrow	U+2332	\conictaper*
$\stackrel{\longleftarrow}{\longrightarrow}$	U+21B9	\barleftarrowrightarrowbar	I	U+2336	\topbot
Q	U+21BA	\acwopencirclearrow	+		\APLnotbackslash*
\circ	U+21BB	\cwopencirclearrow	\triangle	U+2353	\APLboxupcaret*
‡	U+21DE	\nHuparrow*	?	U+2370	\APLboxquestion^*
#	U+21DF	\nHdownarrow*	≰ _	U+237C	\rangledownzigzagarrow*
<	U+21E0	\leftdasharrow*	\bigcirc	U+2394	\hexagon*
1	U+21E1	\updasharrow*	=	U+23B6	\bbrktbrk
>	U+21E2	\rightdasharrow*	Ą	U+23CE	\varcarriagereturn*
↓	U+21E3	\downdasharrow*	_	U+23E0	\obrbrak
\Leftrightarrow	U+21E6	\leftwhitearrow		U+23E1	\ubrbrak
仓		\upwhitearrow			\trapezium*
\Rightarrow	U+21E8	\rightwhitearrow	0	U+23E3	\benzenr*

```
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*
                                        igoplus
U+25A1 \mdlgwhtsquare*, \square, \Box
                                           U+25D3 \circletophalfblack*
\Box
   U+25A2 \squoval*
                                          U+25D4 \circleurquadblack*
                                        O
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*
                                        \bigcirc
                                            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+25BC \bigblacktriangledown*

    ∆ U+25EC \trianglecdot

   U+25BD \bigtriangledown
                                        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+25C7 \mdlgwhtdiamond*
                                           U+25F6 \circlelrquad*
\Diamond
                                        \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+2720 \maltese
   U+25FB \mdwhtsquare*
U+25FC \mdblksquare*
                                     ♥ U+272A \circledstar
U+25FD \mdsmwhtsquare*
                                     ★ U+2736 \varstar
* U+273D \dingasterisk
   U+25FE \mdsmblksquare*
→ U+279B \draftingarrow*
   U+25FF \lrtriangle*
\triangle
\star
   U+2605 \bigstar*

∠ U+27C0 \threedangle*

☆
   U+2606 \bigwhitestar*

    ∆ U+27C1 \whiteinwhitetriangle*

   U+2609 \astrosun
                                        U+27C3 \subsetcirc*
0
                                     <u>@</u>
   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 \mbox{ } \mbox{\mbox{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+2669 \quarternote
                                       U+2999 \fourvdots*
                                       U+299A \vzigzag*
♪
   U+266A \eighthnote
J
   U+266B \twonotes

∆ U+299B \measuredangleleft*

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

∠s U+299E \angles*

   U+266F \sharp
∠ U+299F \angdnr*
   U+2680 \dicei
                                     b U+29A0 \gtlpar*
oxdot
   U+2681 \diceii
•
                                     ∀ U+29A1 \sphericalangleup*
\Box
   U+2682 \diceiii
                                     7 U+29A2 \turnangle*
\Box
   U+2683 \diceiv

∠ U+29A4 \angleubar*

   U+2684 \dicev
   U+2685 \dicevi

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

::
○ 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*
```

1 24	U+29AE	\measangledrtose*		U+2B12	\squaretopblack
4	U+29AF	$\mbox{\tt measangledltosw}^*$		U+2B13	\squarebotblack
Ø	U+29B0	\revemptyset*		U+2B14	\squareurblack
Ø	U+29B1	\emptysetobar*		U+2B15	\squarellblack
Ø	U+29B2	\emptysetocirc*	lack lack	U+2B16	\diamondleftblack
Ø	U+29B3	\emptysetoarr*		U+2B17	\diamondrightblack
Ø	U+29B4	\emptysetoarrl*	\Diamond	U+2B18	\diamondtopblack
\oplus	U+29BA	\obot*	\Leftrightarrow	U+2B19	\diamondbotblack
\boxtimes	U+29BB	\olcross*		U+2B1A	\dottedsquare
⊗	U+29BC	\odotslashdot*		U+2B1B	\lgblksquare
Ф	U+29BD	\uparrowoncircle*			\lgwhtsquare
		\circledwhitebullet*	•		\vysmblksquare
•	U+29BF	\circledbullet*	0		\vysmwhtsquare
0°	U+29C2	\cirscir*			\pentagonblack
Ō=	U+29C3		\bigcirc		\pentagon
		\boxonbox*	\Diamond		\varhexagon
中	II+29CA	\triangleodot*	•		\varhexagonblack
\triangle		\triangleubar*			\hexagonblack
		\triangles*			\lgblkcircle
<u>ح</u>		\iinfin*	•		\mdblkdiamond
∞ &		\tieinfty*	\Diamond		\mdwhtdiamond
& &		\nvinfty*	♦		\mdblklozenge
\Box		\laplac*	♦		\mdwhtlozenge
‡		\tapiac \thermod*	•		\smblkdiamond
$\overset{+}{\mathbf{V}}$		\downtriangleleftblack*	•		\smblklozenge
▼ V		\downtrianglerightblack*	♦		\smwhtlozenge
		\blackdiamonddownarrow*	•		\blkhorzoval
†			0		\whthorzoval
♦		\blacklozenge	•		\blkvertoval
Q		\circledownarrow*	0		\whtvertoval
⊕		\blackcircledownarrow*	☆		\medwhitestar
		\errbarsquare*	*		\medblackstar
Ŧ		\errbarblacksquare*	*		\smwhitestar
$\stackrel{\triangle}{\Gamma}$		\errbardiamond*	•		\rightpentagonblack
∳		\errbarblackdiamond*	\bigcirc		\rightpentagon
δ		\errbarcircle*	₹		\postalmark
		\errbarblackcircle*	~~		\hzigzag
<u>_ls</u>	U+2AE1		k	U+1D550	
Î	U+2AF1	\topcir	ı	U+XXXX	\bracevert*
4.3	Binar	y operators			
+	U+000B	+	÷	U+00F7	\div
т -	UUUUD		_	0.001.1	/UII V

+ (U+000B +	÷	U+00F7 \div
± t	U+00B1 \pm	†	U+2020 \dagger
. (U+00B7 \cdotp, \centerdot	‡	U+2021 \ddagger
× T	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
                                  U+2217 \ast
                                  U+2218 \vysmwhtcircle
                                  △ U+25B3 \triangle, \bigtriangleup
   U+2219 \vysmblkcircle, \bullet
                                  U+2227 \wedge, \land

    U+22B4 \unlhd

   U+2228 \vee, \lor
V

▷ U+22B5 \unrhd

∩ U+2229 \cap
                                  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*
                                          П
    U+2A29 \commaminus*
                                          Ш
                                             U+2A4F \Sqcup*
   U+2A2A \minusdot
÷
                                          ⊗
                                             U+2A50 \closedvarcupsmashprod*
<u>-</u>-
   U+2A2B \minusfdots
                                              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*
                                             U+2A65 \rsub*
                                          \triangleright
П
   U+2A3F \amalg
                                          \(\frac{1}{2}\) \eqqplus
   U+2A40 \capdot*
\cap
                                            U+2A72 \pluseqq
                                              U+2AF4 \interleave
   U+2A41 \uminus*
\forall
   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		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+21CB \leftrightharpoons

⇒ U+21CC \rightleftharpoons

   U+2199 \swarrow

← 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+21D3 \Downarrow

⇔ U+21D4 \Leftrightarrow

↑ U+21D5 \Undownarrow
→ 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+21A6 \mapsto

                             ↓ U+21A7 \mapsdown

← U+21A9 \hookleftarrow

→ 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
٦
                               U+21F7 \nvleftarrow*
  U+21B1 \Rsh
P
 U+21B2 \Ldsh

→ U+21F8 \nvrightarrow*

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

→ U+21B7 \curvearrowright

⇒ U+21FB \nVrightarrow*

U+21BB \circlearrowright
U+21BC \leftharpoonup
                              \leftarrow 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+2265 \geq, \ge
                               ≦ U+2266 \leqq
  U+2226 \nshortparallel*
                               ≥ U+2267 \geqq
≤ U+2268 \lneqq
::
  U+2237 \Colon
   U+2239 \dashcolon
   U+223A \dotsminusdots
                                ≨ U+2268 \lvertneqq
:=
   U+223B \kernelcontraction
                               ÷
                               \geq 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

> U+226F \ngtr

\simeq
   U+2244 \nsime
\cong U+2245 \cong
                                ⊈ U+2270 \nleq
\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+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+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
                               ≙ 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
  U+228A \subsetneq
Ç
                            ⊊
  U+228A \varsubsetneq*
  U+228B \supsetneq
                            ⊋
  U+228B \varsupsetneq*
                            U+228F \sqsubset
⊐
  U+2290 \sqsupset
                              U+22E6 \lnsim
                            \gtrsim U+22E7 \gnsim
  U+2291 \sqsubseteq
                            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
III-
  U+22AA \Vvdash
                            : U+22F0 \adots
⊫ U+22AB \VDash
                            ∴ U+22F1 \ddots
⊬
  U+22AC \nvdash
                            € U+22F2 \disin*
⊭
  U+22AD \nvDash
                            ∈ U+22F3 \varisins*
⊮ U+22AE \nVdash
                            € U+22F4 \isins*
                            ⊯ U+22AF \nVDash
⊰ U+22B0 \prurel
                            € U+22F6 \varisinobar
  U+22B1 \scurel
                           ē U+22F7 \isinobar*
ح
                            € U+22F8 \isinvb*
\in 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+2323 \smile
  U+22D1 \Supset
⋑
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 U+27D2 \upin*
  U+22DA \lesseqgtr
                            U+22DB \gtreqless
  U+22DC \eqless
                           F U+27D4 \pushout*
>
                           ≓⊨ U+27DA \DashVDash*
  U+22DD \eqgtr
                           ⊣⊢ U+27DB \dashVdash*
U+22DF \curlyeqsucc
```

```
├─ 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*

√ U+2921 \nwsearrow*

C U+27F3 \cwgapcirclearrow*

√ U+2922 \neswarrow*

→ U+27F4 \rightarrowonoplus*

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

←→ U+27F7 \longleftrightarrow*

\leftarrow U+27F8 \Longleftarrow*
                                    J U+2926 \hkswarow*
                                    \implies U+27F9 \Longrightarrow*

⇔ U+27FA \Longleftrightarrow*

                                    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+293E \cwundercurvearrow*

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

→ U+2941 \cwcirclearrow*

1

→ U+2942 \rightarrowshortleftarrow*

   U+290A \Uuparrow*
介
   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*
   U+2915 \nVrightarrowtail*
                                       U+294D \updownharpoonleftright*
                                    1
>>> 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*

    W U+29D4 \lftimes*

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*
                                      \rightarrow 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*
1
\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*
\Rightarrow
   U+296C \rightharpoonupdash*
                                      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*

\leftarrow
                                      > 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*
                                      ≥
                                      \leq U+2A7F \lesdot*
\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+2A87 \lneq
                                           U+2AB2 \succneq*
                                             U+2AB3 \preceqq*
    U+2A88 \gneq
WWWAIIAMIWA 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+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 \eqqslantless*
                                           U+2AC6 \supsetegg
≷
   U+2A9C \eqqslantgtr*
                                            U+XXXX \nsupseteqq*
~
   U+2A9D \simless
                                             U+2AC7 \subsim*
≥\ ≥\II\>\II
   U+2A9E \simgtr
                                         N U № ∩ № U ₩ U ₩
                                             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*
><
                                         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+2ABO \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
=1

⇒ U+2B46 \RRightarrow*

   U+2AE5 \DashV
                                \Rightarrow U+2B47 \bsimilarrightarrow*
₩
   U+2AE6 \varVdash
   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+2AFO \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
                                WWW U+2B33 \longleftsquigarrow*
<del>«</del>-
   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+2B3A \nVleftarrowtail*

                               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.

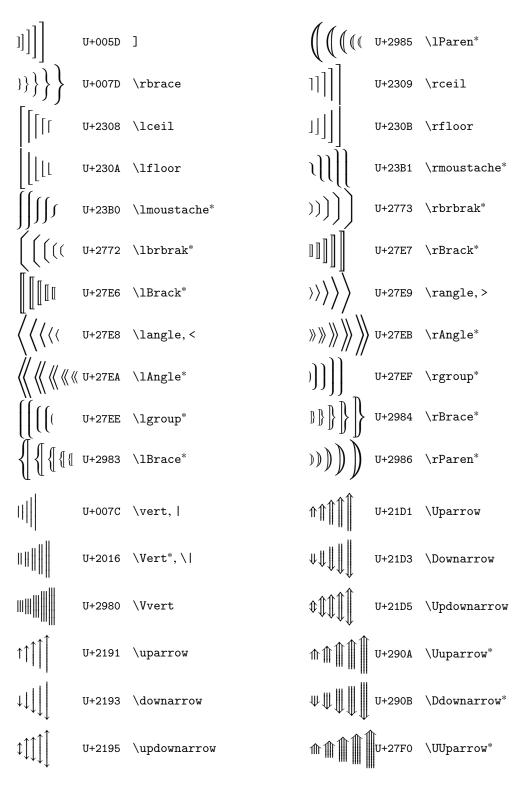
It is highly recommended that authors stick to the names below and use the upint package option to choose a style globally for their document. However, in recognition of the fact that it might occasionally be necessary to mix the two styles, alternative names have been provided for all integrals. Append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

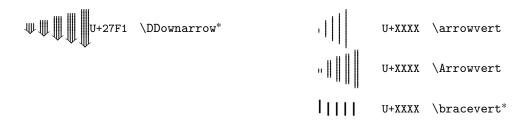
```
ſ
    U+222B \smallint
                                                U+2A10 \smallcirfnint
                                           ∮
    U+222C \smalliint
\iint
                                                U+2A11 \smallawint
\iiint
    U+222D \smalliiint
                                                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+2A0D
                                                             \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	\otimes	U+2A02	$\begin{tabular}{ll} \verb&\begin{tabular}{ll} $
П	П	U+2210	\coprod	\cup	$oldsymbol{\cdot}$	U+2A03	$\begin{tabular}{ll} \verb&\begin{tabular}{ll} $
\sum	$\overline{\sum}$	U+2211	\sum	\forall	\forall	U+2A04	\biguplus*
\land	$\overline{\wedge}$	U+22C0	\bigwedge	П	П	U+2A05	\bigsqcap*
\vee	V	U+22C1	\bigvee	\sqcup		U+2A06	\bigsqcup*
\cap	À	U+22C2	\bigcap	\wedge	\bigwedge	U+2A07	\conjquant^*
U	ij	U+22C3	\bigcup	\mathbb{W}	\mathbb{W}	U+2A08	\disjquant^*
\bowtie	\bowtie	U+27D5	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	X	X	U+2A09	\bigtimes*
\bowtie	\bowtie	U+27D6	\rightouterjoin^*	Σ	\sum	U+2A0A	$\mbox{\mbox{\mbox{modtwosum}}}^*$
M	\mathbb{M}	U+27D7	\fill	\mathbb{N}	$\overline{\bowtie}$	U+2A1D	\Join*
\perp	\perp	U+27D8	\bigbot*	\triangleleft	$\overline{\Diamond}$	U+2A1E	\bigtriangleleft*
Т	Ţ	U+27D9	$\begin{center} \begin{center} \beg$	ŝ	9	U+2A1F	\zcmp*
/		U+29F8	\xspace	>>	» ≫	U+2A20	\zpipe*
\	ĺ	U+29F9	\xbsol*	1	1	U+2A21	\zproject*
0	\odot	U+2A00	\bigodot*			U+2AFC U+2AFF	\biginterleave \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*
٦	U+231F	\lrcorner*	¥	U+2996 \Rparenless*
(U+27EC	\Lbrbrak*	(U+2997 \lblkbrbrak*
)	U+27ED	\Rbrbrak*)	U+2998 \rblkbrbrak*
1	U+2987	\llparenthesis*	}	U+29D8 \lvzigzag*
D	U+2988	\rrparenthesis*	{	U+29D9 \rvzigzag*
1	U+2989	\llangle*	***	U+29DA \Lvzigzag*
>	U+298A	\rrangle*	{	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*
(·	U+2991	\langledot*	(U+27EC \Lbrbrak*
>	U+2992	\rangledot*)	U+27ED \Rbrbrak*

4.10 Accents

À	U+0300	\grave	\dot{b}	U+0315	\ocommatopright
ĥ	U+0301	\acute	$\vec{\bar{b}}$	U+031A	\droang
\hat{b}	U+0302	\hat	$\frac{b}{b}$	U+20D0	
\tilde{b}	U+0303	\tilde			\leftharpoonaccent
\bar{b}	U+0304	\bar	<i>b</i> ←	U+20D1	\rightharpoonaccent
\breve{b}	U+0306	\breve	$\stackrel{b}{\rightarrow}$	U+20D6	\leftarrowaccent
j.	U+0307	\dot	b	U+20D7	\vec, \rightarrowaccent
; h	U+0308	\ddot	$ec{b}$	U+20E1	\leftrightarrowaccent
ĥ	U+0309	\ovhook	\ddot{b}	U+20DB	\dddot
ĥ	U+030A	\mathring	\overline{b}	U+20DC	\ddddot
\check{b}	U+030C	\check	\overline{b}	U+20E7	\annuity
$\dot{ec{b}}$	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*	${xxx}$	U+20D0	\overleftharpoon
$\overleftarrow{x}\overrightarrow{x}\overrightarrow{x}$	U+20D6	\overleftarrow			-
$\overrightarrow{x}\overrightarrow{x}\overrightarrow{x}$	U+20D7	\overrightarrow	$\overrightarrow{x}\overrightarrow{x}$	U+20D1	\overrightharpoon
xxx	U+20EF	\underrightarrow	xxx	U+20EC	\underleftharpoon
\overrightarrow{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	' 5	<i>'</i> 6	'7	
'00x	Γ	Δ	Θ	Λ	Ξ	П	Σ	Υ	″0x
'01x	Φ	Ψ	Ω	ff	fi	fl	ffi	ffl	J OX
'02x	1	J	`	,	~	v	-	٥	″1x
'03x	5	ß	æ	œ	ø	Æ	Œ	Ø	1 1 1 1 1
'04x		!	,,	#	\$	%	&	,	″2x
'05x	()	*	+	,	-		/	2.
'06x	0	1	2	3	4	5	6	7	″3x
'07x	8	9	:	;	i	=	ن	?	J.X
'10x	@	A	В	С	D	Е	F	G	"4x
'11x	Н	I	J	K	L	M	N	О	44
'12x	P	Q	R	S	Т	U	V	W	″5x
'13x	X	Y	Z	["]	^	•	J.X
'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			"	~		
	″8	″9	"A	″В	"C	"D	"E	"F	

ot1-stixgeneralsc

	0'	'1	′2	'3	'4	<i>'5</i>	<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	`	,	~	J	-	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	0	1 4x
'12x	P	Q	R	S	Т	U	V	W	″5x
'13x	X	Y	Z	[44]	^	•	J SX
'14x	•	A	В	С	D	Е	F	G	″6x
'15x	Н	I	J	K	L	M	N	0	1 Ox
'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	".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	

^{*&}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	`	,	^	~		"	۰	~	// 0
'01x	Ü	-		5	ı	,	<	>	″0x
'02x	"	,,	,,	«	»	-	_		″1x
'03x	0	I	J	ff	fi	fl	ffi	ffl	1X
'04x	_	!	"	#	\$	%	&	,	″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	[\]	٨	_	5x
′14x	4	A	В	С	D	Е	F	G	″6x
′15x	Н	I	J	K	L	M	N	О	OX.
′16x	P	Q	R	S	Т	U	V	W	″7x
′17x	X	Y	Z	{	I	}	~	-	/ x
'20x	Ă	Ą	Ć	Č	Ď	Ě	Ę	Ğ	″8x
'21x	Ĺ	Ľ	Ł	Ń	Ň	Ŋ	Ő	Ŕ	οx
'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	<i>,</i> ,
'25x	Ĺ	Е	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	£	BX
'30x	À	Á	Â	Ã	Ä	Å	Æ	Ç	"Cx
'31x	È	É	Ê	Ë	Ì	Í	Î	Ϊ	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	// p
'35x	È	É	Ê	Ë	Ì	Í	Î	Ï	"Ex
'36x	Đ	Ñ	Ò	Ó	Ô	Õ	Ö	Œ	// p
'37x	Ø	Ù	Ú	Û	Ü	Ý	Þ	SS	"Fx
	″8	″9	"A	″В	"C	"D	"E	"F	
	1	1	1	1	1	ı	1	1	I .

ot2-stixgeneral

	0'	'1	′2	'3	'4	' 5	' 6	′7	
'00x	Њ	Љ	Ų	Э	I	ϵ	Ђ	ħ	"0x
'01x	њ	љ	Ų	Э	i	E	ħ	ħ	0x
'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	»	?	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	

^{*&}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	Ц	Э	I	ϵ	Ђ	ħ	″0x
'01x	Њ	Љ	Ų	Э	I	€	Ђ	Ћ	OX .
'02x	Ю	Ж	Й	Ë	V	9	S	Я	″1x
'03x	Ю	Ж	Й	Ë	V	9	S	Я	1 IX
'04x	••	!	,,	Ъ	o	%	,	,	″2x
'05x	()	*	ъ	,	-		/	2x
'06x	0	1	2	3	4	5	6	7	″3x
'07x	8	9	:	;	«	Й	»	?	
'10x	J	A	Б	Ц	Д	E	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	
'14x	4	A	Б	Ц	Д	Е	Φ	Γ	″6x
'15x	X	И	J	К	Л	M	Н	О	OX.
'16x	П	Ч	P	C	T	У	В	Щ	″7x
'17x	Ш	Ы	3	_	_	№	Ь	Ъ	1 A
'22x			ў						″9x
'23x) 9x
'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	`	,	^	~		"	۰	~	".
'01x	U	-		5	ı	,			″0x
'02x			,,						,,,
'03x	←	\rightarrow							″1x
'04x					\$,	".0
'05x			*		,			/	″2x
'06x	О	1	2	3	4	5	6	7	″.0
'07x	8	9			(_	>		″3x
′10x									" 4
'11x						Ω		0	″4x
'12x								Ω	″-
′13x							1	\	″5x
′14x	`								".0
'15x							J		″6x
′16x									"7
′17x							~		′′7x
'20x	Ü	~	"	"	†	‡		%0	″8x
'21x	•		\$	¢	f				8x
'22x			£	Ŗ.				TM	″9x
'23x	%00			№	7.	е	0		9x
′24x			¢	£	¤	¥	ł	§	"Ax
'25x		©	a		٦	P	®	-	AX
′26x	0	±	2	3	′	μ	¶		″D
′27x	*	1	o		1/4	1/2	3/4	€	"Bx
'32x							×		//-
'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	' 6	′7	
'00x	Γ	Δ	Θ	Λ	Ξ	П	Σ	Υ	″.
'01x	Φ	Ψ	Ω	α	β	γ	δ	ϵ	"0x
'02x	ζ	η	θ	ı	κ	λ	μ	ν	",
'03x	ξ	π	ρ	σ	τ	υ	ф	χ	"1x
'04x	Ψ	ω	ε	θ	π	Q	ς	φ	″.
'05x	∇	д	_	+	±		()	"2x
'06x	0	1	2	3	4	5	6	7	// 0
'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	// ⊏
′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	X	У	z	1	J	#	%	,	/ X
'20x	`	,	^	~	-	J			″8x
'21x	2	۰	~	٥	٤	,	٦	_	ox.
'22x	_	-	→		••••	+		_	″9x
'23x	*	&	@	_		×	≤	÷	9x
'24x	Z	/	Э	†	‡	•			"Ax
'25x	,	"	///	1	"	""	^	!!	AX
′26x	-	/	??	С	////	I	0		"Bx
'27x	\Diamond	Δ	3	σ	1	Å	Ь	Ð	DX
'30x	٦	L	Д	₽	38	A	С	3	"Cx
'31x	∄	Ø	Δ	€	∉	€	∋	∌	CX
'32x	€		÷	≥	\	0	•	\propto	// D
'33x	∞	L		4	∢		ł	II	"Dx
'34x	#	٨	٧	Λ	U	:.	:	Ø	″E
'35x	::	÷	-:	∺	∻	~	~	~	"Ex
'36x	~	7	*	≂	~	≄	~	≆	"Fx
'37x	≇	≈	*	≊	≋	≅	×	\$	FX
	″8	″9	″A	″В	"C	"D	″E	"F	

stix-mathit

	'0	′1	′2	'3	'4	' 5	<i>'6</i>	'7	
'00x	Γ	Δ	Θ	Λ	Ξ	П	Σ	Y	".
'01x	Φ	Ψ	Ω	α	β	γ	δ	ϵ	"0x
'02x	ζ	η	θ	ı	κ	λ	μ	ν	" 4
'03x	ξ	π	ρ	σ	τ	υ	φ	χ	"1x
'04x	Ψ	ω	ε	θ	\overline{w}	Q	ς	φ	".
'05x	∇	д	×	ב	ょ	7	⊳	⊲	"2x
'06x	0	1	2	3	4	5	6	7	".0
'07x	8	9		,	<	ħ	>	*	"3x
′10x	≨	A	В	C	D	E	F	G	" •
'11x	H	I	J	K	L	M	N	0	"4x
′12x	P	Q	R	S	T	U	V	W	"-
'13x	X	Y	Z	Ь	Ц	#		_	″5x
′14x	ħ	а	b	c	d	e	f	g	"6x
′15x	h	i	j	k	l	m	n	o	ох
′16x	p	q	r	S	t	и	υ	w	″7x
′17x	x	у	Z	ı	J	≩	«	^	/ / X
'20x	`	,	^	~	-	J	•		″8x
'21x	9	٥	~	٠	•	,	٦	-	8X
'22x	_	←	→			↔	٦	-	".
'23x	*	-	^	~	~	^	~	~	″9x
'24x	^	~	~		\sim	~			"Ax
'25x		_	J	J	_	-		~	AX
'26x)						
'27x	≫	Ŏ.	*	*	*	≰	≱	≲	"Bx
'30x	≳	\$	≵	≶	≷	\$	₹	<	// ~
'31x	>	≼	≽	≾	≿	*	*	C	"Cx
'32x)	⊄	⊅	⊆	⊇	⊈	⊉	Ç	// 5
'33x	⊋	⊌	U	⊎	⊏				"Dx
'34x	П	Ш	Φ	θ	8	0	0	0	″
'35x	*	⊜	Θ		B	\boxtimes	·	-	"Ex
'36x	4	Т	Т	F	þ	þ	II-	II⊢	" "
'37x	l⊨	¥	¥	₩	¥	⊰	۶	⊴	"Fx
	″8	″9	"A	″В	"C	"D	"E	"F	

stix-mathsf

	0'	′1	′2	'3	'4	′5	′6	′7	
'00x	Γ	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	1	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	←	1		/ X
'20x	`	,	^	~	-	Ü			″8x
'21x	2	٥	~	٥	•	,	٦	_	OX.
'22x	_	←	→			+			″9x
'23x	*	\rightarrow	1	\leftrightarrow	1	Υ.	7	7	9x
'24x	1	\/	<i>→</i> >	K ~	~	~	†	→	"Ax
'25x	*	\leftarrow	\rightarrow	\leftarrow	1	\mapsto	Ţ	1	AX
'26x	<i>←</i>	\hookrightarrow	↔	9→	↔	↔	Ź	1	"Bx
'27x	r	٦	Ļ	コ	4	←	\rightarrow	_	DX
'30x	₩	Q	Ö	_	_	1	1	_	"Cx
'31x	→	l	1	⇄	1↓	\$	⇇	11	CX
'32x	⇉	#	=	=	#	#	∌	←	"Dx
'33x	1	\Rightarrow	₩	\Leftrightarrow	\$	4	1	Ø	
'34x	4	€	⇒	₩-	>	\$	#	← ···	"Ex
'35x	1	>	↓	⊬	→	\(\psi\)	仓	⇒	ĽX.
'36x	Ŷ	슣	->>	↓ ↑	⇉	++	+>	())	"Fx
'37x	(-	₩	()	←	→	↔	⇑	₩	L'X
	"8	″9	" A	″В	"C	"D	"E	"F	

^{*&}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	ϵ	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	₩	← ~~~	« +	« II-	« -I	« <	2 x
'06x	0	1	2	3	4	5	6	7	″3x
'07x	8	9	← ·····	**	((« <	« K	₩K	3 SX
′10x	**	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	←	←=	←	₹	> →	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	_	-	→	•••	••••	↔		-	″9x
'23x	*		 >	#	*	*	→	⊭) JA
'24x	⇒	ţ.	‡	↔	₽	← -	-→	<	"Ax
'25x	>	> »	>	T	1	>+>	₩	> **	AX
'26x	>+>>	>#>>	~	—		» —	•←	→•	"Bx
'27x	•	→•	\ <u>\</u>	7	5	7	<i>\</i>	2	DX.
'30x	X	X	X	×	X	X	X	X	"Cx
'31x	X	X	×	X	→	♪	7	Ų	- CX
'32x	4	Σ	(~	J	⊃ı	户	Ŋ	"Dx
'33x	G	Ó	Ò	₹	←	↔	→	+] DX
'34x	**	↔	₹	4	←	1	1	4	"Ex
'35x	t	$\overline{}$	1	<u></u>	-1	Ŧ	Ţ	₩	Ex
'36x	 1	1	1	4	<u> </u>	1	Ţ	+	"Fx
'37x	⊢	1	1	=	11	\Rightarrow	#	±	f FX
	″8	″9	"A	″В	"C	"D	"E	"F	

^{*&}quot;28, "7B and "7C do not exist in STIX OpenType fonts.

stix-mathtt

	′0	′1	′2	'3	'4	′5	' 6	′7	
'00x	C	⊕	←	\longrightarrow	\longleftrightarrow	\leftarrow	\Rightarrow	\iff	″0x
'01x	\leftarrow	\longmapsto	\Leftrightarrow	\Longrightarrow	~~~>	7	\Rightarrow	•	UX
'02x	Q	♦	*	P	§		=	=	″1x
'03x	-	=	=	=	11	11	-	≕	1 X
'04x	~	√~	≈	≅	≨	←	≥	⊊	″2x
'05x	€	⊋	⊱	→	Υ	T	ද	٦	ZX
'06x	0	1	2	3	4	5	6	7	″3x
'07x	8	9)	J.		·.	·.	::) JX
'10x	⊞	A	В	С	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	•	•	5x
'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	Υ	✓	*	•	*	*		″8x
'21x				\triangle	lack	Δ	0	旦	OX.
'22x	Ы		<u> </u>	Ф	Ð	G	Ф	$\overline{\mathcal{C}}$	″9x
'23x	7						Δ	*	9x
'24x	☆	×	×	×	*	(×	×	ô	"Ax
'25x	8	⊕	A	Δ	\triangle	_	L	° 9	AX
'26x	Ш	Θ	⊎	Ū	Ā	Ŋ	٣	U	"Bx
'27x	Û	Ŋ							Вх
-	″8	"9	"A	″В	"C	"D	"E	"F	

^{*&}quot;7B and "7C do not exist in STIX OpenType fonts.

stix-mathbb

	′0	′1	′2	'3	'4	′5	<i>'</i> 6	′7	
'00x	Г					П			".
'01x						8			″0x
'02x									", 4
'03x		π							″1x
'04x							≽	≦	".0
'05x	≧	≨	≱	≨	≿ ≋	≨	<i>≽</i> ≉	*	″2x
'06x	0	1	2	3	4	5	6	7	".0
'07x	8	9	>>	Œ	∍	Ç	⊋	Ě	″3x
'10x	Ž	A	B	C	D	E	F	G	" 4
'11x	Н	0	J	K	L	M	N	0	″4x
'12x	P	Q	R	S	T	U	V	W	"-
'13x	×	Y	Z	≐	≐	⊆	⊇	⊊	″5x
'14x	⊋	а	Ь	C	d	e	f	g	".
'15x	h	i	j	k	0	m	n	0	"6x
'16x	р	q	r	S	ıt	u	V	W	//
'17x	X	У	Z	0	J	≅	⊋	_	″7x
'20x	`	,	^	~	-	Ü	•		"0
'21x	,	۰	~	٠	6	,	٦	-	″8x
'22x	_	←	→			↔		_	,,_
'23x	*	8	w	m	Ū	Δ	П	Ш	″9x
'24x	⊌	À	Ÿ	A	*	M	W	V	<i>"</i> •
'25x	1	ж	1	Ψ	A	¥	₹	Δ	"Ax
'26x	Δ	×	₹	≚	\triangleleft	\triangleright	=	≐	,,_
'27x	#	#	<i>~</i>	~	≈		*	â	"Bx
'30x	≊	Ŧ	±	≅	::=	==	===	#	"Cx
'31x	=	≪	>	2<	3	€	≽	€	, Cx
'32x	≽	\leq	≱	≼	≽	≨	≳≋	Ş	""
'33x	>	≨	≥	≦ >	>IIV	<u>≈</u>	≥	<i>×</i>	"Dx
'34x	2	≦	≧	*	*	<	>	€	"-
'35x	≽	=	= =	1	*	~	~	<u>≅</u>	"Ex
'36x	<u>~</u>	≪	>	<u>«</u>	×	×	⊲	<u> </u>	"-
'37x	-	⊳	€	>	≤	≥	=	⋨	"Fx
	″8	″9	″A	″В	"C	"D	"E	"F	

^{*&}quot;7B and "7C do not exist in STIX OpenType fonts.

stix-mathbbit

	'0	′1	′2	'3	'4	'5	'6	′7	
'00x	49	1 →	≱	¥	≰	≰	⊈	⊉	".0
'01x	≉	≇	≇	≰	*	≪	**	∌	″0x
'02x	ø	∉	∉	∉	₹	*	≰	≰	"4
'03x	≱	≱	¢	⊅	#	≴	*	#	″1x
'04x	<i>≠</i>	∉	∌	*	#	ŧ	*	₹	".0
'05x	₹	*	≯	₩	∕II	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	e	F	g	″6x
'15x	h	Ī	j	k	1	m	m	0	OX.
'16x	p	q	ľ	S	£ .	QJ .	V	₩/	″7x
'17x	X	У	Z	1	J	£			1 1 1
'20x	`	,	^	~	_	V	•		″8x
'21x	,	٥	~	٠	٠	,	7	_	O A
'22x	_	+	→		••••	+]	″9x
'23x	*	≨	⊋			а	D	₫	37
'24x	₽	S	U	UU	n n	C	€	M	"Ax
'25x	Т	Ψ	ъb	Ψ	4	т	Т	<u>ls</u>	AX
'26x	F	⊣ı	╡	⊒ I	H	₹	土	÷	"Bx
'27x	П	Т	П	F	+	Ŷ	ſ	Î	DX
'30x	#	#		#	:	₩	≫	€	"Cx
'31x	≱	///		//					
'32x		•	•	♦	\$				"Dx
'33x			•	\bigcirc	0	•	•		DX
'34x	*	♦	*	♦	•	•	♦	•	"Ex
'35x	0	•	0	☆	*	*	•	₿	EX
'36x	₹	~~	=			0	Z	•	"Fx
'37x	≎)	(φ	ð	<u>۵</u>	٧	•	r x
	″8	″9	"A	″В	"C	"D	"E	"F	

^{*&}quot;7B and "7C do not exist in STIX OpenType fonts.

stix-mathscr

	0'	′1	′2	′3	'4	' 5	' 6	′7	
'00x	⊵	⊶	•••		-}-	Ţ	V	⊼	// O
'01x	▽	₽	Δ	*	•	*	M	×	″0x
'02x	×	\rightarrow	~	~	Υ	٨	€	∍	"4
'03x	M	W	ф	#	<	>	**	>>>	"1x
'04x	۷I>	<u>></u>	<	>	⋞	≽	≰	*	″2x
'05x	⊭	⊉	Ę	⊋	\$	<i>≥</i>	⋨	<i>≽</i>	ZX
'06x	⋪	⋫	⊉	⊭	:	•••	.•	٠.	″3x
'07x	€	⋳	е	Ė	€	€	€	€	3 SX
'10x	→	\mathscr{A}	${\mathscr B}$	C	D	E	F	\mathscr{G}	″4x
'11x	H	Ŧ	J	Ж	\mathscr{L}	M	N	0	4x
'12x	P	Q	\mathscr{R}	S	\mathscr{T}	\mathcal{U}	V	W	″5x
'13x	${\mathscr X}$	¥	${\mathcal Z}$	Ð	Ð	Ð	ē	E	J.X
'14x	Ø	a	в	c	d	e	f	\mathcal{Q}	″6x
'15x	ħ	i	j	k	ℓ	m	n	0	OX.
'16x	P	q	*	3	t	u	v	w	″7x
'17x	x	¥	ž	t	1	જી			12
'20x	,	,	^	~	_	v	•	••	″8x
'21x	9	٥	~	٠	٠	,	7	_	OX.
'22x	_	←	→	•••	••••	↔			″9x
'23x	*	⊼	₹	_	п	\sim	۵	#	
'24x	L	Г	٦	L	_	0	⊳	I	"Ax
'25x	θ	+	+		?	<u></u> ⊁	\Diamond	Ą	HX.
'26x		0	_		~	*	ı		"Bx
'27x						▦			DX
'30x		•		_				_	"Cx
'31x			\triangle	•	Δ		>	•	OX.
'32x	>	>	\triangleright	•	∇	•	∇	•	"Dx
'33x	٥	4	٥	◀	⊲	♦	\Diamond) DX
'34x	•	\Diamond	0	0	•	0	•	0	"Ex
'35x	•	•	•	O	•	1	•		Ex
'36x	0		U	(`	J	(\cap	"Fx
'37x	\cup	4			•	0			r x
	″8	″9	" A	″В	"C	"D	"E	"F	

^{*&}quot;7B and "7C do not exist in STIX OpenType fonts.

	'0	'1	′2	'3	<i>'</i> 4	<i>'5</i>	' 6	'7	
'00x	ſ	ſſ	∭	∮	∯	∰	f	∮	″0x
'01x	∮	£	JJJJ	f	∮	f	£	£	UX
'02x	£	۶	ß	9	∮	∱	⋠	Ŋ	″1x
'03x	ý	Ī	<u>ſ</u>	ſ	IJ	\mathfrak{M}	∮	∯	1X
'04x	∰	f	\$	∳	\$	III	f	£	″2x
'05x	f	\$	£	j	}	5	9	₽	ZX
'06x	∯	*	ф	ý	Ī	Ţ			″3x
'07x			®	(S)	\	/	ð	^	ox.
′10x)	\mathcal{A}	В	С	D	\mathcal{E}	F	G	"4x
'11x	\mathcal{H}	I	\mathcal{J}	\mathcal{K}	$\mathcal L$	\mathcal{M}	\mathcal{N}	0	47
'12x	\mathcal{P}	Q	\mathcal{R}	S	\mathcal{T}	u	\mathcal{V}	w	″5x
<u>'13x</u>	\mathcal{X}	\mathcal{Y}	\mathcal{Z}	≩	≨	ł	#	I	
'14x	Ш	⊊	⊋	¥	⊋	■	≤	≥	″6x
'15x	≦	≧							
'16x									″7x
′17x			х	F	Э	¥	œ		/ A
	^	÷	÷	≒	≓	:=	=:	<u>=</u>	″8x
'21x	<u></u>	<u></u>	≙	<u>×</u>	<u>*</u>	≜	<u>def</u>	<u>m</u>	
'22x	<u>?</u>	≠	≡	#	ſ	∬	∭	∮	″9x
'23x	∯	∰	f	∮	∮	*	∭	f	91
'24x	₹	f	∮	£	£	ځ	ß	<i>§</i>	"Ax
'25x	∮	∱	¥	Ŋ	ý	Ī	<u></u>	ſ	AX
'26x	∬	∭	∮	∯	∰	f	∳	∳	"Bx
'27x	\$	JJJ	f	ŧ	ł	\$	f	j	БХ
'30x	}	þ	9	∮	∱	*	∱	Ý	"Cx
'31x	Ī	Ī	\int	\iint	\iiint	\oint	f	<i>#</i>	- CX
'32x	f	f	\oint	<i>‡</i>	<i> </i>	f	₹	f	"Dx
'33x	f	f	j	j	ج	\$	∮	f	

 $^{^{*\}prime\prime}$ 09, $^{\prime\prime}$ 24, $^{\prime\prime}$ 9D, $^{\prime\prime}$ B8, $^{\prime\prime}$ D3 and $^{\prime\prime}$ EE do not exist in **bold** STIX OpenType fonts.

′34x	<i>f</i>	Ŋ	ý	$\overline{\int}$	\int				"Ex
'35x	$ \oint $	\blacksquare	∰	\int		· ·	\$	 	EX
'36x	\int	₹	}	\leftarrow	5	j	}	•	"Fx
'37x	•		\leftarrow	*	\oint	$\overline{\psi}$	$\overline{\int}$	\int	I I
	"8	″9	" A	″В	"C	"D	″E	"F	

stix-mathfrak

	'0	'1	′2	'3	'4	' 5	<i>'6</i>	′7	
'00x	@	→	Ľ	A	T	©	ව	ર	".0
'01x	S	٧	\C)ر	\Diamond	Α	Ψ		″0x
'02x	Ŀ	M	×	M	L	Т	≓ ⊨	⊣⊢	".4
'03x	o —	ь—	—	Î	\Diamond	\$	\$	♦	″1x
'04x			()	•	8	1)	″2x
'05x	1	>	<u>[</u>]	[]	[]	2X
'06x	(>	<	>	₩	*	()	″3x
'07x	:	1	4	Ь	₽	Zs		⊳	3 SX
'10x	∀*	U	\mathfrak{B}	C	Ð	Œ	\mathfrak{F}	ß	″4x
'11x	5	3	\mathfrak{F}	R	Ω	M	N	D	4x
'12x	\mathfrak{P}	Q	R	Ø	T	u	\mathfrak{V}	233	″5x
′13x	X	Ð	3	7	7	∠	7	_	J JX
′14x		a	в	c	б	e	f	g	″6x
'15x	ħ	i	j	ŧ	Į.	m	n	o	- OX
′16x	þ	q	r	ß	t	u	ъ	m	″7x
′17x	¥	ŋ	3	t	1	4	Ā	^	7 X
'20x	`	,	^	~	-	Ü	•		″8x
'21x	2	٥	~	٠	'	,	7	-	ox ox
'22x	_	+	→	•••	••••	↔			″9x
'23x	*	4	¥	₩	74	Þ.	A	Ø	9x
'24x	Ø	Ø	Ø	Ø	Θ	Ф	00	0	"Ax
'25x	①	Ф	Ø	Ø	Ф	0	•	8	AX
'26x	⊗	0°	0=			*	0		"Bx
'27x	丏	À	Δ	ß	Δ	b	⊲।	I⊳	БХ
′30x	M	×	<u> </u>	K	×	X	X	}	" ~
'31x	{	***	#	م	&	ф	⊶		"Cx
'32x		ш	#	$\widetilde{\#}$	#	Ħ	‡	V	"-
'33x	7	•	•	Q	•	Φ	•	δ	"Dx
′34x	∳	δ	Ť	;→	\	7	+	#	
'35x	#	-	>	+	_	M	4	ĝ	"Ex
'36x	>>	1	ů,	Î	Ŧ	+	±	+2	
'37x	+	<u>,</u>	-	<u> </u>	. .	· (+	~	×	"Fx
	″8	″9	" A	″В	"C	"D	″E	"F	
*"7B an	d "7C do i	not exist in	STIX Open	Type fonts	i.				

	'0	′1	′2	'3	'4	′5	' 6	′7	
'00x	()	()	[]			″0x
'01x	L	J	Γ	1	{	}	{	}	OX.
'02x	<	>	«	»	()	/	\	″1x
'03x	((]			17
'04x			Γ]	{	}	{	}	″2x
'05x	<	>	«	>>	()	/	\	2x
'06x	()	()					"3x
'07x					{	}	$\bigg \ \bigg\{ \hspace{-1em} \bigg[$	}	J.
'10x	<	>	«	>>			/	\	"4x
'11x									41
'12x					{	}	$\bigg \bigg \bigg $	}	″5x
'13x	(«	>>			/		OX.
'14x	()	T L	1 J	L {	}		I	"6x

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

stix-extra1

	'0	'1	′2	<i>'3</i>	'4	′5	' 6	′7	
'00x	Ш	Ш	<u>s</u>	22	*	*	¥	\	
'01x	Ж	#	S	#	*		K	a,	″0x
'02x	ε.	3 ¹	σ	8	=			*	
'03x	~		<u></u>		h	≡	∌	₫	″1x
'04x		- ≅		<u>~</u> ≢	≰	≱	<u> </u>		
'05x	*	*	₹	<u> </u>	*	*	⊈	⊉	″2x
'06x	7	()	(·)	7	r	1	g	1	
'07x	r	,p	2	1	н	_	1	~	″3x
'10x	7	1	N	-	_	L	fj		" .
'11x	$\sqrt{2}$	$\sqrt{3}$	≢	×	f	f^T	>	>	"4x
'12x	(\(\left\)		=	=	_	<u></u>	=	// =
'13x	=	=	=	=	≡	(>	(″5x
′14x	>	0		\bigcirc	_	===	0	0	″6x
'15x	′.				d	h	m	P	ox
'16x	S ·	y	Ø	/	\	∇	≺ +	+	″7x
′17x	\$	Ц	<u>-</u>		Ŧ	+	-	ď	1 / X
'20x	⊜	Ą		*	₩	Ε	Λ	E	″8x
'21x	CTRL	RET	ESC	CMD	TAB	SPACE	DEL	ALT	ox
'22x	OPTIC	N -	ENTER	SHIFT	MOD1	MOD2	-{]	″9x
'23x	`	,		"	,7 ³	1,73	K	kerer	
'24x			,		1	↓	7	7	"Ax
'25x	7	∠ _	i		ν.	/	1	‡	112
'26x	←·-·	·-·>	1	1	K	N.	!	i	"Bx
<u>'27x</u>			`	`	,	,	_	_	
'30x	$\sqrt{}$		_	_	_	_	<u>ر</u>	Α	"Cx
'31x	В	E	Z	H	I	K	М	N	
'32x	0	Р	θ	Т	X	0			"Dx
'33x									
	″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		I /	″9x
'23x		∡		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	I 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	