

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

<code>notext</code>	Do not change the default text fonts.
<code>nomath</code>	Do not change the default math fonts.
<code>not1</code>	Do not change the default font encoding to T1.
<code>notextcomp</code>	Do not load the <code>textcomp</code> package (provides symbols and <code>oldstyle</code> figures from TS1 encoding to be used with T1 encoded text fonts).
<code>lcgreekalpha</code>	By default lower case Greek, partial differential and nabla are given <code>\mathord</code> class which makes them insensitive to math alphabet changes (i.e. $\mathbf{\beta}$ gives β instead of $\boldsymbol{\beta}$); with this option they will be given <code>\mathalpha</code> class just like Latin and upper case Greek.
<code>upint</code>	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`, `intllimits` 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
* <code>\mathrm</code>	00041–0005A	00061–0007A	00393–003A9	003B1–003C9	00030–00039
* <code>\mathbf</code>	1D400–1D419	1D41A–1D433	1D6AA–1D6C0	1D6C2–1D6DA	1D7CE–1D7D7
* <code>\mathit</code>	1D434–1D44D	1D44E–1D467	1D6E4–1D6FA	1D6FC–1D714	-
<code>\mathbfit</code>	1D468–1D481	1D482–1D49B	1D71E–1D734	1D736–1D74E	-
* <code>\mathcal</code>	•	-	-	-	-
* <code>\mathscr</code>	1D49C–1D4B5	1D4B6–1D4CF	-	-	-
<code>\mathbfscr</code>	1D4D0–1D4E9	1D4EA–1D503	-	-	-
* <code>\mathsf</code>	1D5A0–1D5B9	1D5BA–1D5D3	•	•	1D7E2–1D7EB
<code>\mathbfsf</code>	1D5D4–1D5ED	1D5EE–1D607	1D758–1D76E	1D770–1D788	1D7EC–1D7F5
* <code>\mathsfit</code>	1D608–1D621	1D622–1D63B	•	•	-
<code>\mathbfsfit</code>	1D63C–1D655	1D656–1D66F	1D792–1D7A8	1D7AA–1D7C2	-
* <code>\mathbb</code>	1D538–1D551	1D552–1D56B	-	-	1D7D8–1D7E1
<code>\mathbbfb</code>	•	•	-	-	-
* <code>\mathbbi</code>	•	•	-	-	-
<code>\mathbbfbit</code>	•	•	-	-	-
* <code>\mathfrak</code>	1D504–1D51D	1D51E–1D537	-	-	-
<code>\mathbffrak</code>	1D56C–1D585	1D586–1D59F	-	-	-
* <code>\mathhtt</code>	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 Alphabetic

Γ	U+0393	<code>\Gamma</code>	μ	U+03BC	<code>\mu</code>
Δ	U+0394	<code>\Delta</code>	ν	U+03BD	<code>\nu</code>
Θ	U+0398	<code>\Theta</code>	ξ	U+03BE	<code>\xi</code>
Λ	U+039B	<code>\Lambda</code>	π	U+03C0	<code>\pi</code>
Ξ	U+039E	<code>\Xi</code>	ρ	U+03C1	<code>\rho</code>
Π	U+03A0	<code>\Pi</code>	σ	U+03C3	<code>\sigma</code>
Σ	U+03A3	<code>\Sigma</code>	τ	U+03C4	<code>\tau</code>
Υ	U+03A5	<code>\Upsilon</code>	υ	U+03C5	<code>\upsilon</code>
Φ	U+03A6	<code>\Phi</code>	ϕ	U+03D5	<code>\phi</code>
Ψ	U+03A8	<code>\Psi</code>	χ	U+03C7	<code>\chi</code>
Ω	U+03A9	<code>\Omega</code>	ψ	U+03C8	<code>\psi</code>
α	U+03B1	<code>\alpha</code>	ω	U+03C9	<code>\omega</code>
β	U+03B2	<code>\beta</code>	ε	U+03F5	<code>\varepsilon</code>
γ	U+03B3	<code>\gamma</code>	ϑ	U+03D1	<code>\vartheta</code>
δ	U+03B4	<code>\delta</code>	ϖ	U+03D6	<code>\varpi</code>
ϵ	U+03B5	<code>\epsilon</code>	ϱ	U+03F1	<code>\varrho</code>
ζ	U+03B6	<code>\zeta</code>	ς	U+03C2	<code>\varsigma</code>
η	U+03B7	<code>\eta</code>	φ	U+03C6	<code>\varphi</code>
θ	U+03B8	<code>\theta</code>	∇	U+2207	<code>\nabla</code>
ι	U+03B9	<code>\iota</code>	∂	U+2202	<code>\partial</code>
κ	U+03BA	<code>\kappa</code>	\imath	U+1D6A4	<code>\imath</code>
λ	U+03BB	<code>\lambda</code>	\jmath	U+1D6A5	<code>\jmath</code>














































































4.2 Ordinary symbols

$\#$	U+0023	<code>\#</code>	\eth	U+00F0	<code>\eth</code>
$\$$	U+0024	<code>\mathdollar</code>	\mathbb{Z}	U+01B5	<code>\mathbb{Z}</code> *
$\%$	U+0025	<code>\%</code>	\mathbb{F}	U+03DD	<code>\mathbb{F}</code>
$\&$	U+0026	<code>\&</code>	\mathbb{K}	U+03F0	<code>\mathbb{K}</code>
\cdot	U+002E	<code>\cdot</code>	\backepsilon	U+03F6	<code>\backepsilon</code>
$/$	U+002F	<code>/</code>	\upbackepsilon	U+03F6	<code>\upbackepsilon</code>
$?$	U+003F	<code>?</code>	\enleadertwodots	U+2025	<code>\enleadertwodots</code>
$@$	U+0040	<code>@</code>	\mathellipsis	U+2026	<code>\mathellipsis</code>
\backslash	U+005C	<code>\backslash</code>	\prime	U+2032	<code>\prime</code>
\pounds	U+00A3	<code>\mathsterling</code>	\dprime	U+2033	<code>\dprime</code>
\S	U+00A7	<code>\mathsection</code>	\trprime	U+2034	<code>\trprime</code>
\neg	U+00AC	<code>\neg, \lnot</code>	\backprime	U+2035	<code>\backprime</code>
\P	U+00B6	<code>\mathparagraph</code>	\backdprime	U+2036	<code>\backdprime</code>

∩	U+2037	\backtrprime	⇩	U+21E9	\downwhitearrow
^	U+2038	\caretinsert	⇧	U+21EA	\whitearrowupfrombar
!!	U+203C	\Exclam	∀	U+2200	\forall
-	U+2043	\hyphenbullet*	℄	U+2201	\complement
??	U+2047	\Question	∃	U+2203	\exists
'''	U+2057	\qprime	∄	U+2204	\nexists
○	U+20DD	\enclosecircle	∅	U+2205	\varnothing
□	U+20DE	\enclosesquare*	∅	U+2205	\emptyset
◇	U+20DF	\enclosediamond*	Δ	U+2206	\increment
△	U+20E4	\enclosetriangle	■	U+220E	\QED*
ℰ	U+2107	\Eulerconst	∞	U+221E	\infty
ℏ	U+210F	\hbar*	⊓	U+221F	\rightangle
ℎ	U+210F	\hslash	∠	U+2220	\angle
ℑ	U+2111	\Im	∠	U+2221	\measuredangle
ℓ	U+2113	\ell	∠	U+2222	\sphericalangle
℘	U+2118	\wp	∴	U+2234	\therefore
ℜ	U+211C	\Re	∵	U+2235	\because
ℴ	U+2127	\mho	~	U+223F	\sinewave
ı	U+2129	\turnediota	⊤	U+22A4	\top
Å	U+212B	\Angstrom	⊥	U+22A5	\bot
ƒ	U+2132	\Finv	+	U+22B9	\hermitmatrix
ℵ	U+2135	\aleph	⊓	U+22BE	\measuredrightangle
β	U+2136	\beth	∇	U+22BF	\varltriangleright
λ	U+2137	\gimel	⋯	U+22EF	\cdots
daleth	U+2138	\daleth	∅	U+2300	\diameter*
⊙	U+2141	\Game*	⊠	U+2302	\house
⊔	U+2142	\sansLturned*	⊖	U+2310	\invnot
⊓	U+2143	\sansLmirrored*	⊞	U+2311	\sqlozenge*
⋈	U+2144	\Yup*	⊗	U+2312	\proffline*
⊞	U+214A	\PropertyLine*	⊘	U+2313	\profsurf*
⇩	U+21A8	\updownarrowbar	⊚	U+2317	\viewdata*
↵	U+21B4	\linefeed	⊣	U+2319	\turnednot
↵	U+21B5	\carriagereturn	⊞	U+232C	\varhexagonlrbonds*
↖	U+21B8	\barovernorthwestarrow	▷	U+2332	\conictaper*
↔	U+21B9	\barleftarrowrightarrowbar	⊤	U+2336	\topbot
⊙	U+21BA	\acwopencirclearrow	⋈	U+2340	\APLnotbackslash*
⊙	U+21BB	\cwopencirclearrow	⊠	U+2353	\APLboxupcaret*
⇧	U+21DE	\nHuparrow*	⊠	U+2370	\APLboxquestion*
⇩	U+21DF	\nHdownarrow*	↘	U+237C	\rangledownzigzagarrow*
←	U+21E0	\leftdasharrow*	⬡	U+2394	\hexagon*
↑	U+21E1	\updasharrow*	≡	U+23B6	\bbrktbrk
→	U+21E2	\rightdasharrow*	↵	U+23CE	\varcarriagereturn*
↓	U+21E3	\downdasharrow*	⌋	U+23E0	\obrbrak
⇐	U+21E6	\leftwhitearrow	⌌	U+23E1	\ubrbrak
⇑	U+21E7	\upwhitearrow	▭	U+23E2	\trapezium*
⇓	U+21E8	\rightwhitearrow	⊞	U+23E3	\benzenr*

—	U+23E4	\strns*	◇	U+25CA	\mdlgwhtlozenge, \lozenge, \Diamond
▧	U+23E5	\fltns*	⦿	U+25CC	\dottedcircle*
⤿	U+23E6	\accurrent*	◉	U+25CD	\circlevertfill*
⌘	U+23E7	\elinters*	◎	U+25CE	\bullseye*
␣	U+2423	\mathvisiblespace	●	U+25CF	\mdlgblkcircle*
®	U+24C7	\circledR	◐	U+25D0	\circlelefthalfblack*
©	U+24C8	\circledS	◑	U+25D1	\circlerighthalfblack*
■	U+25A0	\mdlgblksquare*, \blacksquare	◒	U+25D2	\circlebottomhalfblack*
□	U+25A1	\mdlgwhtsquare*, \square, \Box	◓	U+25D3	\circletophalfblack*
◯	U+25A2	\squoval*	◔	U+25D4	\circleurquadblack*
◼	U+25A3	\blackinwhitesquare*	◕	U+25D5	\blackcircleulquadwhite*
▨	U+25A4	\squarehfill*	◖	U+25D6	\blacklefthalfcircle*
▩	U+25A5	\squarevfill*	◗	U+25D7	\blackrighthalfcircle*
▪	U+25A6	\squarehvfill*	◘	U+25D8	\inversebullet*
▫	U+25A7	\squarenwsewfill*	◙	U+25D9	\inversewhitecircle*
▬	U+25A8	\squareneswfill*	◚	U+25DA	\invwhiteupperhalfcircle*
▭	U+25A9	\squarecrossfill*	◛	U+25DB	\invwhitelowerhalfcircle*
▪	U+25AA	\smlblksquare*	⌒	U+25DC	\ularc*
◻	U+25AB	\smwhtsquare*	⌓	U+25DD	\urarc*
▀	U+25AC	\hrectangleblack*	⌔	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	\rblacktriangle*
▧	U+25B1	\parallelogram*	▵	U+25E3	\lblacktriangle*
▲	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*
▷	U+25B9	\smalltriangleright*	◻	U+25E8	\squarerightblack*
▶	U+25BA	\blackpointerright*	◻	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*
▽	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*
◁	U+25C5	\whitepointerleft*	⊖	U+25F4	\circleulquad*
◆	U+25C6	\mdlgblkdiamond*	⊕	U+25F5	\circlellquad*
◇	U+25C7	\mdlgwhtdiamond*	⊗	U+25F6	\circlelrquad*
◈	U+25C8	\blackinwhitediamond*	⊘	U+25F7	\circleurquad*
●	U+25C9	\fisheye*	◓	U+25F8	\ultriangle*

▽	U+25F9	\urtriangle*	♀	U+26B2	\neuter
△	U+25FA	\lltriangle*	✓	U+2713	\checkmark
□	U+25FB	\mdwhtsquare*	✠	U+2720	\maltese
■	U+25FC	\mdblsquare*	⊛	U+272A	\circledstar
◻	U+25FD	\mdsmwhtsquare*	*	U+2736	\varstar
■	U+25FE	\mdsmblksquare*	*	U+273D	\dingasterisk
◀	U+25FF	\lrtriangle*	➔	U+279B	\draftingarrow*
★	U+2605	\bigstar*	∟	U+27C0	\threedangle*
☆	U+2606	\bigwhitestar*	△	U+27C1	\whiteinwhitetriangle*
☉	U+2609	\astrosun	⊆	U+27C3	\subsetcirc*
⚡	U+2621	\danger	⊇	U+27C4	\supsetcirc*
☺	U+263B	\blacksmiley	/	U+27CB	\diagup*
☼	U+263C	\sun	\	U+27CD	\diagdown*
☾	U+263D	\rightmoon	◇	U+27D0	\diamondcdot*
☾	U+263E	\leftmoon	✕	U+292B	\rdiagovfdiag*
♀	U+2640	\female	✕	U+292C	\fdiagovrdiag*
♂	U+2642	\male	↗	U+292D	\seovnearrow*
♠	U+2660	\spadesuit*	↗	U+292E	\neovsearrow*
♥	U+2661	\heartsuit*	↗	U+292F	\fdiagovnearrow*
♦	U+2662	\diamondsuit*	↘	U+2930	\rdiagovsearrow*
♣	U+2663	\clubsuit*	↘	U+2931	\neovnwarrow*
♠	U+2664	\varspadesuit	↘	U+2932	\nwovnearrow*
♥	U+2665	\varheartsuit	↵	U+2934	\uprightcurvearrow*
♦	U+2666	\vardiamondsuit	↶	U+2935	\downrightcurvedarrow*
♣	U+2667	\varclubsuit	●	U+2981	\mdsmlkcircle*
♪	U+2669	\quarternote	⋮	U+2999	\fourvdots*
♪	U+266A	\eighthnote	⋯	U+299A	\vzigzag*
♪	U+266B	\twonotes	∟	U+299B	\measuredangleleft*
b	U+266D	\flat	⊥	U+299C	\rightanglesqr*
♮	U+266E	\natural	⊥	U+299D	\rightanglemdot*
♯	U+266F	\sharp	∠	U+299E	\angles*
∞	U+267E	\acidfree*	∠	U+299F	\angdnr*
🎲	U+2680	\dicei	▷	U+29A0	\gtlpar*
🎲	U+2681	\diceii	∇	U+29A1	\sphericalangleup*
🎲	U+2682	\diceiii	↷	U+29A2	\turnangle*
🎲	U+2683	\diceiv	∟	U+29A3	\revangle*
🎲	U+2684	\dicev	∠	U+29A4	\angleubar*
🎲	U+2685	\dicevi	∠	U+29A5	\revangleubar*
⊙	U+2686	\circledrightdot	∟	U+29A6	\wideangledown*
⊙	U+2687	\circledtwodots	∟	U+29A7	\wideangleup*
●	U+2688	\blackcircledrightdot	∠	U+29A8	\measanglerutone*
●	U+2689	\blackcircledtwodots	∠	U+29A9	\measangleluttonw*
♀	U+26A5	\Hermaphrodite	∠	U+29AA	\measanglerdtose*
○	U+26AA	\mdwhtcircle	∠	U+29AB	\measangleldtosw*
●	U+26AB	\mdblkcircle	∠	U+29AC	\measanglelurtone*
○	U+26AC	\mdsmwhtcircle	∠	U+29AD	\measanglelultonw*

	U+29AE \measuredrtose*		U+2B12 \squaretopblack
	U+29AF \measuredltosw*		U+2B13 \squarebotblack
	U+29B0 \revemptyset*		U+2B14 \squareurblack
	U+29B1 \emptysettoobar*		U+2B15 \squareellblack
	U+29B2 \emptysettocirc*		U+2B16 \diamondleftblack
	U+29B3 \emptysettoarr*		U+2B17 \diamondrightblack
	U+29B4 \emptysettoarrl*		U+2B18 \diamondtopblack
	U+29BA \obot*		U+2B19 \diamondbotblack
	U+29BB \olcross*		U+2B1A \dottedsquare
	U+29BC \odotslashdot*		U+2B1B \lgblksquare
	U+29BD \uparrowoncircle*		U+2B1C \lgwhtsquare
	U+29BE \circledwhitebullet*		U+2B1D \vysmblksquare
	U+29BF \circledbullet*		U+2B1E \vysmwhtsquare
	U+29C2 \cirscir*		U+2B1F \pentagonblack
	U+29C3 \cirE*		U+2B20 \pentagon
	U+29C9 \boxonbox*		U+2B21 \varhexagon
	U+29CA \triangleodot*		U+2B22 \varhexagonblack
	U+29CB \triangleubar*		U+2B23 \hexagonblack
	U+29CC \triangles*		U+2B24 \lgblkcircle
	U+29DC \iifin*		U+2B25 \mdblkdiamond
	U+29DD \tieinfty*		U+2B26 \mdwhtdiamond
	U+29DE \nvinfty*		U+2B27 \mdblklouenge
	U+29E0 \laplac*		U+2B28 \mdwhtlouenge
	U+29E7 \thermod*		U+2B29 \smbldiamond
	U+29E8 \downtriangleleftblack*		U+2B2A \smbklouenge
	U+29E9 \downtrianglerightblack*		U+2B2B \smwhtlouenge
	U+29EA \blackdiamonddownarrow*		U+2B2C \blkhorzoval
	U+29EB \blacklouenge		U+2B2D \whthorzoval
	U+29EC \circledownarrow*		U+2B2E \blkvertoval
	U+29ED \blackcircledownarrow*		U+2B2F \whtvertoval
	U+29EE \errbarsquare*		U+2B50 \medwhitestar
	U+29EF \errbarblacksquare*		U+2B51 \medblackstar
	U+29F0 \errbardiamond*		U+2B52 \smwhitestar
	U+29F1 \errbarblackdiamond*		U+2B53 \rightpentagonblack
	U+29F2 \errbarcircle*		U+2B54 \rightpentagon
	U+29F3 \errbarblackcircle*		U+3012 \postalmark
	U+2AE1 \perps		U+3030 \hzigzag
	U+2AF1 \topcir		U+1D55C \Bbbk
			U+XXXX \bracevert*

4.3 Binary operators

+	U+000B +	÷	U+00F7 \div
±	U+00B1 \pm	†	U+2020 \dagger
·	U+00B7 \cdot, \centerdot	‡	U+2021 \ddagger
×	U+00D7 \times	•	U+2022 \smbllcircle

/	U+2044	\fracslash	∨	U+22CE	\curlyvee
⌘	U+214B	\upand	∧	U+22CF	\curlywedge
-	U+000D	-	Ⓜ	U+22D2	\Cap, \doublecap
±	U+2213	\mp	Ⓞ	U+22D3	\Cup, \doublecup
‡	U+2214	\dotplus	⌘	U+2305	\varbarwedge*
∖	U+2216	\smallsetminus	⌘	U+2306	\vardoublebarwedge*
*	U+2217	\ast	⊖	U+233D	\obar
◦	U+2218	\vysmwhtcircle	△	U+25B3	\triangle, \bigtriangleup
•	U+2219	\vysmlkcircle, \bullet	◁	U+22B2	\lhd
∧	U+2227	\wedge, \land	▷	U+22B3	\rhd
∨	U+2228	\vee, \lor	◁	U+22B4	\unlhd
∩	U+2229	\cap	▷	U+22B5	\unrhd
∪	U+222A	\cup	○	U+25CB	\mdlgwhtcircle*
÷	U+2238	\dotminus	▢	U+25EB	\boxbar*
≈	U+223E	\invlasyz	∇	U+27C7	\veedot*
↗	U+2240	\wr	∧	U+27D1	\wedgedot*
↵	U+228C	\cupleftarrow	◊	U+27E0	\lozengeminus*
∪	U+228D	\cupdot	◊	U+27E1	\concavediamond*
⊕	U+228E	\uplus	◊	U+27E2	\concavediamondtickleft*
∏	U+2293	\sqcap	◊	U+27E3	\concavediamondtickright*
∏	U+2294	\sqcup	◻	U+27E4	\whitesquaretickleft*
⊕	U+2295	\oplus	◻	U+27E5	\whitesquaretickright*
⊖	U+2296	\ominus	:	U+2982	\typecolon*
⊗	U+2297	\otimes	⊖	U+29B5	\circlehbar*
⊘	U+2298	\oslash	⊖	U+29B6	\circledvert
⊙	U+2299	\odot	⊖	U+29B7	\circledparallel
⊚	U+229A	\circledcirc	⊘	U+29B8	\obslash
⊛	U+229B	\circledast	⊕	U+29B9	\operp*
⊜	U+229C	\circledequal	⊗	U+29C0	\olessthan
⊝	U+229D	\circleddash	⊗	U+29C1	\ogreaterthan
⊞	U+229E	\boxplus	▧	U+29C4	\boxdiag
⊟	U+229F	\boxminus	▧	U+29C5	\boxbslash
⊠	U+22A0	\boxtimes	⊛	U+29C6	\boxast
⊡	U+22A1	\boxdot	⊜	U+29C7	\boxcircle
‡	U+22BA	\intercal	⊝	U+29C8	\boxbox*
∇	U+22BB	\veebar	△	U+29CD	\triangleserifs*
⌘	U+22BC	\barwedge	⌘	U+29D6	\hourglass*
∇	U+22BD	\barvee	⌘	U+29D7	\blackhourglass*
◊	U+22C4	\diamond, \smwhtdiamond	♠	U+29E2	\shuffle*
·	U+22C5	\cdot*	♠	U+29EB	\mdlgblklozenge*
★	U+22C6	\star	∖	U+29F5	\setminus*
※	U+22C7	\divideontimes	/	U+29F6	\dsol*
⌘	U+22C9	\ltimes	∖	U+29F7	\rsolbar*
⌘	U+22CA	\rtimes	#	U+29FA	\doubleplus*
⌘	U+22CB	\leftthreetimes	#	U+29FB	\tripleplus*
⌘	U+22CC	\rightthreetimes	+	U+29FE	\tplus*

−	U+29FF	\tminus*	∪	U+2A47	\capovercup*
⊕	U+2A22	\ringplus	∪	U+2A48	\cupbarcap*
⊕	U+2A23	\plushat	∪	U+2A49	\capbarcup*
⊕	U+2A24	\simplus	∪	U+2A4A	\twocups*
⊕	U+2A25	\plusdot	∪	U+2A4B	\twocaps*
⊕	U+2A26	\plussim	∪	U+2A4C	\closedvarcup*
⊕	U+2A27	\plussubtwo	∪	U+2A4D	\closedvarcap*
⊕	U+2A28	\plustrif*	∪	U+2A4E	\Sqcap*
⊕	U+2A29	\commaminus*	∪	U+2A4F	\Sqcup*
−	U+2A2A	\minusdot	∪	U+2A50	\closedvarcupsmashprod*
⋯	U+2A2B	\minusfdots	∧	U+2A51	\wedgeodot*
⋯	U+2A2C	\minusrdots*	∨	U+2A52	\veeodot*
⊕	U+2A2D	\opluslhrim*	⋈	U+2A53	\Wedge*
⊕	U+2A2E	\oplusrhrim*	∨	U+2A54	\Vee*
×	U+2A2F	\vectimes*	⋈	U+2A55	\wedgeonwedge*
×	U+2A30	\dottimes	∨	U+2A56	\veeonvee*
×	U+2A31	\timesbar	∨	U+2A57	\bigslowedvee*
×	U+2A32	\btimes	∧	U+2A58	\bigslowedwedge*
×	U+2A33	\smashtimes*	⋈	U+2A5A	\wedgemidvert*
⊗	U+2A34	\otimeslhrim*	∨	U+2A5B	\veemidvert*
⊗	U+2A35	\otimesrhrim*	⋈	U+2A5C	\midbarwedge*
⊗	U+2A36	\otimeshat*	∨	U+2A5D	\midbarvee*
⊗	U+2A37	\Otimes*	∧	U+2A5E	\doublebarwedge
⊕	U+2A38	\odiv*	△	U+2A5F	\wedgebar*
△	U+2A39	\triangleplus*	△	U+2A60	\wedgedoublebar*
△	U+2A3A	\triangleminus*	∨	U+2A61	\varveebar*
△	U+2A3B	\triangleretimes*	∨	U+2A62	\doublebarvee*
∫	U+2A3C	\intprod*	∨	U+2A63	\veedoublebar
∫	U+2A3D	\intprodr*	∪	U+2A64	\dsub*
∩	U+2A3E	\fcmp*	∪	U+2A65	\rsub*
∩	U+2A3F	\amalg	≡	U+2A71	\eqqplus
∩	U+2A40	\capdot*	±	U+2A72	\pluseqq
∩	U+2A41	\uminus*	∥	U+2AF4	\interleave
∩	U+2A42	\barcup*	≡	U+2AF5	\nhVvert
∩	U+2A43	\barcap*	:	U+2AF6	\threedotcolon
∩	U+2A44	\capwedge*	///	U+2AFB	\trslash
∩	U+2A45	\cupvee*	//	U+2AFD	\sslash
∩	U+2A46	\cupovercap*	∩	U+2AFE	\talloblong

4.4 Relations

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

↑	U+2191	\uparrow	⇔	U+21C4	\rightleftarrows
→	U+2192	\rightarrow, \to	↕	U+21C5	\updownarrows
↓	U+2193	\downarrow	↔	U+21C6	\leftrightarrows
↔	U+2194	\leftrightharrow	⇐	U+21C7	\leftleftarrows
↕	U+2195	\updownarrow	⇑	U+21C8	\upuparrows
↗	U+2196	\nwarrow	⇒	U+21C9	\rightrightarrows
↘	U+2197	\nearrow	⇓	U+21CA	\downdownarrows
↙	U+2198	\searrow	⇌	U+21CB	\leftrightharpoons
↘	U+2199	\swarrow	⇍	U+21CC	\rightleftharpoons
⇐	U+219A	\nleftarrow	⇎	U+21CD	\nLeftarrow
⇒	U+219B	\nrightarrow	⇏	U+21CE	\nLeftrightarrow
↶	U+219C	\leftwvearrow	⇐	U+21CF	\nRightarrow
↷	U+219D	\rightwvearrow	⇐	U+21D0	\Leftarrow
⇐	U+219E	\twoheadleftarrow	↑	U+21D1	\Uparrow
⇑	U+219F	\twoheaduparrow	⇒	U+21D2	\Rightarrow
⇒	U+21A0	\twoheadrightarrow	↓	U+21D3	\Downarrow
⇓	U+21A1	\twoheaddownarrow	⇔	U+21D4	\Leftrightarrow
⇐	U+21A2	\leftarrowtail	⇕	U+21D5	\Updownarrow
⇒	U+21A3	\rightarrowtail	↗	U+21D6	\Nwarrow
⇐	U+21A4	\mapsfrom	↘	U+21D7	\Nearrow
↑	U+21A5	\mapsup	↙	U+21D8	\Searrow
→	U+21A6	\mapsto	↘	U+21D9	\Swarrow
↓	U+21A7	\mapsdown	⇐	U+21DA	\Lleftarrow*
↶	U+21A9	\hookleftarrow	⇒	U+21DB	\Rrightarrow*
↷	U+21AA	\hookrightarrow	↔	U+21DC	\leftsquigarrow
⇐	U+21AB	\looparrowleft	↔	U+21DD	\rightsquigarrow, \leadsto
⇒	U+21AC	\looparrowright	⇐	U+21E4	\barleftarrow*
↔	U+21AD	\leftrightsquigarrow	→	U+21E5	\rightarrowbar*
⇐	U+21AE	\nleftrightharrow	⇐	U+21F4	\circlearrowright*
↘	U+21AF	\downzigzagarrow	↑	U+21F5	\downuparrows
↑	U+21B0	\Lsh	⇒	U+21F6	\rightthreearrows*
↶	U+21B1	\Rsh	⇐	U+21F7	\nleftarrow*
↓	U+21B2	\Ldsh	→	U+21F8	\nrightarrow*
↷	U+21B3	\Rdsh	⇐	U+21F9	\nleftrightarrow*
↶	U+21B6	\curvearrowleft	⇐	U+21FA	\nVleftarrow*
↷	U+21B7	\curvearrowright	⇒	U+21FB	\nVrightarrow*
↶	U+21BA	\circlearrowleft	⇐	U+21FC	\nVleftrightarrow*
↷	U+21BB	\circlearrowright	⇐	U+21FD	\leftarrowtriangle*
⇐	U+21BC	\leftharpoonup	→	U+21FE	\rightarrowtriangle*
⇐	U+21BD	\leftharpoondown	⇐	U+21FF	\leftrightharrowtriangle*
↶	U+21BE	\upharpoonright, \restriction	∈	U+2208	\in
↶	U+21BF	\upharpoonleft	∉	U+2209	\notin
→	U+21C0	\rightharpoonup	∈	U+220A	\smallin
→	U+21C1	\rightharpoondown	∋	U+220B	\ni, \owns
↶	U+21C2	\downharpoonright	∄	U+220C	\nni
↶	U+21C3	\downharpoonleft	∋	U+220D	\smallni

\propto	U+221D	\propto	\equiv	U+225D	\eqdef
\propto	U+221D	\varpropto	\equiv	U+225E	\measeq
|	U+2223	\mid	\equiv	U+225F	\questeq
|	U+2223	\shortmid	\neq	U+2260	\ne, \neq
†	U+2224	\nmid	\equiv	U+2261	\equiv
†	U+2224	\nshortmid*	\neq	U+2262	\nequiv
||	U+2225	\parallel	\equiv	U+2263	\Equiv
||	U+2225	\shortparallel*	\triangleleft	U+2264	\leq, \le
‖	U+2226	\nparallel	\triangleleft	U+2265	\geq, \ge
‖	U+2226	\nshortparallel*	\triangleleft	U+2266	\leqq
::	U+2237	\Colon	\triangleleft	U+2267	\geqq
:-	U+2239	\dashcolon	\neq	U+2268	\lneqq
∴	U+223A	\dotsminusdots	\neq	U+2268	\lvertneqq
~	U+223B	\kernelcontraction	\neq	U+2269	\gneqq
~	U+223C	\sim	\neq	U+2269	\gvertneqq
~	U+223C	\thicksim	\ll	U+226A	\ll
~	U+223D	\backsim	\gg	U+226B	\gg
≈	U+2241	\nsim	\oslash	U+226C	\between
≈	U+2242	\eqsim	*	U+226D	\nasymp
≈	U+2243	\simeq	*	U+226E	\nless
≈	U+2244	\nsime	*	U+226F	\ngtr
≈	U+2245	\cong	*	U+2270	\nleq
≈	U+2246	\simneqq	*	U+2271	\ngeq
≈	U+2247	\ncong	\triangleleft	U+2272	\lesssim
≈	U+2248	\approx	\triangleleft	U+2273	\gtrsim
≈	U+2248	\thickapprox	*	U+2274	\nlesssim
≈	U+2249	\naprox	*	U+2275	\ngtrsim
≈	U+224A	\approxeq	\triangleleft	U+2276	\lessgtr
≈	U+224B	\approxident	\triangleleft	U+2277	\gtrless
≈	U+224C	\backcong	*	U+2278	\nlessgtr
∞	U+224D	\asymp	*	U+2279	\ngtrless
⇔	U+224E	\Bumpeq	\triangleleft	U+227A	\prec
⇔	U+224F	\bumpeq	\triangleright	U+227B	\succ
≐	U+2250	\doteq	\triangleleft	U+227C	\preccurlyeq
≐	U+2251	\Doteq, \doteqdot	\triangleright	U+227D	\succcurlyeq
≐	U+2252	\fallingdotseq	\triangleleft	U+227E	\precsim
≐	U+2253	\risingdotseq	\triangleleft	U+227F	\succsim
≐	U+2254	\coloneq	*	U+2280	\nprec
≐	U+2255	\eqcolon	*	U+2281	\nsucc
⊕	U+2256	\eqcirc	⊂	U+2282	\subset
⊕	U+2257	\circeq	⊃	U+2283	\supset
⊕	U+2258	\arceq	⊄	U+2284	\nsubset
⊕	U+2259	\wedgeq	⊄	U+2285	\nsupset
⊕	U+225A	\veeeq	⊆	U+2286	\subseteq
⊕	U+225B	\stareq	⊇	U+2287	\supseteq
⊕	U+225C	\triangleq	⊄	U+2288	\nsubseteq

\nsupseteq	U+2289	\nsupseteq	U+22E0	\npreccurlyeq
\subsetneq	U+228A	\subsetneq	U+22E1	\nsucccurlyeq
\varsubsetneq^*	U+228A	\varsubsetneq^*	U+22E2	\nsqsubseteq
\supsetneq	U+228B	\supsetneq	U+22E3	\nsqsupseteq
\varsupsetneq^*	U+228B	\varsupsetneq^*	U+22E4	\sqsubsetneq^*
\sqsubset	U+228F	\sqsubset	U+22E5	\sqsupsetneq^*
\sqsupset	U+2290	\sqsupset	U+22E6	\lnsim
\sqsubsetneq	U+2291	\sqsubsetneq	U+22E7	\gnsim
\sqsupsetneq	U+2292	\sqsupsetneq	U+22E8	\precnsim
\vdash	U+22A2	\vdash	U+22E9	\succnsim
\dashv	U+22A3	\dashv	U+22EA	\nvartriangleleft
\assert	U+22A6	\assert	U+22EB	\nvartriangleright
\models	U+22A7	\models	U+22EC	\ntrianglelefteq
\Vdash	U+22A8	\Vdash	U+22ED	\ntrianglerighteq
\Vdash	U+22A9	\Vdash	U+22EE	\vdots
\Vvdash	U+22AA	\Vvdash	U+22F0	\adots
\VDash	U+22AB	\VDash	U+22F1	\ddots
\nvdash	U+22AC	\nvdash	U+22F2	\disin^*
\nvDash	U+22AD	\nvDash	U+22F3	\varisins^*
\nVDash	U+22AE	\nVDash	U+22F4	\isins^*
\nVDash	U+22AF	\nVDash	U+22F5	\isindot^*
\prurel	U+22B0	\prurel	U+22F6	\varisinobar
\scurel	U+22B1	\scurel	U+22F7	\isinobar^*
\vartriangleleft	U+22B2	\vartriangleleft	U+22F8	\isinvb^*
\vartriangleright	U+22B3	\vartriangleright	U+22F9	\isinE^*
\trianglelefteq	U+22B4	\trianglelefteq	U+22FA	\nisd^*
\trianglerighteq	U+22B5	\trianglerighteq	U+22FB	\varnis^*
\origof	U+22B6	\origof	U+22FC	\nis^*
\imageof	U+22B7	\imageof	U+22FD	\varniobar
\multimap	U+22B8	\multimap	U+22FE	\niobar^*
\bowtie	U+22C8	\bowtie	U+22FF	\bagmember^*
\backsimeq	U+22CD	\backsimeq	U+2322	\frown
\Subset	U+22D0	\Subset	U+2322	\smallfrown^*
\Supset	U+22D1	\Supset	U+2323	\smile
\pitchfork	U+22D4	\pitchfork	U+2323	\smallsmile^*
$\#$	U+22D5	$\#$	U+233F	\APlnotslash
\lessdot	U+22D6	\lessdot	U+25B5	\vartriangle^*
\gtrdot	U+22D7	\gtrdot	U+27C2	\perp^*
\lll, \lllless	U+22D8	\lll, \lllless	U+27C8	\bsolhsb
\ggg, \gggtr	U+22D9	\ggg, \gggtr	U+27C9	\suphsol
\lesseqgtr	U+22DA	\lesseqgtr	U+27D2	\upin^*
\gtreqless	U+22DB	\gtreqless	U+27D3	\pullback^*
\eqless	U+22DC	\eqless	U+27D4	\pushout^*
\eqgtr	U+22DD	\eqgtr	U+27DA	\DashVDash^*
\curlyeqprec	U+22DE	\curlyeqprec	U+27DB	\dashVdash^*
\curlyeqsucc	U+22DF	\curlyeqsucc	U+27DC	\multimapinv^*

⎯	U+27DD	\vlongdash*	↵	U+291B	\leftdbltail*
⎯	U+27DE	\longdashv*	↶	U+291C	\rightdbltail*
⊖	U+27DF	\cirbot*	↷	U+291D	\diamondleftarrow*
⇨	U+27F0	\Uparrow*	↸	U+291E	\rightarrowdiamond*
⇩	U+27F1	\Downarrow*	↹	U+291F	\diamondleftarrowbar*
↻	U+27F2	\acwgapcirclearrow*	↺	U+2920	\barrightarrowdiamond*
↻	U+27F3	\cwgapcirclearrow*	↻	U+2921	\nwsearrow*
⊕	U+27F4	\rightarrowonoplus*	↻	U+2922	\neswarrow*
←	U+27F5	\longleftarrow*	↻	U+2923	\hknwarrow*
→	U+27F6	\longrightarrow*	↻	U+2924	\hknearrow*
↔	U+27F7	\longleftrightarrow*	↻	U+2925	\hksearrow*
⇐	U+27F8	\Longleftarrow*	↻	U+2926	\hksvarrow*
⇒	U+27F9	\Longrightarrow*	⊗	U+2927	\tona*
⇔	U+27FA	\Longleftrightarrow*	⊗	U+2928	\toea*
⇐	U+27FB	\longmapsfrom*	⊗	U+2929	\tosa*
⇨	U+27FC	\longmapsto*	⊗	U+292A	\towa*
⇐	U+27FD	\Longmapsfrom*	↷	U+2933	\rightcurvedarrow*
⇨	U+27FE	\Longmapsto*	↶	U+2936	\leftdowncurvedarrow*
↻	U+27FF	\longrightsquigarrow*	↷	U+2937	\rightdowncurvedarrow*
⇨	U+2900	\nvtwoheadrightarrow*	↷	U+2938	\cwrightarcarrow*
⇨	U+2901	\nVtwoheadrightarrow*	↶	U+2939	\acwleftarcarrow*
⇐	U+2902	\nvLeftarrow*	↷	U+293A	\acwoverarcarrow*
⇨	U+2903	\nvRightarrow*	↶	U+293B	\acwunderarcarrow*
⇐	U+2904	\nvLeftrightarrow*	↷	U+293C	\curvearrowrightminus*
⇨	U+2905	\twoheadmapsto*	↷	U+293D	\curvearrowleftplus*
⇐	U+2906	\Mapsfrom*	↶	U+293E	\cwundercurvearrow*
⇨	U+2907	\Mapsto*	↶	U+293F	\ccwundercurvearrow*
↓	U+2908	\downarrowbarred*	↻	U+2940	\acwcirclearrow*
↑	U+2909	\uparrowbarred*	↻	U+2941	\cwcirclearrow*
⇨	U+290A	\Uparrow*	↷	U+2942	\rightarrowshortleftarrow*
⇩	U+290B	\Downarrow*	↶	U+2943	\leftarrowshortrightarrow*
↔	U+290C	\leftbkarrow*	↶	U+2944	\shortrightarrowleftarrow*
↔	U+290D	\rightbkarrow*	↷	U+2945	\rightarrowplus*
↔	U+290E	\leftdbkarrow*, \dashleftarrow	↶	U+2946	\leftarrowplus*
↔	U+290F	\dbkarrow*, \dashrightarrow	↷	U+2947	\rightarrowx*
↔	U+2910	\drbkarrow*	↷	U+2948	\leftrightarrowcircle*
↔	U+2911	\rightrightarrow*	↷	U+2949	\twoheaduparrowcircle*
↑	U+2912	\baruparrow*	↶	U+294A	\leftrightharpoonupdown*
↓	U+2913	\downarrowbar*	↶	U+294B	\leftrightharpoondownup*
↔	U+2914	\nvrightarrowtail*	↷	U+294C	\updownharpoonrightleft*
↔	U+2915	\nVrightarrowtail*	↶	U+294D	\updownharpoonleftright*
↔	U+2916	\twoheadrightarrowtail*	↶	U+294E	\leftrightharpoonupup*
↔	U+2917	\nvtwoheadrightarrowtail*	↶	U+294F	\updownharpoonrightright*
↔	U+2918	\nVtwoheadrightarrowtail*	↶	U+2950	\leftrightharpoondowndown*
↵	U+2919	\lefttail*	↶	U+2951	\updownharpoonleftleft*
↵	U+291A	\righttail*	↶	U+2952	\barleftharpoonup*

↵	U+2953	\rightharpoonupbar*	⊲	U+29CF	\ltrivb*
↶	U+2954	\barupharpoonright*	▷	U+29D0	\vbrtri*
↷	U+2955	\downharpoonrightbar*	⌘	U+29D1	\lfbowtie*
↸	U+2956	\barleftharpoondown*	⌘	U+29D2	\rfbowtie*
↹	U+2957	\rightharpoondownbar*	⌘	U+29D3	\fbowtie*
↺	U+2958	\barupharpoonleft*	⌘	U+29D4	\lftimes*
↻	U+2959	\downharpoonleftbar*	⌘	U+29D5	\rftimes*
↼	U+295A	\leftharpoonupbar*	↯	U+29DF	\dualmap*
↽	U+295B	\barrightharpoonup*	≠	U+29E1	\lrtriangleeq*
↾	U+295C	\upharpoonrightbar*	#	U+29E3	\eparsl*
↿	U+295D	\bardownharpoonright*	#	U+29E4	\smeparsl*
⇀	U+295E	\leftharpoondownbar*	#	U+29E5	\eqvparsl*
⇁	U+295F	\barrightharpoondown*	≡	U+29E6	\gleichstark*
⇂	U+2960	\upharpoonleftbar*	→	U+29F4	\ruledelayed*
⇃	U+2961	\bardownharpoonleft*	⌘	U+2A59	\veeonwedge*
⇄	U+2962	\leftharpoonsupdown*	=	U+2A66	\eqdot
⇅	U+2963	\upharpoonsleftright*	≡	U+2A67	\dotequiv
⇆	U+2964	\rightharpoonsupdown*	#	U+2A68	\equivVert*
⇇	U+2965	\downharpoonsleftright*	#	U+2A69	\equivVvert*
⇈	U+2966	\leftrightharpoonsup*	~	U+2A6A	\dotsim
⇉	U+2967	\leftrightharpoonsdown*	~	U+2A6B	\simrdots*
⇊	U+2968	\rightleftharpoonsup*	≈	U+2A6C	\simminussim*
⇋	U+2969	\rightleftharpoonsdown*	≡	U+2A6D	\congdot
⇌	U+296A	\leftharpoonupdash*	≡	U+2A6E	\asteq
⇍	U+296B	\dashleftharpoondown*	≈	U+2A6F	\hatapprox
⇎	U+296C	\rightharpoonupdash*	≈	U+2A70	\approxeq
⇏	U+296D	\dashrightharpoondown*	≈	U+2A73	\eqqsim
⇐	U+296E	\updownharpoonsleftright*	≡	U+2A74	\Coloneq*
⇑	U+296F	\downupharpoonsleftright*	=	U+2A75	\eqeq*
⇒	U+2970	\rightimply*	==	U+2A76	\eqeqeq*
⇒	U+2971	\equalrightarrow*	≡	U+2A77	\ddotseq*
⇒	U+2972	\similarrightarrow*	≡	U+2A78	\equivDD*
⇐	U+2973	\leftarrowssimilar*	⋈	U+2A79	\lrcir*
⇐	U+2974	\rightarrowssimilar*	⋈	U+2A7A	\gtcir*
⇐	U+2975	\rightarrowapprox*	⋈	U+2A7B	\ltquest*
⇐	U+2976	\ltlarr*	⋈	U+2A7C	\gtquest*
⇐	U+2977	\leftarrowless*	⋈	U+2A7D	\leqslant
⇐	U+2978	\gtrarr*	⋈	U+2A7E	\geqslant
⇐	U+2979	\subrarr*	⋈	U+2A7F	\lesdot*
⇐	U+297A	\leftarrowsubset*	⋈	U+2A80	\gesdot*
⇐	U+297B	\suplarr*	⋈	U+2A81	\lesdoto*
⇐	U+297C	\leftfishtail*	⋈	U+2A82	\gesdoto*
⇐	U+297D	\rightfishtail*	⋈	U+2A83	\lesdotor*
⇐	U+297E	\upfishtail*	⋈	U+2A84	\gesdoto1*
⇐	U+297F	\downfishtail*	⋈	U+2A85	\lessapprox*
⊲	U+29CE	\rtriltri*	⋈	U+2A86	\gtrapprox*

U+2A87 \lneq
 U+2A88 \gneq
 U+2A89 \lnapprox
 U+2A8A \gnapprox
 U+2A8B \lesseqqgtr*
 U+2A8C \gtreqqless*
 U+2A8D \lsime*
 U+2A8E \gsime*
 U+2A8F \lsimg*
 U+2A90 \gsiml*
 U+2A91 \lgE*
 U+2A92 \glE*
 U+2A93 \lesges*
 U+2A94 \gesles*
 U+2A95 \eqslantless
 U+2A96 \eqslantgtr
 U+2A97 \elsdot*
 U+2A98 \egsdot*
 U+2A99 \eqqless*
 U+2A9A \eqqgtr*
 U+2A9B \eqqslantless*
 U+2A9C \eqqslantgtr*
 U+2A9D \simless
 U+2A9E \simgtr
 U+2A9F \simlE*
 U+2AA0 \simgE*
 U+2AA1 \Lt*
 U+2AA2 \Gt*
 U+2AA3 \partialmeetcontraction*
 U+2AA4 \glj*
 U+2AA5 \gla*
 U+2AA6 \ltcc*
 U+2AA7 \gtcc*
 U+2AA8 \lescc*
 U+2AA9 \gescc*
 U+2AAA \smt*
 U+2AAB \lat*
 U+2AAC \smte*
 U+2AAD \late*
 U+2AAE \bumpeq*
 U+2AAF \preceq
 U+XXXX \npreceq*
 U+2AB0 \succeq
 U+XXXX \nsucceq*
 U+2AB1 \precneq*

U+2AB2 \succneq*
 U+2AB3 \preceqq*
 U+2AB4 \succeqq*
 U+2AB5 \precneqq*
 U+2AB6 \succneqq*
 U+2AB7 \precapprox*
 U+2AB8 \succapprox*
 U+2AB9 \precnapprox*
 U+2ABA \succnapprox*
 U+2ABB \Prec*
 U+2ABC \Succ*
 U+2ABD \subsetdot
 U+2ABE \supsetdot
 U+2ABF \subsetplus*
 U+2AC0 \supsetplus*
 U+2AC1 \submult*
 U+2AC2 \supmult*
 U+2AC3 \subedot*
 U+2AC4 \supedot*
 U+2AC5 \subseteqq
 U+XXXX \nsubseteqq*
 U+2AC6 \supseteqq
 U+XXXX \nsupseteqq*
 U+2AC7 \subsim*
 U+2AC8 \supsim*
 U+2AC9 \subsetapprox*
 U+2ACA \supsetapprox*
 U+2ACB \subsetneqq
 U+2ACB \varsubsetneqq*
 U+2ACC \supsetneqq
 U+2ACC \varsupsetneqq*
 U+2ACD \lsqhook
 U+2ACE \rsqhook
 U+2ACF \csub
 U+2AD0 \csup
 U+2AD1 \csube
 U+2AD2 \csupe
 U+2AD3 \subsup
 U+2AD4 \supsub
 U+2AD5 \subsub
 U+2AD6 \supsup
 U+2AD7 \suphsub
 U+2AD8 \supdsub
 U+2AD9 \forkv
 U+2ADA \topfork
 U+2ADB \mlcp

⋈	U+2ADC	\forks	↵	U+2B3E	\leftarrow*
⋇	U+2ADD	\forksnot	↶	U+2B3F	\leftcurvedarrow*
⋆	U+2ADE	\shortlefttack	⇐	U+2B40	\equalleftarrow*
⋑	U+2ADF	\shortdowntack	↵	U+2B41	\bsimilarleftarrow*
⋊	U+2AE0	\shortuptack	↶	U+2B42	\leftarrowbackapprox*
≡	U+2AE2	\vDdash	➤	U+2B43	\rightarrowgtr*
⇐	U+2AE3	\dashV	➤	U+2B44	\rightarrowsupset*
⇐	U+2AE4	\Dashv	⇐	U+2B45	\Lleftarrow*
⇐	U+2AE5	\DashV	⇒	U+2B46	\Rrightarrow*
⋈	U+2AE6	\varVdash	↷	U+2B47	\bsimilarrightarrow*
⋑	U+2AE7	\Barv	↷	U+2B48	\rightarrowbackapprox*
±	U+2AE8	\vBar	↵	U+2B49	\similarleftarrow*
±	U+2AE9	\vBarv	↶	U+2B4A	\leftarrowapprox*
∥	U+2AEA	\barV	↶	U+2B4B	\leftarrowbsimilar*
∥	U+2AEB	\Vbar	↷	U+2B4C	\rightarrowbsimilar*
≠	U+2AEC	\Not	≠	U+XXXX	\ngeqq
≠	U+2AED	\bNot	≠	U+XXXX	\ngeqslant
⋈	U+2AEE	\revnmid	≠	U+XXXX	\nleqslant
⋈	U+2AEF	\circmid	≠	U+XXXX	\nleqq
⋈	U+2AF0	\midcir	≠	U+XXXX	\ncongdot
⋈	U+2AF2	\nhpar	≠	U+XXXX	\napproxeqq
⋈	U+2AF3	\parsim	≠	U+XXXX	\nll
≡	U+2AF7	\lllnest	≠	U+XXXX	\ngg
≡	U+2AF8	\gggnest	⊆	U+XXXX	\nsqsubset
≡	U+2AF9	\leqqslant	⊇	U+XXXX	\nsqsupset
≡	U+2AFA	\geqqslant	≠	U+XXXX	\nBumpeq
⊕	U+2B30	\circleonleftarrow*	≠	U+XXXX	\nbumpeq
⇐	U+2B31	\leftthreearrows*	≠	U+XXXX	\neqsim
⊕	U+2B32	\leftarrowonoplus*	≠	U+XXXX	\nvarisinobar
↔	U+2B33	\longleftsquigarrow*	≠	U+XXXX	\nvarniobar
⇐	U+2B34	\nvtwoheadleftarrow*	≠	U+XXXX	\neqslantless
⇐	U+2B35	\nVtwoheadleftarrow*	≠	U+XXXX	\neqslantgtr
⇐	U+2B36	\twoheadmapsfrom*	⋈	U+XXXX	\lhook
⇐	U+2B37	\twoheadleftdbkarrow*	⋈	U+XXXX	\rhook
⇐	U+2B38	\leftdotarrow*	-	U+XXXX	\relbar
⇐	U+2B39	\nvleftarrowtail*	=	U+XXXX	\Relbar
⇐	U+2B3A	\nVleftarrowtail*	≡	U+XXXX	\Rrelbar*
⇐	U+2B3B	\twoheadleftarrowtail*	≡	U+XXXX	\RRelbar*
⇐	U+2B3C	\nvtwoheadleftarrowtail*	⋈	U+XXXX	\mapsfromchar
⇐	U+2B3D	\nVtwoheadleftarrowtail*	⋈	U+XXXX	\mapstochar

4.5 Punctuation

,	U+002C	,	:	U+003A	<code>\colon</code>
.	U+002E	<code>\ldotp</code>	;	U+003B	;

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 *slanted* or the *upright* variant. Thus, `\ints1$` will always yield \int and `\intup$` will always yield \int , and similarly for the other integrals.

\int	U+222B	<code>\smallint</code>	\int	U+2A10	<code>\smallcirfnint</code>	
\iint	U+222C	<code>\smalliint</code>	\int	U+2A11	<code>\smallawint</code>	
\iiint	U+222D	<code>\smalliiint</code>	\int	U+2A12	<code>\smallrppolint</code>	
\oint	U+222E	<code>\smalloint</code>	\int	U+2A13	<code>\smallscpolint</code>	
\oiint	U+222F	<code>\smalloiint</code>	\int	U+2A14	<code>\smallnpolint</code>	
\oiiint	U+2230	<code>\smalloiiint</code>	\int	U+2A15	<code>\smallpointint</code>	
\int	U+2231	<code>\smallintclockwise</code>	\int	U+2A16	<code>\smallsqint</code>	
\int	U+2232	<code>\smallvarointclockwise</code>	\int	U+2A17	<code>\smallintlarhk</code>	
\int	U+2233	<code>\smallointctrlockwise</code>	\int	U+2A18	<code>\smallintx</code>	
\int	U+2A0B	<code>\smallsumint</code>	\int	U+2A19	<code>\smallintcap</code>	
\iiint	U+2A0C	<code>\smalliiiint</code>	\int	U+2A1A	<code>\smallintcup</code>	
\int	U+2A0D	<code>\smallintbar</code>	\int	U+2A1B	<code>\smallupint</code>	
\int	U+2A0E	<code>\smallintBar</code>	\int	U+2A1C	<code>\smalllowint</code>	
\int	U+2A0F	<code>\smallfint</code>				
\int	\int	U+222B	<code>\int</code>	\oint	U+2233	<code>\ointctrlockwise</code>
\iint	\iint	U+222C	<code>\iint</code>	\int	U+2A0B	<code>\sumint</code>
\iiint	\iiint	U+222D	<code>\iiiint</code>	\iiint	U+2A0C	<code>\iiiint</code>
\oint	\oint	U+222E	<code>\oint</code>	\int	U+2A0D	<code>\intbar</code>
\oiint	\oiint	U+222F	<code>\oiint</code>	\int	U+2A0E	<code>\intBar</code>
\oiiint	\oiiint	U+2230	<code>\oiiint</code>	\int	U+2A0F	<code>\fint</code>
\int	\int	U+2231	<code>\intclockwise</code>	\int	U+2A10	<code>\cirfnint</code>
\int	\int	U+2232	<code>\varointclockwise</code>	\int	U+2A11	<code>\awint</code>

\int	\int	U+2A12	<code>\rppolint</code>
\int	\int	U+2A13	<code>\scpolint</code>
\int	\int	U+2A14	<code>\npolint</code>
\int	\int	U+2A15	<code>\pointint</code>
\int	\int	U+2A16	<code>\sqint</code>
\int	\int	U+2A17	<code>\intlarhk</code>

\int	\int	U+2A18	<code>\intx</code>
\int	\int	U+2A19	<code>\intcap</code>
\int	\int	U+2A1A	<code>\intcup</code>
\int	\int	U+2A1B	<code>\upint</code>
\int	\int	U+2A1C	<code>\lowint</code>

4.7 Big operators

Σ	Σ	U+2140	<code>\Bbbsum</code>
Π	Π	U+220F	<code>\prod</code>
\coprod	\coprod	U+2210	<code>\coprod</code>
Σ	Σ	U+2211	<code>\sum</code>
\wedge	\wedge	U+22C0	<code>\bigwedge</code>
\vee	\vee	U+22C1	<code>\bigvee</code>
\cap	\cap	U+22C2	<code>\bigcap</code>
\cup	\cup	U+22C3	<code>\bigcup</code>
\bowtie	\bowtie	U+27D5	<code>\leftouterjoin*</code>
\bowtie	\bowtie	U+27D6	<code>\rightouterjoin*</code>
\bowtie	\bowtie	U+27D7	<code>\fullouterjoin*</code>
\perp	\perp	U+27D8	<code>\bigbot*</code>
\top	\top	U+27D9	<code>\bigtop*</code>
$/$	$/$	U+29F8	<code>\xsol*</code>
\backslash	\backslash	U+29F9	<code>\xbsol*</code>
\odot	\odot	U+2A00	<code>\bigodot*</code>

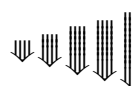

\oplus	\oplus	U+2A01	<code>\bigoplus*</code>
\otimes	\otimes	U+2A02	<code>\bigotimes*</code>
$\cup\cdot$	$\cup\cdot$	U+2A03	<code>\bigcupdot*</code>
\oplus	\oplus	U+2A04	<code>\biguplus*</code>
\sqcap	\sqcap	U+2A05	<code>\bigsqcap*</code>
\sqcup	\sqcup	U+2A06	<code>\bigsqcup*</code>
\rhd	\rhd	U+2A07	<code>\conjquant*</code>
\lhd	\lhd	U+2A08	<code>\disjquant*</code>
\times	\times	U+2A09	<code>\bigtimes*</code>
\sum	\sum	U+2A0A	<code>\modtwosum*</code>
\Join	\Join	U+2A1D	<code>\Join*</code>
\triangleleft	\triangleleft	U+2A1E	<code>\bigtriangleleft*</code>
\z	\z	U+2A1F	<code>\zcmp*</code>
\gg	\gg	U+2A20	<code>\zpipe*</code>
\uparrow	\uparrow	U+2A21	<code>\zproject*</code>
\parallel	\parallel	U+2AFC	<code>\biginterleave</code>
\parallel	\parallel	U+2AFF	<code>\bigtalloblong*</code>



4.8 Delimiters

$///$	U+002F	<code>/</code>
$((((($	U+0028	<code>(</code>
$[[[[[$	U+005B	<code>[</code>

${\{\{\{\{$	U+007B	<code>\lbrace</code>
$\\$	U+005C	<code>\backslash</code>
$))))$	U+0029	<code>)</code>

$\lceil \lceil \lceil \lceil$	U+005D]	$((((($	U+2985 \lParen*
$\rceil \rceil \rceil \rceil$	U+007D \rbrace	$\lceil \lceil \lceil \lceil$	U+2309 \rceil
$\lfloor \lfloor \lfloor \lfloor$	U+2308 \lceil	$\rfloor \rfloor \rfloor \rfloor$	U+230B \rfloor
$\lceil \lfloor \lfloor \lfloor$	U+230A \lfloor	$\lceil \lceil \lceil \lceil$	U+23B1 \rmoustache*
$\rfloor \rfloor \rfloor \rfloor$	U+23B0 \lmoustache*	$\rfloor \rfloor \rfloor \rfloor$	U+2773 \rbrbrak*
$\lfloor \lfloor \lfloor \lfloor$	U+2772 \lbrbrak*	$\lceil \lceil \lceil \lceil$	U+27E7 \rBrack*
$\lceil \lceil \lceil \lceil$	U+27E6 \lBrack*	$\rangle \rangle \rangle \rangle$	U+27E9 \rangle, >
$\langle \langle \langle \langle$	U+27E8 \rangle, <	$\rangle \rangle \rangle \rangle \rangle$	U+27EB \rangle*
$\langle \langle \langle \langle \langle$	U+27EA \rangle*	$\rangle \rangle \rangle \rangle$	U+27EF \rangle*
$\lceil \lceil \lceil ($	U+27EE \lgroup*	$\} \} \} \}$	U+2984 \rBrace*
$\} \} \} \{ \{ \{ \{$	U+2983 \lBrace*	$\) \) \) \)$	U+2986 \rParen*
$\lvert \lvert \lvert \lvert$	U+007C \vert, |	$\uparrow \uparrow \uparrow \uparrow$	U+21D1 \Uparrow
$\lvert \lvert \lvert \lvert \lvert$	U+2016 \Vert*, \lvert	$\downarrow \downarrow \downarrow \downarrow$	U+21D3 \Downarrow
$\lvert \lvert \lvert \lvert \lvert \lvert$	U+2980 \Vvert	$\updownarrow \updownarrow \updownarrow \updownarrow$	U+21D5 \Updownarrow
$\uparrow \uparrow \uparrow \uparrow$	U+2191 \uparrow	$\uparrow \uparrow \uparrow \uparrow \uparrow$	U+290A \Uparrow*
$\downarrow \downarrow \downarrow \downarrow$	U+2193 \downarrow	$\downarrow \downarrow \downarrow \downarrow \downarrow$	U+290B \Ddownarrow*
$\updownarrow \updownarrow \updownarrow \updownarrow$	U+2195 \updownarrow	$\uparrow \uparrow \uparrow \uparrow \uparrow \uparrow$	U+27F0 \Uparrow*

 U+27F1 \DDownarrow*
 U+XXXX \arrowvert

 U+XXXX \Arrowvert
 U+XXXX \bracevert*

4.9 Other braces

⌈	U+231C	\ulcorner*	⌠	U+2993	\lparenless*
⌋	U+231D	\urcorner*	⌡	U+2994	\rparenengtr*
⌌	U+231E	\llcorner*	⌢	U+2995	\Lparenengtr*
⌍	U+231F	\lrcorner*	⌣	U+2996	\Rparenless*
⌜	U+27EC	\Lbrbrak*	⌤	U+2997	\lblkbrbrak*
⌝	U+27ED	\Rbrbrak*	⌥	U+2998	\rblkbrbrak*
⌜	U+2987	\llparenthesis*	⌦	U+29D8	\lvzigzag*
⌝	U+2988	\rrparenthesis*	⌧	U+29D9	\rvzigzag*
⌜	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*	⌮	U+27C5	\lbag*
]	U+2990	\rbrackurtick*	⌯	U+27C6	\rbag*
⌵	U+2991	\langedot*	⌰	U+27EC	\Lbrbrak*
⌶	U+2992	\rangedot*	⌱	U+27ED	\Rbrbrak*

4.10 Accents

̀	U+0300	\grave	̂	U+0315	\ocommatopright
́	U+0301	\acute	̃	U+031A	\droang
̂	U+0302	\hat	̄	U+20D0	\leftharpoonaccent
̃	U+0303	\tilde	̅	U+20D1	\rightharpoonaccent
̄	U+0304	\bar	̆	U+20D6	\leftarrowaccent
̆	U+0306	\breve	̇	U+20D7	\vec, \rightarrowaccent
̇	U+0307	\dot	̈	U+20E1	\leftrightarrowaccent
̈	U+0308	\ddot	̉	U+20DB	\dddots
̉	U+0309	\ovhook	̊	U+20DC	\ddddots
̊	U+030A	\mathring	̋	U+20E7	\annuity
̋	U+030C	\check	̌	U+20E9	\widebridgeabove
̌	U+0310	\candra	̍	U+20F0	\asteraccent
̍	U+0312	\oturnedcomma			

\widehat{xxx}	U+0302	<code>\widehat*</code>	\overleftarrow{xxx}	U+20E1	<code>\overleftrightharpoon</code>
\widetilde{xxx}	U+0303	<code>\widetilde*</code>	\underleftarrow{xxx}	U+034D	<code>\underleftrightharpoon</code>
\widecheck{xxx}	U+030C	<code>\widecheck*</code>	\overleftarrow{xxx}	U+20D0	<code>\overleftharpoon</code>
\overleftarrow{xxx}	U+20D6	<code>\overleftarrow</code>	\overrightarrow{xxx}	U+20D1	<code>\overrightharpoon</code>
\overrightarrow{xxx}	U+20D7	<code>\overrightarrow</code>	\underleftarrow{xxx}	U+20EC	<code>\underleftharpoon</code>
\underrightarrow{xxx}	U+20EF	<code>\underrightarrow</code>	\underrightarrow{xxx}	U+20ED	<code>\underrightharpoon</code>
\underleftarrow{xxx}	U+20EE	<code>\underleftarrow</code>			

OpenType STIX fonts include a number of under accents that can be used in math mode, but \TeX 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 $\underset{\hat{}}{X}$. The undertilde package provides `\utilde` for extensible under tilde accent.

4.11 Over and under brackets

\overbrace{xxxxxx}	U+23B4	<code>\overbrace</code>	\underbrace{xxxxxx}	U+23B5	<code>\underbrace</code>
\overparen{xxxxxx}	U+23DC	<code>\overparen</code>	\underparen{xxxxxx}	U+23DD	<code>\underparen</code>
\overbrace{xxxxxx}	U+23DE	<code>\overbrace</code>	\underbrace{xxxxxx}	U+23DF	<code>\underbrace</code>

4.12 Radicals

\sqrt{b}	U+221A	<code>\sqrt</code>	$\overline{)b}$	U+27CC	<code>\longdivision*</code>
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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	'6	'7	
'00x	Γ	Δ	Θ	Λ	Ξ	Π	Σ	Υ	"0x
'01x	Φ	Ψ	Ω	ff	fi	fl	ffi	ffl	
'02x	ı	ı	`	˘	ˇ	˘	-	˚	"1x
'03x	ı	ß	æ	œ	ø	Æ	Œ	Ø	
'04x		!	”	#	\$	%	&	'	"2x
'05x	()	*	+	,	-	.	/	
'06x	0	1	2	3	4	5	6	7	"3x
'07x	8	9	:	;	i	=	ı	?	
'10x	@	A	B	C	D	E	F	G	"4x
'11x	H	I	J	K	L	M	N	O	
'12x	P	Q	R	S	T	U	V	W	"5x
'13x	X	Y	Z	[“]	^	·	
'14x	‘	a	b	c	d	e	f	g	"6x
'15x	h	i	j	k	l	m	n	o	
'16x	p	q	r	s	t	u	v	w	"7x
'17x	x	y	z	-	—	”	~	..	
	"8	"9	"A	"B	"C	"D	"E	"F	

ot1-stixgeneralasc

	'0	'1	'2	'3	'4	'5	'6	'7	
'00x	Γ	Δ	Θ	Λ	Ξ	Π	Σ	Υ	"0x
'01x	Φ	Ψ	Ω	ff	fi	fl	ffi	ffl	
'02x	ı	ı	`	´	˘	˙	-	°	"1x
'03x	ı	ss	Æ	Œ	Ø	Æ	Œ	Ø	
'04x		!	”	#	\$	%	&	’	"2x
'05x	()	*	+	,	-	.	/	
'06x	0	1	2	3	4	5	6	7	"3x
'07x	8	9	:	;	i	=	ı	?	
'10x	@	A	B	C	D	E	F	G	"4x
'11x	H	I	J	K	L	M	N	O	
'12x	P	Q	R	S	T	U	V	W	"5x
'13x	X	Y	Z	[“]	^	·	
'14x	‘	A	B	C	D	E	F	G	"6x
'15x	H	I	J	K	L	M	N	O	
'16x	P	Q	R	S	T	U	V	W	"7x
'17x	X	Y	Z	-	—	˘	˙	¨	
	"8	"9	"A	"B	"C	"D	"E	"F	

t1-stixgeneral

	'0	'1	'2	'3	'4	'5	'6	'7	
'00x	`	´	^	~	¨	˘	°	˘	"0x
'01x	˘	-	·	˙	˚	˛	<	>	
'02x	“	”	„	«	»	–	—		"1x
'03x	◦	ı	ı	ıı	ıı	ıı	ııı	ııı	
'04x	_	!	"	#	\$	%	&	'	"2x
'05x	()	*	+	,	-	.	/	
'06x	0	1	2	3	4	5	6	7	"3x
'07x	8	9	:	;	<	=	>	?	
'10x	@	A	B	C	D	E	F	G	"4x
'11x	H	I	J	K	L	M	N	O	
'12x	P	Q	R	S	T	U	V	W	"5x
'13x	X	Y	Z	[\]	^	_	
'14x	‘	a	b	c	d	e	f	g	"6x
'15x	h	i	j	k	l	m	n	o	
'16x	p	q	r	s	t	u	v	w	"7x
'17x	x	y	z	{	|	}	~	-	
'20x	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	"8x
'21x	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	
'22x	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	"9x
'23x	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	
'24x	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	"Ax
'25x	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	
'26x	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	"Bx
'27x	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	
'30x	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	"Cx
'31x	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	
'32x	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	"Dx
'33x	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	
'34x	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	"Ex
'35x	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	
'36x	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	"Fx
'37x	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	Ǻ	
	"8	"9	"A	"B	"C	"D	"E	"F	

*"18 and "DF do not exist in STIX OpenType fonts, they were added as part of this package for compatibility with T1 encoding.

t1-stixgeneralisc

	'0	'1	'2	'3	'4	'5	'6	'7	
'00x	`	´	^	~	¨	˘	°	˘	"0x
'01x	˘	-	·	‚	ˆ	‚	<	>	
'02x	“	”	„	«	»	-	—		"1x
'03x	o	I	J	ff	fi	fl	ffi	ffl	
'04x	_	!	"	#	\$	%	&	'	"2x
'05x	()	*	+	,	-	.	/	
'06x	0	1	2	3	4	5	6	7	"3x
'07x	8	9	:	;	<	=	>	?	
'10x	@	A	B	C	D	E	F	G	"4x
'11x	H	I	J	K	L	M	N	O	
'12x	P	Q	R	S	T	U	V	W	"5x
'13x	X	Y	Z	[\]	^	_	
'14x	‘	A	B	C	D	E	F	G	"6x
'15x	H	I	J	K	L	M	N	O	
'16x	P	Q	R	S	T	U	V	W	"7x
'17x	X	Y	Z	{	|	}	~	-	
'20x	Ǻ	Ą	Ć	Č	Ǿ	Ě	Ę	Ǧ	"8x
'21x	Ł	Ł	Ł	Ń	Ń	Đ	Ŏ	Ŕ	
'22x	Ř	Ś	Š	Ş	Ť	Ŧ	Ů	Ű	"9x
'23x	Ÿ	Ž	Ž	Ž	ıı	ı	ı	£	
'24x	Ǻ	Ą	Ć	Č	Ǿ	Ě	Ę	Ǧ	"Ax
'25x	Ł	Ł	Ł	Ń	Ń	Đ	Ŏ	Ŕ	
'26x	Ř	Ś	Š	Ş	Ť	Ŧ	Ů	Ű	"Bx
'27x	Ÿ	Ž	Ž	Ž	ıı	ı	ı	£	
'30x	À	Á	Â	Ã	Ä	Å	Æ	Ç	"Cx
'31x	È	É	Ê	Ë	Ì	Í	Î	Ï	
'32x	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	Œ	"Dx
'33x	Ø	Ù	Ú	Û	Ü	Ý	Þ	ŠŠ	
'34x	À	Á	Â	Ã	Ä	Å	Æ	Ç	"Ex
'35x	È	É	Ê	Ë	Ì	Í	Î	Ï	
'36x	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	Œ	"Fx
'37x	Ø	Ù	Ú	Û	Ü	Ý	Þ	ŠŠ	
	"8	"9	"A	"B	"C	"D	"E	"F	

ot2-stixgeneral

	'0	'1	'2	'3	'4	'5	'6	'7	
'00x	Њ	Љ	Џ	Э	І	Є	Ђ	Ћ	"0x
'01x	њ	љ	џ	э	і	є	ђ	ћ	
'02x	Ю	Ж	Й	Ё	У	Ө	Ѕ	Я	"1x
'03x	ю	ж	й	ё	у	ө	ѕ	я	
'04x	“	!	”	Ђ	ˆ	%	’	,	"2x
'05x	(	)	*	ђ	,	-	.	/	
'06x	0	1	2	3	4	5	6	7	"3x
'07x	8	9	:	;	«	ı	»	?	
'10x	˘	А	Б	Ц	Д	Е	Ф	Г	"4x
'11x	Х	И	Ј	К	Л	М	Н	О	
'12x	П	Ч	Р	С	Т	У	В	Щ	"5x
'13x	Ш	Ы	Э	[	“	]	Ь	Ъ	
'14x	‘	а	б	ц	д	е	ф	г	"6x
'15x	х	и	ј	к	л	м	н	о	
'16x	п	ч	р	с	т	у	в	щ	"7x
'17x	ш	ы	з	–	—	№	ь	ъ	
'22x			Ў						"9x
'23x									
'26x			ў						"Bx
'27x									
	"8	"9	"A	"B	"C	"D	"E	"F	

*"24 does not exist in STIX OpenType fonts, it was added as part of this package for compatability with OT2 encoding.

ot2-stixgeneralsc

	'0	'1	'2	'3	'4	'5	'6	'7	
'00x	Њ	Љ	Џ	Э	І	Є	Ђ	Ђ	"0x
'01x	њ	љ	џ	э	і	є	ђ	ђ	
'02x	Ю	Ж	Й	Ё	У	Ө	Ѕ	Я	"1x
'03x	ю	ж	й	ё	у	ө	ѕ	я	
'04x	“	!	”	Ђ	“	%	’	,	"2x
'05x	(	)	*	Ђ	,	-	.	/	
'06x	0	1	2	3	4	5	6	7	"3x
'07x	8	9	:	;	«	й	»	?	
'10x	˘	А	Б	Ц	Д	Е	Ф	Г	"4x
'11x	Х	И	Ј	К	Л	М	Н	О	
'12x	П	Ч	Р	С	Т	У	В	Щ	"5x
'13x	Ш	Ы	З	[	“	]	Ь	Ъ	
'14x	‘	А	Б	Ц	Д	Е	Ф	Г	"6x
'15x	х	и	ј	к	л	м	н	о	
'16x	п	ч	р	с	т	у	в	щ	"7x
'17x	ш	ы	з	–	—	№	ь	ъ	
'22x			Ў						"9x
'23x									
'26x			ў						"Bx
'27x									
	"8	"9	"A	"B	"C	"D	"E	"F	

ts1-stixgeneral

	'0	'1	'2	'3	'4	'5	'6	'7	
'00x	`	˘	^	˜	¨	˝	°	˘	"0x
'01x	˘	-	·	‚	˙	‚			
'02x			”						"1x
'03x	←	→							
'04x					\$			'	"2x
'05x			*		,		.	/	
'06x	o	1	2	3	4	5	6	7	"3x
'07x	8	9			<	-	>		
'10x									"4x
'11x						∅		○	
'12x								Ω	"5x
'13x				∥		∥	↑	↓	
'14x	˘								"6x
'15x							♪		
'16x									"7x
'17x							˜		
'20x	˘	˘	˝	˜	‡	‡	∥	‰	"8x
'21x	•		\$	¢	f				
'22x			£	℞				™	"9x
'23x	‰			№	/	e	o		
'24x			¢	£	¤	¥	!	§	"Ax
'25x	¨	©	ª		¬	®	®	-	
'26x	°	±	²	³	´	μ	¶	·	"Bx
'27x	※	¹	º	√	¼	½	¾	€	
'32x							×		"Dx
'33x									
'36x							÷		"Fx
'37x									
	"8	"9	"A	"B	"C	"D	"E	"F	

5.2 Math fonts

stix-mathrm

	'0	'1	'2	'3	'4	'5	'6	'7	
'00x	Γ	Δ	Θ	Λ	Ξ	Π	Σ	Υ	"0x
'01x	Φ	Ψ	Ω	α	β	γ	δ	ε	
'02x	ζ	η	θ	ι	κ	λ	μ	ν	"1x
'03x	ξ	π	ρ	σ	τ	υ	φ	χ	
'04x	ψ	ω	ε	ϑ	Ϙ	ϙ	ς	φ	"2x
'05x	∇	∂	−	+	±	∓	()	
'06x	0	1	2	3	4	5	6	7	"3x
'07x	8	9	:	;	*	=	\$?	
'10x	!	A	B	C	D	E	F	G	"4x
'11x	H	I	J	K	L	M	N	O	
'12x	P	Q	R	S	T	U	V	W	"5x
'13x	X	Y	Z	[\]	{	/	
'14x	}	a	b	c	d	e	f	g	"6x
'15x	h	i	j	k	l	m	n	o	
'16x	p	q	r	s	t	u	v	w	"7x
'17x	x	y	z	ı	ı	#	%	'	
'20x	`	´	^	˜	-	˘	·	..	"8x
'21x	˙	◦	˘	◊	◊	◊	◊	◊	
'22x	-	-	-	...	...	↔	⊥	⊥	"9x
'23x	*	&	@	¬	·	×	≤	÷	
'24x	Z	/	ə	†	‡	•	..	...	"Ax
'25x	!	"	'''	ˆ	ˆ	ˆ	ˆ	!!	
'26x	·	/	??	○	////	|	○	□	"Bx
'27x	◇	△	ε	ϕ	ı	Å	⊥	⊙	
'30x	⌈	⌋	λ	⊆	⊈	∩	⊂	⊃	"Cx
'31x	≠	∅	Δ	∈	∉	ε	∋	≠	
'32x	∋	■	‡	≥	≤	◦	•	α	"Dx
'33x	∞	L	∠	∠	∠	|	†	||	
'34x	‡	∧	∨	∩	∪	∴	∴	∅	"Ex
'35x	∴	÷	∴	∴	≈	≈	≈	≈	
'36x	≈	≈	≈	≈	≈	≈	≈	≈	"Fx
'37x	≠	≈	≈	≈	≈	≈	≈	≈	
	"8	"9	"A	"B	"C	"D	"E	"F	

stix-mathit

	'0	'1	'2	'3	'4	'5	'6	'7	
'00x	Γ	Δ	Θ	Λ	Ξ	Π	Σ	Υ	"0x
'01x	Φ	Ψ	Ω	α	β	γ	δ	ϵ	
'02x	ζ	η	θ	ι	κ	λ	μ	ν	"1x
'03x	ξ	π	ρ	σ	τ	υ	ϕ	χ	
'04x	ψ	ω	ε	ϑ	ϖ	ϱ	ς	φ	"2x
'05x	∇	∂	\aleph	\beth	λ	\daleth	\triangleright	\triangleleft	
'06x	0	1	2	3	4	5	6	7	"3x
'07x	8	9	.	,	<	\hbar	>	*	
'10x	\lesseqgtr	A	B	C	D	E	F	G	"4x
'11x	H	I	J	K	L	M	N	O	
'12x	P	Q	R	S	T	U	V	W	"5x
'13x	X	Y	Z	b	q	#	~	^	
'14x	\hbar	a	b	c	d	e	f	g	"6x
'15x	h	i	j	k	l	m	n	o	
'16x	p	q	r	s	t	u	v	w	"7x
'17x	x	y	z	ı	J	\lesseqgtr	\ll)	
'20x	`	'	^	~	-	˘	·	∴	"8x
'21x	˙	◦	˘	˙	˚	˛	˜	˝	
'22x	-	ˆ	˜	⋮	⋯	↔	⌊	⌋	"9x
'23x	*	-	^	~	˘	ˆ	˜	˘	
'24x	⌈	⌋	⌋	⌈	⌋	⌋	⌈	⌋	"Ax
'25x	⌋	⌈	⌈	⌋	⌈	⌋	⌈	⌋	
'26x	⌈	⌋	⌋	⌈	⌈	⌈	⌈	⌈	"Bx
'27x	\gg	\ll	\neq	\neq	\neq	\neq	\neq	\neq	
'30x	\approx	\approx	\approx	\approx	\approx	\approx	\approx	\approx	"Cx
'31x	\succ	\preceq	\succeq	\succ	\succ	\neq	\neq	\subset	
'32x	\supset	\subsetneq	\supsetneq	\subseteq	\supseteq	\subsetneq	\supsetneq	\subsetneq	"Dx
'33x	\supsetneq	\subseteq	\supseteq	\subseteq	\sqcap	\sqcup	\sqcap	\sqcup	
'34x	\sqcap	\sqcup	\oplus	\ominus	\otimes	\oslash	\odot	\odot	"Ex
'35x	\otimes	\ominus	\ominus	\boxplus	\boxminus	\boxtimes	\boxdiv	\top	
'36x	\vdash	\top	\perp	\vdash	\vDash	\vDash	\Vdash	\Vdash	"Fx
'37x	\vDash	\vDash	\vDash	\vDash	\vDash	\rightsquigarrow	\rightsquigarrow	\triangleleft	
	"8	"9	"A	"B	"C	"D	"E	"F	

stix-mathsf

	'0	'1	'2	'3	'4	'5	'6	'7	
'00x	Γ	Δ	Θ	Λ	Ξ	Π	Σ	Υ	"0x
'01x	Φ	Ψ	Ω	α	β	γ	δ	ε	
'02x	ζ	η	θ	ι	κ	λ	μ	ν	"1x
'03x	ξ	π	ρ	σ	τ	υ	φ	χ	
'04x	ψ	ω	ε	ϑ	Ϙ	ϙ	ς	φ	"2x
'05x	∇	∂	Ϸ	ϸ	-	=	≡	≡	
'06x	0	1	2	3	4	5	6	7	"3x
'07x	8	9	ι	ι	ι	ι	ι	ι	
'10x	⊗	A	B	C	D	E	F	G	"4x
'11x	H	I	J	K	L	M	N	O	
'12x	P	Q	R	S	T	U	V	W	"5x
'13x	X	Y	Z	↵	↵	↵	↵	↵	
'14x	⇓	a	b	c	d	e	f	g	"6x
'15x	h	i	j	k	l	m	n	o	
'16x	p	q	r	s	t	u	v	w	"7x
'17x	x	y	z	ι	ι	ι	ι	ι	
'20x	`	´	^	˘	-	˘	˙	˚	"8x
'21x	˛	˚	˘	˘	˘	˘	˘	˘	
'22x	-	-	-	⋮	⋮	†	⌈	⌊	"9x
'23x	*	→	↓	↔	↕	↗	↘	↙	
'24x	↙	↔	↔	↔	↔	↔	↔	↔	"Ax
'25x	↓	↔	↔	↔	↔	↔	↔	↔	
'26x	↔	↔	↔	↔	↔	↔	↔	↔	"Bx
'27x	↔	↔	↔	↔	↔	↔	↔	↔	
'30x	↔	↔	↔	↔	↔	↔	↔	↔	"Cx
'31x	↔	↔	↔	↔	↔	↔	↔	↔	
'32x	↔	↔	↔	↔	↔	↔	↔	↔	"Dx
'33x	↔	↔	↔	↔	↔	↔	↔	↔	
'34x	↔	↔	↔	↔	↔	↔	↔	↔	"Ex
'35x	↔	↔	↔	↔	↔	↔	↔	↔	
'36x	↔	↔	↔	↔	↔	↔	↔	↔	"Fx
'37x	↔	↔	↔	↔	↔	↔	↔	↔	
	"8	"9	"A	"B	"C	"D	"E	"F	

*"28, "3A, "7B and "7C do not exist in STIX OpenType fonts.

stix-mathsfit

	'0	'1	'2	'3	'4	'5	'6	'7	
'00x	Γ	Δ	Θ	Λ	Ξ	Π	Σ	Υ	"0x
'01x	Φ	Ψ	Ω	α	β	γ	δ	ε	
'02x	ζ	η	θ	ι	κ	λ	μ	ν	"1x
'03x	ξ	π	ρ	σ	τ	υ	φ	χ	
'04x	ψ	ω	ε	ϑ	Ϙ	ϙ	ς	φ	"2x
'05x	∇	∂	⊕	↔	↔	↔	↔	↔	
'06x	0	1	2	3	4	5	6	7	"3x
'07x	8	9	←	↔	↔	↔	↔	↔	
'10x	↔	A	B	C	D	E	F	G	"4x
'11x	H	I	J	K	L	M	N	O	
'12x	P	Q	R	S	T	U	V	W	"5x
'13x	X	Y	Z	↔	↔	↔	↔	↔	
'14x	⇒	a	b	c	d	e	f	g	"6x
'15x	h	i	j	k	l	m	n	o	
'16x	p	q	r	s	t	u	v	w	"7x
'17x	x	y	z	l	J	↔	↔)	
'20x	`	˘	ˆ	˜	ˉ	˘	˙	˚	"8x
'21x	˛	◦	∨	◊	◊	◊	◊	◊	
'22x	-	-	-	⋮	⋮	⋮	⌊	⌋	"9x
'23x	*	↔	↔	↔	↔	↔	↔	↔	
'24x	↔	↔	↔	↔	↔	↔	↔	↔	"Ax
'25x	↔	↔	↔	↔	↔	↔	↔	↔	
'26x	↔	↔	↔	↔	↔	↔	↔	↔	"Bx
'27x	↔	↔	↔	↔	↔	↔	↔	↔	
'30x	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	"Cx
'31x	⊗	⊗	⊗	⊗	↪	↪	↪	↪	
'32x	↪	↪	↪	↪	↪	↪	↪	↪	"Dx
'33x	↪	↪	↪	↪	↪	↪	↪	↪	
'34x	↪	↪	↪	↪	↪	↪	↪	↪	"Ex
'35x	↪	↪	↪	↪	↪	↪	↪	↪	
'36x	↪	↪	↪	↪	↪	↪	↪	↪	"Fx
'37x	↪	↪	↪	↪	↪	↪	↪	↪	
	"8	"9	"A	"B	"C	"D	"E	"F	

*"28, "7B and "7C do not exist in STIX OpenType fonts.

stix-mathtt

	'0	'1	'2	'3	'4	'5	'6	'7	
'00x									"0x
'01x									
'02x									"1x
'03x									
'04x									"2x
'05x									
'06x	0	1	2	3	4	5	6	7	"3x
'07x	8	9							
'10x		A	B	C	D	E	F	G	"4x
'11x	H	I	J	K	L	M	N	O	
'12x	P	Q	R	S	T	U	V	W	"5x
'13x	X	Y	Z						
'14x		a	b	c	d	e	f	g	"6x
'15x	h	i	j	k	l	m	n	o	
'16x	p	q	r	s	t	u	v	w	"7x
'17x	x	y	z	1	j	o			
'20x	o	o							"8x
'21x									
'22x									"9x
'23x									
'24x									"Ax
'25x									
'26x	U	U	U	U	U	U	U	U	"Bx
'27x	U	U							
	"8	"9	"A	"B	"C	"D	"E	"F	

*"7B and "7C do not exist in STIX OpenType fonts.

stix-mathbb

	'0	'1	'2	'3	'4	'5	'6	'7	
'00x	⌈					⌈			"0x
'01x						⌋			
'02x									"1x
'03x		≡							
'04x							⋈	⋈	"2x
'05x	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	
'06x	0	1	2	3	4	5	6	7	"3x
'07x	8	9	⋈	⋈	⋈	⋈	⋈	⋈	
'10x	A	B	C	D	E	F	G		"4x
'11x	H	I	J	K	L	M	N	O	
'12x	P	Q	R	S	T	U	V	W	"5x
'13x	X	Y	Z	⋈	⋈	⋈	⋈	⋈	
'14x	a	b	c	d	e	f	g	h	"6x
'15x	i	j	k	l	m	n	o		
'16x	p	q	r	s	t	u	v	w	"7x
'17x	x	y	z	⋈	⋈	⋈	⋈	⋈	
'20x	˘	˙	˚	˛	˜	˝	˝	˝	"8x
'21x	˚	˛	˜	˝	˝	˝	˝	˝	
'22x	˚	˛	˜	˝	˝	˝	˝	˝	"9x
'23x	*	⋈	⋈	⋈	⋈	⋈	⋈	⋈	
'24x	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	"Ax
'25x	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	
'26x	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	"Bx
'27x	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	
'30x	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	"Cx
'31x	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	
'32x	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	"Dx
'33x	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	
'34x	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	"Ex
'35x	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	
'36x	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	"Fx
'37x	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	
	"8	"9	"A	"B	"C	"D	"E	"F	

*"7B and "7C do not exist in STIX OpenType fonts.

stix-mathbbbit

	'0	'1	'2	'3	'4	'5	'6	'7	
'00x									"0x
'01x									
'02x									"1x
'03x									
'04x									"2x
'05x									
'06x	0	1	2	3	4	5	6	7	"3x
'07x	8	9							
'10x		A	B	C	D	E	F	G	"4x
'11x	H	I	J	K	L	M	N	O	
'12x	P	Q	R	S	T	U	V	W	"5x
'13x	X	Y	Z						
'14x		a	b	c	d	e	f	g	"6x
'15x	h	i	j	k	l	m	n	o	
'16x	p	q	r	s	t	u	v	w	"7x
'17x	x	y	z	ı	ĵ	£)	
'20x	`	´	^	~	-	˘	·	˙	"8x
'21x	˘	˙	˚	˛	˜	˝	ˆ	˜	
'22x	˘	˙	˚	˛	˜	˝	ˆ	˜	"9x
'23x	*	€	⋈	⊐	⊑	⊒	⊓	⊔	
'24x	⊕	⊖	⊗	⊘	⊙	⊚	⊛	⊜	"Ax
'25x	⊝	⊞	⊟	⊠	⊡	⊢	⊣	⊤	
'26x	⊥	⊦	⊧	⊨	⊩	⊪	⊫	⊬	"Bx
'27x	⊭	⊮	⊯	⊰	⊱	⊲	⊳	⊴	
'30x	⊵	⊶	⊷	⊸	⋮	⋯	⋰	⋱	"Cx
'31x	⋲	⋳	⋴	⋵	⋶	⋷	⋸	⋹	
'32x	◼	◊	◈	◉	◊	◻	◼	◽	"Dx
'33x	•	◦	◐	◑	◒	◓	◔	◕	
'34x	◈	◊	◈	◊	◈	◊	◈	◊	"Ex
'35x	○	●	○	☆	★	☆	◆	◊	
'36x	⊖	≈	≡	⌒	⌒	⊙	∩	⊙	"Fx
'37x	⊙	☾	☾	♀	♂	♠	♥	♦	
	"8	"9	"A	"B	"C	"D	"E	"F	

*"7B and "7C do not exist in STIX OpenType fonts.

stix-mathscr

	'0	'1	'2	'3	'4	'5	'6	'7	
'00x	∇	\circ	\circ	\circ	\dagger	\top	\vee	$\bar{\wedge}$	"0x
'01x	∇	\triangleright	\triangleleft	\diamond	\cdot	\ast	\boxtimes	\boxtimes	
'02x	\times	λ	λ	\leq	γ	\wedge	\in	\ni	"1x
'03x	\mathfrak{m}	\mathfrak{u}	\mathfrak{m}	$\#$	\langle	\rangle	\ll	\gg	
'04x	\leq	\leq	\leq	\leq	\leq	\leq	\neq	\neq	"2x
'05x	∇	∇	∇	∇	∇	∇	∇	∇	
'06x	\mathfrak{A}	\mathfrak{B}	\mathfrak{A}	\mathfrak{B}	\vdots	\dots	\ddots	\ddots	"3x
'07x	\in	\in	\in	\in	\in	\in	\in	\in	
'10x	\ni	\mathcal{A}	\mathcal{B}	\mathcal{C}	\mathcal{D}	\mathcal{E}	\mathcal{F}	\mathcal{G}	"4x
'11x	\mathcal{H}	\mathcal{I}	\mathcal{J}	\mathcal{K}	\mathcal{L}	\mathcal{M}	\mathcal{N}	\mathcal{O}	
'12x	\mathcal{P}	\mathcal{Q}	\mathcal{R}	\mathcal{S}	\mathcal{T}	\mathcal{U}	\mathcal{V}	\mathcal{W}	"5x
'13x	\mathcal{X}	\mathcal{Y}	\mathcal{Z}	\mathfrak{D}	\mathfrak{D}	\mathfrak{D}	\mathfrak{D}	\mathfrak{D}	
'14x	\emptyset	a	b	c	d	e	f	g	"6x
'15x	h	i	j	k	l	m	n	o	
'16x	p	q	r	s	t	u	v	w	"7x
'17x	x	y	z	ι	\mathcal{I}	\mathfrak{D}	\square	\circ	
'20x	\backslash	\prime	\wedge	\sim	$-$	\sim	\cdot	\ddots	"8x
'21x	\prime	\circ	\vee	\sim	\cdot	\cdot	\cdot	\cdot	
'22x	$-$	$-$	$-$	\dots	\dots	\rightarrow	\perp	\perp	"9x
'23x	$*$	$\bar{\wedge}$	$\bar{\wedge}$	\ulcorner	\square	\circ	\mathfrak{D}	$\#$	
'24x	\ulcorner	\ulcorner	\ulcorner	\ulcorner	\ulcorner	\mathfrak{D}	\triangleright	\mathbb{I}	"Ax
'25x	\oplus	\dagger	\dagger	\boxtimes	\boxtimes	\boxtimes	\hexagon	\curvearrowright	
'26x	\square	\mathfrak{D}	$-$	\square	\sim	\times	\ulcorner	\blacksquare	"Bx
'27x	\square	\square	\square	\square	\square	\square	\square	\square	
'30x	\square	\square	\square	\square	\square	\square	\square	\square	"Cx
'31x	\square	\blacktriangle	\triangle	\blacktriangle	\triangle	\blacktriangleright	\triangleright	\blacktriangleright	
'32x	\triangleright	\blacktriangleright	\triangleright	\blacktriangledown	\triangledown	\blacktriangledown	\triangledown	\blacktriangleleft	"Dx
'33x	\triangleleft	\blacktriangleleft	\triangleleft	\blacktriangleleft	\triangleleft	\blacklozenge	\lozenge	\blacklozenge	
'34x	\odot	\diamond	\circ	\odot	\odot	\odot	\bullet	\bullet	"Ex
'35x	\bullet	\bullet	\bullet	\bullet	\bullet	\bullet	\bullet	\bullet	
'36x	\square	\square	\square	\ulcorner	\ulcorner	\ulcorner	\ulcorner	\ulcorner	"Fx
'37x	\ulcorner	\blacktriangle	\blacktriangle	\blacktriangle	\blacktriangle	\circ	\square	\square	
	"8	"9	"A	"B	"C	"D	"E	"F	

*"7B and "7C do not exist in STIX OpenType fonts.

stix-mathcal

	'0	'1	'2	'3	'4	'5	'6	'7	
'00x	f	f	f	f	f	f	f	f	"0x
'01x	f	f	f	f	f	f	f	f	
'02x	f	f	f	f	f	f	f	f	"1x
'03x	f	f	f	f	f	f	f	f	
'04x	f	f	f	f	f	f	f	f	"2x
'05x	f	f	f	f	f	f	f	f	
'06x	f	f	f	f	f	f	f	f	"3x
'07x			\otimes	\odot	\backslash	$/$	∂	\frown	
'10x	\smile	\mathcal{A}	\mathcal{B}	\mathcal{C}	\mathcal{D}	\mathcal{E}	\mathcal{F}	\mathcal{G}	"4x
'11x	\mathcal{H}	\mathcal{I}	\mathcal{J}	\mathcal{K}	\mathcal{L}	\mathcal{M}	\mathcal{N}	\mathcal{O}	
'12x	\mathcal{P}	\mathcal{Q}	\mathcal{R}	\mathcal{S}	\mathcal{T}	\mathcal{U}	\mathcal{V}	\mathcal{W}	"5x
'13x	\mathcal{X}	\mathcal{Y}	\mathcal{Z}	\neq	\neq	\neq	\neq	\neq	
'14x	\equiv	\neq	\neq	\neq	\neq	\equiv	\leq	\geq	"6x
'15x	\leq	\geq							
'16x									"7x
'17x			\times	F	ϑ	\forall	α	\frown	
'20x	\cong	\cong	\cong	\cong	\cong	\cong	\cong	\cong	"8x
'21x	\cong	\cong	\cong	\cong	\cong	\cong	\cong	\cong	
'22x	\cong	\neq	\equiv	\neq	\int	\int	\int	\int	"9x
'23x	f	f	f	f	f	f	f	f	
'24x	f	f	f	f	f	f	f	f	"Ax
'25x	f	f	f	f	f	f	f	f	
'26x	f	f	f	f	f	f	f	f	"Bx
'27x	f	f	f	f	f	f	f	f	
'30x	f	f	f	f	f	f	f	f	"Cx
'31x	f	f	f	f	f	f	f	f	
'32x	f	f	f	f	f	f	f	f	"Dx
'33x	f	f	f	f	f	f	f	f	

*"09, "24, "9D, "B8, "D3 and "EE do not exist in **bold** STIX OpenType fonts.

'34x									"Ex
'35x									
'36x									"Fx
'37x									
	"8	"9	"A	"B	"C	"D	"E	"F	

stix-mathfrak

	'0	'1	'2	'3	'4	'5	'6	'7	
'00x	⊗	→	↙	△	⊥	⊙	⊚	?	"0x
'01x	∫	∇	∞	∩	◇	△	∩	∩	
'02x	∩	∩	∩	∩	⊥	⊥	≠	≠	"1x
'03x	∩	∩	∩	∩	◇	◇	◇	◇	
'04x	□	□	∩	∩	•	∩	∩	∩	"2x
'05x	∩	∩	∩	∩	∩	∩	∩	∩	
'06x	∩	∩	∩	∩	∩	∩	(	)	"3x
'07x	∩	∩	∩	∩	∩	∩	∩	∩	
'10x	∩	∩	∩	∩	∩	∩	∩	∩	"4x
'11x	∩	∩	∩	∩	∩	∩	∩	∩	
'12x	∩	∩	∩	∩	∩	∩	∩	∩	"5x
'13x	∩	∩	∩	∩	∩	∩	∩	∩	
'14x	∩	a	b	c	d	e	f	g	"6x
'15x	h	i	j	k	l	m	n	o	
'16x	p	q	r	s	t	u	v	w	"7x
'17x	x	y	z	t	l	Δ	Δ	(
'20x	`	´	^	˘	-	˘	˘	˘	"8x
'21x	˘	˘	˘	˘	˘	˘	˘	˘	
'22x	-	-	-	...	...	-	∩	∩	"9x
'23x	*	∩	∩	∩	∩	∩	∩	∩	
'24x	∩	∩	∩	∩	∩	∩	∩	∩	"Ax
'25x	∩	∩	∩	∩	∩	∩	∩	∩	
'26x	∩	∩	∩	∩	∩	∩	∩	∩	"Bx
'27x	∩	∩	∩	∩	∩	∩	∩	∩	
'30x	∩	∩	∩	∩	∩	∩	∩	∩	"Cx
'31x	∩	∩	∩	∩	∩	∩	∩	∩	
'32x	∩	∩	∩	∩	∩	∩	∩	∩	"Dx
'33x	∩	∩	∩	∩	∩	∩	∩	∩	
'34x	∩	∩	∩	∩	∩	∩	∩	∩	"Ex
'35x	∩	∩	∩	∩	∩	∩	∩	∩	
'36x	∩	∩	∩	∩	∩	∩	∩	∩	"Fx
'37x	∩	∩	∩	∩	∩	∩	∩	∩	
	"8	"9	"A	"B	"C	"D	"E	"F	

*"7B and "7C do not exist in STIX OpenType fonts.

stix-mathex

	'0	'1	'2	'3	'4	'5	'6	'7	
'00x	(	)	(	)	[	]	[	]	"0x
'01x	[]	[]	{	}	{	}	
'02x	<	>	<<	>>	(	)	/	\	"1x
'03x	()	()	[]	[]	
'04x	[	]	[	]	{	}	{	}	"2x
'05x	<	>	<<	>>	()	/	\	
'06x	(	)	(	)	[	]	[	]	"3x
'07x	[]	[]	{	}	{	}	
'10x	<	>	<<	>>	(	)	/	\	"4x
'11x	()	()	[]	[]	
'12x	[	]	[	]	{	}	{	}	"5x
'13x	<	>	<<	>>	()	/	\	
'14x	(	)	[	]	[	]	|	|	"6x
'15x	(	)	(	)	{	}	|	|

'16x	∪	∩	∩	∩	√	√	√	√		"7x
'17x	∩	∩								
'26x	∑	∏	∏	∑	∧	∨	∩	∪		"Bx
'27x	/	\	⊙	⊕	⊗	⊔	⊕	∏		
'30x	⊔	∧	∨	×	∑	∩	∑	∏		"Cx
'31x	∏	∑	∧	∨	∩	∪	/	\		
'32x	⊙	⊕	⊗	⊔	⊕	∏	⊔	∧		"Dx
'33x	∨	×	∑	∩	()	()		
'34x	∥	∥	∟	∟	∟	∟	∟	∟		"Ex
'35x	{	}	<	>	«	»	()		
'36x	|	∥	∥∥	∩	∥	∥∥				"Fx
'37x		√	∩							
	"8	"9	"A	"B	"C	"D	"E	"F		

stix-extra1

	'0	'1	'2	'3	'4	'5	'6	'7	
'00x	≡	≡	∞	∞	∞	∞	∞	∞	"0x
'01x	∞	∞	∞	∞	∞	∞	∞	∞	
'02x	ε	α	θ	ς	∞	∞	∞	∞	"1x
'03x	∞	∞	∞	∞	∞	∞	∞	∞	
'04x	∞	∞	∞	∞	∞	∞	∞	∞	"2x
'05x	∞	∞	∞	∞	∞	∞	∞	∞	
'06x	∇	()	(.)				∞	∞	"3x
'07x	∞	∞	∞	∞	∞	∞	∞	∞	
'10x	∞	∞	∞	∞	∞	∞	∞	∞	"4x
'11x	√2	√3	∞	∞	f	f ^T	∞	∞	
'12x	∞	∞	∞	∞	∞	∞	∞	∞	"5x
'13x	∞	∞	∞	∞	∞	∞	∞	∞	
'14x	∞	∞	∞	∞	∞	∞	∞	∞	"6x
'15x	∞	∞	∞	∞	∞	∞	∞	∞	
'16x	∞	∞	∞	∞	∞	∞	∞	∞	"7x
'17x	∞	∞	∞	∞	∞	∞	∞	∞	
'20x	∞	∞	∞	∞	∞	∞	∞	∞	"8x
'21x	CTRL	RET	ESC	CMD	TAB	SPACE	DEL	ALT	
'22x	OPTION	▪	ENTER	SHIFT	MOD1	MOD2	{	}	"9x
'23x	∞	∞	∞	∞	∞	∞	∞	∞	
'24x	∞	∞	∞	∞	∞	∞	∞	∞	"Ax
'25x	∞	∞	∞	∞	∞	∞	∞	∞	
'26x	∞	∞	∞	∞	∞	∞	∞	∞	"Bx
'27x	∞	∞	∞	∞	∞	∞	∞	∞	
'30x	√	∞	∞	∞	∞	∞	∞	A	"Cx
'31x	B	E	Z	H	I	K	M	N	
'32x	O	P	Θ	T	X	o			"Dx
'33x									
	"8	"9	"A	"B	"C	"D	"E	"F	

stix-extra2

	'0	'1	'2	'3	'4	'5	'6	'7	
'04x				∕	^	≠	-	—	"2x
'05x	-	ΣΣ	ΣΣ						
'22x				∕		∅		∕	"9x
'23x		∕		∅		Z		∕	
'24x		∅		∕		K		∕	"Ax
'25x		M		N		≠		∅	
'26x		∕		∅		Z		∕	"Bx
'27x		∕		∅		X		∕	
'30x		∅							"Cx
'31x									
'36x									"Fx
'37x				§					
	"8	"9	"A	"B	"C	"D	"E	"F	

stix-extra3

	'0	'1	'2	'3	'4	'5	'6	'7	
'00x	∕				≠				"0x
'01x	∅								
'04x									"2x
'05x					≠	≠	≠		
'06x		∕	∕						"3x
'07x									
	"8	"9	"A	"B	"C	"D	"E	"F	