The Great, Big List of LATEX Symbols

David Carlisle

Scott Pakin

Alexander Holt

February 7, 2001

List of Tables

1	\LaTeX 2 ε Escapable "Special" Char-		26	AMS Binary Operators	9
	acters	2	27	AMS Binary Relations	9
2	$\LaTeX 2_{\varepsilon}$ Commands Defined to		28	AMS Negated Binary Relations	10
	Work in Both Math and Text Mode	2	29	stmaryrd Delimiters	10
3	Non-ASCII Letters (Excluding Ac-		30	stmaryrd Arrows	10
	cented Letters)	2	31	stmaryrd Extension Characters	10
4	Greek Letters	2	32	stmaryrd Binary Operators	11
5	Punctuation Marks Not Found in OT1	3	33	stmaryrd Large Binary Operators	11
6	Predefined $\LaTeX 2_{\varepsilon}$ Text-Mode		34	stmaryrd Binary Relations	11
	Commands	3	35	stmaryrd Negated Binary Relations .	11
7	Binary Operation Symbols	3	36	wasysym Math-Mode Symbols	11
8	Relation Symbols	4	37	wasysym General Symbols	12
9	Punctuation Symbols	4	38	wasysym Electrical and Physical	
10	Arrow Symbols	4		Symbols	12
11	Miscellaneous Symbols	5	39	wasysym Polygons and Stars	12
12	Variable-sized Symbols	5	40	wasysym Musical Notes	12
13	Log-like Symbols	5	41	wasysym Circles	12
14	Delimiters	5	42	wasysym Phonetic Symbols	12
15	Large Delimiters	6	43	wasysym Astrological and Zodiacal	
16	Math-Mode Accents	6		Symbols	13
17	Some Other Constructions	6	44	wasysym APL Symbols	13
18	textcomp Symbols	6	45	wasysym APL Modifiers	13
19	AMS Delimiters	8	46	pifont Commands for Using Zapf	
20	AMS Arrows	8		Dingbats	13
21	AMS Negated Arrows	8	47	marvosym Astrological and Zodiacal	
22	AMS Greek	8		Symbols	14
23	AMS Hebrew	8	48	marvosym $Digits$	14
24	AMS Miscellaneous	8	49	marvosym Euro Signs	15
25	AMS Commands Defined to Work in		50	marvosym Miscellaneous	15
	Both Math and Text Mode	9	51	Math Alphabets	16

Table 2: LaTeX 2ε Commands Defined to Work in Both Math and Text Mode

\$	\\$		_	_	‡	\ddag	{	\{
\P	\ P	(c)	(C)	\copyright		\dots	}	\}
§	\S	_	Ϋ́	\dag	£	\pounds		

(Where two symbols are present, the left one is the "faked" symbol that LaTeX 2ε provides by default, and the right one is the "true" symbol that textcomp makes available.)

Table 3: Non-ASCII Letters (Excluding Accented Letters)

å	\aa	Ð	\DH *	Ł	\L	Ø	\0	ß	\ss
Å	\AA	ð	\dh^*	ł	\1	Ø	\0	SS	\SS
Æ	\AE	Đ	\DJ *	\mathbf{D}	\NG *	Œ	\0E	Þ	\TH *
æ	\ae	đ	\di*	η	\ng^*	œ	\oe	b	\th *

^{* =} Not available in the OT1 font encoding. Use the fontenc package to select an alternate font encoding, such as T1.

Table 4: Greek Letters

α	\alpha	θ	\theta	o	0	au	\tau
β	\beta	ϑ	\vartheta	π	\pi	v	\upsilon
γ	\gamma	ι	\iota	ϖ	\varpi	ϕ	\phi
δ	\delta	κ	\kappa	ρ	\rho	φ	\varphi
ϵ	\epsilon	λ	\lambda	ρ	\varrho	χ	\chi
ε	\varepsilon	μ	\mu	σ	\sigma	ψ	\psi
ζ	\zeta	ν	\nu	ς	\varsigma	ω	\omega
η	\eta	ξ	\xi				
Γ	\Gamma	Λ	\Lambda	\sum	\Sigma	Ψ	\Psi
Δ	\Delta	Ξ	\Xi	Υ	\Upsilon	Ω	\Omega
Θ	\Theta	П	\Pi	Φ	\Phi		<u> </u>

(The remaining Greek majuscules can be produced with ordinary Latin letters. The symbol "M", for instance, is used for both an uppercase "m" and an uppercase " μ ".)

Table 5: Punctuation Marks Not Found in OT1

- « \guillemotleft* < \guilsinglleft* , \quotedblbase* " \textquotedbl*
 » \guillemotright* > \guilsinglright* , \quotesinglbase*
 - (To get these symbols, use the fontenc package to select an alternate font encoding, such as T1.)

Table 6: Predefined LaTeX 2ε Text-Mode Commands

	^				
	^	\textasciicircum		<	\textless
	~	\textasciitilde	a	$\underline{\mathbf{a}}$	\textordfeminine
	*	\textasteriskcentered	О	Ō	\textordmasculine
	\	\textbackslash		\P	\textparagraph
		\textbar		•	\textperiodcentered
	{	\textbraceleft		i	\text questiondown
	}	\textbraceright		"	$\text{ar{t}extquotedblleft}$
	•	\textbullet		"	$\$ textquotedblright
(c)	(C)	\textcopyright		4	$\$ textquoteleft
	†	\textdagger		,	$ ag{textquoteright}$
	‡ \$	\textdaggerdbl	R	$^{ m (R)}$	ackslashtextregistered
	\$	\textdollar		§	\textsection
		\textellipsis		£	\textsterling
		\textemdash	TM	TM	$\text{ar{t}exttrademark}$
	_	\textendash		_	\textunderscore
	i	\textexclamdown		J	$\$ textvisiblespace
	>	\textgreater			

(Where two symbols are present, the left one is the "faked" symbol that \LaTeX 2 ε provides by default, and the right one is the "true" symbol that textcomp makes available.)

Table 7: Binary Operation Symbols

\pm	\pm	\cap	\cap	\Diamond	\diamond	\oplus	\oplus
\mp	\mp	\cup	\cup	Δ	\bigtriangleup	\ominus	\ominus
×	\times	\forall	\uplus	∇	\bigtriangledown	\otimes	\otimes
÷	\div		\sqcap	\triangleleft	\triangleleft	\oslash	\oslash
*	\ast	\sqcup	\sqcup	\triangleright	$\$ triangleright	\odot	\odot
*	\star	\vee	\vee	\triangleleft	$\backslash \mathtt{lhd}^*$	\bigcirc	\bigcirc
0	\circ	\wedge	\wedge	\triangleright	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	†	\dagger
•	\bullet	\	\setminus	\leq	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	‡	\ddagger
	\cdot	}	\wr	\geq	\unrhd^*	П	\aggreen
	+	_	_				

^{*} Not predefined in LATEX $2_{\mathcal{E}}$. Use one of the packages latexsym, amsfonts, amssymb, or wasysym.

Table 8: Relation Symbols

\leq	\leq	\geq	\geq	\equiv	\equiv	\models	\models
\prec	\prec	\succ	\succ	\sim	\sim	\perp	\perp
\preceq	\preceq	\succeq	\succeq	\simeq	\simeq		\mid
\ll	\11	\gg	\gg	\simeq	\asymp		\parallel
\subset	\subset	\supset	\supset	\approx	\approx	\bowtie	\bowtie
\subseteq	\subseteq	\supseteq	\supseteq	\cong	\cong	\bowtie	\Join^*
	\sqsubset*		\sqsupset*	\neq	\neq	$\overline{}$	\smile
	\sqsubseteq	\supseteq	\sqsupseteq	$\dot{=}$	\doteq	$\overline{}$	\frown
\in	\in	\ni	\ni	\propto	\propto	=	=
\vdash	\vdash	\dashv	\dashv	<	<	>	>

^{*} Not predefined in LATEX $2_{\mathcal{E}}$. Use one of the packages latexsym, amsfonts, amssymb, or wasysym.

Table 9: Punctuation Symbols

, , ; ; : \colon . \ldotp · \cdotp

Table 10: Arrow Symbols

\leftarrow	\leftarrow	\leftarrow	$\label{longleftarrow}$	\uparrow	\uparrow
\Leftarrow	\Leftarrow	\longleftarrow	\Longleftarrow	\uparrow	\Uparrow
\longrightarrow	\rightarrow	\longrightarrow	$\label{longright} \$	\downarrow	\downarrow
>	\Rightarrow	=>	\Longrightarrow	\Downarrow	\Downarrow
\longleftrightarrow	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	\longleftrightarrow	\longleftrightarrow	\uparrow	\updownarrow
\Leftrightarrow	\Leftrightarrow	$\Leftarrow>$	\Longleftrightarrow	1	\Updownarrow
\mapsto	\mapsto	\longmapsto	$\label{longmapsto}$	/	\nearrow
\leftarrow	\hookleftarrow	\hookrightarrow	\hookrightarrow	\	\searrow
_	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	\rightarrow	\rightharpoonup	/	\swarrow
$\overline{}$	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	\rightarrow	\rightharpoondown		\nwarrow
\rightleftharpoons	\rightleftharpoons	\sim	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $		

^{*} Not predefined in LATEX $2_{\mathcal{E}}$. Use one of the packages latexsym, amsfonts, amssymb, or wasysym.

Table 11: Miscellaneous Symbols

	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $		\cdots	÷	\vdots	٠٠.	\ddots
×	\aleph	1	\prime	\forall	\forall	∞	\infty
\hbar	\hbar	Ø	\emptyset	\exists	\exists		\Box*
\imath	$\$ imath	∇	\nabla	\neg	\neg	\Diamond	\Diamond^*
J	$\$ jmath		\surd	b	\flat	\triangle	\triangle
ℓ	\ell	Τ	\top	þ	\natural	*	\clubsuit
80	\wp	\perp	\bot	#	\sharp	\Diamond	\diamondsuit
\Re	\Re		\ I	\	\backslash	\Diamond	\heartsuit
3	\Im	_	\angle	$\dot{\partial}$	\partial	\spadesuit	\spadesuit
Ω	$\mbox{\mbo}^*$				1		

^{*} Not predefined in LATEX $2_{\mathcal{E}}$. Use one of the packages latexsym, amsfonts, amssymb, or wasysym.

Table 12: Variable-sized Symbols

\sum	\sum	\cap	\bigcap	\odot	\bigodot
П	\prod	U	\bigcup	\otimes	\bigotimes
П	\coprod		\bigsqcup	\oplus	\bigoplus
$\overline{\int}$	$\$ int	V	\bigvee	+	\biguplus
∮	\oint	Λ	\bigwedge		

TABLE 13: Log-like Symbols

\arccos	\cos	\csc	\exp	\ker	\label{limsup}	\min	\sinh
\arcsin	\cosh	\deg	\gcd	\lg	\ln	\Pr	\sup
\arctan	\cot	\det	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	\label{lim}	\log	\sec	an
\arg	\coth	\dim	\inf	\liminf	\max	\sin	\tanh

Table 14: Delimiters

(())	\uparrow	\uparrow	\uparrow	\Uparrow
[[]]	\downarrow	\downarrow	\Downarrow	\Downarrow
{	\{	}	\}	\uparrow	\updownarrow	1	\Updownarrow
L	\lfloor		\rfloor	Γ	\lceil	1	\rceil
<	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	\rangle	\rangle	/	/	\	\backslash
ĺ	1	İ	\ I				

TABLE 15: Large Delimiters \[\rmoustache \int \lnoustache \] \rgroup \(\lgroup \) \[\arrowvert \ \arrowvert \ \bracevert \]									\lgroup
\hat{a} \check{a}	\hat{a} \check{a}		\acute{a}	\bar{a}		à	\dot{a}		
a	Checkias	a	\grave(a)	a	(vecta)	a	as	a	\tilde(a)

Table 17: Some Other Constructions

$\frac{\widetilde{abc}}{\widetilde{abc}}$	<pre>\widetilde{abc} \overleftarrow{abc} \overline{abc}</pre>	$ \begin{array}{c} \widehat{abc} \\ \widehat{abc} \\ \underline{abc} \end{array} $	<pre>\widehat{abc} \overrightarrow{abc} \underline{abc}</pre>
\widehat{abc}	\overbrace{abc}	\underline{abc}	\underbrace{abc}
\sqrt{abc} f'	\sqrt{abc} f'	$\sqrt[n]{abc}$ $\frac{abc}{xyz}$	\sqrt[n]{abc} \frac{abc}{xyz}

Table 18: textcomp $Symbols^1$

•	\textacutedbl	{	\textlquill
	\textascendercompwordmark	00	\textmarried
,	\textasciiacute	Ω	\textmho
Ú	\textasciibreve		\textminus
~	\textasciicaron	μ	\textmu
••	\textasciidieresis	•/	\textmusicalnote
`	\textasciigrave	\mathbf{N}	\textnaira
_	\textasciimacron	9	\textnineoldstyle
*	\textasteriskcentered	N₂	\textnumero
\mathbb{B}	\textbaht	Ω	\textohm
	\textbardbl	$\frac{1}{2}$	\textonehalf
$\tilde{\bigcirc}$	\textbigcircle	1	\textoneoldstyle
ъ	\textblank	$\frac{1}{4}$	\textonequarter
*	\textborn	1	\textonesuperior
	\textbrokenbar	О	\textopenbullet

(continued on next page)

¹These symbols are also available in math mode through the use of the mathcomp package. See the mathcomp documentation for usage information.

(continued from previous page)

	•	\textbullet	a	$\underline{\mathbf{a}}$	\textordfeminine
		\textcapitalcompwordmark	О	$\bar{\Omega}$	\textordmasculine
	$^{\circ}\mathrm{C}$	\textcelsius		\P	\textparagraph
	¢	\textcent			\textperiodcentered
	¢	\textcentoldstyle		%	\textpertenthousand
		\textcircledP		%c	\textperthousand
	(P)	\textcolonmonetary		₽	\textpeso
	(D)	\textcopyleft		\P	\textpilcrow
(c)	(C)	\textcopyright		±	\textpm
	ŭ	\textcurrency		1	\textquotesingle
	†	\textdagger		ţ	\textquotestraightbase
	‡	\textdaggerdbl		tt	\textquotestraightdblbase
	=	\textdblhyphen)	\textrangle
	=	\textdblhyphenchar			\textrbrackdbl
	0	\textdegree		$ m R_c$	\textrecipe
	+	\textdied		*	\textreferencemark
	%	\textdiscount	R	$^{ m (R)}$	\textregistered
	÷	\textdiv	_	\rightarrow	\textrightarrow
	00	\textdivorced		}	\textrquill
	\$	\textdollar		§ ≘m	\textsection
	\$	$\$ textdollaroldstyle		SM	\textservicemark
	₫	\textdong		7	\textsevenoldstyle
	\downarrow	\textdownarrow		6	\textsixoldstyle
	8	$\$ texteightoldstyle		£	\textsterling
	G	\textestimated		√	\textsurd
	€	\texteuro		3	\textthreeoldstyle
	5	$ ag{textfive}$ oldstyle		$\frac{3}{4}$	$\$ textthreequarters
	f	\textflorin		_	ackslashtextthreequartersemdash
	4	$ ag{textfouroldstyle}$		8	$\$ textthreesuperior
	/	$\$ textfractionsolidus		~	\texttildelow
	**	\textgravedbl		×	\texttimes
	G	\textguarani	TM	TM	\texttrademark
	•	$ ag{textinterrobang}$		_	\texttwelveudash
	4	$\$ textinterrobangdown		2	ackslashtexttwooldstyle
	([\textlangle		2	$\$ texttwosuperior
		\textlbrackdbl		↑	\textuparrow
	Œ	\textleaf		\mathbf{W}	\textwon
	\leftarrow	\textleftarrow		¥	\textyen
	£	\textlira		0	\textzerooldstyle
	\neg	\textlnot			

(Where two symbols are present, the left one is the "faked" symbol that LaTeX 2ε provides by default, and the right one is the "true" symbol that textcomp makes available.)

Table 19: AMS Delimiters

\ulcorner \urcorner \ \llcorner \

Table 20: AMS Arrows

>	\dashrightarrow	←	\dashleftarrow	otin	\leftleftarrows	$\stackrel{\longleftarrow}{\longrightarrow}$	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
\Leftarrow	\Lleftarrow	\leftarrow	\t	\longleftrightarrow	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	$\;\; \; \; \; \; \; \; \; \; \; \; \; \; \; \; \; \; \; \;$	$\label{looparrowleft}$
\leftrightarrows	\leftrightharpoons	$ \leftarrow $	\curvearrowleft	Q	\circlearrowleft	$ \uparrow $	\Lsh
$\uparrow\uparrow$	\upuparrows	1	\upharpoonleft	1	\downharpoonleft	\multimap	\multimap
~~~	\leftrightsquigarrow	\Rightarrow	$\right right arrows$	$\stackrel{\longrightarrow}{\longleftrightarrow}$	\rightleftarrows	\Rightarrow	\rightrightarrows
\Longrightarrow	\rightleftarrows	\longrightarrow	\twoheadrightarrow	\longrightarrow	\rightarrowtail	\rightarrow	\looparrowright
\rightleftharpoons	\rightleftharpoons	\bigcirc	$\c \c \$	\bigcirc	\circlearrowright	ightharpoons	\Rsh
$\downarrow\downarrow$	\downdownarrows	1	\upharpoonright	ļ	\downharpoonright	\rightsquigarrow	\rightsquigarrow

Table 21: AMS Negated Arrows

\leftarrow	\nleftarrow	$\rightarrow \rightarrow$	\nrightarrow	\Leftarrow	\n	\Rightarrow	\nRightarrow
\leftrightarrow	\nleftrightarrow	#	\nLeftrightarrow				

Table 22: AMS Greek

 \digamma \digamma arkappa \varkappa

Table 23: AMS Hebrew

☐ \beth ☐ \daleth ☐ \gimel

Table 24: AMS Miscellaneous

\hbar	\hbar	\hbar	\hslash	Δ	\vartriangle	∇	\triangledown
	\square	\Diamond	\lozenge	\odot	\circledS	_	\angle
4	\measuredangle	∄	\nexists	Ω	\mho	Ь	\Finv
G	\Game	\Bbbk	\Bbbk	1	\backprime	Ø	\varnothing
\blacktriangle	\blacktriangle	▼	\blacktriangledown		\blacksquare	♦	\blacklozenge
*	\bigstar	\triangleleft	\sphericalangle	С	\complement	\eth	\eth
/	\diagup		\diagdown				

Table 25: AMS Commands Defined to Work in Both Math and Text Mode

 \checkmark \checkmark $ext{R}$ \circledR $ext{$\!\!\!\!/}$ \maltese

Table 26: AMS Binary Operators

$\dot{+}$	\dotplus	\	\smallsetminus	\bigcap	\Cap	\bigcup	\Cup
$\overline{\wedge}$	\barwedge	$\underline{\vee}$	\veebar	_	\doublebarwedge	\Box	\boxminus
\boxtimes	\boxtimes	•	\boxdot	\blacksquare	\boxplus	*	\divideontimes
\bowtie	\ltimes	\rtimes	\rtimes	\rightarrow	\leftthreetimes	\angle	\rightthreetimes
人	\curlywedge	Υ	\curlyvee	\bigcirc	\circleddash	*	\circledast
0	\circledcirc		\centerdot	Т	\intercal		

Table 27: AMS Binary Relations

\leq	\leqq	\leq	\leqslant	<	\eqslantless	\lesssim	\lesssim
≨	\lessapprox	\cong	\approxeq	<	\lessdot	~	\111
\leq	\lessgtr	\leq	\lesseqgtr	\leq	\lesseqqgtr	÷	\doteqdot
=	\risingdotseq	=	\fallingdotseq	\sim	\backsim	1	\backsimeq
\subseteq	\subseteqq	\subseteq	\Subset		\sqsubset	\preccurlyeq	\preccurlyeq
\Rightarrow	\curlyeqprec	\preceq	\precsim	\approx	\precapprox	\triangleleft	\vartriangleleft
\leq	\trianglelefteq	F	\vDash	III	\Vvdash	\smile	\smallsmile
$\overline{}$	\smallfrown	<u>~</u>	\bumpeq	\Rightarrow	\Bumpeq	\geq	\geqq
\geqslant	\geqslant	\geqslant	\eqslantgtr	\gtrsim	\gtrsim	\gtrapprox	\gtrapprox
>	\gtrdot	>>>	\ggg	\geq	\gtrless	\ \&\ \\	\gtreqless
\geq	\gtreqqless		\eqcirc	<u>•</u>	\circeq	\triangleq	\triangleq
~	\thicksim	\approx	\thickapprox	\supseteq	\supseteqq	∋	\Supset
	\sqsupset	\succcurlyeq	\succcurlyeq	\succ	\curlyeqsucc	\searrow	\succsim
≪	\succapprox	\triangleright	\vartriangleright	\trianglerighteq	\trianglerighteq	\vdash	\Vdash
1	\shortmid	П	\shortparallel	Ŏ	\between	ф	\pitchfork
\propto	\varpropto	◀	$\blue{blacktriangleleft}$	∴.	\therefore	Э	\backepsilon
•	\blacktriangleright	• • •	\because				

Table 28:	AMS	Negated	Binary	Relations

*	\nless	≰	\nleq	≰	\nleqslant	≰	\nleqq
\leq	\lneq	≨	\lneqq	\leq	$lem:lemma_lemma$	≈	\label{lnsim}
≨	\lnapprox	\star	\nprec	$\not \preceq$	\npreceq	$\stackrel{\cdot}{\not\sim}$	\precnsim
V#Y#	\precnapprox	\sim	\nsim	ł	\nshortmid	ł	\nmid
¥	\nvdash	¥	\nvDash	$\not \square$	\ntriangleleft	⊉	\n
⊈	\nsubseteq	\subsetneq	\subsetneq	\subsetneq	\varsubsetneq	\subseteq	\subsetneqq
\neq	\varsubsetneqq	\nearrow	\ngtr	$\not\geq$	\ngeq	$\not\geq$	\ngeqslant
≱	\ngeqq	\geq	\gneq	\geq	\gneqq	\geq	\gvertneqq
\gtrsim	\gnsim	⋧	\gnapprox	\neq	\nsucc	$\not\succeq$	\nsucceq
$\not\succeq$	\nsucceq	.∠~	\succnsim	,	\succnapprox	\ncong	\ncong
Ħ	\nshortparallel	#	\nparallel	×	\nvDash	$\not\Vdash$	\nVDash
$\not\!$	\ntriangleright	≱	\n	⊉	\nsupseteq	$ \not\equiv$	\nsupseteqq
\supseteq	\supsetneq	\supseteq	\varsupsetneq	\supseteq	\supsetneqq	$\not\equiv$	\varsupsetneqq

Table 29: stmaryrd Delimiters

2	\Lbag	S	\Rbag	2	\lbag	S	\rbag
	\llceil	\prod	\rrceil		\llfloor		\rrfloor
	\llbracket		\rrbracket				

Table 30: stmaryrd Arrows

\iff	\Longmapsfrom	⊨>	\Longmapsto	\Leftrightarrow	\Mapsfrom	1>	\Mapsto
1	\nnearrow	1	\nnwarrow	7	\ssearrow	1	\sswarrow
\downarrow	\shortdownarrow	\uparrow	\shortuparrow	\leftarrow	\shortleftarrow	\rightarrow	\shortrightarrow
\leftarrow	$\label{longmapsfrom} \$	\leftarrow	$\mbox{mapsfrom}$	<	\leftarrowtriangle	\rightarrow	\rightarrowtriangle
4	\lightning)	\rrparenthesis	\Leftrightarrow	\leftrightarroweq	4-4	\leftrightarrowtriangle

Note that wasysym also defines a \lightning symbol. The difference—other than "4" vs. " $\fill 4$ "—is that the stmaryrd version (above) is limited to math mode.

```
Table 31: stmaryrd Extension Characters
```

```
/ \Arrownot | \Mapsfromchar | \Mapstochar / \arrownot | \mapsfromchar
```

Table 32 :	stmaryrd	Binary	Operators
--------------	----------	--------	-----------

			111BBE 92. 30	illaryra 1	onary operators					
Υ	\Ydown	\prec	\Yleft	>-	\Yright	ر	\Yup			
Φ	\baro	\\	\bbslash	&	\binampersand	×	⊗ \bindnasrepma			
*	\boxast	<u>"</u>	\boxbar		\boxbox	[□ \boxbslash			
0	\boxcircle		\boxdot		\boxempty					
¥	\curlyveedownarrow	Y	\curlyveeuparro	√ wc	\curlywedgedowna	rrow	\curlywedgeuparrow			
Ĭ.	\fatbslash	9	\fatsemi		\fatslash		\interleave			
\Diamond	\leftslice	Μ	\merge	<i>□</i>	\minuso		± \moo			
\oplus	\nplus	Φ	\obar		\oblong		○ \obslash			
\Diamond	\ogreaterthan	0	\olessthan	\bigcirc	\ovee					
\Diamond	\rightslice	//	\sslash	Ĩ	\talloblong		\varbigcirc			
Υ	\varcurlyvee	<u>//</u>	\varcurlywedge	*	\varoast		① \varobar			
0	\varobslash	0	\varocircle	0	\varodot		> \varogreaterthan			
0	\varolessthan	Θ	\varominus	Φ	\varoplus		⊘ \varoslash			
8	\varotimes	Ø	\varovee	\Diamond	\varowedge		<pre> \vartimes </pre>			
0	(Var o o rmob	•	(1010100	O	(1010100000	,	(Var ormor			
			Table 33: stmar	yrd Larg	ge Binary Operators					
	\sqcap \bigsqcap \bigvee \bigtriangledown $igtriangle$ \bigtriangleup									
			Table 34: st	maryrd I	Binary Relations					
	c \:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:\:	· \		-		√ \	1			
			iplus ∉	\subse	•		bsetpluseq			
	→ \supsetplus	_ \s	upsetpluseq $\mathrel{\leqslant}$	\trian	glelefteqslant	> \tr:	ianglerighteqslant			
			TABLE 35: stmary	rd Nega	ted Binary Relations	3				
		, .	_	_	-					
	*	∜ \n	${ t trianglelefteqsl}$	ant ≱	\ntriangleright	teqslan	t			
			TABLE 36: was	vsvm Ma	ath-Mode Symbols					
				-	-					
		\Box	≲ \apprl		_	\unlhd				
		\Diam	333			\unrhd				
	\bowtie	\Join	33	∯	J.	\varint				
	◀	\LHD	⊢ \invne	-	J	\varoin				
		\RHD			_	\wasypr	opto			
	≳	\appr	ge ⊲ \lhd		\sqsupset					

		Τ	ABLE 37: wasy	sym G	eneral Symbols		
\ \ \ \ \ \ \ \ \	\Bowtie \DOWNarrow \LEFTarrow \RIGHTarrow \UParrow \agem0 \ataribox \bell	; \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	blacksmiley brokenvert cent checked clock currency diameter female	⊗★√√∞♦	\frownie \invdiameter \kreuz \lightning \male \permil \phone \pointer	Q ⊕ ☆ ¤ ∴	<pre>\recorder \smiley \sun \varangle \wasylozenge \wasytherefore</pre>
							—other than "∮" vs. aly in text mode.
	TA	ABLE 38	3: wasysym Ele	ctrica	and Physical Sy	mbo	ls
	\sim \AC	≈ \V	HF ~~~ '	photo	on \approx \HF \sim		\gluon
		Та	BLE 39: wasysy	m Po	lygons and Stars		
	☑ \CheckedBo		\davidssta	_	_	*	\varhexstar
	□ \Square □ \XBox	○ *	\hexagon \hexstar	0	\pentagon \varhexagon		
		,	Γ ABLE 40 : was	vsvm	Musical Notes		
١ ١	eighthnote J				tes . \full	note] \quarternote
							•
			Table 41:	WOEVE	um Cirolos		
	\CIRCLE	•	\LEFTcircle	-		e ¢) \rightturn
	\Circle		\Leftcircle	D	\Rightcircle		/ (IIghttulii
	\LEFTCIRCL	E)	\RIGHTCIRCL	E Ć	\leftturn		
		T_{A}	ABLE 42: wasys	ym Pl	nonetic Symbols		
		Ð Þ	\DH ð	\dh	o \openo		
		Ъ	\Thorn ə	\inv	re b \thorn		

Table 43: wasysym Astrological and Zodiacal Symbols

Ω	\ascnode	4	\jupiter		\newmoon	9	\venus
\odot	\astrosun	\mathbb{Q}	\leftmoon	Р	\pluto	Υ	\vernal
S	\descnode	ď	\mars	\mathbb{D}	\rightmoon		
đ	\earth	ά	\mercury	ħ	\saturn		
\circ	\fullmoon	8	\neptune	ð	\uranus		

Table 44: wasysym APL Symbols

	\APLbox	$ \exists $	\APLinv	*	\APLstar
Α	\APLcomment	\leftarrow	\APLleftarrowbox	Δ	\APLup
∇	\APLdown	\otimes	\APLlog	\uparrow	\APLuparrowbox
	\APLdownarrowbox	_	\APLminus	+	\notbackslash
	\APLinput	\rightarrow	\APLrightarrowbox	+	\n

Table 45: wasysym APL Modifiers

 $\circ \APLcirc{} \sim \APLnot{} \ | \ APLvert{}$

Table 46: pifont Commands for Using Zapf Dingbats

```
\displaystyle \{33\}
                                                   \displaystyle \begin{cases} 71 \end{cases}
                                                                                             \displaystyle \begin{cases} 109 \end{cases}
                                                                                                                                         \ding{181}
                                                                                                                                                                                   \ding{219}
~
                                                                                             \ding{110}
                                                                                                                             0
                                                                                                                                                                        →
≫<
          \displaystyle \begin{cases} 34 \end{cases}
                                        \star
                                                   \displaystyle \begin{cases} 12 \end{cases}
                                                                                   \displaystyle \begin{cases} 182 \end{cases}
                                                                                                                                                                                   \ding{220}
                                                                                                                                        \displaystyle \begin{cases} 183 \end{cases}
                                                                                                                                                                                   \ding{221}
          \displaystyle \begin{cases} 35 \end{cases}
                                        ₩
                                                   \displaystyle \begin{cases} 73 \end{cases}
                                                                                             \ding{111}
                                                                                                                             2
                                                                                  ×
          \displaystyle \{36\}
                                        0
                                                   \displaystyle \begin{cases} 74 \end{cases}
                                                                                  \displaystyle \begin{cases} 112 \end{cases}
                                                                                                                                        \displaystyle \begin{cases} 184 \end{cases}
                                                                                                                                                                                   \ding{222}
Ø
           \displaystyle \{37\}
                                        \star
                                                   \displaystyle \begin{cases} 75 \end{cases}
                                                                                   \displaystyle \{113\}
                                                                                                                             4
                                                                                                                                        \ding{185}
                                                                                                                                                                                   \ding{223}
()
           \displaystyle \{38\}
                                                   \displaystyle \begin{cases} 76 \end{cases}
                                                                                             \displaystyle \prod \{114\}
                                                                                                                                        \ding{186}
                                                                                                                                                                                   \ding{224}
                                                                                   6
(4)
           \displaystyle \{39\}
                                        \star
                                                   \displaystyle \begin{cases} 77 \end{cases}
                                                                                             \displaystyle \prod \{115\}
                                                                                                                             0
                                                                                                                                        \ding{187}
                                                                                                                                                                                   \ding{225}
           \displaystyle \{40\}
+
                                         兪
                                                   \displaystyle \begin{cases} 18 \end{cases}
                                                                                             \ding{116}
                                                                                                                                        \ding{188}
                                                                                                                                                                        \triangleright
                                                                                                                                                                                   \ding{226}
\bowtie
           \displaystyle \begin{cases} 41 \end{cases}
                                        \star
                                                   \displaystyle \begin{cases} 79 \end{cases}
                                                                                             \displaystyle \begin{cases} 117 \end{cases}
                                                                                                                             8
                                                                                                                                        \ding{189}
                                                                                                                                                                        \succ
                                                                                                                                                                                   \ding{227}
           \displaystyle \begin{cases} 42 \end{cases}
                                        忿
                                                   \displaystyle \begin{cases} ding\{80\} \end{cases}
                                                                                   *
                                                                                             \displaystyle \prod \{118\}
                                                                                                                             ❷
                                                                                                                                        \ding{190}
                                                                                                                                                                        >
                                                                                                                                                                                   \ding{228}
B
           \displaystyle \{43\}
                                        *
                                                   \displaystyle \begin{array}{l} \ \ \ \ \ \ \ \end{array}
                                                                                             \displaystyle \begin{cases} 119 \end{cases}
                                                                                                                             1
                                                                                                                                                                                   \ding{229}
                                                                                                                                        \ding{191}
B
           \displaystyle \begin{cases} 44 \end{cases}
                                                   \displaystyle \begin{cases} ding\{82\} \end{cases}
                                                                                             \ding{120}
                                                                                                                                         \ding{192}
                                                                                                                                                                                   \ding{230}
           \displaystyle \{45\}
                                                                                             \ding{121}
                                                                                                                                        \ding{193}
                                                                                                                                                                                   \ding{231}
                                                   \displaystyle \begin{cases} 3 \end{cases}
                                                                                  ı
                                                                                                                             2
Æ
           \displaystyle \begin{cases} 46 \end{cases}
                                                   \displaystyle \begin{cases} 44 \end{cases}
                                                                                             \displaystyle \begin{cases} 122 \end{cases}
                                                                                                                             3
                                                                                                                                        \displaystyle \begin{cases} 194 \end{cases}
                                                                                                                                                                                   \displaystyle \begin{cases} 232 \end{cases}
=
           \displaystyle \begin{cases} 47 \end{cases}
                                                   \displaystyle \begin{cases} ding\{85\} \end{cases}
                                                                                             \ding{123}
                                                                                                                             4
                                                                                                                                        \displaystyle \begin{cases} 195 \end{cases}
                                                                                                                                                                        <>
                                                                                                                                                                                   \displaystyle \begin{cases} 233 \end{cases}
7
           \displaystyle \{48\}
                                                   \displaystyle \begin{cases} ding\{86\} \end{cases}
                                                                                             \ding{124}
                                                                                                                             (5)
                                                                                                                                        \ding{196}
                                                                                                                                                                        口〉
                                                                                                                                                                                   \ding{234}
           \displaystyle \{49\}
                                                   \displaystyle \begin{cases} 87 \end{cases}
                                                                                             \ding{125}
                                                                                                                             6
                                                                                                                                                                        \Rightarrow
                                                                                                                                                                                   \ding{235}
CĐ
                                                                                                                                        \ding{197}
           \displaystyle \{50\}
                                                   \displaystyle \begin{cases} ding\{88\} \end{cases}
                                                                                             \ding{126}
                                                                                                                                        \ding{198}
                                                                                                                                                                                   \ding{236}
```

(continued on next page)

(continued from previous page)

```
\ding{89}
         \displaystyle \begin{cases} ding\{51\} \end{cases}
                                                                                   \ding{161}
                                                                                                                          \ding{199}
                                                                                                                                                                 \ding{237}
         \displaystyle \begin{cases} 52 \end{cases}
                                             \displaystyle \begin{cases} \\ \\ \\ \end{cases}
                                                                                    \displaystyle \begin{cases} 162 \end{cases}
                                                                                                                9
                                                                                                                          \ding{200}
                                                                                                                                                                 \ding{238}
                                                                                                                                                       \Rightarrow
X
         \displaystyle \{53\}
                                   *
                                             \displaystyle \begin{cases} 01 \end{cases}
                                                                                   \displaystyle \begin{cases} 163 \end{cases}
                                                                                                                10
                                                                                                                          \ding{201}
                                                                                                                                                       \Rightarrow
                                                                                                                                                                 \ding{239}
         \displaystyle \{54\}
                                             \ding{92}
                                                                                   \displaystyle \begin{cases} 164 \end{cases}
                                                                                                                 0
                                                                                                                          \ding{202}
                                                                                                                                                                 \ding{241}
×
                                   *
                                                                                                                                                       \Rightarrow
                                                                                                                                                       \Box
X
         \displaystyle \begin{cases} ding\{55\} \end{cases}
                                   *
                                             \ding{165}
                                                                                                                0
                                                                                                                           \ding{203}
                                                                                                                                                                 \ding{242}
X
         \displaystyle \begin{cases} ding\{56\} \end{cases}
                                                                                   \ding{166}
                                                                                                                                                                 \ding{243}
                                   *
                                             \displaystyle \begin{cases} 4 \\ \end{cases}
                                                                                                                0
                                                                                                                           \displaystyle \begin{cases} 204 \end{cases}
#
         \displaystyle \{57\}
                                   Ċ
                                             \displaystyle \begin{cases} 05 \end{cases}
                                                                          æ
                                                                                   \ding{167}
                                                                                                                4
                                                                                                                           \ding{205}
                                                                                                                                                       *
                                                                                                                                                                 \ding{244}
                                                                                   \ding{168}
         \displaystyle \begin{cases} ding\{58\} \end{cases}
                                             \displaystyle \begin{cases} ding\{96\} \end{cases}
                                                                                                                           \ding{206}
                                                                                                                                                                 \displaystyle \begin{cases} 245 \end{cases}
                                                                                                                                                                 \ding{246}
+
         \displaystyle \{59\}
                                             \displaystyle \begin{cases} 97 \end{cases}
                                                                                   \displaystyle \begin{cases} 169 \end{cases}
                                                                                                                0
                                                                                                                           \ding{207}
                                    ۰
         \displaystyle \{60\}
                                   0
                                             \displaystyle \begin{cases} \\ \\ \\ \end{cases}
                                                                                   \ding{170}
                                                                                                                Ø
                                                                                                                          \ding{208}
                                                                                                                                                       *
                                                                                                                                                                 \displaystyle \begin{cases} 247 \end{cases}
         \displaystyle \begin{cases} 61 \end{cases}
                                             \ding{99}
                                                                                   \langle ding\{171\}
                                                                                                                          \ding{209}
†
                                   *
                                                                                                                8
                                                                                                                                                                 \displaystyle \begin{cases} 248 \end{cases}
                                                                                                                                                       \rightarrow
Ŷ
         \displaystyle \begin{cases} 62 \end{cases}
                                             \ding{100}
                                                                                   \displaystyle \begin{cases} 172 \end{cases}
                                                                                                                0
                                                                                                                          \ding{210}
                                                                                                                                                                 \ding{249}
t
         \displaystyle \begin{cases} 63 \end{cases}
                                             \ding{101}
                                                                          2
                                                                                   \displaystyle \begin{cases} 173 \end{cases}
                                                                                                                          \ding{211}
                                                                                                                                                       ->
                                                                                                                                                                 \ding{250}
                                   *
                                                                                                                0
\mathbb{H}
         \displaystyle \begin{cases} 64 \end{cases}
                                   *
                                             \ding{102}
                                                                          3
                                                                                   \ding{174}
                                                                                                                \rightarrow
                                                                                                                          \ding{212}
                                                                                                                                                       +
                                                                                                                                                                 \ding{251}
$
         \displaystyle \begin{cases} 65 \end{cases}
                                   *
                                             \ding{103}
                                                                                   \displaystyle \begin{cases} 175 \end{cases}
                                                                                                                                                                 \ding{252}
                                                                          4
                                                                                                                          \displaystyle \begin{cases} 213 \end{cases}
                                                                                                                                                       >→
+
         \displaystyle \begin{cases} ding\{66\} \end{cases}
                                             \ding{104}
                                                                                    \ding{176}
                                                                                                                          \ding{214}
                                                                                                                                                                 \ding{253}
                                   *
                                                                          (5)
                                                                                                                                                       >
•‡•
         \displaystyle \begin{cases} 67 \end{cases}
                                             \ding{105}
                                                                                   \ding{177}
                                                                                                                                                                 \ding{254}
                                   *
                                                                          6
                                                                                                                          \ding{215}
*
         \displaystyle \begin{cases} 68 \end{cases}
                                   *
                                             \ding{106}
                                                                          7
                                                                                   \displaystyle \begin{cases} 178 \end{cases}
                                                                                                                `
                                                                                                                          \displaystyle \begin{cases} 216 \end{cases}
4
                                                                                   \displaystyle \{179\}
         \displaystyle \begin{cases} 69 \end{cases}
                                             \ding{107}
                                                                          8
                                                                                                                          \ding{217}
                                             \ding{108}
                                                                                                                           \ding{218}
         \displaystyle \begin{cases} 70 \end{cases}
                                                                                   \ding{180}
```

Table 47: marvosym Astrological and Zodiacal Symbols

O'	\Jupiter \Mars \Mercury	Ψ	\Moon \Neptune \Pluto	ち ⊙ 8	\Saturn \Sun \Uranus	ę	\Venus
ጥ ୪ በ	\Aries \Taurus \Gemini	Ŋ	\Cancer \Leo \Virgo	M,	\Libra \Scorpio \Sagittarius	*	\Capricorn \Aquarius

Note that \Aries...\Pisces can also be specified with \Zodiac{1}...\Zodiac{12}.

Table 48: marvosym Digits

0	\MVZero	2	\MVTwo	4	\MVFour	6	\MVSix	8	\MVEight
1	\MVOne	3	\MVThree	5	\MVFive	7	\MVSeven	9	\MVNine

Table 49: marvosym Euro Signs

\in \EUR \in \EURcr \in \EURhv \in \EURtm

Table 50: marvosym Miscellaneous

Ť	\Ankh	% -	\Cutright	Ç	\Lefttorque	2	\Righttorque
*	\Bat	FAX	\FAX	\bowtie	\Letter	0	\Smiley
	\Beam	FAX	\fax	ź	\Lightning	*	\Snowflake
Å	\Bearing	$\overline{\mathcal{A}}$	\Faxmachine	$\overline{\downarrow}\overline{\downarrow}\overline{\downarrow}$	\Lineload		\Squaredot
ð\$	\Bicycle	Εt	\FHB0logo	<u>Å</u>	\Loosebearing		\Squarepipe
†	\Celtcross	68	\FHB0L0G0	L	\Lsteel	(\$TOP)	\Stopsign
C€	\CEsign	٨	\Fixedbearing	1	\Manfront	8	\Telefon
abla	\Checkedbox	_	\Flatsteel	į	\Manside	Т	\Tsteel
©	\Circles	\odot	\Football		\Mobilefone	I	\TTsteel
0	\Circpipe	Ţ	\Force	Α	\MVA	→	\Vectorarrow
Θ	\Clocklogo	8	\Frowny	@	\MVAt	→	\Vectorarrowhigh
₩	\Coffeecup	\bigcirc	\Heart	р	\MVp	0	\Womanface
\triangleq	\Corresponds	~	\Industry	Q	\Pickup	ŧ	\Womanfront
†	\Cross	i	\Info	嚎	\Pointinghand	ļ	\Womanside
X	\Crossedbox	Ð	\Kross		\Rectpipe	L	\Writinghand
>-%	\Cutleft		\Kutline	\rightarrow	\Rightarrow	3	\Yingyang
	\Cutline	>%	\Leftscissors	*	\Rightscissors		

Table 51: Math Alphabets

		Required package
ABCdef123	\mathrm{ABCdef123}	none
ABC def 123	\mathit{ABCdef123}	none
ABCdef123	\mathnormal{ABCdef123}	none
\mathcal{ABC}	\mathcal{ABC}	none
ABC	\mathscr{ABC}	mathrsfs
\mathcal{ABC}	\mathcal{ABC}	euscript with option: mathcal
or	\mathscr{ABC}	euscript with option: mather
ABCdef123	\mathpzc{ABCdef123}	none; manually defined*
\mathbb{ABC}	\mathbb{ABC}	amsfonts ${ m or}$ amssymb
ABCdef123	\mathbb{ABCdef123}	bbold
$\mathbb{A}\mathbb{B}\mathbb{C}\mathrm{def}\mathbb{1}\mathbb{2}$	\mathbbm{ABCdef12}	bbm
ABCdef12	\mathbbmss{ABCdef12}	bbm
ABCdeff 12	\mathbbmtt{ABCdef12}	bbm
$\mathbb{A}\mathbb{B}\mathbb{C}\mathbb{1}$	\mathds{ABC1}	dsfont
A\IBC1	\mathds{ABC1}	dsfont with option: sans
ABCdef123	\mathfrak{ABCdef123}	eufrak
ABCdef123	\textfrak{ABCdef123}	yfonts
UBC8ef123	\textswab{ABCdef123}	yfonts

^{*} Put "\DeclareMathAlphabet{\mathpzc}{0T1}{pzc}{m}{it}" in your document's preamble to make \mathpzc typeset its argument in Zapf Chancery.

\mathbf{Index}

If you're having trouble locating a symbol, try looking under "T" for "\text...". Many text-mode commands begin with that prefix.

Symbols	\APLdown 13	\Bat 15	\bot 5
\# 2	\APLdownarrowbox 13	\Bbbk 8	\Bowtie 12
\\$ 2	\APLinput 13	bbm 16	\bowtie 4
\% 2	\APLinv 13	bbold 16	\Box 5, 11
\& 2	\APLleftarrowbox 13	\bbslash 11	\boxast 11
(5	\APLlog 13	\Beam 15	\boxbar 11
) 5	\APLminus 13	\Bearing 15	\boxbox 11
+ 3	\APLnot 13	\because 9	\boxbslash 11
, 4	\APLrightarrowbox . 13	\bell 12	\boxcircle 11
3	\APLstar	\beta 2	\boxdot 9, 11
5	\APLup 13	\beth 8	\boxempty 11
/ 5	\APLuparrowbox 13	\between 9	\boxminus 9
: 4	\APLvert 13	\Bicycle 15	\boxplus 9
:	\apprge 11	\bigbox 11	\boxslash 11
< 4	\apprige 11	\bigcap 5	\boxtimes 9
[5	\approx 4	\bigcirc 3	\bracevert 6
1 5	\approxeq 9	\bigcup 5	\breve 6
\ 2	\Aquarius 14	\bigcurlyvee 11	\brokenvert 12
\ 2	\arccos 5	\bigcurlywedge 11	\bullet 3
\mathbf{A}	\arcsin	\biginterleave 11	\Bumpeq9
\AA 2	\arctan 5	\bignplus 11	\bumpeq9
\aa 2	\arg5	\bigodot 5	(bumpeq
\AC	\Aries	\bigoplus 5	\mathbf{C}
accents 6	\Arrownot 10	\bigotimes5	\Cancer 14
\acute 6	\arrownot 10	\bigparallel 11	\Cap 9
\AE 2	arrows 4, 8, 10	\bigsqcap 11	\cap 3
\ae 2	negated 8	\bigsqcup 5	\Capricorn 14
\agem0 12	\Arrowvert 6	\bigstar 8	\cdot 3
\aleph 5	\arrowvert 6	\bigtriangledown . 3, 11	\cdotp 4
\alpha 2	ASCII 2	\bigtriangleup 3, 11	\cdots 5
alphabets	\ascnode 13	\biguplus 5	\Celtcross 15
Greek 2, 8	\ast 3	\bigvee 5	\cent 12
Hebrew 8	astrological symbols 13, 14	\bigwedge 5	\centerdot 9
math 16	\astrosum 13	\binampersand 11	\CEsign 15
\amalg 3	\asymp 4	binary operators 3, 9, 11	\check 6
AMS 8–10	\ataribox 12	large 11	\checked 12
amsfonts $\dots 3-5, 16$		binary relations 9, 11	\CheckedBox 12
amssymb $\dots 3-5, 16$	В	negated 10, 11	\Checkedbox 15
\angle 5, 8	\backepsilon 9	\bindnasrepma 11	\checkmark 9
\Ankh 15	\backprime 8	\blacklozenge 8	\chi 2
APL	\backsim 9	\blacksmiley 12	\circ 3
modifiers 13	\backsimeq 9	\blacksquare 8	\circeq 9
symbols 13	\backslash 5	\blacktriangle 8	\CIRCLE 12
\APLbox 13	\bar6	\blacktriangledown 8	\Circle 12
\APLcirc 13	\baro 11	\blacktriangleleft 9	$\circlearrowleft \dots 8$
\APLcomment 13	\barwedge 9	\blacktriangleright . 9	\circlearrowright 8
		-	-

\circledast 9	\dashv 4	\eqcirc 9	\geqq9
\circledast 9	\davidsstar 12	\eqslantgtr 9	\geqslant 9
\circleddish 9	\ddag 2	\eqslantless 9	\gg 4
\circledR 9	\ddagger 3	\equiv 4	\ggg 9
\circledS 8	\ddot 6	escapable characters 2	\gimel 8
\Circles 15	\ddots5	\eta 2	\gluon 12
circles	\deg 5	\eth 8	\gnapprox 10
\Circpipe 15	degrees see \textdegree	eufrak 16	\gneq 10
\clock 12	delimiters 5, 8, 10	\EUR 15	
\Clocklogo 15	large 6	\EURcr 15	\gneqq 10 \gnsim 10
\clubsuit 5	\Delta 2	\EURhv	
\Coffeecup 15	\delta 2	Euro signs 15	\grave 6 Greek 2, 8
\colon 4	\descnode 13	\EURtm	
\complement 8	\det 5	euscript 16	\gtrapprox 9
complex numbers see	\DH	\exists 5	\gtrdot 9
alphabets, math	\dh 12	\exp 5	\gtreqless 9
\cong 4	\diagdown 8	extensions 10	\gtreqqless 9
\coprod	\diagup 8	CATCHSIONS	\gtrless 9
\copyright 2	\diameter 12	\mathbf{F}	\gtrsim 9
\Corresponds 15	\Diamond 5, 11	\fallingdotseq 9	\gvertneqq $\dots \dots 10$
\cos 5	\diamond 3, 11	\fatbslash 11	
\cosh	\diamondsuit 5	\fatsemi	Н
\cot 5	\digamma8	\fatslash 11	\halfnote 12
\coth 5	digits	\FAX 15	\hat 6
\Cross 15	\dim5	\fax	\hbar 5, 8
\Crossedbox 15	\ding 13, 14	\Faxmachine 15	\Heart 15
\csc 5	dingbats 13	\female 12	\heartsuit 5
\Cup 9	\div3	\FHB0L0G0 15	Hebrew 8
\cup 3	\divideontimes 9	\FHB0logo 15	\hexagon 12
\curlyeqprec 9	\dot 6	\Finv 8	\hexstar 12
\curlyeqpiec 9	\doteq 4	\Fixedbearing 15	\HF 12
\curlyvee 9	\doteq 9	\flat 5	\hom 5
\curlyvee	\dotplus9	\Flatsteel 15	$\hookleftarrow \dots 4$
\curlyveeuparrow 11	\dots 2	fontenc	\hookrightarrow 4
\curlywedge 9	\doublebarwedge 9	\Football 15	\hslash 8
\curlywedgedownarrow 11	\DOWNarrow 12	\forall 5	
\curlywedgeuparrow . 11	\Downarrow 4, 5	\Force	I
\currency 12	\downarrow 4, 5	\frown 4	\iiint 11
\curvearrowleft 8	\downdownarrows 8	\frownie 12	\iint 11
\curvearrowright 8	\downdownarrows 8	\Frowny 15	\Im 5
\Cutleft 15	-	\fullmoon 13	imaginary numbers see
\Cutline	\downharpoonright 8 dsfont 16	\fullnote 12	alphabets, math
\Cutright 15	dsiont	\Tutiliote 12	\imath 5
(Cuttight 15	${f E}$	${f G}$	\in 4
D	\earth 13	\Game 8	\Industry 15
\dag 2	\eighthnote 12	\Gamma 2	\inf 5
\dagger 3	electrical symbols 12	\gamma 2	\Info
\daleth 8	\ell5	\gcd 5	\infty 5
\dashleftarrow 8	\emptyset 5	\Gemini 14	\inplus 11
\dashrightarrow 8	\epsilon 2	\geq 4	\int 5
/dasmitaneariom o	(epsilon 2	1864 4	\THC

integers see alphabets,	\leftrightarrow 4	\log 5	\mathpzc 16
math	\leftrightarroweq 10	log-like 5	\mathrm 16
\intercal 9	\leftrightarrows 8	\logof11	mathrsfs 16
\interleave 11	\leftrightarrowtriangle	\Longleftarrow 4	\mathscr 16
\invdiameter 12	10	\longleftarrow 4	\max 5
\inve 12	\leftrightharpoons 8	\Longleftrightarrow . 4	\measuredangle 8
\inve	\leftrightsquigarrow 8	\longleftrightarrow . 4	\Mercury 14
\iota 2	\Leftscissors 15		
\10ta	\leftslice 11	\Longmapsfrom 10 \longmapsfrom 10	\mercury 13
J	\leftslice 11 \leftthreetimes 9	9 .	\merge 11
		\Longmapsto 10	\mho 5, 8
\jmath 5 \Join 4, 11	\Lefttorque 15	\longmapsto 4	\mid 4
,	\leftturn 12	\Longrightarrow 4	\min 5
\Jupiter 14	\Leo 14	\longrightarrow 4	\minuso 11
\jupiter 13	\leq 4	\looparrowleft 8	miscellaneous symbols 5,
1/2	\leqq 9	\looparrowright 8	8, 13, 15
K	\leqslant 9	\Loosebearing 15	\Mobilefone 15
\kappa 2	\lessapprox 9	\lozenge 8	\models 4
\ker 5	\lessdot 9	\lrcorner 8	\moo 11
\kreuz 12	\lesseqgtr 9	\Lsh 8	\Moon 14
\Kross 15	\lesseqqgtr 9	\Lsteel 15	\mp 3
\Kutline 15	$\lceil 1 \rceil$	\ltimes 9	\mu 2
_	\lesssim 9	\lvertneqq $\dots 10$	\multimap 8
L	\Letter 15		musical notes 12
\L 2	letters see alphabets	${f M}$	\MVA 15
\1 2	non-ASCII 2	\male 12	\MVAt 15
\Lambda 2	\lfloor 5	\maltese 9	\MVEight 14
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	\lg 5	$\Manfront \dots 15$	\MVFive $\dots 14$
\langle $\dots \dots 5$	\lgroup 6	$\Manside \dots 15$	\MVFour 14
large delimiters 6	\LHD 11	\Mapsfrom 10	\MVNine 14
$\mathbb{E}_{T_EX} 2_{\varepsilon} \dots 2-5, 7$	\lambda lhd $\dots \dots 3, 11$	\mapsfrom 10	\MVOne 14
latexsym $\dots 3-5$	\Libra 14	\Mapsfromchar 10	\MVp 15
\Lbag 10	\Lightning 15	$\mbox{mapsfromchar}$ 10	\MVSeven 14
\lbag 10	\lightning 10, 12	\Mapsto 10	\MVSix 14
$\$ lceil 5	\lim 5	\mapsto 4	\MVThree 14
\ldotp 4	\liminf 5	\Mapstochar 10	\MVTwo 14
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	$\label{limsup} \ \dots \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	\Mars 14	\MVZero 14
$\label{leadsto} \ \ldots \ 4, 11$	\Lineload 15	\mars 13	
\LEFTarrow 12	\11 4	marvosym $\dots 14, 15$	${f N}$
$\Leftarrow \dots 4$	\llbracket 10	\mathbb 16	\n
$\label{leftarrow} \ \ldots \ \ 4$	\llceil 10	\mathbbm 16	\natural 5
\leftarrowtail 8	\llcorner 8	\mathbbmss 16	natural numbers see
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	\Lleftarrow 8	\mathbbmtt 16	alphabets, math
\LEFTCIRCLE 12	\llfloor 10	mathcal $\dots \dots 16$	\ncong 10
\LEFTcircle 12	\111 9	\mathcal 16	\nearrow 4
\Leftcircle 12	\lmoustache 6	mathcomp 6	\neg 5
\leftharpoondown 4	\ln 5	mathcr 16	\Neptune 14
\leftharpoonup 4	\lapprox 10	\mathds 16	\neptune 13
\leftleftarrows 8	\lneq 10	\mathfrak 16	\neq 4
\leftmoon 13	\lneqq 10	\mathit 16	\newmoon 13
\Leftrightarrow \dots 4	\n lnsim 10	\mathnormal 16	\nexists 8

\ngeq 10	o 2	\pm 3	\RIGHTCIRCLE 12
\ngeq 10	\obar 11	\pointer 12	\RIGHTcircle 12
\ngeqslant 10	\oblong	\Pointinghand 15	\Rightcircle 12
\ngtr 10	\obslash 11	polygons 12	\rightharpoondown 4
\ni 4	\ocircle 11	\pounds 2	\rightharpoonup 4
\niplus 11	\octagon	\Pr 5	\rightleftarrows 8
\nLeftarrow 8	\odot 3	\prec 4	\rightleftharpoons 4, 8
\nleftarrow 8	\OE 2	\precapprox 9	\rightmoon 13
\nLeftrightarrow 8	\oe 2	\preccurlyeq 9	\rightrightarrows 8
\nleftrightarrow 8	\ogreaterthan 11	\precedifyeq 4	\Rightscissors 15
\nleq 10	\oiint 11	\precnapprox 10	\rightslice 11
\nleqq 10	\oint 5	\precnapprox 10	\rightsquigarrow 8
\nleqslant 10	\olessthan 11	\precsim 9	\rightthreetimes 9
\nless 10	\Omega 2	\prime 5	\Righttorque 15
\nmid 10	\omega 2	\prod 5	\rightturn 12
\nnearrow 10	\ominus 3	\propto 4	\risingdotseq 9
\nnwarrow 10	\openo 12	\Psi 2	\rmoustache 6
\notbackslash 13	operators	\psi 2	\rrbracket 10
\notslash 13	binary 3, 9, 11	punctuation 3, 4	\rrceil 10
\nparallel 10	\oplus 3	punctuation 5, 4	\rrfloor 10
\nplus 11	\oslash 3	${f Q}$	\rrparenthesis 10
\nprec 10	\otimes 3	\quarternote 12	\Rsh 8
\npreceq 10	\ovee 11	\quarternote 12	\rtimes9
\nRightarrow 8	\overbrace 6	R	(Itimes
\nrightarrow 8	\overleftarrow 6	\rangle5	\mathbf{S}
		rational numbers see	
\nshortmid 10	\overline 6		\S 2
\nshortparallel 10	\overrightarrow 6	alphabets, math	\Sagittarius 14
\nshortparallel 10 \nsim 10		alphabets, math	\Sagittarius 14 sans 16
\nshortparallel 10 \nsim 10 \nsubseteq 10	\overrightarrow 6 \owedge 11	alphabets, math \Rbag 10 \rbag 10	\Sagittarius 14 sans 16 \Saturn 14
\nshortparallel 10 \nsim 10 \nsubseteq 10 \nsucc 10	\overrightarrow 6 \owedge 11	alphabets, math \Rbag 10 \rbag 10 \rceil 5	\Sagittarius
\nsim 10 \nsim 10 \nsubseteq 10 \nsucc 10 \nsucceq	\overrightarrow 6 \owedge 11 P \P 2	alphabets, math \Rbag 10 \rbag 10 \rceil 5 \Re 5	\Sagittarius 14 sans 16 \Saturn 14 \saturn 13 \Scorpio 14
\nshortparallel . 10 \nsim 10 \nsubseteq 10 \nsucc 10 \nsucceq 10 \nsupseteq 10	\overrightarrow 6 \owedge 11 P \P 2 \parallel 4	alphabets, math \Rbag 10 \rbag 10 \rceil 5 \Re 5 real numbers see	\Sagittarius
\nshortparallel 10 \nsim 10 \nsubseteq 10 \nsucc 10 \nsucceq 10 \nsupseteq 10 \nsupseteq 10 \nsupseteq 10	\overrightarrow 6 \owedge 11 P \P 2 \parallel 4 \partial 5	alphabets, math \Rbag 10 \rbag 10 \rceil 5 \Re 5 real numbers see alphabets, math	\Sagittarius 14 sans 16 \Saturn 14 \saturn 13 \Scorpio 14 \searrow 4 \sec 5
\nshortparallel	\overrightarrow 6 \owedge 11 \\\ P \\P \ \ 2 \\parallel 4 \\partial 5 \\pertrack pentagon 12	alphabets, math \Rbag 10 \rbag 10 \rceil 5 \Re 5 real numbers see alphabets, math \recorder 12	\Sagittarius 14 sans 16 \Saturn 14 \saturn 13 \Scorpio 14 \searrow 4 \sec 5 \setminus 3
\nshortparallel	\overrightarrow 6 \overrightarrow 6 \overrightarrow 2 \overrightarrow 5 \overrightarrow 12 \overrightarrow 12 \overrightarrow 12 \overrightarrow 12	alphabets, math \Rbag 10 \rbag 10 \rceil 5 \Re 5 real numbers see alphabets, math \recorder 12 \Rectpipe 15	\Sagittarius 14 sans 16 \Saturn 14 \saturn 13 \Scorpio 14 \searrow 4 \sec 5 \setminus 3 \sharp 5
\nshortparallel 10 \nsim 10 \nsubseteq 10 \nsucc 10 \nsucceq 10 \nsupseteq 10 \nsupseteq 10 \nsupseteq 10 \ntriangleleft 10 \ntrianglelefteq 10 \ntrianglelefteq 10	\overrightarrow 6 \overrightarrow 6 \overrightarrow 11 \\ P \\P \ \ 2 \\parallel 4 \\partial 5 \\pentagon 12 \\permil 12 \\perp 4	alphabets, math \Rbag 10 \rbag 10 \rceil 5 \Re 5 real numbers see alphabets, math \recorder 12 \Rectpipe 15 registered trademark see	\Sagittarius 14 sans 16 \Saturn 14 \saturn 13 \Scorpio 14 \searrow 4 \sec 5 \setminus 3 \sharp 5 \shortdownarrow 10
\nshortparallel 10 \nsim 10 \nsubseteq 10 \nsucc 10 \nsucceq 10 \nsupseteq 10 \nsupseteq 10 \ntriangleleft 10 \ntrianglelefteq 10 \ntrianglelefteqslant 11	\overrightarrow 6 \overrightarrow 6 \overrightarrow 11 \\ P \\P \ \ 2 \\parallel 4 \\partial 5 \\permil 12 \\permil 12 \\permil 2 \\	alphabets, math \Rbag 10 \rbag 10 \rceil 5 \Re 5 real numbers see alphabets, math \recorder 12 \Rectpipe 15 registered trademark see \textregistered	\Sagittarius 14 sans 16 \Saturn 14 \saturn 13 \Scorpio 14 \searrow 4 \sec 5 \setminus 3 \sharp 5 \shortdownarrow 10 \shortleftarrow 10
\nshortparallel 10 \nsim 10 \nsubseteq 10 \nsucc 10 \nsucceq 10 \nsupseteq 10 \nsupseteq 10 \ntriangleleft 10 \ntrianglelefteq 10 \ntrianglelefteqslant 11 \ntriangleright 10	\overrightarrow 6 \overrightarrow 6 \overrightarrow 6 \overrightarrow 6 \overrightarrow 2 \P	alphabets, math \Rbag 10 \rbag 10 \rceil 5 \Re 5 real numbers see alphabets, math \recorder 12 \Rectpipe 15 registered trademark see \textregistered relations 4	\Sagittarius 14 sans 16 \Saturn 14 \saturn 13 \Scorpio 14 \searrow 4 \sec 5 \setminus 3 \sharp 5 \shortdownarrow 10 \shortleftarrow 10 \shortmid 9
\nshortparallel 10 \nsim 10 \nsubseteq 10 \nsucc 10 \nsucceq 10 \nsupseteq 10 \nsupseteq 10 \ntriangleleft 10 \ntrianglelefteq 10 \ntrianglelefteqslant 11 \ntriangleright 10 \ntriangleright 10 \ntriangleright 10	\overrightarrow 6 \owedge 11 P \P \ 2 \parallel 4 \partial 5 \pentagon 12 \permil 12 \permil 2 \permi 2 \phi 2 \phi 2	alphabets, math \Rbag 10 \rbag 10 \rceil 5 \Re 5 real numbers see alphabets, math \recorder 12 \Rectpipe 15 registered trademark see \textregistered relations 4 binary 9, 11	\Sagittarius 14 sans 16 \Saturn 14 \saturn 13 \Scorpio 14 \searrow 4 \sec 5 \setminus 3 \sharp 5 \shortdownarrow 10 \shortleftarrow 10 \shortmid 9 \shortparallel 9
\nshortparallel 10 \nsim 10 \nsubseteq 10 \nsucc 10 \nsucceq 10 \nsupseteq 10 \nsupseteq 10 \ntriangleleft 10 \ntrianglelefteq 10 \ntrianglelefteqslant 11 \ntriangleright 10 \ntriangleright 10 \ntriangleright 10 \ntriangleright 10 \ntriangleright 10 \ntriangleright 10 \ntrianglerighteqslant	\overrightarrow 6 \overrightarrow 6 \overrightarrow 6 \overrightarrow 11 P \P	alphabets, math \Rbag 10 \rbag 10 \rceil 5 \Re 5 real numbers see alphabets, math \recorder 12 \Rectpipe 15 registered trademark see \textregistered relations 4 binary 9, 11 negated binary 10, 11	\Sagittarius 14 sans 16 \Saturn 14 \saturn 13 \Scorpio 14 \searrow 4 \sec 5 \setminus 3 \sharp 5 \shortdownarrow 10 \shortleftarrow 10 \shortmid 9 \shortparallel 9 \shortrightarrow 10
\nshortparallel	\overrightarrow 6 \overrightarrow 6 \overrightarrow 6 \overrightarrow 6 \overrightarrow 11 P \P	alphabets, math \Rbag 10 \rceil 5 \Re 5 real numbers see alphabets, math 12 \Rectpipe 15 registered trademark see \textregistered 4 binary 9, 11 negated binary 10, 11 \rfloor 5	\Sagittarius 14 sans 16 \Saturn 14 \saturn 13 \Scorpio 14 \searrow 4 \sec 5 \setminus 3 \sharp 5 \shortdownarrow 10 \shortleftarrow 10 \shortparallel 9 \shortrightarrow 10 \shortuparrow 10 \shortuparrow 10
\nshortparallel	\overrightarrow 6 \owedge 11 P \P	alphabets, math \Rbag 10 \rbag 10 \rceil 5 \Re 5 real numbers see alphabets, math \recorder 12 \Rectpipe 15 registered trademark see \textregistered relations 4 binary 9, 11 negated binary 10, 11 \rfloor 5 \rgroup 6	\Sagittarius 14 sans 16 \Saturn 14 \saturn 13 \Scorpio 14 \searrow 4 \sec 5 \setminus 3 \sharp 5 \shortdownarrow 10 \shortleftarrow 10 \shortparallel 9 \shortrightarrow 10 \shortuparrow 10 \Sigma 2
\nshortparallel 10 \nsim 10 \nsubseteq 10 \nsucc 10 \nsucceq 10 \nsupseteq 10 \nsupseteq 10 \ntriangleleft 10 \ntriangleleft 10 \ntrianglelefteq 10 \ntriangleright 11 \ntriangleright 10 \ntriangleright 10 \ntriangleright 10 \ntrianglerighteq 10 \ntrianglerighteq 10 \ntrianglerighteq 10 \ntrianglerighteq 10 \ntrianglerighteqslant 11 \nu 2 \nVDash 10	\overrightarrow 6 \owedge 11 P \P	alphabets, math \Rbag 10 \rceil 5 \Re 5 real numbers see alphabets, math \recorder 12 \Rectpipe 15 registered trademark see \textregistered relations 4 binary 9, 11 negated binary 10, 11 \rfloor 5 \rgroup 6 \RHD 11	\Sagittarius 14 sans 16 \Saturn 14 \saturn 13 \Scorpio 14 \searrow 4 \sec 5 \setminus 3 \sharp 5 \shortdownarrow 10 \shortmid 9 \shortparallel 9 \shortrightarrow 10 \shortuparrow 10 \shortuparrow 10 \shortuparrow 10 \shortuparallel 9 \shortuparallel 9 \shortuparallel 9 \shortuparallel 20
\nshortparallel 10 \nsim 10 \nsubseteq 10 \nsucc 10 \nsucceq 10 \nsupseteq 10 \nsupseteq 10 \nsupseteq 10 \ntriangleleft 10 \ntrianglelefteq 10 \ntrianglelefteq 11 \ntriangleright 10 \ntriangleright 10 \ntrianglerighteq 10 \ntrianglerighteq 10 \ntrianglerighteq 10 \ntrianglerighteqslant 11 \nu 2 \nVDash 10	\overrightarrow 6 \owedge 11 P \P	alphabets, math \Rbag 10 \rbag 10 \rceil 5 \Re 5 real numbers see alphabets, math \recorder 12 \Rectpipe 15 registered trademark see \textregistered relations 4 binary 9, 11 negated binary 10, 11 \rfloor 5 \rgroup 6 \RHD 11 \rhd 3, 11	\Sagittarius 14 sans 16 \Saturn 14 \saturn 13 \Scorpio 14 \searrow 4 \sec 5 \setminus 3 \sharp 5 \shortdownarrow 10 \shortleftarrow 10 \shortmid 9 \shortparallel 9 \shortparallel 9 \shortuparrow 10 \sigma 2 \sigma 2 \sigma 4
\nshortparallel 10 \nsim 10 \nsubseteq 10 \nsucc 10 \nsucceq 10 \nsupseteq 10 \nsupseteq 10 \nsupseteq 10 \ntriangleleft 10 \ntriangleleft 10 \ntrianglelefteq 10 \ntriangleright 11 \ntriangleright 10 \ntrianglerighteq 10 \ntrianglerighteq 10 \ntrianglerighteq 10 \ntrianglerighteqslant 11 \nu 2 \nVDash 10 \nvDash 10 \nvdash 10	\overrightarrow 6 \overrightarrow 6 \overrightarrow 6 \overrightarrow 6 \overrightarrow 11 P \P	alphabets, math \Rbag 10 \rbag 10 \rceil 5 \Re 5 real numbers see	\Sagittarius 14 sans 16 \Saturn 14 \saturn 13 \Scorpio 14 \searrow 4 \sec 5 \setminus 3 \sharp 5 \shortdownarrow 10 \shortleftarrow 10 \shortmid 9 \shortparallel 9 \shortparallel 9 \shortuparrow 10
\nshortparallel 10 \nsim 10 \nsubseteq 10 \nsucc 10 \nsucceq 10 \nsupseteq 10 \nsupseteq 10 \nsupseteq 10 \ntriangleleft 10 \ntrianglelefteq 10 \ntrianglelefteq 11 \ntriangleright 10 \ntriangleright 10 \ntrianglerighteq 10 \ntrianglerighteq 10 \ntrianglerighteq 10 \ntrianglerighteqslant 11 \nu 2 \nVDash 10	\overrightarrow 6 \overrightarrow 6 \overrightarrow 6 \overrightarrow 6 \overrightarrow 11 P \P	alphabets, math \Rbag 10 \rbag 10 \rceil 5 \Re 5 real numbers see alphabets, math \recorder 12 \Rectpipe 15 registered trademark see \textregistered relations 4 binary 9, 11 negated binary 10, 11 \rfloor 5 \rgroup 6 \RHD 11 \rhd 3, 11 \rho 2 \RIGHTarrow 12	\Sagittarius 14 sans 16 \Saturn 14 \saturn 13 \Scorpio 14 \searrow 4 \sec 5 \setminus 3 \sharp 5 \shortdownarrow 10 \shortleftarrow 10 \shortmid 9 \shortparallel 9 \shortrightarrow 10 \shortuparrow 10 \sigma 2 \sigma 2 \sigma 4 \simeq 4 \simeq 4
\nshortparallel 10 \nsim 10 \nsubseteq 10 \nsucc 10 \nsucceq 10 \nsupseteq 10 \nsupseteq 10 \nsupseteq 10 \ntriangleleft 10 \ntriangleleft 10 \ntrianglelefteq 10 \ntriangleright 11 \ntriangleright 10 \ntrianglerighteq 10 \ntrianglerighteq 10 \ntrianglerighteq 10 \ntrianglerighteqslant 11 \nu 2 \nVDash 10 \nvDash 10 \nvdash 10	\overrightarrow 6 \overrightarrow 6 \overrightarrow 6 \overrightarrow 6 \overrightarrow 11 P \P	alphabets, math \Rbag 10 \rbag 10 \rceil 5 \Re 5 real numbers see alphabets, math \recorder 12 \Rectpipe 15 registered trademark see \textregistered relations 4 binary 9, 11 negated binary 10, 11 \rfloor 5 \rgroup 6 \RHD 11 \rhd 3, 11 \rho 2 \RIGHTarrow 12 \Rightarrow 4, 15	\Sagittarius 14 sans 16 \Saturn 14 \saturn 13 \Scorpio 14 \searrow 4 \sec 5 \setminus 3 \sharp 5 \shortdownarrow 10 \shortleftarrow 10 \shortmid 9 \shortparallel 9 \shortrightarrow 10 \shortuparrow 10 \shortuparrow 10 \shortuparrow 10 \shortuparrow 5 \shortuparrow 10 \sigma 2 \sigma 2 \sigma 2 \sigma 5 \sinh 5 \sinh 5
\nshortparallel 10 \nsim 10 \nsubseteq 10 \nsucc 10 \nsucceq 10 \nsupseteq 10 \nsupseteq 10 \nsupseteq 10 \ntriangleleft 10 \ntrianglelefteq 10 \ntrianglelefteq 11 \ntriangleright 11 \ntriangleright 10 \ntrianglerighteq 10 \ntrianglerighteq 10 \ntrianglerighteqslant 11 \nu 2 \nVDash 10 \nvDash 10 \nvDash 10 \nvdash 10 \nvdash 10 \nvarrow 4	\overrightarrow 6 \overrightarrow 6 \overrightarrow 6 \overrightarrow 6 \overrightarrow 11 P \P	alphabets, math \Rbag 10 \rbag 10 \rceil 5 \Re 5 real numbers see	\Sagittarius 14 sans 16 \Saturn 14 \saturn 13 \Scorpio 14 \searrow 4 \sec 5 \setminus 3 \sharp 5 \shortdownarrow 10 \shortleftarrow 10 \shortparallel 9 \shortparallel 9 \shortrightarrow 10 \shortuparrow 10 \shortuparrow 10 \shortuparrow 5 \shortuparrow 10 \sigma 2 \sigma 2 \sigma 4 \sin 5 \sinh 5 \smallfrown 9
\nshortparallel 10 \nsim 10 \nsubseteq 10 \nsucc 10 \nsucceq 10 \nsupseteq 10 \nsupseteq 10 \nsupseteq 10 \ntriangleleft 10 \ntriangleleft 10 \ntrianglelefteq 10 \ntriangleright 11 \ntriangleright 10 \ntrianglerighteq 10 \ntrianglerighteq 10 \ntrianglerighteq 10 \ntrianglerighteqslant 11 \nu 2 \nvDash 10 \nvDash 10 \nvdash 10 \nvdash 10 \nvdash 10 \nwarrow 4	\overrightarrow 6 \overrightarrow 6 \overrightarrow 6 \overrightarrow 6 \overrightarrow 11 P \P	alphabets, math \Rbag 10 \rbag 10 \rceil 5 \Re 5 real numbers see alphabets, math \recorder 12 \Rectpipe 15 registered trademark see \textregistered relations 4 binary 9, 11 negated binary 10, 11 \rfloor 5 \rgroup 6 \RHD 11 \rhd 3, 11 \rho 2 \RIGHTarrow 12 \Rightarrow 4, 15	\Sagittarius 14 sans 16 \Saturn 14 \saturn 13 \Scorpio 14 \searrow 4 \sec 5 \setminus 3 \sharp 5 \shortdownarrow 10 \shortleftarrow 10 \shortmid 9 \shortparallel 9 \shortrightarrow 10 \shortuparrow 10 \shortuparrow 10 \shortuparrow 10 \shortuparrow 5 \shortuparrow 10 \sigma 2 \sigma 2 \sigma 2 \sigma 5 \sinh 5 \sinh 5

		N	
\smile 4	\supsetneq 10	\textdaggerdbl 3, 7	\textopenbullet 6
\Smiley 15	\supsetneqq 10	\textdblhyphen 7	\textordfeminine 3, 7
\smiley 12	\supsetplus 11	\textdblhyphenchar 7	\textordmasculine . 3, 7
\Snowflake 15	\supsetpluseq 11	\textdegree 7	\textparagraph 3, 7
\spadesuit 5	\surd 5	\textdied 7	\textperiodcentered $3, 7$
special characters 2	\swarrow 4	\textdiscount 7	textpertenthousand . 7
\sphericalangle \dots 8	_	textdiv 7	\textperthousand 7
\sqcap 3	\mathbf{T}	\textdivorced 7	\textpeso 7
\searrow sqcup 3	\talloblong 11	\textdollar $3, 7$	\textpilcrow 7
\sqrt 6	\tan 5	\textdollaroldstyle . 7	\textpm 7
\sqsubset \dots 4, 9, 11	anh 5	\textdong 7	\textquestiondown 3
\sqsubseteq $\dots \dots 4$	\tau 2	\textdownarrow 7	\textquotedblleft 3
\sqsupset \dots 4, 9, 11	\Taurus 14	\texteightoldstyle 7	\textquotedblright 3
\sqsupseteq $\dots \dots 4$	\Telefon 15	\textellipsis \dots 3	$\texttt{\text}$ quoteleft 3
\Square 12	\textacutedbl 6	$\texttt{\textemdash}$	$\texttt{\text}$ quoteright 3
\square 8	\t textascendercompwordmark	\t extendash 3	\textquotesingle 7
\Squaredot 15	6	\textestimated 7	quotestraightbase
$\Squarepipe \dots 15$	\textasciiacute 6	\texteuro 7	7
\SS 2	\textasciibreve 6	\textexclamdown 3	\textquotestraightdblbase
\ss \dots 2	\textasciicaron 6	\textfiveoldstyle 7	7
\ssearrow 10	\textasciicircum 3	\textflorin 7	\textrangle 7
\sslash 11	\textasciidieresis 6	\textfouroldstyle 7	\textrbrackdbl 7
\sswarrow 10	\textasciigrave 6	\textfractionsolidus 7	\textrecipe 7
\star 3	\textasciimacron 6	\textfrak 16	\textreferencemark 7
stars 12	\textasciitilde 3	\textgravedbl 7	\textregistered 3, 7
stmaryrd $\dots 10-12$	\textasteriskcentered 3,	\textgreater 3	\textrightarrow 7
\Stopsign 15	6	\textguarani 7	\textrquill 7
\Subset 9	\textbackslash 3	\textinterrobang 7	\textsection 3, 7
\subset 4	\textbaht 6	\textinterrobangdown 7	\textservicemark 7
\subseteq 4	\textbar 3	\textlangle 7	\textsevenoldstyle 7
\subseteqq 9	\textbardbl 6	\textlbrackdbl 7	\textsixoldstyle 7
\subsetneq 10	\textbigcircle 6	\textleaf 7	\textsterling 3, 7
\subsetneqq 10	\textblank 6	\textleftarrow 7	\textsurd 7
\subsetplus 11	\textborn 6	\textless 3	\textswab 16
\subsetpluseq 11	\textbraceleft 3	\textlira 7	\textthreeoldstyle 7
\succ 4	\textbraceright 3	\textlnot 7	\textthreequarters 7
\succapprox 9	\textbrokenbar 6	\textlquill 6	\textthreequartersemdash
\succcurlyeq 9	\textbullet 3, 7	\textmarried 6	7
\succeq 4	\textcapitalcompwordmark	\textmho 6	\textthreesuperior 7
\succnapprox 10		\textminus 6	\texttildelow 7
\succnsim 10	\textcelsius 7	\textmu 6	\texttimes 7
\succsim 9	\textcent 7	\textmusicalnote 6	\texttrademark 3, 7
\sum 5	\textcentoldstyle 7	\textnaira 6	\texttwelveudash 7
\Sun 14	\textcircledP 7	\textnineoldstyle 6	\texttwooldstyle 7
\sun 12	\textcolonmonetary 7	\textnumero 6	\texttwosuperior 7
\sup 5	textcomp 2, 3, 6, 7	\textohm 6	\textunderscore 3
\Supset 9	\textcopyleft 7	\textonehalf6	\textuparrow 7
\supset 4	\textcopyright 3, 7	\textoneoldstyle 6	\textvisiblespace 3
\supseteq 4	\textcurrency 7	\textonequarter 6	\textwon 7
\supseteqq 9	\textdagger 3, 7	\textonesuperior 6	\textyen 7
,-apooody	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, sandardaportor o	(30110) 011

\textzerooldstyle 7	\Uparrow 4, 5	\varoplus 11	\mathbf{W}
\therefore 9	\uparrow 4, 5	\varoslash 11	\wasylozenge 12
\Theta 2	\Updownarrow $4, 5$	\varotimes 11	\wasypropto 11
\theta 2	\updownarrow $4, 5$	\varovee 11	wasysym 3–5, 10–13
\thickapprox 9	\upharpoonleft 8	\varowedge 11	\wasytherefore 12
\thicksim 9	\upharpoonright 8	\varphi 2	\wedge 3
\Thorn 12	\uplus 3	\varpi 2	\widehat 6
\thorn 12	Υ 2	\varpropto 9	\widetilde 6
\tilde 6	υ 2	\varrho 2	\Womanface 15
\times 3	\upuparrows 8	\varsigma 2	\Womanfront 15
\top 5	\Uranus 14	\varsubsetneq 10	\Womanside 15
\triangle 5	\uranus 13	\varsubsetneqq 10	\wp 5
\triangledown 8	\urcorner 8	\varsupsetneq 10	\wr 3
\triangleleft 3	V	\varsupsetneqq 10	\Writinghand 15
\trianglelefteq \dots 9	•	\vartheta 2	\wilder
\trianglelefteqslant 11	\varangle 12	\vartimes 11	X
\triangleq 9	\varbigcirc 11	\vartriangle 8	
\triangleright 3	\varcurlyvee 11	\vartriangleleft 9	\XBox
\trianglerighteq 9	\varcurlywedge 11	\vartriangleright 9	\Xi 2
\trianglerighteqslant	\varepsilon 2	\Vdash 9	\xi 2
11	\varhexagon 12 \varhexstar 12	\vDash 9	
\Tsteel 15	variable-sized 5	\vdash 4	\mathbf{Y}
\TTsteel 15	\variable-sized 5 \variable 11	\vdots 5	\Ydown 11
\twoheadleftarrow 8		\vec6	yfonts $\dots \dots 16$
\twoheadrightarrow 8	\varkappa 8 \varnothing 8	\Vectorarrow 15	\Yingyang 15
\twonotes 12	\varoast 11	\Vectorarrowhigh 15	\Yleft 11
\mathbf{U}	\varobar 11	\vee 3	\Yright 11
\ulcorner 8	\varobslash 11	\veebar 9	\Yup 11
\underbrace6	\varocircle 11	\Venus 14	
\underline 6	\varodot 11	\venus 13	${f z}$
unity see alphabets, math	\varogreaterthan 11	\vernal 13	Zapf Chancery 16
\unlhd 3, 11	\varoint 11	\VHF 12	Zapf Dingbats 13
\unrhd 3, 11	\varolessthan 11	\Virgo 14	\zeta 2
\UParrow 12	\varominus 11	\Vvdash9	zodiacal symbols . 13, 14
	·		J,