

The Great, Big List of L^AT_EX Symbols

David Carlisle

Scott Pakin

Alexander Holt

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TABLE 1: L^AT_EX 2_ε Escapable “Special” Characters

\$	\\$	%	\%	-	_	}	\}	&	\&	#	\#	{	\{
----	-----	---	----	---	----	---	----	---	----	---	----	---	----

TABLE 2: L^AT_EX 2_ε Commands Defined to Work in Both Math and Text Mode

\$	\\$	-	_	‡	\ddag	{	\{
¶	\P	©	\copyright	...	\dots	}	\}
§	\S	†	\dag	£	\pounds		

(Where two symbols are present, the left one is the “faked” symbol that L^AT_EX 2_ε provides by default, and the right one is the “true” symbol that `textcomp` makes available.)

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

ā	\aa	Đ	\DH*	Ł	\L	ø	\o	ß	\ss
Å	\AA	đ	\dh*	ł	\l	Ø	\O	SS	\SS
Æ	\AE	Đ	\DJ*	Ł	\NG*	Œ	\OE	Þ	\TH*
æ	\ae	đ	\dj*	ł	\ng*	œ	\oe	þ	\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	\thetaeta	ϕ	\phi	τ	\tauau
β	\betaeta	ϑ	\varthetaeta	π	\pi	υ	\upsilonlson
γ	\gammaamma	ι	\iotaota	ϖ	\varpi	ϕ	\phi
δ	\deltaelta	κ	\kappaappa	ρ	\rho	φ	\varphi
ϵ	\epsilonpsilon	λ	\lambdaambda	ϱ	\varrho	χ	\chi
ε	\varepsilonpsilon	μ	\mu	σ	\sigma	ψ	\psi
ζ	\zetaeta	ν	\nu	ς	\varsigma	ω	\omega
η	\etaeta	ξ	\xi				
Γ	\Gammaamma	Λ	\Lambdambda	Σ	\Sigma	Ψ	\Psi
Δ	\Delta	Ξ	\Xi	Υ	\Upsilonpsilon	Ω	\Omega
Θ	\Thetaeta	Π	\Pi	Φ	\Phi		

(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

«	<code>\guillemotleft*</code>	<	<code>\guilsinglleft*</code>	„	<code>\quotedblbase*</code>	"	<code>\textquotedbl*</code>
»	<code>\guillemotright*</code>	>	<code>\guilsinglright*</code>	,	<code>\quotesinglbase*</code>		

(To get these symbols, use the `fontenc` package to select an alternate font encoding, such as T1.)

TABLE 6: Predefined L^AT_EX 2_ε Text-Mode Commands

\wedge	<code>\textasciicircum</code>		$<$	<code>\textless</code>
\sim	<code>\textasciitilde</code>	a	\underline{a}	<code>\textordfeminine</code>
*	<code>\textasteriskcentered</code>	o	Q	<code>\textordmasculine</code>
\	<code>\textbackslash</code>		¶	<code>\textparagraph</code>
	<code>\textbar</code>		·	<code>\textperiodcentered</code>
{	<code>\textbraceleft</code>		¿	<code>\textquestiondown</code>
}	<code>\textbraceright</code>		“	<code>\textquotedblleft</code>
•	<code>\textbullet</code>		”	<code>\textquotedblright</code>
©	<code>\textcopyright</code>		‘	<code>\textquoteleft</code>
†	<code>\textdagger</code>		,	<code>\textquoteright</code>
‡	<code>\textdaggerdbl</code>	®	®	<code>\textregistered</code>
\$	<code>\textdollar</code>		§	<code>\textsection</code>
...	<code>\textellipsis</code>		£	<code>\textsterling</code>
—	<code>\textemdash</code>	TM	™	<code>\texttrademark</code>
-	<code>\textendash</code>		-	<code>\textunderscore</code>
¡	<code>\textexclamdown</code>		␣	<code>\textvisiblespace</code>
>	<code>\textgreater</code>			

(Where two symbols are present, the left one is the “faked” symbol that L^AT_EX 2_ε provides by default, and the right one is the “true” symbol that `textcomp` makes available.)

TABLE 7: Binary Operation Symbols

\pm	<code>\pm</code>	\cap	<code>\cap</code>	\diamond	<code>\diamond</code>	\oplus	<code>\oplus</code>
\mp	<code>\mp</code>	\cup	<code>\cup</code>	\bigtriangleup	<code>\bigtriangleup</code>	\ominus	<code>\ominus</code>
\times	<code>\times</code>	\uplus	<code>\uplus</code>	\bigtriangledown	<code>\bigtriangledown</code>	\otimes	<code>\otimes</code>
\div	<code>\div</code>	\sqcap	<code>\sqcap</code>	\triangleleft	<code>\triangleleft</code>	\oslash	<code>\oslash</code>
*	<code>\ast</code>	\sqcup	<code>\sqcup</code>	\triangleright	<code>\triangleright</code>	\odot	<code>\odot</code>
★	<code>\star</code>	\vee	<code>\vee</code>	\lhd	<code>\lhd*</code>	\bigcirc	<code>\bigcirc</code>
○	<code>\circ</code>	\wedge	<code>\wedge</code>	\rhd	<code>\rhd*</code>	†	<code>\dagger</code>
•	<code>\bullet</code>	\setminus	<code>\setminus</code>	\unlhd	<code>\unlhd*</code>	‡	<code>\ddagger</code>
·	<code>\cdot</code>	\wr	<code>\wr</code>	\unrhd	<code>\unrhd*</code>	II	<code>\amalg</code>
+	<code>+</code>	-	<code>-</code>				

* Not predefined in L^AT_EX 2_ε. Use one of the packages `latexsym`, `amsfonts`, `amssymb`, or `wasysym`.

TABLE 8: Relation Symbols

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

* Not predefined in $\text{\LaTeX} 2_{\varepsilon}$. Use one of the packages `latexsym`, `amsmath`, `amssymb`, or `wasysym`.

TABLE 9: Punctuation Symbols

,	,	;	;	:	<code>\colon</code>	.	<code>\ldotp</code>	.	<code>\cdotp</code>
---	---	---	---	---	---------------------	---	---------------------	---	---------------------

TABLE 10: Arrow Symbols

\leftarrow	<code>\leftarrow</code>	\longleftarrow	<code>\longleftarrow</code>	\uparrow	<code>\uparrow</code>
\Leftarrow	<code>\Leftarrow</code>	\Longleftarrow	<code>\Longleftarrow</code>	\Uparrow	<code>\Uparrow</code>
\rightarrow	<code>\rightarrow</code>	\longrightarrow	<code>\longrightarrow</code>	\downarrow	<code>\downarrow</code>
\Rightarrow	<code>\Rightarrow</code>	\Longrightarrow	<code>\Longrightarrow</code>	\Downarrow	<code>\Downarrow</code>
\leftrightarrow	<code>\leftrightarrow</code>	\longleftrightarrow	<code>\longleftrightarrow</code>	\updownarrow	<code>\updownarrow</code>
\Leftrightarrow	<code>\Leftrightarrow</code>	\Longleftrightarrow	<code>\Longleftrightarrow</code>	\Updownarrow	<code>\Updownarrow</code>
\mapsto	<code>\mapsto</code>	\longmapsto	<code>\longmapsto</code>	\nearrow	<code>\nearrow</code>
\hookrightarrow	<code>\hookrightarrow</code>	\hookleftarrow	<code>\hookleftarrow</code>	\searrow	<code>\searrow</code>
\leftharpoonup	<code>\leftharpoonup</code>	\rightharpoonup	<code>\rightharpoonup</code>	\swarrow	<code>\swarrow</code>
\leftharpoondown	<code>\leftharpoondown</code>	\rightharpoondown	<code>\rightharpoondown</code>	\nwarrow	<code>\nwarrow</code>
\rightleftharpoons	<code>\rightleftharpoons</code>	\leadsto	<code>\leadsto*</code>		

* Not predefined in $\text{\LaTeX} 2_{\varepsilon}$. Use one of the packages `latexsym`, `amsmath`, `amssymb`, or `wasysym`.

TABLE 11: Miscellaneous Symbols

\dots	<code>\ldots</code>	\cdots	<code>\cdots</code>	\vdots	<code>\vdots</code>	\ddots	<code>\ddots</code>
\aleph	<code>\aleph</code>	$'$	<code>\prime</code>	\forall	<code>\forall</code>	∞	<code>\infty</code>
\hbar	<code>\hbar</code>	\emptyset	<code>\emptyset</code>	\exists	<code>\exists</code>	\square	<code>\Box*</code>
\imath	<code>\imath</code>	∇	<code>\nabla</code>	\neg	<code>\neg</code>	\diamond	<code>\Diamond*</code>
j	<code>\jmath</code>	\surd	<code>\surd</code>	\flat	<code>\flat</code>	\triangle	<code>\triangle</code>
ℓ	<code>\ell</code>	\top	<code>\top</code>	\natural	<code>\natural</code>	\clubsuit	<code>\clubsuit</code>
\wp	<code>\wp</code>	\perp	<code>\bot</code>	\sharp	<code>\sharp</code>	\diamondsuit	<code>\diamondsuit</code>
\Re	<code>\Re</code>	\parallel	<code>\parallel</code>	\backslash	<code>\backslash</code>	\heartsuit	<code>\heartsuit</code>
\Im	<code>\Im</code>	\angle	<code>\angle</code>	∂	<code>\partial</code>	\spadesuit	<code>\spadesuit</code>
\mho^*	<code>\mho*</code>	\cdot	<code>\cdot</code>	$ $	<code> </code>		

* Not predefined in $\text{\LaTeX} 2_{\varepsilon}$. Use one of the packages `latexsym`, `amsfonts`, `amssymb`, or `wasysym`.

TABLE 12: Variable-sized Symbols

\sum	<code>\sum</code>	\bigcap	<code>\bigcap</code>	\bigodot	<code>\bigodot</code>
\prod	<code>\prod</code>	\bigcup	<code>\bigcup</code>	\bigotimes	<code>\bigotimes</code>
\coprod	<code>\coprod</code>	\bigsqcup	<code>\bigsqcup</code>	\bigoplus	<code>\bigoplus</code>
\int	<code>\int</code>	\bigvee	<code>\bigvee</code>	\biguplus	<code>\biguplus</code>
\oint	<code>\oint</code>	\bigwedge	<code>\bigwedge</code>		

TABLE 13: Log-like Symbols

<code>\arccos</code>	<code>\cos</code>	<code>\csc</code>	<code>\exp</code>	<code>\ker</code>	<code>\limsup</code>	<code>\min</code>	<code>\sinh</code>
<code>\arcsin</code>	<code>\cosh</code>	<code>\deg</code>	<code>\gcd</code>	<code>\lg</code>	<code>\ln</code>	<code>\Pr</code>	<code>\sup</code>
<code>\arctan</code>	<code>\cot</code>	<code>\det</code>	<code>\hom</code>	<code>\lim</code>	<code>\log</code>	<code>\sec</code>	<code>\tan</code>
<code>\arg</code>	<code>\coth</code>	<code>\dim</code>	<code>\inf</code>	<code>\liminf</code>	<code>\max</code>	<code>\sin</code>	<code>\tanh</code>

TABLE 14: Delimiters

$($	<code>(</code>	$)$	<code>)</code>	\uparrow	<code>\uparrow</code>	\Uparrow	<code>\Uparrow</code>
$[$	<code>[</code>	$]$	<code>]</code>	\downarrow	<code>\downarrow</code>	\Downarrow	<code>\Downarrow</code>
$\{$	<code>\{</code>	$\}$	<code>\}</code>	\updownarrow	<code>\updownarrow</code>	\Updownarrow	<code>\Updownarrow</code>
\lfloor	<code>\lfloor</code>	\rfloor	<code>\rfloor</code>	\lceil	<code>\lceil</code>	\rceil	<code>\rceil</code>
\langle	<code>\langle</code>	\rangle	<code>\rangle</code>	$/$	<code>/</code>	\backslash	<code>\backslash</code>
$ $	<code> </code>	\parallel	<code>\parallel</code>				

TABLE 15: Large Delimiters

$\left($	<code>\rmoustache</code>	\int	<code>\lmoustache</code>	$\right)$	<code>\rgroup</code>	$\left($	<code>\lgroup</code>
\downarrow	<code>\arrowvert</code>	\Downarrow	<code>\Arrowvert</code>	\downarrow	<code>\bracevert</code>		

TABLE 16: Math-Mode Accents

\hat{a}	<code>\hat{a}</code>	\acute{a}	<code>\acute{a}</code>	\bar{a}	<code>\bar{a}</code>	\dot{a}	<code>\dot{a}</code>	\breve{a}	<code>\breve{a}</code>
\check{a}	<code>\check{a}</code>	\grave{a}	<code>\grave{a}</code>	\vec{a}	<code>\vec{a}</code>	\ddot{a}	<code>\ddot{a}</code>	\tilde{a}	<code>\tilde{a}</code>

TABLE 17: Some Other Constructions

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

TABLE 18: `textcomp` Symbols¹

“	<code>\textacutedbl</code>	$\{$	<code>\textlquill</code>
’	<code>\textascendercompwordmark</code>	∞	<code>\textmarried</code>
‘	<code>\textasciiaacute</code>	U	<code>\textmho</code>
˘	<code>\textasciibreve</code>	—	<code>\textminus</code>
ˆ	<code>\textasciicaron</code>	μ	<code>\textmu</code>
“	<code>\textasciidieresis</code>	♪	<code>\textmusicalnote</code>
˘	<code>\textasciigrave</code>	N	<code>\textnaira</code>
—	<code>\textasciimacron</code>	9	<code>\textnineoldstyle</code>
$*$	<code>\textasteriskcentered</code>	N°	<code>\textnumero</code>
B	<code>\textbaht</code>	Ω	<code>\textohm</code>
 	<code>\textbardbl</code>	$\frac{1}{2}$	<code>\textonehalf</code>
\bigcirc	<code>\textbigcircle</code>	1	<code>\textoneoldstyle</code>
b	<code>\textblank</code>	$\frac{1}{4}$	<code>\textonequarter</code>
*	<code>\textborn</code>	1	<code>\textonesuperior</code>
 	<code>\textbrokenbar</code>	\circ	<code>\textopenbullet</code>

(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	ª	\textordfeminine
	\textcapitalcompwordmark	º	º	\textordmasculine
°C	\textcelsius	¶	¶	\textparagraph
¢	\textcent	.	.	\textperiodcentered
¢	\textcentoldstyle	% _{cc0}	% _{cc0}	\textpertenthousand
Ⓟ	\textcircledP	% _{cc}	% _{cc}	\textperthousand
⌘	\textcolonmonetary	₱	₱	\textpeso
©	\textcopyright	¶	¶	\textpilcrow
Ⓒ	\textcopyright	±	±	\textpm
₱	\textcurrency	'	'	\textquotesingle
†	\textdagger	,	,	\textquotestraightbase
†	\textdaggerdbl	"	"	\textquotestraightdblbase
=	\textdblhyphen	}	}	\textrangle
=	\textdblhyphenchar			\textrbrackdbl
°	\textdegree	R	R	\textrecipe
†	\textdied	*	*	\textreferencemark
%	\textdiscount	®	®	\textregistered
÷	\textdiv	→	→	\textrightarrow
o/o	\textdivorced	}	}	\textrquill
\$	\textdollar	§	§	\textsection
\$	\textdollaroldstyle	SM	SM	\textservicemark
↓	\textdong	7	7	\textsevenoldstyle
↓	\textdownarrow	6	6	\textsixoldstyle
8	\texteightoldstyle	£	£	\textsterling
C	\textestimated	√	√	\textsurd
€	\texteuro	3	3	\textthreeoldstyle
5	\textfiveoldstyle	¾	¾	\textthreequarters
f	\textflorin	—	—	\textthreequartersemdash
4	\textfouroldstyle	³	³	\textthreesuperior
/	\textfractionsolidus	~	~	\texttildelow
“	\textgravedbl	×	×	\texttimes
Ⓔ	\textguarani	TM	TM	\texttrademark
‡	\textinterrobang	—	—	\texttwelveudash
‡	\textinterrobangdown	2	2	\texttwooldstyle
⟨	\textlangle	²	²	\texttwosuperior
	\textlbrackdbl	↑	↑	\textuparrow
♻	\textleaf	W	W	\textwon
←	\textleftarrow	¥	¥	\textyen
₧	\textlira	0	0	\textzerooldstyle
¬	\textlnot			

(Where two symbols are present, the left one is the “faked” symbol that L^AT_EX 2_ε provides by default, and the right one is the “true” symbol that textcomp makes available.)

TABLE 19: AMS Delimiters

\lrcorner `\ulcorner` \urcorner `\urcorner` \llcorner `\llcorner` \lrcorner `\lrcorner`

TABLE 20: AMS Arrows

$-->$	<code>\dashrightarrow</code>	\dashleftarrow	<code>\dashleftarrow</code>	\Lleftarrow	<code>\leftleftarrows</code>	\Lrightarrow	<code>\leftrightarrows</code>
\Leftarrow	<code>\Lleftarrow</code>	\twoheadleftarrow	<code>\twoheadleftarrow</code>	\leftarrowtail	<code>\leftarrowtail</code>	\looparrowleft	<code>\looparrowleft</code>
\Rightarrow	<code>\letrightharpoons</code>	\curvearrowleft	<code>\curvearrowleft</code>	\circlearrowleft	<code>\circlearrowleft</code>	\Lsh	<code>\Lsh</code>
\Uparrow	<code>\upuparrows</code>	\upharpoonleft	<code>\upharpoonleft</code>	\downharpoonleft	<code>\downharpoonleft</code>	\multimap	<code>\multimap</code>
\leftrightsquigarrow	<code>\leftrightsquigarrow</code>	\rightrightarrows	<code>\rightrightarrows</code>	\rightleftarrows	<code>\rightleftarrows</code>	\rightrightarrows	<code>\rightrightarrows</code>
\rightleftarrows	<code>\rightleftarrows</code>	\twoheadrightarrow	<code>\twoheadrightarrow</code>	\rightarrowtail	<code>\rightarrowtail</code>	\looparrowright	<code>\looparrowright</code>
\rightleftharpoons	<code>\rightleftharpoons</code>	\curvearrowright	<code>\curvearrowright</code>	\circlearrowright	<code>\circlearrowright</code>	\Rsh	<code>\Rsh</code>
\Downarrow	<code>\downdownarrows</code>	\upharpoonright	<code>\upharpoonright</code>	\downharpoonright	<code>\downharpoonright</code>	\rightsquigarrow	<code>\rightsquigarrow</code>

TABLE 21: AMS Negated Arrows

\nleftarrow	<code>\nleftarrow</code>	\nrightarrow	<code>\nrightarrow</code>	\nLeftarrow	<code>\nLeftarrow</code>	\nRightarrow	<code>\nRightarrow</code>
\nleftrightarrow	<code>\nleftrightarrow</code>	\nLeftrightarrow	<code>\nLeftrightarrow</code>				

TABLE 22: AMS Greek

\digamma `\digamma` \varkappa `\varkappa`

TABLE 23: AMS Hebrew

\beth `\beth` \daleth `\daleth` \gimel `\gimel`

TABLE 24: AMS Miscellaneous

\hbar	<code>\hbar</code>	\hslash	<code>\hslash</code>	\vartriangle	<code>\vartriangle</code>	\triangledown	<code>\triangledown</code>
\square	<code>\square</code>	\lozenge	<code>\lozenge</code>	\textcircled{S}	<code>\circledS</code>	\angle	<code>\angle</code>
\measuredangle	<code>\measuredangle</code>	\nexists	<code>\nexists</code>	\mho	<code>\mho</code>	\Finv	<code>\Finv</code>
\Game	<code>\Game</code>	\Bbbk	<code>\Bbbk</code>	\backprime	<code>\backprime</code>	\varnothing	<code>\varnothing</code>
\blacktriangle	<code>\blacktriangle</code>	\blacktriangledown	<code>\blacktriangledown</code>	\blacksquare	<code>\blacksquare</code>	\blacklozenge	<code>\blacklozenge</code>
\bigstar	<code>\bigstar</code>	\sphericalangle	<code>\sphericalangle</code>	\complement	<code>\complement</code>	\eth	<code>\eth</code>
\diagup	<code>\diagup</code>	\diagdown	<code>\diagdown</code>				

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

✓ \checkmark ® \circledR ✕ \maltese

TABLE 26: AMS Binary Operators

$\dot{+}$	\dotplus	\smallsetminus	\smallsetminusminus	$\mathbin{\cap}$	\Cap	$\mathbin{\cup}$	\Cup
$\bar{\wedge}$	\barwedge	\veebar	\veebar	$\overline{\wedge}$	\doublebarwedge	\boxminus	\boxminus
\boxtimes	\boxtimes	\boxdot	\boxdot	\boxplus	\boxplus	\div	\divideontimes
\ltimes	\ltimes	\rtimes	\rtimes	\leftthreetimes	\leftthreetimes	\rightthreetimes	\rightthreetimes
\curlywedge	\curlywedge	\curlyvee	\curlyvee	$\circ\dashv$	\circledldash	\circledast	\circledast
\circledcirc	\circledcirc	\centerdot	\centerdot	\intercal	\intercal		

TABLE 27: AMS Binary Relations

\leq	\leq	\leqslant	\leqslant	\leqslantless	\leqslantless
\lessapprox	\lessapprox	\approx	\approx	\lessdot	\lessdot
\lessgtr	\lessgtr	\lesseqgtr	\lesseqgtr	\lesseqqgtr	\lesseqqgtr
\risingdotseq	\risingdotseq	\fallingdotseq	\fallingdotseq	\backsim	\backsim
\subseteq	\subseteq	\subset	\subset	\sqsubset	\sqsubset
\curlyeqprec	\curlyeqprec	\prec	\prec	\preccurlyeq	\preccurlyeq
\trianglelefteq	\trianglelefteq	\vdash	\vdash	\Vdash	\Vdash
\smallfrown	\smallfrown	\bumpeq	\bumpeq	\Bumpeq	\Bumpeq
\geqslant	\geqslant	\eqslantgtr	\eqslantgtr	\gtrsim	\gtrsim
\gtrdot	\gtrdot	\ggg	\ggg	\gtrless	\gtrless
\gtreqless	\gtreqless	\eqcirc	\eqcirc	\circeq	\circeq
\thicksim	\thicksim	\thickapprox	\thickapprox	\supseteq	\supseteq
\sqsupset	\sqsupset	\succcurlyeq	\succcurlyeq	\curlyeqsucc	\curlyeqsucc
\succapprox	\succapprox	\vartriangleright	\vartriangleright	\trianglerighteq	\trianglerighteq
\shortmid	\shortmid	\shortparallel	\shortparallel	\between	\between
\varpropto	\varpropto	\blacktriangleleft	\blacktriangleleft	\therefore	\therefore
\blacktriangleright	\blacktriangleright	\because	\because		

TABLE 28: AMS Negated Binary Relations

\nless	\nleq	\nleqslant	\nleqq
\lneq	\lneqq	\lvertneqq	\lnsim
\lnapprox	\nprec	\npreceq	\precnsim
\precnapprox	\nsim	\nshortmid	\nmid
\nvDash	\nvDash	\ntriangleleft	\ntrianglelefteq
\nsubseteq	\subseteq	\varsubsetneq	\subseteq
\varsubsetneqq	\ngtr	\ngeq	\ngeqslant
\ngeqq	\gneq	\gneqq	\gvertneqq
\gnsim	\gnapprox	\nsucc	\nsucceq
\nsucceq	\succnsim	\succnapprox	\ncong
\nshortparallel	\nparallel	\nvDash	\nVDash
\ntriangleright	\ntrianglerighteq	\nsupseteq	\nsupseteqq
\supsetneq	\varsupsetneq	\supsetneqq	\varsupsetneqq

TABLE 29: stmaryrd Delimiters

$\{$	\Lbag	$\}$	\Rbag	$\{$	\lbag	$\}$	\rbag
\lceil	\llceil	\rceil	\rrceil	\lfloor	\llfloor	\rfloor	\rrfloor
\llbracket	\llbracket	\rrbracket	\rrbracket				

TABLE 30: stmaryrd Arrows

\Longleftarrow	\Longmapsfrom	\Longrightarrow	\Longmapsto	\Leftarrow	\Mapsfrom	\Rrightarrow	\Mapsto
\nearrow	\nnearrow	\nwarrow	\nnwarrow	\searrow	\ssearrow	\swarrow	\sswarrow
\downarrow	\shortdownarrow	\uparrow	\shortuparrow	\leftarrow	\shortleftarrow	\rightarrow	\shortrightarrow
\longleftarrow	\longmapsfrom	\longleftrightarrow	\mapsfrom	\leftarrowtriangle	\leftarrowtriangle	\rightarrowtriangle	\rightarrowtriangle
\lightning	\rrparenthesis	\leftrightharpoonup	\leftrightharpoonup	\leftrightharpoonup	\leftrightharpoonup	\leftrightharpoonup	\leftrightharpoonup

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

TABLE 31: stmaryrd Extension Characters

\nrightarrow	\nrightarrow	\nrightarrow	\nrightarrow
\nrightarrow	\nrightarrow	\nrightarrow	\nrightarrow

TABLE 32: stmaryrd Binary Operators

\Uparrow	<code>\Ydown</code>	\Leftarrow	<code>\Yleft</code>	\rightarrow	<code>\Yright</code>	\Uparrow	<code>\Yup</code>
Φ	<code>\baro</code>	\backslash	<code>\bbslash</code>	$\&$	<code>\binampersand</code>	\bowtie	<code>\bindnasrepma</code>
\boxast	<code>\boxast</code>	\boxbar	<code>\boxbar</code>	\boxbox	<code>\boxbox</code>	\boxslash	<code>\boxslash</code>
\boxcirc	<code>\boxcircle</code>	\boxdot	<code>\boxdot</code>	\boxempty	<code>\boxempty</code>	\boxtimes	<code>\boxtimes</code>
$\curlyvee\downarrow$	<code>\curlyveedownarrow</code>	$\curlyvee\uparrow$	<code>\curlyveeuparrow</code>	$\curlywedge\downarrow$	<code>\curlywedgedownarrow</code>	$\curlywedge\uparrow$	<code>\curlywedgeuparrow</code>
\fatbslash	<code>\fatbslash</code>	\fatsemi	<code>\fatsemi</code>	\fatslash	<code>\fatslash</code>	\interleave	<code>\interleave</code>
\leftslice	<code>\leftslice</code>	\merge	<code>\merge</code>	\minuso	<code>\minuso</code>	\moo	<code>\moo</code>
\nplus	<code>\nplus</code>	\obars	<code>\obars</code>	\oblong	<code>\oblong</code>	\obslash	<code>\obslash</code>
\ogreaterthan	<code>\ogreaterthan</code>	\olessthan	<code>\olessthan</code>	\ovee	<code>\ovee</code>	\owedge	<code>\owedge</code>
\rightslice	<code>\rightslice</code>	\sslash	<code>\sslash</code>	\talloblong	<code>\talloblong</code>	\varbigcirc	<code>\varbigcirc</code>
\varcurlyvee	<code>\varcurlyvee</code>	\varcurlywedge	<code>\varcurlywedge</code>	\varoast	<code>\varoast</code>	\varobar	<code>\varobar</code>
\varobslash	<code>\varobslash</code>	\varocircle	<code>\varocircle</code>	\varodot	<code>\varodot</code>	\varogreaterthan	<code>\varogreaterthan</code>
\varolessthan	<code>\varolessthan</code>	\varominus	<code>\varominus</code>	\varoplus	<code>\varoplus</code>	\varoslash	<code>\varoslash</code>
\varotimes	<code>\varotimes</code>	\varovee	<code>\varovee</code>	\varowedge	<code>\varowedge</code>	\vartimes	<code>\vartimes</code>

TABLE 33: stmaryrd Large Binary Operators

\bigbox	<code>\bigbox</code>	\bigcurlyvee	<code>\bigcurlyvee</code>	\bigcurlywedge	<code>\bigcurlywedge</code>
\biginterleave	<code>\biginterleave</code>	\bignplus	<code>\bignplus</code>	\bigparallel	<code>\bigparallel</code>
\bigsqcap	<code>\bigsqcap</code>	\bigtriangledown	<code>\bigtriangledown</code>	\bigtriangleup	<code>\bigtriangleup</code>

TABLE 34: stmaryrd Binary Relations

\inplus	<code>\inplus</code>	\niplus	<code>\niplus</code>	\subsetplus	<code>\subsetplus</code>	\subsetplusseq	<code>\subsetplusseq</code>
\supsetplus	<code>\supsetplus</code>	\supsetplusseq	<code>\supsetplusseq</code>	\trianglelefteqslant	<code>\trianglelefteqslant</code>	\trianglerighteqslant	<code>\trianglerighteqslant</code>

TABLE 35: stmaryrd Negated Binary Relations

\ntrianglelefteqslant	<code>\ntrianglelefteqslant</code>	\ntrianglerighteqslant	<code>\ntrianglerighteqslant</code>
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TABLE 36: wasysym Math-Mode Symbols

\Box	<code>\Box</code>	\lesssim	<code>\apprle</code>	\otimes	<code>\logof</code>	\unlhd	<code>\unlhd</code>
\Diamond	<code>\Diamond</code>	\iiint	<code>\iiint</code>	\circ	<code>\ocircle</code>	\unrhd	<code>\unrhd</code>
\Join	<code>\Join</code>	\iint	<code>\iint</code>	\oint	<code>\oiint</code>	\varint	<code>\varint</code>
\LHD	<code>\LHD</code>	\neg	<code>\invneg</code>	\rhd	<code>\rhd</code>	\varoint	<code>\varoint</code>
\RHD	<code>\RHD</code>	\leadsto	<code>\leadsto</code>	\sqsubset	<code>\sqsubset</code>	\wasypropto	<code>\wasypropto</code>
\gtrsim	<code>\apprge</code>	\lhd	<code>\lhd</code>	\sqsupset	<code>\sqsupset</code>		

TABLE 37: wasysym General Symbols

☞	\Bowtie	☹	\blacksmiley	☹	\frownie	📻	\recorder
▼	\DOWNarrow	!	\brokenvert	⊗	\invdiameter	☺	\smiley
◀	\LEFTarrow	¢	\cent	✱	\kreuz	☼	\sun
▶	\RIGHTarrow	✓	\checked	⚡	\lightning	↔	\varangle
▲	\UParrow	⌚	\clock	♂	\male	◻	\wasylozenge
␣	\agem0	⌚	\currency	‰	\permil	∴	\wasytherefore
☒	\ataribox	∅	\diameter	☎	\phone		
🔔	\bell	♀	\female	☞	\pointer		

Note that stmaryrd also defines a \lightning symbol. The difference—other than “ $\frac{1}{2}$ ” vs. “ $\frac{1}{4}$ ”—is that the wasysym version (above) gives the correct character only in text mode.

TABLE 38: wasysym Electrical and Physical Symbols

~	\AC	≈	\VHF	~~~~~	\photon	≈	\HF	~~~~~	\gluon
---	-----	---	------	-------	---------	---	-----	-------	--------

TABLE 39: wasysym Polygons and Stars

☑	\CheckedBox	☆	\davidsstar	◯	\octagon	*	\varhexstar
□	\Square	⬡	\hexagon	⬠	\pentagon		
☒	\XBox	✱	\hexstar	⬢	\varhexagon		

TABLE 40: wasysym Musical Notes

♪	\eighthnote	♪	\halfnote	♪	\twonotes	。	\fullnote	♪	\quarternote
---	-------------	---	-----------	---	-----------	---	-----------	---	--------------

TABLE 41: wasysym Circles

●	\CIRCLE	◐	\LEFTcircle	◑	\RIGHTcircle	↻	\rightturn
○	\Circle	◑	\Leftcircle	◐	\Rightcircle		
◐	\LEFTCIRCLE	◑	\RIGHTCIRCLE	↻	\leftturn		

TABLE 42: wasysym Phonetic Symbols

Ð	\DH	ð	\dh	ɔ	\openo
Þ	\Thorn	ə	\inve	þ	\thorn

TABLE 43: wasysym Astrological and Zodiacal Symbols


















	<code>\ascnode</code>		<code>\jupiter</code>		<code>\newmoon</code>		<code>\venus</code>
	<code>\astrosun</code>		<code>\leftmoon</code>		<code>\pluto</code>		<code>\vernal</code>
	<code>\descnode</code>		<code>\mars</code>		<code>\rightmoon</code>		
	<code>\earth</code>		<code>\mercury</code>		<code>\saturn</code>		
	<code>\fullmoon</code>		<code>\neptune</code>		<code>\uranus</code>		

TABLE 44: wasysym APL Symbols










































































































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	<code>\APLdownarrowbox</code>		<code>\APLminus</code>		<code>\notbackslash</code>
	<code>\APLinput</code>		<code>\APLrightarrowbox</code>		<code>\notslash</code>

TABLE 45: wasysym APL Modifiers

`\APLcirc{}` `\APLnot{}` `\APLvert{}`

TABLE 46: pifont Commands for Using Zapf Dingbats

	<code>\ding{33}</code>		<code>\ding{71}</code>		<code>\ding{109}</code>		<code>\ding{181}</code>		<code>\ding{219}</code>
	<code>\ding{34}</code>		<code>\ding{72}</code>		<code>\ding{110}</code>		<code>\ding{182}</code>		<code>\ding{220}</code>
	<code>\ding{35}</code>		<code>\ding{73}</code>		<code>\ding{111}</code>		<code>\ding{183}</code>		<code>\ding{221}</code>
	<code>\ding{36}</code>		<code>\ding{74}</code>		<code>\ding{112}</code>		<code>\ding{184}</code>		<code>\ding{222}</code>
	<code>\ding{37}</code>		<code>\ding{75}</code>		<code>\ding{113}</code>		<code>\ding{185}</code>		<code>\ding{223}</code>
	<code>\ding{38}</code>		<code>\ding{76}</code>		<code>\ding{114}</code>		<code>\ding{186}</code>		<code>\ding{224}</code>
	<code>\ding{39}</code>		<code>\ding{77}</code>		<code>\ding{115}</code>		<code>\ding{187}</code>		<code>\ding{225}</code>
	<code>\ding{40}</code>		<code>\ding{78}</code>		<code>\ding{116}</code>		<code>\ding{188}</code>		<code>\ding{226}</code>
	<code>\ding{41}</code>		<code>\ding{79}</code>		<code>\ding{117}</code>		<code>\ding{189}</code>		<code>\ding{227}</code>
	<code>\ding{42}</code>		<code>\ding{80}</code>		<code>\ding{118}</code>		<code>\ding{190}</code>		<code>\ding{228}</code>
	<code>\ding{43}</code>		<code>\ding{81}</code>		<code>\ding{119}</code>		<code>\ding{191}</code>		<code>\ding{229}</code>
	<code>\ding{44}</code>		<code>\ding{82}</code>		<code>\ding{120}</code>		<code>\ding{192}</code>		<code>\ding{230}</code>
	<code>\ding{45}</code>		<code>\ding{83}</code>		<code>\ding{121}</code>		<code>\ding{193}</code>		<code>\ding{231}</code>
	<code>\ding{46}</code>		<code>\ding{84}</code>		<code>\ding{122}</code>		<code>\ding{194}</code>		<code>\ding{232}</code>
	<code>\ding{47}</code>		<code>\ding{85}</code>		<code>\ding{123}</code>		<code>\ding{195}</code>		<code>\ding{233}</code>
	<code>\ding{48}</code>		<code>\ding{86}</code>		<code>\ding{124}</code>		<code>\ding{196}</code>		<code>\ding{234}</code>
	<code>\ding{49}</code>		<code>\ding{87}</code>		<code>\ding{125}</code>		<code>\ding{197}</code>		<code>\ding{235}</code>
	<code>\ding{50}</code>		<code>\ding{88}</code>		<code>\ding{126}</code>		<code>\ding{198}</code>		<code>\ding{236}</code>

(continued on next page)

(continued from previous page)

✓	\ding{51}	✱	\ding{89}	♣	\ding{161}	⑧	\ding{199}	⇨	\ding{237}
✓	\ding{52}	✱	\ding{90}	♣	\ding{162}	⑨	\ding{200}	⇨	\ding{238}
×	\ding{53}	✱	\ding{91}	♣	\ding{163}	⑩	\ding{201}	⇨	\ding{239}
✕	\ding{54}	✱	\ding{92}	♥	\ding{164}	❶	\ding{202}	⇨	\ding{241}
✕	\ding{55}	✱	\ding{93}	♣	\ding{165}	❷	\ding{203}	⇨	\ding{242}
✕	\ding{56}	✱	\ding{94}	♣	\ding{166}	❸	\ding{204}	⇒	\ding{243}
✕	\ding{57}	✱	\ding{95}	♣	\ding{167}	❹	\ding{205}	⇒	\ding{244}
✕	\ding{58}	✱	\ding{96}	♣	\ding{168}	❺	\ding{206}	⇒	\ding{245}
✕	\ding{59}	✱	\ding{97}	♣	\ding{169}	❻	\ding{207}	⇒	\ding{246}
✕	\ding{60}	✱	\ding{98}	♥	\ding{170}	❼	\ding{208}	⇒	\ding{247}
†	\ding{61}	✱	\ding{99}	♣	\ding{171}	❽	\ding{209}	⇒	\ding{248}
†	\ding{62}	✱	\ding{100}	❶	\ding{172}	❾	\ding{210}	⇒	\ding{249}
†	\ding{63}	✱	\ding{101}	❷	\ding{173}	❿	\ding{211}	⇒	\ding{250}
✱	\ding{64}	✱	\ding{102}	❸	\ding{174}	→	\ding{212}	⇒	\ding{251}
✱	\ding{65}	✱	\ding{103}	❹	\ding{175}	→	\ding{213}	⇒	\ding{252}
✱	\ding{66}	✱	\ding{104}	❺	\ding{176}	↔	\ding{214}	⇒	\ding{253}
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✱	\ding{68}	✱	\ding{106}	❼	\ding{178}	↘	\ding{216}		
✱	\ding{69}	✱	\ding{107}	❽	\ding{179}	→	\ding{217}		
✱	\ding{70}	●	\ding{108}	❾	\ding{180}	↗	\ding{218}		

TABLE 47: marvosym Astrological and Zodiacal Symbols

♃	\Jupiter	♌	\Moon	♄	\Saturn	♀	\Venus
♂	\Mars	♆	\Neptune	♁	\Sun		
♿	\Mercury	♇	\Pluto	♅	\Uranus		
♈	\Aries	♋	\Cancer	♎	\Libra	♏	\Capricorn
♉	\Taurus	♌	\Leo	♏	\Scorpio	♐	\Aquarius
♊	\Gemini	♍	\Virgo	♐	\Sagittarius	♑	\Pisces

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

TABLE 48: marvosym Digits

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

TABLE 49: marvosym Euro Signs

€ \EUR € \EURcr € \EURhv € \EURtm

TABLE 50: marvosym Miscellaneous

†	\Ankh	✂	\Cutright	↺	\Lefttorque	↻	\Righttorque
☘	\Bat	FAX	\FAX	✉	\Letter	☺	\Smiley
≡	\Beam	✉	\fax	⚡	\Lightning	❄	\Snowflake
⚙	\Bearing	☎	\Faxmachine	⚡	\Lineload	·	\Squaredot
🚲	\Bicycle	🏠	\FHB0logo	⚙	\Loosebearing	◻	\Squarepipe
✚	\Celtcross	🏠	\FHB0LOGO	⚙	\Lsteel	🛑	\Stopsign
CE	\CEsign	⚙	\Fixedbearing	↑	\Manfront	☎	\Telefon
☑	\Checkedbox	—	\Flatsteel	!	\Manside	⚙	\Tsteel
◎	\Circles	⚽	\Football	📶	\Mobilefone	⚙	\TTsteel
○	\Circpipe	↓	\Force	A	\MVA	→	\Vectorarrow
🕒	\Clocklogo	☹	\Frowny	@	\MVAt	→	\Vectorarrowhigh
☕	\Coffeecup	♥	\Heart	p	\MVP	👩	\Womanface
≡	\Corresponds	🏭	\Industry	🚗	\Pickup	↑	\Womanfront
†	\Cross	📶	\Info	👉	\Pointinghand	!	\Womanside
☒	\Crossedbox	✂	\Kross	◻	\Rectpipe	✍	\Writinghand
✂	\Cutleft	---	\Kutline	→	\Rightarrow	☯	\Yingyang
---	\Cutline	✂	\Leftscissors	✂	\Rightscissors		

TABLE 51: Math Alphabets

		Required package
$\mathrm{ABCdef123}$	<code>\mathrm{ABCdef123}</code>	<i>none</i>
$\mathit{ABCdef123}$	<code>\mathit{ABCdef123}</code>	<i>none</i>
$\mathnormal{ABCdef123}$	<code>\mathnormal{ABCdef123}</code>	<i>none</i>
\mathcal{ABC}	<code>\mathcal{ABC}</code>	<i>none</i>
\mathscr{ABC}	<code>\mathscr{ABC}</code>	<code>mathrsfs</code>
\mathcal{ABC}	<code>\mathcal{ABC}</code>	<code>euscript</code> with option: <code>mathcal</code>
\mathcal{ABC} or \mathscr{ABC}	<code>\mathscr{ABC}</code>	<code>euscript</code> with option: <code>mathcr</code>
$\mathcal{ABCdef123}$	<code>\mathpzc{ABCdef123}</code>	<i>none</i> ; manually defined*
\mathbf{ABC}	<code>\mathbf{ABC}</code>	<code>amsmath</code> or <code>amssymb</code>
$\mathbf{ABCdef123}$	<code>\mathbf{ABCdef123}</code>	<code>bbold</code>
$\mathbf{ABCdef12}$	<code>\mathbf{ABCdef12}</code>	<code>bbm</code>
$\mathbf{ABCdef12}$	<code>\mathbf{ABCdef12}</code>	<code>bbm</code>
$\mathbf{ABCdef12}$	<code>\mathbf{ABCdef12}</code>	<code>bbm</code>
$\mathbf{ABCdef12}$	<code>\mathbf{ABCdef12}</code>	<code>bbm</code>
$\mathbf{ABC1}$	<code>\mathbf{ABC1}</code>	<code>dsfont</code>
$\mathbf{ABC1}$	<code>\mathbf{ABC1}</code>	<code>dsfont</code> with option: <code>sans</code>
$\mathbf{ABCdef123}$	<code>\mathbf{ABCdef123}</code>	<code>eufrak</code>
$\mathbf{ABCdef123}$	<code>\mathbf{ABCdef123}</code>	<code>yfonts</code>
$\mathbf{ABCdef123}$	<code>\mathbf{ABCdef123}</code>	<code>yfonts</code>

* Put “`\DeclareMathAlphabet{\mathpzc}{OT1}{pzc}{m}{it}`” in your document’s preamble to make `\mathpzc` typeset its argument in Zapf Chancery.

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

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\&	2	\APLinv	13
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