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LATEX and $\mathcal{A}\mathcal{M}\mathcal{S}$ -LATEX Symbols

Emre Sermutlu

March 17, 2008

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- This document lists symbols in standard LaTeX, $\mathcal{AM}\mathcal{S}$ -LATEX and a few additional packages.
- The document is optimized for viewing on a computer. I recommend using it full screen (Ctrl+L for Acrobat) and then navigating by clicking the sidebar.
- You may reach the latest version of this file (and also another file using Txfonts) at
academic.cankaya.edu.tr/~sermutlu.

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Note About Packages

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- I did not separate the the $\mathcal{A}\mathcal{M}\mathcal{S}$ -LATEX symbols from the standard ones. Do not forget the include
`\usepackage{amsmath, amssymb, latexsym}` before
`\begin{document}` to be able to use these symbols.
- In the section Extra, I have included the packages `Textcomp`, `Marvosym`, `Pifont` and `Chemarrow` to give a taste of the rich world of LATEX. You need to install packages and then write `\usepackage{packagename}` to access these symbols. (If you are using MiKTeX, it will install packages automatically at first usage.)
- There are many more packages and thousands of symbols not included here. I recommend Scott Pakin's `The Comprehensive LaTeX Symbol List` for a complete listing. (It can be reached at www.ctan.org).

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- Prepared by Dr. Emre Sermutlu, Department of Mathematics and Computer Science, Çankaya University, Ankara-Turkey.
- I started this project for my personal needs, as it was unfeasible to browse books or search the internet every time I needed an unfamiliar symbol. I am using a computer whenever I am using LATEX, so I needed a file optimized for viewing on screen, not printing on paper.
- I am a fan of Beamer, which is a wonderful class for preparing Power-Point like presentations in LATEX. You are currently seeing the power of Beamer. You can learn more about it at:
<http://latex-beamer.sourceforge.net>
- Please report errors, omissions, suggestions and any other kind of feedback to sermutlu@cankaya.edu.tr.

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&	\&	İ	\.{I}	®	\circledR
#	\#	Ğ	\~{G}	ⓐ	\textcircled{a}
%	\%	Ã	\H{A}	™	\texttrademark
{	\{	Ò	\`{O}	✓	\checkmark
}	\}	Ĉ	\^{C}	£	\pounds
	\-	Č	\v{C}	✖	\maltese
¶	\P	�	\r{T}	•	\textbullet
§	\S	�	\' {P}	\	\textbackslash
†	\dag	�	\u{M}		\textbar
‡	\ddag	�	\={N}	-	_
i	\i	�	\b{E}	—	\textendash
j	\j	�	\c{S}	—	\textemdash
BB	\t{BB}	�	\d{F}	<	\textless
				>	\textgreater

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...	\dots	~	\textasciitilde
ł	\l	^	\textasciicircum
Ł	\L	¡	\textexclamdown
ø	\o	¿	\textquestiondown
Ø	\O	‘	\textquotefirst
å	\aa	’	\textquoteright
Å	\AA	“	\textquotedblleft
ß	\ss	”	\textquotedblright
SS	\SS	„	\textvisiblespace
æ	\ae	º	\textordmasculine
Æ	\AE	ª	\textordfeminine
œ	\oe	*	\textasteriskcentered
Œ	\OE	.	\textperiodcentered

Common Math Symbols

Some of these symbols may appear at other tables for user convenience

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\neq	<code>\neq</code>	\pm	<code>\pm</code>	\rightarrow	<code>\to</code>
\leqslant	<code>\leqslant</code>	\mp	<code>\mp</code>	\iff	<code>\iff</code>
\geqslant	<code>\geqslant</code>	\times	<code>\times</code>	$\$$	<code>\\$</code>
\approx	<code>\approx</code>	\div	<code>\div</code>	£	<code>\pounds</code>
\equiv	<code>\equiv</code>	\cup	<code>\cup</code>	$\%$	<code>\%</code>
\cong	<code>\cong</code>	\cap	<code>\cap</code>	$\&$	<code>\&</code>
\simeq	<code>\simeq</code>	\in	<code>\in</code>	$\{$	<code>\{</code>
∂	<code>\partial</code>	\notin	<code>\notin</code>	$\}$	<code>\}</code>
∞	<code>\infty</code>	\setminus	<code>\setminus</code>	$_$	<code>_</code>
∇	<code>\nabla</code>	\setminus	<code>\setminus</code>	\P	<code>\P</code>
\aleph	<code>\aleph</code>	\subset	<code>\subset</code>	\S	<code>\S</code>
ℓ	<code>\ell</code>	\supset	<code>\supset</code>	$*$	<code>\ast</code>
\vee	<code>\vee</code>	\cdot	<code>\cdot</code>	\dagger	<code>\dag</code>
\wedge	<code>\wedge</code>	\centerdot	<code>\centerdot</code>	\ddagger	<code>\ddag</code>
\forall	<code>\forall</code>	\circledC	<code>\copyright</code>	\bullet	<code>\bullet</code>
\exists	<code>\exists</code>	\maltese	<code>\maltese</code>	\wr	<code>\wr</code>

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α	<code>\alpha</code>	υ	<code>\upsilon</code>
β	<code>\beta</code>	ξ	<code>\xi</code>
γ	<code>\gamma</code>	τ	<code>\tau</code>
δ	<code>\delta</code>	ι	<code>\iota</code>
λ	<code>\lambda</code>	η	<code>\eta</code>
ω	<code>\omega</code>	ζ	<code>\zeta</code>
ψ	<code>\psi</code>	μ	<code>\mu</code>
χ	<code>\chi</code>	ν	<code>\nu</code>
ρ	<code>\rho</code>	ϱ	<code>\varrho</code>
ϵ	<code>\epsilon</code>	ε	<code>\varepsilon</code>
κ	<code>\kappa</code>	\varkappa	<code>\varkappa</code>
π	<code>\pi</code>	ϖ	<code>\varpi</code>
ϕ	<code>\phi</code>	φ	<code>\varphi</code>
σ	<code>\sigma</code>	ς	<code>\varsigma</code>
θ	<code>\theta</code>	ϑ	<code>\vartheta</code>

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Δ \Delta

Λ \Lambda

Ω \Omega

Π \Pi

Φ \Phi

Ψ \Psi

Σ \Sigma

Θ \Theta

Υ \Upsilon

Ξ \Xi

F \digamma

Γ \varGamma

Δ \varDelta

Λ \varLambda

Ω \varOmega

Π \varPi

Φ \varPhi

Ψ \varPsi

Σ \varSigma

Θ \varTheta

Υ \varUpsilon

Ξ \varXi

\aleph \aleph

\beth \beth

\gimel \gimel

\daleth \daleth

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\oplus	<code>\oplus</code>	\boxplus	<code>\boxplus</code>
\ominus	<code>\ominus</code>	\boxminus	<code>\boxminus</code>
\otimes	<code>\otimes</code>	\boxtimes	<code>\boxtimes</code>
\odot	<code>\odot</code>	\boxdot	<code>\boxdot</code>
\oslash	<code>\oslash</code>	\divideontimes	<code>\divideontimes</code>
\circ	<code>\circ</code>	\intercal	<code>\intercal</code>
\bigcirc	<code>\bigcirc</code>	\dotplus	<code>\dotplus</code>
\circledcirc	<code>\circledcirc</code>	\setminus	<code>\setminus</code>
\circleddash	<code>\circleddash</code>	\smallsetminus	<code>\smallsetminus</code>
\circledast	<code>\circledast</code>	\centerdot	<code>\centerdot</code>
\amalg	<code>\amalg</code>	\diamond	<code>\diamond</code>
\cup	<code>\cup</code>	\cap	<code>\cap</code>
\bigcup	<code>\bigcup</code>	\bigcap	<code>\bigcap</code>
\sqcup	<code>\sqcup</code>	\sqcap	<code>\sqcap</code>
\leftthreetimes	<code>\leftthreetimes</code>	\rightthreetimes	<code>\rightthreetimes</code>
\uplus	<code>\uplus</code>	\backepsilon	<code>\backepsilon</code>

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\vee	<code>\vee</code>	\wedge	<code>\wedge</code>
\curlyvee	<code>\curlyvee</code>	\curlywedge	<code>\curlywedge</code>
\veebar	<code>\veebar</code>	\barwedge	<code>\barwedge</code>
\ltimes	<code>\ltimes</code>	\barwedge	<code>\doublebarwedge</code>
\rtimes	<code>\rtimes</code>	\dagger	<code>\dagger</code>
\dashv	<code>\dashv</code>	\ddagger	<code>\ddagger</code>
\vdash	<code>\vdash</code>	\nvDash	<code>\nvDash</code>
\vDash	<code>\vDash</code>	\nvDash	<code>\nvDash</code>
\Vdash	<code>\Vdash</code>	\nVdash	<code>\nVdash</code>
\models	<code>\models</code>	\nVDash	<code>\nVDash</code>
\Vvdash	<code>\Vvdash</code>	\pitchfork	<code>\pitchfork</code>
\bowtie	<code>\bowtie</code>	\smile	<code>\smile</code>
\Join	<code>\Join</code>	\smallsmile	<code>\smallsmile</code>
\because	<code>\because</code>	\frown	<code>\frown</code>
\therefore	<code>\therefore</code>	\smallfrown	<code>\smallfrown</code>
\And	<code>\And</code>	\bullet	<code>\bullet</code>

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\cong	<code>\cong</code>	$\not\cong$	<code>\ncong</code>
\preccurlyeq	<code>\preccurlyeq</code>	\succcurlyeq	<code>\succcurlyeq</code>
\curlyeqprec	<code>\curlyeqprec</code>	\curlyeqsucc	<code>\curlyeqsucc</code>
\prec	<code>\prec</code>	\nprec	<code>\nprec</code>
\preceq	<code>\preceq</code>	\npreceq	<code>\npreceq</code>
\precapprox	<code>\precapprox</code>	\nprecapprox	<code>\nprecapprox</code>
\precsim	<code>\precsim</code>	\nprecsim	<code>\nprecsim</code>
\succ	<code>\succ</code>	\nsucc	<code>\nsucc</code>
\succeq	<code>\succeq</code>	\nsucceq	<code>\nsucceq</code>
\succapprox	<code>\succapprox</code>	\succnapprox	<code>\succnapprox</code>
\succsim	<code>\succsim</code>	\succnsim	<code>\succnsim</code>

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	\mid		\nmid
	\shortmid		\nshortmid
	\parallel		\nparallel
	\shortparallel		\nshortparallel
~	\sim	\nsim	\nsim
\sim	\thicksim	\doteq	\doteq
\simeq	\simeq	\doteqdot	\doteqdot
\backsim	\backsim	\between	\between
\backsimeq	\backsimeq	\asymp	\asymp
\approx	\approx	\fallingdotseq	\fallingdotseq
\thickapprox	\thickapprox	\risingdotseq	\risingdotseq
\approxeq	\approxeq	\bumpeq	\bumpeq
\equiv	\equiv	\Bumpeq	\Bumpeq
\propto	\propto	\circceq	\circceq
\varpropto	\varpropto	\eqcirc	\eqcirc
\multimap	\multimap	\perp	\perp

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\subset	<code>\subset</code>	\supset	<code>\supset</code>
\subseteq	<code>\subseteq</code>	\supseteq	<code>\supseteq</code>
\sqsubseteq	<code>\sqsubseteq</code>	\sqsupseteq	<code>\sqsupseteq</code>
\sqsubset	<code>\sqsubset</code>	\sqsupset	<code>\sqsupset</code>
\sqsubseteq	<code>\sqsubseteq</code>	\sqsupseteq	<code>\sqsupseteq</code>
\Subset	<code>\Subset</code>	\Supset	<code>\Supset</code>
$\not\subseteq$	<code>\not\subseteq</code>	$\not\supseteq$	<code>\not\supseteq</code>
$\not\sqsubseteq$	<code>\not\sqsubseteq</code>	$\not\sqsupseteq$	<code>\not\sqsupseteq</code>
$\not\sqsubset$	<code>\not\sqsubset</code>	$\not\sqsupset$	<code>\not\sqsupset</code>
$\not\sqsubseteq$	<code>\not\sqsubseteq</code>	$\not\sqsupseteq$	<code>\not\sqsupseteq</code>
$\not\Subset$	<code>\not\Subset</code>	$\not\Supset$	<code>\not\Supset</code>
$\not\models$	<code>\not\models</code>	$\not\models$	<code>\not\models</code>
$\not\models$	<code>\not\models</code>	$\not\models$	<code>\not\models</code>
$\not\models$	<code>\not\models</code>	$\not\models$	<code>\not\models</code>
$\not\models$	<code>\not\models</code>	$\not\models$	<code>\not\models</code>
$\not\models$	<code>\not\models</code>	$\not\models$	<code>\not\models</code>

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<	<	$\not<$	\nless
>	>	$\not>$	\ngtr
\leqslant	\leqslant	$\not\leqslant$	\nleqslant
\geqslant	\geqslant	$\not\geqslant$	\ngeqslant
\leq	\leq	$\not\leq$	\nleq
\geq	\geq	$\not\geq$	\ngeq
\leqq	\leqq	$\not\leqq$	\nleqq
\geqq	\geqq	$\not\geqq$	\ngeqq
\eqslantless	\eqslantless	$\not\eqslantless$	\lneqq
\eqslantgtr	\eqslantgtr	$\not\eqslantgtr$	\gneqq
\lneq	\lneq	$\not\lneq$	\lvertneqq
\gneq	\gneq	$\not\gneq$	\gvertneqq

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\ll	<code>\ll</code>	$\ll\ll$	<code>\llll</code>
\gg	<code>\gg</code>	$\gg\gg$	<code>\gggg</code>
\swarrow	<code>\lessapprox</code>	$\swarrow\swarrow$	<code>\lnsim</code>
\nwarrow	<code>\gtrapprox</code>	$\nwarrow\nwarrow$	<code>\gnsim</code>
\lessdot	<code>\lessapprox</code>	$\lessdot\lessdot$	<code>\lnapprox</code>
\gtrdot	<code>\gtrapprox</code>	$\gtrdot\gtrdot$	<code>\gnapprox</code>
\lessgtr	<code>\lessgtr</code>	$\lessgtr\lessgtr$	<code>\lessdotdot</code>
\gtrless	<code>\gtrless</code>	$\gtrless\gtrless$	<code>\gtrdotdot</code>
\lesseqgtr	<code>\lesseqgtr</code>	$\lesseqgtr\lesseqgtr$	<code>\lesseqqgtr</code>
\gtreqless	<code>\gtreqless</code>	$\gtreqless\gtreqless$	<code>\gtreqqless</code>

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\triangle	<code>\bigtriangleup</code>	∇	<code>\bigtriangledown</code>
\triangleright	<code>\triangleright</code>	\triangleleft	<code>\triangleleft</code>
\ntriangleright	<code>\ntriangleright</code>	\ntriangleleft	<code>\ntriangleleft</code>
\vartriangleright	<code>\vartriangleright</code>	\vartriangleleft	<code>\vartriangleleft</code>
\rhd	<code>\rhd</code>	\lhd	<code>\lhd</code>
\lhd	<code>\lhd</code>	\unlhd	<code>\unlhd</code>
\trianglerighteq	<code>\trianglerighteq</code>	\trianglelefteq	<code>\trianglelefteq</code>
\ntrianglerighteq	<code>\ntrianglerighteq</code>	\ntrianglelefteq	<code>\ntrianglelefteq</code>
\blacktriangleright	<code>\blacktriangleright</code>	\blacktriangleleft	<code>\blacktriangleleft</code>
\triangleq	<code>\triangleq</code>		

\rightarrow	<code>\rightharpoonup</code>	\leftarrow	<code>\leftharpoonup</code>
\rightarrowtail	<code>\rightharpoondown</code>	\leftarrowtail	<code>\leftharpoondown</code>
\rightleftharpoons	<code>\rightleftharpoons</code>	\leftrightrightharpoons	<code>\leftrightrightharpoons</code>
\upharpoonright	<code>\upharpoonright</code>	\downharpoonleft	<code>\downharpoonleft</code>
\downharpoonright	<code>\downharpoonright</code>	\upharpoonleft	<code>\upharpoonleft</code>

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\rightarrow	<code>\rightarrow</code>	\leftarrow	<code>\leftarrow</code>
\Rightarrow	<code>\Rightarrow</code>	\Leftarrow	<code>\Leftarrow</code>
\longrightarrow	<code>\longrightarrow</code>	\Longleftarrow	<code>\Longleftarrow</code>
\Longrightarrow	<code>\Longrightarrow</code>	\Longleftarrow	<code>\Longleftarrow</code>
\uparrow	<code>\uparrow</code>	\downarrow	<code>\downarrow</code>
\Uparrow	<code>\Uparrow</code>	\Downarrow	<code>\Downarrow</code>
\rightarrowtail	<code>\rightarrowtail</code>	\leftrightharpoonup	<code>\leftrightharpoonup</code>
$\not\rightarrowtail$	<code>\not\rightarrowtail</code>	\rightrightarpoonup	<code>\rightrightarpoonup</code>
\updownarrow	<code>\updownarrow</code>	\leftrightsquigarrow	<code>\leftrightsquigarrow</code>
\Updownarrow	<code>\Updownarrow</code>	\rightrightarpoons	<code>\rightrightarpoons</code>
\nearrow	<code>\nearrow</code>	\leftrightarrow	<code>\leftrightarrow</code>
\nwarrow	<code>\nwarrow</code>	\rightrightarwarrow	<code>\rightrightarwarrow</code>
\swarrow	<code>\swarrow</code>	\longleftarpoons	<code>\longleftarpoons</code>
\searrow	<code>\searrow</code>	\Longleftrightarrow	<code>\Longleftrightarrow</code>
\iff	<code>\iff</code>	\leftrightsquigarrow	<code>\leftrightsquigarrow</code>

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\rightrightarrows	<code>\rightrightarrows</code>	\leftleftarrows	<code>\leftleftarrows</code>
\rightleftarrows	<code>\rightleftarrows</code>	\leftrightarrows	<code>\leftrightarrows</code>
\Rightarrow	<code>\Rrightarrow</code>	\Lleftarrow	<code>\Lleftarrow</code>
\hookrightarrow	<code>\hookrightarrow</code>	\hookleftarrow	<code>\hookleftarrow</code>
\rightarrowtail	<code>\rightarrowtail</code>	\leftarrowtail	<code>\leftarrowtail</code>
\looparrowright	<code>\looparrowright</code>	\looparrowleft	<code>\looparrowleft</code>
\twoheadrightarrow	<code>\twoheadrightarrow</code>	\twoheadleftarrow	<code>\twoheadleftarrow</code>
\curvearrowright	<code>\curvearrowright</code>	\curvearrowleft	<code>\curvearrowleft</code>
\circlearrowright	<code>\circlearrowright</code>	\circlearrowleft	<code>\circlearrowleft</code>
\dashrightarrow	<code>\dashrightarrow</code>	\dashleftarrow	<code>\dashleftarrow</code>
\Rsh	<code>\Rsh</code>	\Lsh	<code>\Lsh</code>
\upuparrows	<code>\upuparrows</code>	\downdownarrows	<code>\downdownarrows</code>
\mapsto	<code>\mapsto</code>	\rightsquigarrow	<code>\rightsquigarrow</code>
\longmapsto	<code>\longmapsto</code>	\leadsto	<code>\leadsto</code>

Mathematical Operators

The following operators have two different sizes

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\prod	Π	<code>\prod</code>	\coprod	\amalg	<code>\coprod</code>
\sum	Σ	<code>\sum</code>	\bigcup	\cup	<code>\bigcup</code>
\int	$\textstyle\int$	<code>\int</code>	\bigcap	\cap	<code>\bigcap</code>
\oint	\oint	<code>\oint</code>	\biguplus	\uplus	<code>\biguplus</code>
\iint	$\textstyle\iint$	<code>\iint</code>	\bigsqcup	\sqcup	<code>\bigsqcup</code>
\iiint	$\textstyle\iiint$	<code>\iiint</code>	\bigvee	\vee	<code>\bigvee</code>
\iiiiint	$\textstyle\iiiiint$	<code>\iiiiint</code>	\bigwedge	\wedge	<code>\bigwedge</code>
\dots	\dots	<code>\dots</code>	\bigoplus	\oplus	<code>\bigoplus</code>
\dots	\dots	<code>\dots</code>	\bigotimes	\otimes	<code>\bigotimes</code>
\dots	\dots	<code>\dots</code>	\odot	\odot	<code>\odot</code>

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Pure Functions

Please note that $\sin x$ (`\sin x`) and $\sin x$ (`\sin x`) look totally different.

sin	<code>\sin</code>	arcsin	<code>\arcsin</code>	sinh	<code>\sinh</code>
cos	<code>\cos</code>	arccos	<code>\arccos</code>	cosh	<code>\cosh</code>
tan	<code>\tan</code>	arctan	<code>\arctan</code>	tanh	<code>\tanh</code>
cot	<code>\cot</code>	arg	<code>\arg</code>	coth	<code>\coth</code>
sec	<code>\sec</code>	$m \bmod n$	<code>\mod n</code>	lg	<code>\lg</code>
csc	<code>\csc</code>	$m \bmod n$	<code>\bmod n</code>	log	<code>\log</code>
ln	<code>\ln</code>	$m \pmod n$	<code>\pmod n</code>	exp	<code>\exp</code>
dim	<code>\dim</code>	$m(n)$	<code>\pod n</code>	hom	<code>\hom</code>
deg	<code>\deg</code>			ker	<code>\ker</code>

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Functions with Limits

The following functions may take limits below: $\lim_{x \rightarrow 0}$

This is written as: `\lim_{x \rightarrow 0}`

min	<code>\min</code>	lim inf	<code>\liminf</code>
max	<code>\max</code>	<u>lim</u>	<code>\varliminf</code>
inf	<code>\inf</code>	lim sup	<code>\limsup</code>
sup	<code>\sup</code>	<u>lim</u>	<code>\varlimsup</code>
det	<code>\det</code>	inj lim	<code>\injlim</code>
gcd	<code>\gcd</code>	\varinjlim	<code>\varinjlim</code>
Pr	<code>\Pr</code>	proj lim	<code>\projlim</code>
lim	<code>\lim</code>	\varprojlim	<code>\varprojlim</code>

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\Im	<code>\Im</code>	ℓ	<code>\ell</code>
\Re	<code>\Re</code>	∂	<code>\partial</code>
\wp	<code>\wp</code>	\eth	<code>\eth</code>
\top	<code>\top</code>	\imath	<code>\imath</code>
\bot	<code>\bot</code>	\jmath	<code>\jmath</code>
\forall	<code>\forall</code>	\Bbbk	<code>\Bbbk</code>
\exists	<code>\exists</code>	\exists	<code>\exists</code>
\nexists	<code>\nexists</code>	\Game	<code>\Game</code>
\neg	<code>\neg</code>	∞	<code>\infty</code>
\in	<code>\in</code>	\emptyset	<code>\emptyset</code>
\notin	<code>\notin</code>	\varnothing	<code>\varnothing</code>
\ni	<code>\ni</code>	\angle	<code>\angle</code>
\complement	<code>\complement</code>	\measuredangle	<code>\measuredangle</code>
\hbar	<code>\hbar</code>	\sphericalangle	<code>\sphericalangle</code>
\hslash	<code>\hslash</code>	\smallint	<code>\smallint</code>

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∇	<code>\nabla</code>	\backslash	<code>\backslash</code>
\mho	<code>\mho</code>	\diagdown	<code>\diagdown</code>
\square	<code>\square</code>	\diagup	<code>\diagup</code>
\Box	<code>\Box</code>	\blacksquare	<code>\blacksquare</code>
\triangle	<code>\triangle</code>	\diamondsuit	<code>\Diamond</code>
\vartriangle	<code>\vartriangle</code>	\blacktriangle	<code>\blacktriangle</code>
\triangledown	<code>\triangledown</code>	\blacktriangledown	<code>\blacktriangledown</code>
\lozenge	<code>\lozenge</code>	\blacklozenge	<code>\blacklozenge</code>
\surd	<code>\surd</code>	\heartsuit	<code>\heartsuit</code>
\checkmark	<code>\checkmark</code>	\diamondsuit	<code>\diamondsuit</code>
\sharp	<code>\sharp</code>	\spadesuit	<code>\spadesuit</code>
\natural	<code>\natural</code>	\clubsuit	<code>\clubsuit</code>
\flat	<code>\flat</code>	\star	<code>\star</code>
\prime	<code>\prime</code>	\bigstar	<code>\bigstar</code>
\backprime	<code>\backprime</code>	\circledR	<code>\circledR</code>
\mapstochar	<code>\mapstochar</code>	\circledS	<code>\circledS</code>

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ABCDEFHIJKLMNOP
OPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

`\mathnormal{...}`

ABCDEFHIJKLMNOP
OPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

`\mathrm{...}`

ABCDEFHIJKLMNOP
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abcdefghijklmnopqrstuvwxyz
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`\mathsf{...}`

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A**B****C****D****E****F****G****H****I****J****K****L****M**
O**P****Q****R****S****T****U****V****W****X****Y****Z**
*a**b**c**d**e**f**g**h**i**j**k**l**m**n**o**p**q**r**s**t**u**v**w**x**y*
1**2****3****4****5****6****7****8****9****0**

`\mathbf{...}`

*A**B**C**D**E**F**G**H**I**J**K**L**M*
*O**P**Q**R**S**T**U**V**W**X**Y**Z*
*a**b**c**d**e**f**g**h**i**j**k**l**m**n**o**p**q**r**s**t**u**v**w**x**y*
1**2****3****4****5****6****7****8****9****0**

`\mathit{...}`

A**B****C****D****E****F****G****H****I****J****K****L****M**
O**P****Q****R****S****T****U****V****W****X****Y****Z**
*a**b**c**d**e**f**g**h**i**j**k**l**m**n**o**p**q**r**s**t**u**v**w**x**y*
1**2****3****4****5****6****7****8****9****0**

`\mathtt{...}`

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ΩΡΩΣΤΥΩΩΧΩΖ
αβγδεφγηιγκλμνορστυωωχηζ
1234567890

\mathfrak{...}

ABCDEFGHIJKLMN
OPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890
 $\alpha\beta\pi\theta\Phi\Psi\Omega\dots$
 $\in\hbar\partial\nabla\leftarrow\infty\emptyset\Box\dots$

\boldsymbol{...}

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*A B C D E F G H I J K L M N
O P Q R S T U V W X Y Z*

(Include `\usepackage{mathrsfs}`
before `\begin{document}`)

`\mathscr{...}`

*A B C D E F G H I J K L M N
O P Q R S T U V W X Y Z*

`\mathcal{...}`

*A B C D E F G H I J K L M N
O P Q R S T U V W X Y Z*

`\mathbb{...}`

Brackets

These are variable sized

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(())
[[]]
	\vert		\Vert
{	\{	}	\}
<	\langle	>	\rangle
\lceil	\lceil	\rceil	\rceil
\lfloor	\lfloor	\rfloor	\rfloor
\lgroup	\lgroup	\rgroup	\rgroup
\lvert	\lvert	\rvert	\rvert
\lVert	\lVert	\rVert	\rVert
\lmoustache	\lmoustache	\rmoustache	\rmoustache
\arrowvert	\arrowvert	\Arrowvert	\Arrowvert
\backslash	\backslash	\bracevert	\bracevert

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⊜ \ulcorner

⊲ \llcorner

⊸ \uparrow

⊸ \downarrow

⊸ \updownarrow

⊜ \urcorner

⊲ \lrcorner

⊸ \Uparrow

⊸ \Downarrow

⊸ \Updownarrow

˜ \tilde{a}

ˆ \hat{a}

ˇ \check{a}

vec{a}

bar{a}

acute{a}

grave{a}

ă \breve{a}

ȧ \dot{a}

ä \ddot{a}

ẅ \dddot{a}

ẅẅẅ \ddddd{a}

å \mathring{a}

Dots

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...	<code>\ldots</code>	lower dots
...	<code>\cdots</code>	center dots
...	<code>\ddots</code>	diagonal dots
:	<code>\vdots</code>	vertical dots
.....	<code>\dotfill</code>	fill with dots
...	<code>\dots</code>	lower or center
...	<code>\dotsm</code>	multiplication
...	<code>\dotsi</code>	dots for integrals
...	<code>\dotsb</code>	dots for binary op.
...	<code>\dotsc</code>	dots after commas
...	<code>\dotso</code>	other dots
.	<code>\ldotp</code>	
.	<code>\cdotp</code>	
:	<code>\colon</code>	

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 \overbrace{abc}

```
\overbrace{abc}
```

 \underbrace{abc}

```
\underbrace{abc}
```

 \xleftarrow{abc}

```
\xleftarrow{abc}
```

 \xrightarrow{abc}

```
\xrightarrow{abc}
```

 \sqrt{abc}

```
\sqrt{abc}
```

 \widetilde{abc}

```
\widetilde{abc}
```

 \widehat{abc}

```
\widehat{abc}
```

 \overline{abc}

```
\overline{abc}
```

 \underline{abc}

```
\underline{abc}
```

 \overrightarrow{abc}

```
\overrightarrow{abc}
```

 \overleftarrow{abc}

```
\overleftarrow{abc}
```

 \overleftrightarrow{abc}

```
\overleftrightarrow{abc}
```

 \underrightarrow{abc}

```
\underrightarrow{abc}
```

 \underleftarrow{abc}

```
\underleftarrow{abc}
```

 $\underleftrightarrow{abc}$

```
\underleftrightarrow{abc}
```

Textcomp I

Include `\usepackage{textcomp}` before `\begin{document}`

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\$	<code>\textdollar</code>	\$	<code>\textdollaroldstyle</code>
¢	<code>\textcent</code>	¢	<code>\textcentoldstyle</code>
€	<code>\texteuro</code>	₵	<code>\textcolonmonetary</code>
¥	<code>\textyen</code>	↓	<code>\textdownarrow</code>
£	<code>\textsterling</code>	→	<code>\textrightarrow</code>
₺	<code>\textlira</code>	←	<code>\textleftarrow</code>
฿	<code>\textbaht</code>	↑	<code>\textuparrow</code>
₲	<code>\textguarani</code>	”	<code>\textacutedbl</code>
đ	<code>\textdong</code>	ˇ	<code>\textasciicaron</code>
₦	<code>\textnaira</code>	—	<code>\textascimacron</code>
₱	<code>\textpeso</code>	ˊ	<code>\textasciacute</code>
₩	<code>\textwon</code>	„	<code>\textasciidieresis</code>
¤	<code>\textcurrency</code>	“	<code>\textgravedbl</code>
f	<code>\textflorin</code>	ˇ	<code>\textascibreve</code>
Â	<code>\newtie{A}</code>	ˋ	<code>\textasciigrave</code>
â	<code>\newtie{a}</code>	R	<code>\textrecipe</code>

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(P)	\textcircledP	0	\textzerooldstyle
(C)	\textcopyright	1	\textoneoldstyle
SM	\textservice	2	\texttwooldstyle
(C)	\textcopy	3	\textthreeoldstyle
(R)	\textregistered	4	\textfouroldstyle
TM	\texttrademark	5	\textfiveoldstyle
°	\textdegree	6	\textsixoldstyle
½	\textonehalf	7	\textsevenoldstyle
¼	\textonequarter	8	\texteightoldstyle
¾	\textthreequarters	9	\textnineoldstyle
—	\textminus	¹	\textonesuperior
±	\textpm	²	\texttwosuperior
÷	\textdiv	³	\textthreesuperior
×	\texttimes	¬	\textlnot
√	\textsurd		

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	\textbrokenbar	♪	\textmusicalnote
	\textbardbl	<	\textlangle
¶	\textparagraph	>	\textrangle
¶	\textpilcrow	[],[\textlbrackdbl
○	\textbigcircle	[],]	\textrbrackdbl
b	\textblank	{,	\textlquill
†	\textdagger	},	\textrquill
‡	\textdaggerdbl	°C	\textcelsius
%	\textdiscount	μ	\textmu
~	\texttildelow	Ω	\textohm
№	\textnumero	Ū	\textmho
e	\textestimated	★	\textborn
§	\textsection	օօ	\textdivorced
'	\textquotesingle	օօ	\textmarried
•	\textbullet	†	\textdied
◦	\textopenbullet	leaf	\textleaf

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※	\textreferencemark
%000	\textpertenthousand
%00	\textperthousand
*	\textasteriskcentered
.	\textperiodcentered
¤	\textordfeminine
¤	\textordmasculine
/	\textfractionsolidus
=	\textdblhyphen
=	\textdblhyphenchar
,	\textquotestraightbase
!!	\textquotestraightdblbase
‽	\textinterrobang
‽	\textinterrobangdown
—	\textthreequartersemdash
—	\texttwelveudash

Marvosym I

Include `\usepackage{marvosym}` before `\begin{document}`

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€	<code>\EUR</code>	ℳ	<code>\Denarius</code>
€	<code>\EURdig</code>	ℳ	<code>\Shilling</code>
€	<code>\EURtm</code>	ℳ	<code>\Anglesign</code>
€	<code>\EURcr</code>	·	<code>\Squaredot</code>
€	<code>\EURhv</code>	≡	<code>\Corresponds</code>
ℳ	<code>\Pfund</code>	→	<code>\Vectorarrow</code>
ℳ	<code>\Ecommerce</code>	→	<code>\Vectorarrowhigh</code>
\$	<code>\EyesDollar</code>	→	<code>\MVRrightarrow</code>

†	<code>\Ankh</code>	Ѡ	<code>\Womanface</code>
†	<code>\Cross</code>	Ѡ	<code>\MartinVogel</code>
‡	<code>\Celtcross</code>	Ѡ	<code>\Bouquet</code>
♡	<code>\Heart</code>	Ѡ	<code>\Mundus</code>
🦇	<code>\Bat</code>	Ѡ	<code>\Yinyang</code>
FH	<code>\FHBologo</code>	Ѡ	<code>\Smiley</code>
FH	<code>\FHBOLOGO</code>	Ѡ	<code>\Frowny</code>
FH	<code>\FullFHB0</code>	Ⓐ	<code>\CircledA</code>

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

♀	\Female	♂	\Male
●	\FEMALE	□	\MALE
◊	\FemaleFemale	♂◊	\MaleMale
◊♂	\FemaleMale	○	\Neutral
♂◊	\Hermaphrodite	◊♂	\HERMAPHRODITE

▶	\Forward	▲	\ToTop
◀	\Rewind	▼	\ToBottom
▶▶	\ForwardToEnd	◀◀	\RewindToStart
▼	\MoveDown	▶▶	\ForwardToIndex
▲	\MoveUp	◀◀	\RewindToIndex

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\Mercury

\Venus

\Earth

\Mars

\Jupiter

\Saturn

\Uranus

\Neptune

\Pluto

\Moon

\Sun

\Aries

\Taurus

\Gemini

\Cancer

\Leo

\Virgo

\Libra

\Scorpio

\Sagittarius

\Capricorn

\Aquarius

\Pisces

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\Cutright

\Leftscissors

\Rightscissors

\Cutline

\Kutline

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☣ \Biohazard	ⓧ \BSEfree
CE \CEsign	▲ \Estatically
EXEMPLARY \Explosionsafe	STOP \Stopsign
☢ \Radioactivity	★ \Laserbeam
L \Lsteel	● \Circsteel
T \Tsteel	■ \Squaresteel
I \TTsteel	■ \Rectsteel
L \RoundedTsteel	◆ \Hexasteel
T \RoundedLsteel	● \Octosteel
I \RoundedTTsteel	— \Flatsteel
↓ \Force	○ \Circpipe
— \Beam	□ \Squarepipe
△ \Bearing	□ \Rectpipe
△ \Fixedbearing	↶ \Lefttorque
△ \Loosebearing	↷ \Righttorque
↔ \Lineload	

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 \Email	 \Bicycle
 \fax	 \Football
 \Faxmachine	 \Pointinghand
 \Lightning	 \Checkedbox
 \Pickup	 \Gentsroom
 \Emailct	 \Ladiesroom
 \FAX	 \Wheelchair
 \Letter	 \Clocklogo
 \Mobilefone	 \Industry
 \Telefon	 \Writinghand
 \Info	 \Coffeecup
 \MVAt	 \Crossedbox

 \ComputerMouse	 \SerialInterface
 \ParallelPort	 \Keyboard
 \SerialPort	 \Printer

Marvosym VI

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Ⓐ	\CleaningA		\AtForty
Ⓕ	\CleaningF		\AtSixty
Ⓕ	\CleaningFF		\AtNinetyFive
Ⓟ	\CleaningP		\ShortThirty
Ⓟ	\CleaningPP		\ShortForty
ⓧ	\Tumbler		\ShortFifty
ⓧ	\NoTumbler		\ShortSixty
ⓧ	\NoChemicalCleaning		\ShortNinetyFive
△	\Bleech		\SpecialForty
△	\NoBleech		\WashCotton
Ⓣ	\IroningI		\WashSynthetics
Ⓣ	\IroningII		\WashWool
Ⓣ	\IroningIII		\Handwash
Ⓣ	\NoIroning		\Dontwash

Pifont I

Include `\usepackage{pifont}` before `\begin{document}`

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☎	<code>\ding{37}</code>	✖	<code>\ding{53}</code>	❖	<code>\ding{69}</code>
⌚	<code>\ding{38}</code>	✖	<code>\ding{54}</code>	◆	<code>\ding{70}</code>
⌚⌚	<code>\ding{39}</code>	✖	<code>\ding{55}</code>	❖	<code>\ding{71}</code>
✈	<code>\ding{40}</code>	✖	<code>\ding{56}</code>	★	<code>\ding{72}</code>
✉	<code>\ding{41}</code>	✚	<code>\ding{57}</code>	☆	<code>\ding{73}</code>
☛	<code>\ding{42}</code>	✚	<code>\ding{58}</code>	●	<code>\ding{74}</code>
☛☛	<code>\ding{43}</code>	✚	<code>\ding{59}</code>	☆	<code>\ding{75}</code>
✌	<code>\ding{44}</code>	❖	<code>\ding{60}</code>	☆	<code>\ding{76}</code>
✉☛	<code>\ding{45}</code>	†	<code>\ding{61}</code>	☆	<code>\ding{77}</code>
✎	<code>\ding{46}</code>	†	<code>\ding{62}</code>	☆	<code>\ding{78}</code>
✎✎	<code>\ding{47}</code>	†	<code>\ding{63}</code>	☆	<code>\ding{79}</code>
✎✎✎	<code>\ding{48}</code>	✖	<code>\ding{64}</code>	☆	<code>\ding{80}</code>
♾	<code>\ding{49}</code>	✡	<code>\ding{65}</code>	*	<code>\ding{81}</code>
❖❖	<code>\ding{50}</code>	✚	<code>\ding{66}</code>	*	<code>\ding{82}</code>
✓	<code>\ding{51}</code>	❖	<code>\ding{67}</code>	*	<code>\ding{83}</code>
✓✓	<code>\ding{52}</code>	❖	<code>\ding{68}</code>	*	<code>\ding{84}</code>

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✳ \ding{86}	✳ \ding{102}	❖ \ding{118}
✳ \ding{87}	✳ \ding{103}	▷ \ding{119}
✳ \ding{88}	✳ \ding{104}	\ding{120}
✳ \ding{89}	✳ \ding{105}	\ding{121}
✳ \ding{90}	✳ \ding{106}	■ \ding{122}
✳ \ding{91}	✳ \ding{107}	‘ \ding{123}
✳ \ding{92}	● \ding{108}	’ \ding{124}
✳ \ding{93}	○ \ding{109}	“ \ding{125}
✳ \ding{94}	■ \ding{110}	” \ding{126}
✿ \ding{95}	□ \ding{111}	⌚ \ding{161}
✿ \ding{96}	□ \ding{112}	⌚ \ding{162}
✿ \ding{97}	□ \ding{113}	⌚ \ding{163}
✿ \ding{98}	□ \ding{114}	❤ \ding{164}
✳ \ding{99}	▲ \ding{115}	⌚ \ding{165}
✳ \ding{100}	▼ \ding{116}	⌚ \ding{166}

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♦	\ding{168}	②	\ding{183}	⑧	\ding{199}
♥	\ding{169}	③	\ding{184}	⑨	\ding{200}
♦	\ding{170}	④	\ding{185}	⑩	\ding{201}
♠	\ding{171}	⑤	\ding{186}	①	\ding{202}
①	\ding{172}	⑥	\ding{187}	②	\ding{203}
②	\ding{173}	⑦	\ding{188}	③	\ding{204}
③	\ding{174}	⑧	\ding{189}	④	\ding{205}
④	\ding{175}	⑨	\ding{190}	⑤	\ding{206}
⑤	\ding{176}	⑩	\ding{191}	⑥	\ding{207}
⑥	\ding{177}	①	\ding{192}	⑦	\ding{208}
⑦	\ding{178}	②	\ding{193}	⑧	\ding{209}
⑧	\ding{179}	③	\ding{194}	⑨	\ding{210}
⑨	\ding{180}	④	\ding{195}	⑩	\ding{211}
⑩	\ding{181}	⑤	\ding{196}		
		⑥	\ding{197}		

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→ \ding{212}	► \ding{228}	⇒ \ding{245}
→ \ding{213}	➤ \ding{229}	↗ \ding{246}
↔ \ding{214}	➤ \ding{230}	⤠ \ding{247}
↑ \ding{215}	➤ \ding{231}	⤡ \ding{248}
↘ \ding{216}	➤ \ding{232}	⤢ \ding{249}
→ \ding{217}	⇒ \ding{233}	⤣ \ding{250}
↗ \ding{218}	⇒ \ding{234}	⤤ \ding{251}
→ \ding{219}	⇒ \ding{235}	⤥ \ding{252}
→ \ding{220}	⇒ \ding{236}	⤦ \ding{253}
→ \ding{221}	⇒ \ding{237}	⤧ \ding{254}
→ \ding{222}	⇒ \ding{238}	⤨ \ding{33}
⇒ \ding{223}	⇒ \ding{239}	⤩ \ding{34}
⇒ \ding{224}	⇒ \ding{241}	⤪ \ding{35}
⇒ \ding{225}	⤠ \ding{242}	⤫ \ding{36}
➤ \ding{226}	⤡ \ding{243}	
➤ \ding{227}	⤢ \ding{244}	

Chemarrow

Include `\usepackage{chemarrow}` before `\begin{document}`

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abc



`\autorightarrow{abc}{def}`

def

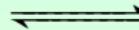
abc



`\autoleftarrow{abc}{def}`

def

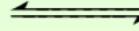
abc



`\autorightleftharpoons{abc}{def}`

def

abc



`\autoleftrightharpoons{abc}{def}`

def



`\chemarrow`