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Sermutlu

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L^AT_EX and $\mathcal{A}\mathcal{M}\mathcal{S}$ -L^AT_EX Symbols

Emre Sermutlu

March 17, 2008

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- This document lists symbols in standard LaTeX, $\mathcal{A}\mathcal{M}\mathcal{S}$ -L^AT_EX 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 T_xfonts) at academic.cankaya.edu.tr/~sermutlu.

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Note About Packages

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- I did not separate the the $\mathcal{A}\mathcal{M}\mathcal{S}$ -L^AT_EX 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 L^AT_EX. 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 L^AT_EX, 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 L^AT_EX. 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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\$	\\$	Ü	\" {U}	©	\copyright
&	\&	İ	\. {I}	®	\circledR
#	\#	Ğ	\~ {G}	Ⓐ	\textcircled{a}
%	\%	Ä	\H {A}	™	\texttrademark
{	\{	Ò	\‘ {O}	✓	\checkmark
}	\}	Ê	\^ {C}	£	\pounds
-	\-	Č	\v {C}	✠	\maltese
¶	\P	Ț	\r {T}	•	\textbullet
§	\S	Ȑ	\’ {P}	\	\textbackslash
†	\dag	Ě	\u {M}		\textbar
‡	\ddag	Ñ	\= {N}	-	_
ı	\i	Ē	\b {E}	-	\textendash
J	\j	Š	\c {S}	—	\textemdash
BB	\t {BB}	ƒ	\d {F}	<	\textless
				>	\textgreater

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...	<code>\dots</code>	~	<code>\textasciitilde</code>
l	<code>\l</code>	^	<code>\textasciicircum</code>
L	<code>\L</code>	j	<code>\textexclamdown</code>
ø	<code>\o</code>	¿	<code>\textquestiondown</code>
Ø	<code>\O</code>	‘	<code>\textquoteleft</code>
å	<code>\aa</code>	’	<code>\textquoteright</code>
Å	<code>\AA</code>	“	<code>\textquotedblleft</code>
ß	<code>\ss</code>	”	<code>\textquotedblright</code>
SS	<code>\SS</code>	␣	<code>\textvisiblespace</code>
æ	<code>\ae</code>	♂	<code>\textordmasculine</code>
Æ	<code>\AE</code>	♀	<code>\textordfeminine</code>
œ	<code>\oe</code>	*	<code>\textasteriskcentered</code>
Œ	<code>\OE</code>	.	<code>\textperiodcentered</code>

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>	\pounds	<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>	\varnothing	<code>\varnothing</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>	\ast	<code>\ast</code>
\vee	<code>\vee</code>	\cdot	<code>\cdot</code>	\dagger	<code>\dag</code>
\wedge	<code>\wedge</code>	\cdot	<code>\centerdot</code>	\ddagger	<code>\ddag</code>
\forall	<code>\forall</code>	\copyright	<code>\copyright</code>	\bullet	<code>\bullet</code>
\exists	<code>\exists</code>	\Maltese	<code>\maltese</code>	\wr	<code>\wr</code>

Greek Letters

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α `\alpha`

β `\beta`

γ `\gamma`

δ `\delta`

λ `\lambda`

ω `\omega`

ψ `\psi`

χ `\chi`

ρ `\rho`

ϵ `\epsilon`

κ `\kappa`

π `\pi`

ϕ `\phi`

σ `\sigma`

θ `\theta`

υ `\upsilon`

ξ `\xi`

τ `\tau`

ι `\iota`

η `\eta`

ζ `\zeta`

μ `\mu`

ν `\nu`

ϱ `\varrho`

ε `\varepsilon`

\varkappa `\varkappa`

ϖ `\varpi`

φ `\varphi`

ς `\varsigma`

ϑ `\vartheta`

Greek and Hebrew Letters

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Γ	<code>\Gamma</code>	\varGamma	<code>\varGamma</code>
Δ	<code>\Delta</code>	\varDelta	<code>\varDelta</code>
Λ	<code>\Lambda</code>	\varLambda	<code>\varLambda</code>
Ω	<code>\Omega</code>	\varOmega	<code>\varOmega</code>
Π	<code>\Pi</code>	\varPi	<code>\varPi</code>
Φ	<code>\Phi</code>	\varPhi	<code>\varPhi</code>
Ψ	<code>\Psi</code>	\varPsi	<code>\varPsi</code>
Σ	<code>\Sigma</code>	\varSigma	<code>\varSigma</code>
Θ	<code>\Theta</code>	\varTheta	<code>\varTheta</code>
Υ	<code>\Upsilon</code>	\varUpsilon	<code>\varUpsilon</code>
Ξ	<code>\Xi</code>	\varXi	<code>\varXi</code>
\digamma	<code>\digamma</code>		

\aleph	<code>\aleph</code>	\gimel	<code>\gimel</code>
\beth	<code>\beth</code>	\daleth	<code>\daleth</code>

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\oplus `\oplus`

\ominus `\ominus`

\otimes `\otimes`

\odot `\odot`

\oslash `\oslash`

\circ `\circ`

\bigcirc `\bigcirc`

\odot `\circledcirc`

\ominus `\circledddash`

\circledast `\circledast`

\amalg `\amalg`

\cup `\cup`

\sqcup `\sqcup`

\sqcup `\sqcup`

\leftthreetimes `\leftthreetimes`

\uplus `\uplus`

\boxplus `\boxplus`

\boxminus `\boxminus`

\boxtimes `\boxtimes`

\boxdot `\boxdot`

\divideontimes `\divideontimes`

\intercal `\intercal`

$\dot{+}$ `\dotplus`

\setminus `\setminus`

\smallsetminus `\smallsetminus`

\centerdot `\centerdot`

\diamond `\diamond`

\cap `\cap`

\cap `\Cap`

\sqcap `\sqcap`

\rightthreetimes `\rightthreetimes`

\backepsilon `\backepsilon`

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\vee `\vee`

\curlyvee `\curlyvee`

$\underline{\vee}$ `\veebar`

\ltimes `\ltimes`

\rtimes `\rtimes`

\dashv `\dashv`

\vdash `\vdash`

\Vdash `\Vdash`

\Vdash `\Vdash`

\models `\models`

\Vdash `\Vdash`

\bowtie `\bowtie`

\Join `\Join`

\because `\because`

\therefore `\therefore`

$\&$ `\And`

\wedge `\wedge`

\curlywedge `\curlywedge`

$\bar{\wedge}$ `\barwedge`

$\overline{\overline{\wedge}}$ `\doublebarwedge`

\dagger `\dagger`

\ddagger `\ddagger`

\nvdash `\nvdash`

\nVdash `\nVdash`

\nVdash `\nVdash`

\nVDash `\nVDash`

\pitchfork `\pitchfork`

\smile `\smile`

\smile `\smallsmile`

\frown `\frown`

\frown `\smallfrown`

\bullet `\bullet`

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\cong

`\cong`

\preccurlyeq

`\preccurlyeq`

\curlyeqprec

`\curlyeqprec`

\prec

`\prec`

\preceq

`\preceq`

\approx

`\approx`

\sim

`\sim`

\succ

`\succ`

\succeq

`\succeq`

\approx

`\approx`

\sim

`\sim`

\ncong

`\ncong`

\succcurlyeq

`\succcurlyeq`

\curlyeqsucc

`\curlyeqsucc`

\nprec

`\nprec`

\npreceq

`\npreceq`

\approx

`\approx`

\sim

`\sim`

\nsucc

`\nsucc`

\nsucceq

`\nsucceq`

\approx

`\approx`

\sim

`\sim`

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$ $	<code>\mid</code>	\dagger	<code>\nmid</code>
$ $	<code>\shortmid</code>	\intercal	<code>\nshortmid</code>
\parallel	<code>\parallel</code>	\nparallel	<code>\nparallel</code>
\parallel	<code>\shortparallel</code>	\nshortparallel	<code>\nshortparallel</code>
\sim	<code>\sim</code>	\nsim	<code>\nsim</code>
\thicksim	<code>\thicksim</code>	\doteq	<code>\doteq</code>
\simeq	<code>\simeq</code>	\doteqdot	<code>\doteqdot</code>
\backsim	<code>\backsim</code>	\between	<code>\between</code>
\backsimeq	<code>\backsimeq</code>	\asymp	<code>\asymp</code>
\approx	<code>\approx</code>	\fallingdotseq	<code>\fallingdotseq</code>
\thickapprox	<code>\thickapprox</code>	\risingdotseq	<code>\risingdotseq</code>
\approxeq	<code>\approxeq</code>	\bumpeq	<code>\bumpeq</code>
\equiv	<code>\equiv</code>	\Bumpeq	<code>\Bumpeq</code>
\propto	<code>\propto</code>	\circeq	<code>\circeq</code>
\varpropto	<code>\varpropto</code>	\eqcirc	<code>\eqcirc</code>
\multimap	<code>\multimap</code>	\perp	<code>\perp</code>

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\subset `\subset`

\subseteq `\subseteq`

\subseteqq `\subseteqq`

\sqsubset `\sqsubset`

\sqsubseteq `\sqsubseteq`

\Subset `\Subset`

$\not\subseteq$ `\not\subseteq`

\subsetneq `\subsetneq`

\varsubsetneq `\varsubsetneq`

\nsubseteqq `\nsubseteqq`

\subsetneqq `\subsetneqq`

\varsubsetneqq `\varsubsetneqq`

\supset `\supset`

\supseteq `\supseteq`

\supseteqq `\supseteqq`

\sqsupset `\sqsupset`

\sqsupseteq `\sqsupseteq`

\Supset `\Supset`

$\not\supseteq$ `\not\supseteq`

\supsetneq `\supsetneq`

\varsupsetneq `\varsupsetneq`

$\not\supseteqq$ `\not\supseteqq`

\supsetneqq `\supsetneqq`

\varsupsetneqq `\varsupsetneqq`

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$<$ `<`

$>$ `>`

\leqslant `\leqslant`

\geqslant `\geqslant`

\leq `\leq`

\geq `\geq`

\leqslant `\leqq`

\geqslant `\geqq`

\leqslantless `\leqslantless`

\geqslantgtr `\geqslantgtr`

\lneq `\lneq`

\gneq `\gneq`

\nless `\nless`

\ngtr `\ngtr`

\nleqslant `\nleqslant`

\ngeqslant `\ngeqslant`

\nleq `\nleq`

\ngeq `\ngeq`

\nleqq `\nleqq`

\ngeqq `\ngeqq`

\lneqq `\lneqq`

\gneqq `\gneqq`

\lvertneqq `\lvertneqq`

\gvertneqq `\gvertneqq`

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\ll \ll

\gg \gg

\lesssim \lesssim

\gtrsim \gtrsim

\lessapprox \lessapprox

\gtrapprox \gtrapprox

\lessgtr \lessgtr

\gtrless \gtrless

\lesseqgtr \lesseqgtr

\gtreqless \gtreqless

\lll \lll

\ggg \ggg

\lnsim \lnsim

\gnsim \gnsim

\lnapprox \lnapprox

\gnapprox \gnapprox

\lessdot \lessdot

\gtrdot \gtrdot

\lesseqqgtr \lesseqqgtr

\gtreqqless \gtreqqless

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\triangle	<code>\bigtriangleup</code>
\triangleright	<code>\triangleright</code>
\ntriangleright	<code>\ntriangleright</code>
\vartriangleright	<code>\vartriangleright</code>
\rhd	<code>\rhd</code>
\unrhd	<code>\unrhd</code>
\trianglelefteq	<code>\trianglelefteq</code>
\ntrianglelefteq	<code>\ntrianglelefteq</code>
\blacktriangleright	<code>\blacktriangleright</code>
\trianglelefteq	<code>\trianglelefteq</code>

∇	<code>\bigtriangledown</code>
\triangleleft	<code>\triangleleft</code>
\ntriangleleft	<code>\ntriangleleft</code>
\vartriangleleft	<code>\vartriangleleft</code>
\lhd	<code>\lhd</code>
\unlhd	<code>\unlhd</code>
\trianglelefteq	<code>\trianglelefteq</code>
\ntrianglelefteq	<code>\ntrianglelefteq</code>
\blacktriangleleft	<code>\blacktriangleleft</code>

\rightarrow	<code>\rightarrow</code>
\rightrightarrows	<code>\rightrightarrows</code>
\rightleftharpoons	<code>\rightleftharpoons</code>
\upharpoonright	<code>\upharpoonright</code>
\downharpoonright	<code>\downharpoonright</code>

\leftarrow	<code>\leftarrow</code>
\leftrightharpoons	<code>\leftrightharpoons</code>
\leftrightharpoons	<code>\leftrightharpoons</code>
\upharpoonleft	<code>\upharpoonleft</code>
\downharpoonleft	<code>\downharpoonleft</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>
\nrightarrow	<code>\nrightarrow</code>	\nleftarrow	<code>\nleftarrow</code>
\nRightarrow	<code>\nRightarrow</code>	\nLeftarrow	<code>\nLeftarrow</code>
\updownarrow	<code>\updownarrow</code>	\nleftrightarrow	<code>\nleftrightarrow</code>
\Updownarrow	<code>\Updownarrow</code>	\leftrightharpoonup	<code>\leftrightharpoonup</code>
\nearrow	<code>\nearrow</code>	\Leftrightarrow	<code>\Leftrightarrow</code>
\nwarrow	<code>\nwarrow</code>	\longleftrightarrow	<code>\longleftrightarrow</code>
\swarrow	<code>\swarrow</code>	\Longleftrightarrow	<code>\Longleftrightarrow</code>
\searrow	<code>\searrow</code>	\leftrightsquigarrow	<code>\leftrightsquigarrow</code>
\iff	<code>\iff</code>		

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\Rightarrow	<code>\rightrightarrows</code>	\Leftarrow	<code>\leftleftarrows</code>
\Leftrightarrow	<code>\rightleftarrows</code>	\Leftrightarrow	<code>\leftrightharpoons</code>
\Rightarrow	<code>\Rrightarrow</code>	\Leftarrow	<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>
\Uparrow	<code>\upuparrows</code>	\Downarrow	<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 \prod $\backslash prod$ \sum \sum $\backslash sum$ \int \int $\backslash int$ \oint \oint $\backslash oint$ \iint \iint $\backslash iint$ \iiint \iiint $\backslash iiint$ \iiint \iiint $\backslash iiiint$ $\int \cdots \int$ $\int \cdots \int$ $\backslash idotsint$ \coprod \coprod $\backslash coprod$ \bigcup \bigcup $\backslash bigcup$ \bigcap \bigcap $\backslash bigcap$ \biguplus \biguplus $\backslash biguplus$ \bigsqcup \bigsqcup $\backslash bigsqcup$ \bigvee \bigvee $\backslash bigvee$ \bigwedge \bigwedge $\backslash bigwedge$ \bigoplus \bigoplus $\backslash bigoplus$ \bigotimes \bigotimes $\backslash bigotimes$ \bigodot \bigodot $\backslash bigodot$

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Pure Functions

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

<code>\sin</code>	<code>\sin</code>	<code>\arcsin</code>	<code>\arcsin</code>	<code>\sinh</code>	<code>\sinh</code>
<code>\cos</code>	<code>\cos</code>	<code>\arccos</code>	<code>\arccos</code>	<code>\cosh</code>	<code>\cosh</code>
<code>\tan</code>	<code>\tan</code>	<code>\arctan</code>	<code>\arctan</code>	<code>\tanh</code>	<code>\tanh</code>
<code>\cot</code>	<code>\cot</code>	<code>\arg</code>	<code>\arg</code>	<code>\coth</code>	<code>\coth</code>
<code>\sec</code>	<code>\sec</code>	$m \bmod n$	<code>m \mod n</code>	<code>\lg</code>	<code>\lg</code>
<code>\csc</code>	<code>\csc</code>	$m \bmod n$	<code>m \bmod n</code>	<code>\log</code>	<code>\log</code>
<code>\ln</code>	<code>\ln</code>	$m \pmod n$	<code>m \pmod n</code>	<code>\exp</code>	<code>\exp</code>
<code>\dim</code>	<code>\dim</code>	$m (n)$	<code>m \pod n</code>	<code>\hom</code>	<code>\hom</code>
<code>\deg</code>	<code>\deg</code>			<code>\ker</code>	<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 \to 0}`

min	<code>\min</code>	lim inf	<code>\liminf</code>
max	<code>\max</code>	\varliminf	<code>\varliminf</code>
inf	<code>\inf</code>	lim sup	<code>\limsup</code>
sup	<code>\sup</code>	\varlimsup	<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>	\Finv	<code>\Finv</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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∇ `\nabla`

\mho `\mho`

\square `\square`

\Box `\Box`

\triangle `\triangle`

\vartriangle `\vartriangle`

\triangledown `\triangledown`

\lozenge `\lozenge`

\surd `\surd`

\checkmark `\checkmark`

\sharp `\sharp`

\natural `\natural`

\flat `\flat`

\prime `\prime`

\backprime `\backprime`

\mapsto `\mapsto`

\backslash `\backslash`

\diagdown `\diagdown`

\diagup `\diagup`

\blacksquare `\blacksquare`

\diamond `\Diamond`

\blacktriangle `\blacktriangle`

\blacktriangledown `\blacktriangledown`

\blacklozenge `\blacklozenge`

\heartsuit `\heartsuit`

\diamondsuit `\diamondsuit`

\spadesuit `\spadesuit`

\clubsuit `\clubsuit`

\star `\star`

\bigstar `\bigstar`

\circledR `\circledR`

\circledS `\circledS`

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ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

`\mathnormal{...}`

ABCDEFGHIJKLMNOPQRSTUVWXYZ
OPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

`\mathrm{...}`

ABCDEFGHIJKLMNOPQRSTUVWXYZ
OPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
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`\mathsf{...}`

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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 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 1 2 3 4 5 6 7 8 9 0	$\backslash\mathrm{bf}\{...\}$
<i>A B C D E F G H I J K L M N</i> <i>O P Q R S T U V W X Y Z</i> <i>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</i> <i>1 2 3 4 5 6 7 8 9 0</i>	$\backslash\mathrm{hit}\{...\}$
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 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 1 2 3 4 5 6 7 8 9 0	$\backslash\mathrm{htt}\{...\}$

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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

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

1 2 3 4 5 6 7 8 9 0

`\mathfrak{...}`

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

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

1 2 3 4 5 6 7 8 9 0

`\boldsymbol{...}`

$\alpha \beta \pi \theta \Phi \Psi \Omega \dots$

$\in \hbar \partial \nabla \leftarrow \infty \emptyset \square \dots$

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$A B C D E F G H I J K L M N$ $O P Q R S T U V W X Y Z$ <p>(Include <code>\usepackage{mathrsfs}</code> before <code>\begin{document}</code>)</p>	<code>\mathscr{...}</code>
$A B C D E F G H I J K L M N$ $O P Q R S T U V W X Y Z$	<code>\mathcal{...}</code>
$A B C D E F G H I J K L M N$ $O P Q R S T U V W X Y Z$	<code>\mathbb{...}</code>

Brackets

These are variable sized

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

Brackets - Math Accents

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\ulcorner	<code>\ulcorner</code>	\urcorner	<code>\urcorner</code>
\llcorner	<code>\llcorner</code>	\lrcorner	<code>\lrcorner</code>
\uparrow	<code>\uparrow</code>	\Uparrow	<code>\Uparrow</code>
\downarrow	<code>\downarrow</code>	\Downarrow	<code>\Downarrow</code>
\updownarrow	<code>\updownarrow</code>	\Updownarrow	<code>\Updownarrow</code>

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

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...	<code>\ldots</code>	lower dots
...	<code>\cdots</code>	center dots
\ddots	<code>\ddots</code>	diagonal dots
\vdots	<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}	<code>\overbrace{abc}</code>
\underbrace{abc}	<code>\underbrace{abc}</code>
\xleftarrow{abc}	<code>\xleftarrow{abc}</code>
\xrightarrow{abc}	<code>\xrightarrow{abc}</code>

\sqrt{abc}	<code>\sqrt{abc}</code>
\widetilde{abc}	<code>\widetilde{abc}</code>
\widehat{abc}	<code>\widehat{abc}</code>
\overline{abc}	<code>\overline{abc}</code>
\underline{abc}	<code>\underline{abc}</code>

\overrightarrow{abc}	<code>\overrightarrow{abc}</code>
\overleftarrow{abc}	<code>\overleftarrow{abc}</code>
\overleftrightarrow{abc}	<code>\overleftrightarrow{abc}</code>
$\overleftrightharpoonup{abc}$	<code>\overleftrightharpoonup{abc}</code>
\underrightarrow{abc}	<code>\underrightarrow{abc}</code>
\underleftarrow{abc}	<code>\underleftarrow{abc}</code>
$\underleftrightharpoonup{abc}$	<code>\underleftrightharpoonup{abc}</code>

Textcomp I

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

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\$ \textdollar

¢ \textcent

€ \texteuro

¥ \textyen

£ \textsterling

₤ \textlira

฿ \textbaht

₵ \textguarani

₫ \textdong

₦ \textnaira

₱ \textpeso

₩ \textwon

₹ \textcurrency

f \textflorin

Â \newtie{A}

â \newtie{a}

\$ \textdollaroldstyle

¢ \textcentoldstyle

₤ \textcolonmonetary

↓ \textdownarrow

→ \textrightarrow

← \textleftarrow

↑ \textuparrow

” \textacutedbl

˘ \textasciicaron

— \textasciimacron

´ \textasciiacute

“ \textasciidieresis

” \textgravedbl

˘ \textasciibreve

` \textasciigrave

R \textrecipe

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Ⓟ	<code>\textcircledP</code>
©	<code>\textcopyright</code>
SM	<code>\textservicemark</code>
Ⓒ	<code>\textcircleft</code>
®	<code>\textregistered</code>
TM	<code>\texttrademark</code>
°	<code>\textdegree</code>
$\frac{1}{2}$	<code>\textonehalf</code>
$\frac{1}{4}$	<code>\textonequarter</code>
$\frac{3}{4}$	<code>\textthreequarters</code>
—	<code>\textminus</code>
±	<code>\textpm</code>
÷	<code>\textdiv</code>
×	<code>\texttimes</code>
√	<code>\textsurd</code>

0	<code>\textzerooldstyle</code>
1	<code>\textoneoldstyle</code>
2	<code>\texttwooldstyle</code>
3	<code>\textthreeoldstyle</code>
4	<code>\textfouroldstyle</code>
5	<code>\textfiveoldstyle</code>
6	<code>\textsixoldstyle</code>
7	<code>\textsevenoldstyle</code>
8	<code>\texteightoldstyle</code>
9	<code>\textnineoldstyle</code>
1	<code>\textonesuperior</code>
2	<code>\texttwosuperior</code>
3	<code>\textthreesuperior</code>
¬	<code>\textlnot</code>

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	<code>\textbrokenbar</code>	♪	<code>\textmusicalnote</code>
	<code>\textbardbl</code>	<	<code>\textlangle</code>
¶	<code>\textparagraph</code>	>	<code>\textrangle</code>
‡	<code>\textpilcrow</code>	⌈	<code>\textlbrackdbl</code>
◯	<code>\textbigcircle</code>	⌋	<code>\textrbrackdbl</code>
␣	<code>\textblank</code>	{	<code>\textlquill</code>
†	<code>\textdagger</code>	}	<code>\textrquill</code>
‡	<code>\textdaggerdbl</code>	°C	<code>\textcelsius</code>
‰	<code>\textdiscount</code>	μ	<code>\textmu</code>
~	<code>\texttildelow</code>	Ω	<code>\textohm</code>
№	<code>\textnumero</code>	ℳ	<code>\textmho</code>
ℰ	<code>\textestimated</code>	★	<code>\textborn</code>
§	<code>\textsection</code>	∪	<code>\textdivorced</code>
'	<code>\textquotesingle</code>	∞	<code>\textmarried</code>
•	<code>\textbullet</code>	†	<code>\textdied</code>
○	<code>\textopenbullet</code>	☛	<code>\textleaf</code>

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※	<code>\textreferencemark</code>
‰ ₀₀₀	<code>\textpertenthousand</code>
‰ ₀₀	<code>\textperthousand</code>
*	<code>\textasteriskcentered</code>
.	<code>\textperiodcentered</code>
♀	<code>\textordfeminine</code>
♂	<code>\textordmasculine</code>
/	<code>\textfractionsolidus</code>
=	<code>\textdblhyphen</code>
=	<code>\textdblhyphenchar</code>
	<code>\textquotestraightbase</code>
	<code>\textquotestraightdblbase</code>
‡	<code>\textinterrobang</code>
‡↓	<code>\textinterrobangdown</code>
—	<code>\textthreequartersemdash</code>
—	<code>\texttwelveudash</code>

Marvosym I

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

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€	<code>\EUR</code>
€	<code>\EURdig</code>
€	<code>\EURtm</code>
€	<code>\EURcr</code>
€	<code>\EURhv</code>
ℳ	<code>\Pfund</code>
@	<code>\Ecommerce</code>
\$	<code>\EyesDollar</code>

₯	<code>\Denarius</code>
β	<code>\Shilling</code>
⌘	<code>\Anglesign</code>
·	<code>\Squaredot</code>
≅	<code>\Corresponds</code>
→	<code>\Vectorarrow</code>
→	<code>\Vectorarrowhigh</code>
→	<code>\MVRightarrow</code>

†	<code>\Ankh</code>
†	<code>\Cross</code>
⚔	<code>\Celtcross</code>
♥	<code>\Heart</code>
♠	<code>\Bat</code>
FB	<code>\FHBologo</code>
FB	<code>\FHBOLOGO</code>
FB	<code>\FullFHBO</code>

👩	<code>\Womanface</code>
👤	<code>\MartinVogel</code>
🌸	<code>\Bouquet</code>
🌐	<code>\Mundus</code>
☯	<code>\Yinyang</code>
😊	<code>\Smiley</code>
😞	<code>\Frowny</code>
Ⓐ	<code>\CircledA</code>

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0 \MVZero

1 \MVOne

2 \MVTwo

3 \MVThree

4 \MVFour

5 \MVFive

6 \MVSix

7 \MVSeven

8 \MVEight

9 \MVNine

♀ \Female

● \FEMALE

♀♀ \FemaleFemale

♀♂ \FemaleMale

♂♀ \Hermaphrodite

♂ \Male

□ \MALE

♂♂ \MaleMale

○ \Neutral

♂♀ \HERMAPHRODITE

▶ \Forward

◀ \Rewind

▶| \ForwardToEnd

▼ \MoveDown

▲ \MoveUp

⬆ \ToTop

⬇ \ToBottom

⏮ \RewindToStart

▶▶ \ForwardToIndex

⏮⏮ \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

✂ \Cutleft

✂ \Cutright

✂ \Leftscissors

✂ \Rightscissors

--- \Cutline

--- \Kutline

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\Biohazard



\CEsign



\Explosionsafe



\Radioactivity



\BSEfree



\Estatically



\Stopsign



\Laserbeam



\Lsteel



\Tsteel



\TTsteel



\RoundedTsteel



\RoundedLsteel



\RoundedTTsteel



\Force



\Beam



\Bearing



\Fixedbearing



\Loosebearing



\Lineload



\Circsteel



\Squaresteel



\Rectsteel



\Hexasteel



\Octosteel



\Flatsteel



\Circpipe



\Squarepipe



\Rectpipe



\Lefttorque



\Righttorque

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


















TEXT







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

	<code>\ComputerMouse</code>		<code>\SerialInterface</code>
	<code>\ParallelPort</code>		<code>\Keyboard</code>
	<code>\SerialPort</code>		<code>\Printer</code>

Marvosym VI

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



























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	<code>\CleaningA</code>		<code>\AtForty</code>
	<code>\CleaningF</code>		<code>\AtSixty</code>
	<code>\CleaningFF</code>		<code>\AtNinetyFive</code>
	<code>\CleaningP</code>		<code>\ShortThirty</code>
	<code>\CleaningPP</code>		<code>\ShortForty</code>
	<code>\Tumbler</code>		<code>\ShortFifty</code>
	<code>\NoTumbler</code>		<code>\ShortSixty</code>
	<code>\NoChemicalCleaning</code>		<code>\ShortNinetyFive</code>
	<code>\Bleech</code>		<code>\SpecialForty</code>
	<code>\NoBleech</code>		<code>\WashCotton</code>
	<code>\IroningI</code>		<code>\WashSynthetics</code>
	<code>\IroningII</code>		<code>\WashWool</code>
	<code>\IroningIII</code>		<code>\Handwash</code>
	<code>\NoIroning</code>		<code>\Dontwash</code>

Pifont I

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

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





























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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>
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	<code>\ding{49}</code>		<code>\ding{65}</code>		<code>\ding{81}</code>
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	<code>\ding{52}</code>		<code>\ding{68}</code>		<code>\ding{84}</code>

Pifont II

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













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	<code>\ding{85}</code>		<code>\ding{101}</code>		<code>\ding{117}</code>
	<code>\ding{86}</code>		<code>\ding{102}</code>		<code>\ding{118}</code>
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


















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	<code>\ding{167}</code>		<code>\ding{182}</code>		<code>\ding{198}</code>
	<code>\ding{168}</code>		<code>\ding{183}</code>		<code>\ding{199}</code>
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			<code>\ding{187}</code>		<code>\ding{203}</code>
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	<code>\ding{180}</code>		<code>\ding{196}</code>		
	<code>\ding{181}</code>		<code>\ding{197}</code>		

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











































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Chemarrow

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

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Introduction

TEXT

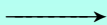
MATH

Common
Greek
Binary
Subsets
Inequalities
Triangles
Arrows
Operators
Functions
Miscel.
Alphabet
Brackets
Dots
Var. Size

EXTRA

Textcomp
Marvosym
Pifont
Chemarrow

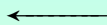
abc



def

`\autorightarrow{abc}{def}`

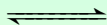
abc



def

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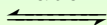
abc



def

`\autorightleftharpoons{abc}{def}`

abc



def

`\autoleftrightharpoons{abc}{def}`



`\chemarrow`