The ShorTeX package

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Abstract

The purpose of the ShorTeX (meta) package is to make the process of typesetting typical mathematical documents in LATEX more efficient, and the resulting code easier to read. It achieves this by (1) providing an extensive, internally consistent, and easy to learn set of macro shorthands and custom commands, and (2) incorporating a set of packages that are dedicated to reducing manual coding effort.

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1 Usage and package options

Put a copy of shortex.sty in the folder alongside your other document files, and include ShorTeX in the document by adding \usepackage{shortex} to the preamble. Do not install ShorTeX system-wide; this package has not yet reached a stable version 1.0, and we are updating things regularly without any guarantee of backwards compatibility. You must compile your document 4 times when using ShorTeX to ensure that equation numbers and references update properly.

ShorTeX will include and configure many common packages for you (e.g., graphicx, subcaption, hyperref, algorithm, algpseudocode, amsmath, among others), so you do not need to explicitly include and set these up yourself. If you are writing a document that must use a specific style file (e.g., for a conference or journal) that itself includes some of these packages, we recommend editing those style files to remove the package imports.

The ShorTeX package has a few options:

noautonum Do not include autonum.sty. This disables automatic equation numbering.

blacklinks Switch hyperlinks, citations, references, etc. to be typeset in black font. The default is dark blue.

draft Turn on draft mode for graphicx, hyperref (with placeholder figures etc).

nomathfontdefaults Disable default font style/accent combinations (see Section 3 for details).

commenters Specify names of commenters for comment commands (see Section 4 for details).

hidecomments Suppress comments (see Section 4 for details).

2 Environments

LATEX documents often include a lot of verbose code related to creating environments (\begin{blah}...\end{blah}). ShorTeX provides a set of shortened macros for common environments. Each shortened begin and end command starts with \b... and \e..., respectively. Note that all theorem-like environments (theorem, lemma, proposition, etc.) are numbered by default; unnumbered versions can be obtained by appending a u. For example, \bthmu...\ethmu creates an unnumbered theorem environment, while \blemu...\elemu creates an unnumbered lemma environment.

Environment	Syntax
abstract	\babs\eabs
itemize enumerate description	\bitem\eitem \benum\eenum \bdesc\edesc
algorithm algorithmic	\balg\ealg \balgc\ealgc
table subtable tabular	\btab\etab \bsubtab\esubtab \btabr\etabr
figure figure* subfigure	\bfig\efig \bfigs\efigs \bsubfig\esubfig
center	\bcent\ecent
align inline math	\[\] \$\$

Note: These are numbered theorem-like environments. For unnumbered, append a u: e.g., bthmu...ethmu.

theorem	\bthm\ethm
lemma	\blem\elem
proposition	\bprop\eprop
corollary	\bcor\ecor
conjecture	\bconj\econj
definition	\bdefn\edefn
assumption	\bassum\eassum
example	\bexa\eexa
remark	\brmk\ermk
fact	\bfact\efact
exercise	\bexer\eexer
proof	\bprf\eprf
proofof	\bprfof{\cref{theorem_label}}\eprfof
matrix	\bmat\emat
bmatrix	\bbmat\ebmat
pmatrix	\bpmat\epmat

3 Math font styles and accents

Applying accents (e.g., hats \widehat{a} , tildes \widetilde{a} , bars \overline{a}) and changing fonts (e.g., double-stroke \mathbb{A} , caligraphic \mathcal{A} , and bold \mathbf{A}) is quite cumbersome in standard IATEX. For example, the code to make a tilde caligraphic \mathbb{A} , $\widetilde{\mathcal{A}}$ is \widetilde{\mathcal{A}}. By itself that code is not too bad, but many such characters in a large mathematical expression results in unreadable code.

3.1 Default font, accent combinations

ShorTeX defines an efficient syntax for changing math fonts and applying accents to characters. The syntax takes the form \s<modifiers>character, where <modifiers> is a set of single characters that represent font/accent modifications to character. For example, the code for tilde caligraphic A is \stcA where t represents "tilde," c represents "caligraphic," and A is the character to typeset. The table below shows the modifier characters that are implemented by default with all upper/lowercase Greek and Roman characters. Because b is already used for "bar," ShorTeX uses k for "bold" (arising from the use of k to represent "black" in plotting packages across many languages, which itself arises from the "K" in CMYK).

Style	Modifier	Example	Typeset Example
caligraphic (mathcal)	С	\scA	\mathcal{A}
bold (mathbf)	k	\skA	\boldsymbol{A}
doublestroke (mathbb)	d	\sdA	A
Accent	Modifier	Example	Typeset Example
hat (widehat)	h	\shA	\widehat{A}
tilde (widetilde)	t	\stA	\widetilde{A}
bar (widebar)	b	\sbA	\overline{A}
dot (dot)	0	\soA	À

In addition, ShorTeX allows the use of combinations of any one of the above fonts with any one of the above accents. For example, we can combine the caligraphic style c with all the accents via \stcA, \socA, \sbcA, \shcA:

$$\widetilde{\mathcal{A}}$$
 $\dot{\mathcal{A}}$ $\overline{\mathcal{A}}$ $\widehat{\mathcal{A}}$.

To disable these default shortcuts, pass the nomathfontdefaults option to ShorTeX.

3.2 Advanced usage: flexible font, accent combinations

For most users, the default font style/accent combinations that come with ShorTeX will suffice. However, the \s... commands are actually implemented under the hood using a more flexible \s[modifiers] character command that

can take a wide variety of combinations of font/accent modifiers. For example, the code for tilde caligraphic A is \s[tc]A where t represents "tilde," c represents "caligraphic," and A is the character to typeset.

Style	Modifier	Example	Typeset Example
caligraphic (mathcal)	С	\s[c]A	$\overline{\mathcal{A}}$
bold (mathbf)	k	\s[k]A	\boldsymbol{A}
doublestroke (mathbb)	d	\s[d]A	\mathbb{A}
fraktur (mathfrak)	f	\s[f]A	\mathfrak{A}
Accent	Modifier	Example	Typeset Example
hat (widehat)	h	\s[h]A	\widehat{A}
tilde (widetilde)	t	\s[t]A	\widetilde{A}
bar (widebar)	b	\s[b]A	\overline{A}
dot (dot)	0	\s[o]A	\dot{A}

These style modifiers can be combined; the underlying code is flexible enough that it will happily produce a wide variety of combinations, including those that aren't very sensible.

Note: modifiers are applied in the reverse of the order in which they appear; the modifier furthest to the right is applied first. This matches the order that the corresponding commands would appear in TeX code.

Style/Accent	Modifier	Example	Typeset Example
caligraphic tilde	ct	\s[ct]A	$\widetilde{\mathcal{A}}$
bold hat	kh	$\s(kh)A$	\hat{A}
tilde hat	ht	\s[ht]A	$\widehat{\widetilde{A}}$
hat tilde	th	\s[th]A	$\widetilde{\widehat{A}}$
fraktur dot	of	\s[of]A	શ્રં

The default \s... commands included in ShorTeX are compiled in advance from the more general \s[...]... via the \parsefontstylestrings command; this lets us avoid having to type [] for common style/accent combinations. For example, if we use "bold hat" symbols frequently, we might want to use commands like \skh... instead of \s[kh].... We can accomplish this using the \parsefontstylestrings command, with syntax

\parsefontstylestrings{{<fstr1>}{<fstr2}...}{<alphabet>}

For example, to define "bold hat" and "caligraphic hat" styles for the characters A, B, C, and D, we would use the command

\parsefontstylestrings{{kh}{ch}}{ABCD}

and then in the LATEX document, use the commands $\skhA \skhB \skhC \skhD$ and $\schA \schB \schC \schD$ to obtain the following symbols:

$\hat{A}\hat{B}\hat{C}\hat{D}\hat{A}\hat{B}\hat{C}\hat{D}$

As another example, for "bold hat" applied to α , β , and γ , we would use the syntax

 $\parse fontstyle strings {\{kh\}\} {\{\alpha\} \{\beta\} \{\gamma\}\} }$

and then in the LATEX document, use the commands \skhalpha \skhbeta \skhgamma to obtain the following symbols:

$\widehat{lpha}\widehat{eta}\widehat{\gamma}$

For convenience we also provide a few common alphabets of symbols for use in the \parsefontstylestrings command. Note that not every Greek character has a lowercase or uppercase version (in cases where it is identical to its Roman counterpart). Also note that we use ShorTeX Greek letter syntax; see Section 6.2.

Syntax	Characters
\lowercaseRoman \uppercaseGreek	abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ alpha,beta,gamma,delta,eps,zeta,
(loweredsedreek	eta,theta,iota,kappa,lam,mu,nu,xi,pi,rho, sigma,tau,ups,phi,chi,psi,omega,veps,vtheta,
\uppercaseGreek	vkappa,vpi,vrho,vsigma,vphi Gamma,Delta,Theta,Lam,Xi, Pi,Sigma,Ups,Phi,Psi,Omega

4 Commenting

ShorTeX defines four types of document markup that can be used: *comment*, *emphasized comment*, *margin comment*, and *highlight*. This is a lightweight alternative to some more common todo packages (e.g., todonotes). In order to create comments, you must pass the commenters option to the package, and specify an identifier for each commenter. For example, one could specify three commenters (named A, B, C) using the command

\usepackage[commenters={A,B,C}]{shortex}

For each commenter, there are four commands (one for each markup type). The table below contains examples for commenter "A". Notice that each comment is tagged with a number (specific to each commenter) for easy referencing.

Comment Type	Syntax	Example	Typeset Example	- }
comment	\c{comment}	\cA{hello!}	(A1) hello!	-
emphasized comment	\e{comment}	\eA{hello!}	(A2) hello!	
margin comment	\m{comment}	text\mA{hello!}	text (A3)	(A3) hello!
highlight	$h{text}$	\hA{hello!}	hello!	

Note that each commenter gets their own color. Currently ShorTeX supports nine different commenter colors, and will wrap around back to the first color if the number of commenters exceeds nine:

• (A4) example(A5) emphasized examplemore text (A6) (A6) margin example • (B1) example(B2) emphasized examplemore text (B3) (B3) margin example • (C1) example(C2) emphasized examplemore text (C3) (C3) margin example • (D1) example(**D2**) emphasized examplemore text (D3) (D3) margin example • (E1) example(E2) emphasized examplemore text (E3) (E3) margin example • (F1) example(F2) emphasized examplemore text (F3) (F3) margin example • (G1) example(G2) emphasized examplemore text (G3) (G3) margin example • (H1) example(H2) emphasized examplemore text (H3) (H3) margin example • (I1) example(I2) emphasized examplemore text (I3) (I3) margin example • Back to first color: (J1) example(J2) emphasized examplemore text (J3) (J3) margin example

You can also disable all comments to see a clean version of the current document using the hidecomments package option. This option will blank out all comments and render highlighted text normally.

5 Referencing figures, equations, tables, etc.

ShorTeX includes the cleveref package, which simplifies the process of type-setting references. Use the \cref command (or \Cref at the beginning of a sentence) to automatically typeset the names of the objects you reference (including properly handling multiple references). For example, if \label{fig:first} is applied to the first figure in the document,

```
In \cref{fig:first}, you can see...
```

would typeset as "In Fig. 1, you can see..." Similarly, if \label{thm:first} references a theorem and \label{second_result} references a lemma,

```
\cref{thm:first,lem:second} show that...
```

will typeset as "Theorem 1 and Lemma 2 show that..." This works for many different reference types (Figure, Algorithm, Equation, Table, etc.), and can be extended if needed. See the cleveref documentation at https://ctan.org/pkg/cleveref?lang=en and the homepage at https://www.dr-qubit.org/cleveref.html for more information.

ShorTeX also includes the autonum package, which simplifies the process of equation numbering. Typically when you typeset equations, you have to choose between \$...\$, \$\$...\$\$, \begin{align}...\end{align}, \begin{aligned}...\end{aligned}, \begin{equation}...\end{equation}, not to mention starred versions of those environments and \nonumber/\notag commands, depending on whether/where you want equation numbers,

The autonum package automatically decides which equations to provide numbers based on which equations you reference. So when using ShorTeX, you only need two commands for math mode: single dollar signs \$...\$ for inline math, and align environments (redefined in ShorTeX to be \[...\]) for display math.¹

For example, if you create the following display math,

```
\[
   a+b = c \label{eq:the_equation}
\]
```

then if you use the command \cref{eq:the_equation} somewhere in the document, that equation will automatically be assigned a number. If not, it won't get a number. See the autonum package documentation https://ctan.org/pkg/autonum?lang=en for more information.

¹There are differences between how align and other math display environments typeset equations. I have not ever encountered a case where it mattered much. If you are very picky about typesetting, note that ShorTeX does not *disable* any functionality, so you can use other environments anywhere you feel it is necessary.

6 Math mode macros

6.1 Delimiters

Mathematics in LATEX often includes quite a few delimiters (parentheses, brackets, curly brackets, etc.). A very common usage of these involves the \left...\right commands for automatic sizing, as well as \middle for sizing characters in between delimiters. One can also use \bigl...\bigr, \Bigl...\Bigr, \biggl...\biggr, \Biggl...\Biggr to control sizing manually. ShorTeX creates shorthands for these.

Description	Syntax
automatic left, right	\lt\rt
automatic middle	\m
big	\lb\rb
Big	\1B\rB
bigg	\lbg\rbg
Bigg	\lBg\rBg

These can be applied to all the usual delimiter characters. The following tables demonstrate usage for automatically sized delimiters.

Description	Example	Text style	Display style
parentheses	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	$\left(\frac{x}{y}\right)$	$\left(\frac{x}{y}\right)$
curly brackets	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	$\left\{\frac{x}{y}\right\}$	$\left\{\frac{x}{y}\right\}$
square brackets	\lt[frac{x}{y}\rt]	$\left[rac{x}{y} ight]$	$\left[rac{x}{y} ight]$
pipes	$\left \int_{x}^{y} \left \right $	$\left \frac{x}{y} \right $	$\left \frac{x}{y}\right $
double pipes	$\left \int_{x}^{y} \left(x \right) \right $	$\left\ \frac{x}{y} \right\ $	$\left\ \frac{x}{y} \right\ $
angle brackets	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	$\left\langle \frac{x}{y} \right\rangle$	$\left\langle \frac{x}{y} \right\rangle$
middle bar	$\E\It[X \m Y\rt]$	$\mathbb{E}[X Y]$	$\mathbb{E}[X Y]$

Also note that the spacing around the standard \left... and \right... delimiters is sometimes a bit odd. For example, the code \operatorname{A}\left(x\right) adds too much space between A and the parentheses:

ShorTeX's shorthands $\t...$ and $\t...$ fix this. The code $\parbonneq A \t...$ typesets as

The code for the spacing fixes was taken from https://tex.stackexchange.com/questions/2607/spacing-around-left-and-right, which itself originally arose from Heiko Oberdiek on the COMP.TEXT.TEX newsgroup (https://groups.google.com/group/comp.text.tex/msg/257aa6119bef878b) and is now in the mleftright package.

ShorTeX also provides a set of common paired delimiters:

Description	Syntax	Text style	Display style
Round brackets	\rbra{\frac{x}{y}}	$(\frac{x}{y})$	$(\frac{x}{y})$
Curly brackets	\cbra{\frac{x}{y}}	$\left\{\frac{x}{y}\right\}$	$\{\frac{x}{y}\}$
Square brackets	\sbra{\frac{x}{y}}	$\left[\frac{x}{y}\right]$	$[\frac{x}{y}]$
Norm	<pre>\norm{\frac{x}{y}}</pre>	$\ \frac{x}{y}\ $	$\ \frac{x}{y}\ $
Inner product	$\label{linear} $$ \displaystyle \lim_{x \to \infty} x^{y}, \frac{y}{z} $$$	$\langle \frac{x}{y}, \frac{y}{z} \rangle$	$\langle \frac{x}{y}, \frac{y}{z} \rangle$
Absolute value	\abs{\frac{x}{y}}	$\left \frac{x}{y}\right $	$ \frac{x}{y} $
Floor	\floor{\frac{x}{y}}	$\lfloor \frac{x}{y} \rfloor$	$\lfloor \frac{x}{y} \rfloor$
Ceiling	$\c \{x}{y}$	$\lceil \frac{x}{y} \rceil$	$\lceil \frac{x}{y} \rceil$

These paired delimiters are defined using the \DeclarePairedDelimiter command, so one can use an asterisk for automatic sizing, or place a size specification in square brackets. For example, \rbra{\frac{x}{y}}, \rbra*{\frac{x}{y}}, and \rbra[\Bigg]{\frac{x}{y}} typeset, respectively, as

$$(\frac{x}{y}), \quad \left(\frac{x}{y}\right), \quad \left(\frac{x}{y}\right).$$

6.2 Greek characters and variants

ShorTeX defines shorthands for Greek letters with more than 5 characters in their name ($\ensuremath{\mbox{\mbox{\sc haracters}}}$) as well as variant characters. Variants are obtained by preceding the usual command with $\ensuremath{\mbox{\sc haracters}}$)...

Letter	Syntax	Symbol
epsilon lambda upsilon	<pre>\eps \lam,\Lam \ups,\Ups</pre>	$egin{array}{l} \epsilon \ \lambda, \Lambda \ arphi, \Upsilon \end{array}$

Letter	Variant Syntax	Variant Symbol
epsilon	\veps	ε
theta	\vtheta	ϑ
kappa	\vkappa	×
pi	\vpi	ϖ
rho	\vrho	ϱ
sigma	\vsigma	ς
phi	\vphi	arphi

6.3 Sets and set operations

Name	Syntax	Symbol
reals	\reals	\mathbb{R}
extended reals	\xreals	$\overline{\mathbb{R}}$
rationals	\rats	\mathbb{Q}
integers	$\$ ints	$\mathbb Z$
natural numbers	\nats	\mathbb{N}
complex numbers	\comps	\mathbb{C}
measures	\msrs	$\mathcal M$
probability measures	\pmsrs	\mathcal{M}_1
intersection	\inter	\cap
union	\union	Ú
volume	\vol	vol
diameter	\diam	diam
boundary	\bdry	∂
closure	\cl	cl
span	\spann	span
cone	\cone	cone
convex hull	\conv	conv

6.4 Linear algebra

Name	Syntax	Symbol
trace	\tr A	$\operatorname{tr} A$
rank	\rank A	${\rm rank}A$
transpose	Α\T	A^{\top}
inverse transpose	$A \nT$	$A^{-\top}$
diagonal	\diag A	$\operatorname{diag} A$
adjoint	A\adj	A^{\dagger}
spectrum	\spec A	σA
kronecker product	A\kron B	$A \otimes B$

6.5 Calculus

Name	Syntax	Symbol
differential symbol	\d x	$\mathrm{d}x$
partial differential symbol	\pd x	∂x
gradient symbol	\grad f	∇f
derivative	$\der{x}{y}$	$\frac{\mathrm{d}x}{\mathrm{d}y}$
$n^{\rm th}$ derivative	\der[n]{x}{y}	$\frac{\mathrm{d}^n x}{\mathrm{d} y^n}$
derivative w.r.t.	${y}$	$\frac{\mathrm{d}}{\mathrm{d}y}$
partial derivative	\pder{x}{y}	$\frac{\partial x}{\partial y}$
$n^{\rm th}$ partial derivative	\pder[n]{x}{y}	$\frac{\partial^n x}{\partial y^n}$
partial derivative w.r.t.	{y}	$\frac{\partial}{\partial y}$
Hessian	$\hes{x}{y}{z}$	$\frac{\partial^2 x}{\partial y \partial z}$
Hessian w.r.t.	${y}{z}$	$\frac{\partial^2}{\partial y \partial z}$

6.6 General probability and statistics

Name	Syntax	Symbol
i.i.d.	\iid	i.i.d.
almost sure	\as	a.s.
almost everywhere	\aev	a.e.
convergence almost surely	\convas	$\overset{a.s.}{\rightarrow}$
convergence in probability	\convp	\xrightarrow{p}
convergence in distribution	\convd	$\overset{d}{\rightarrow}$
equality in distribution	\eqd	$\stackrel{d}{=}$
equality almost surely	\eqas	$\stackrel{a.s.}{=}$
probability	\P	\mathbb{P}
expectation	\E	\mathbb{E}
variance	\Var	Var
covariance	\Cov	Cov
correlation	\Corr	Corr
support	\supp	supp
distributed as	\dist	\sim
distributed i.i.d.	\distiid	$\overset{\mathrm{iid}}{\sim}$
distributed independently	\distind	$\overset{\mathrm{ind}}{\sim}$
independent	\indep	Ш
Kullback-Leibler divergence	$\KL(q p)$	KL(q p)
Total variation distance	\TV(q,p)	$\mathrm{TV}(q,p)$
ν -Wasserstein distance	$\Wass_ nu(q,p)$	$W_{\nu}(q,p)$
Hellinger distance	$\Hell(q,p)$	H(q, p)

6.7 Probability distributions

Name	Syntax	Symbol
Bernoulli	\Bern	Bern
beta	\Beta	Beta
beta prime	\Beta'	Beta'
binomial	\Binom	Binom
categorical	\Cat	Categorical
Cauchy	\Cauchy	Cauchy
chi-squared	\ChiSq	χ^2
Dirichlet	\Dir	Dir
exponential	\Exp	Exp
gamma	\Gam	Gam
inverse gamma	\InvGam	InvGam
geometric	\Geom	Geom
Gumbel	\Gum	Gumbel
generalized extreme value	\GEV	GEV
Laplace	\Lap	Lap
multinomial	\Multi	Multi
normal	\Norm	$\mathcal N$
Poisson	\Poiss	Poiss
student-t	\StudentT	\mathcal{T}
uniform	\Unif	Unif
von Mises-Fisher	\VMF	vMF
Wishart	\Wish	\mathcal{W}
inverse Wishart	\InvWish	\mathcal{IW}
Bernoulli process	\BeP	BeP
beta process	\BP	BP
beta prime process	\BPP	BPP
Dirichlet process	\DP	DP
Chinese restauarant process	\CRP	CRP
completely random measure	\CRM	CRM
normalized completely random measure	\NCRM	NCRM
gamma process	\GamP	ГР
normalized gamma process	\NGamP	$N\Gamma P$
Gaussian process	\GP	GP
Pitman-Yor process	\PYP	PY
Poisson process	\PP	PP

6.8 Text in math

Name	Syntax	Symbol
s.t.	x \st y	x s.t. y
and	x \andd y	x and y
or	x \orr y	x or y
with	x \with y	x with y
where	x \where y	x where y

6.9 Other

Name	Syntax	Symbol
argmax argmin esssup essinf indicator	<pre>\argmax_{x\in \reals} \argmin_{x\in \reals} \esssup_{x\in \reals} \essinf_{x\in \reals} \1[x=3]</pre>	$\begin{array}{c} \operatorname{argmax}_{x\in\mathbb{R}} \\ \operatorname{argmin}_{x\in\mathbb{R}} \\ \operatorname{esssup}_{x\in\mathbb{R}} \\ \operatorname{essinf}_{x\in\mathbb{R}} \\ \mathbbm{1}[x=3] \end{array}$
sign	\sgn x	$\operatorname{sgn} x$

6.10 Shrinking whitespace in math

The command \squish{<frac>} in math mode enables you to shrink whitespace in mathematics, where <frac> represents the fraction of whitespace reduction. Below, the first line is regularly spaced, the second line has \squish{0.5}, and the third has \squish{0.0}.

$$\begin{split} \sqrt{\frac{1^2}{0.111222}} (0.111222 \times 1.111163 + 0.066987^2 \times 0.111222) - 1 &= \sqrt{0.111222} \\ \sqrt{\frac{1^2}{0.111222}} (0.111222 \times 1.111163 + 0.066987^2 \times 0.111222) - 1 &= \sqrt{0.111222} \\ \sqrt{\frac{1^2}{0.111222}} (0.111222 \times 1.111163 + 0.066987^2 \times 0.111222) - 1 &= \sqrt{0.111222} \end{split}$$

The code for \squish was taken from https://tex.stackexchange.com/questions/467942/how-to-squeeze-a-long-equation.

6.11 Wide bar

ShorTeX provides the \widebar command to typeset a wide bar accent on top of a character (similar to the usual \widebat and \widebat and \widebar commands). Compare to the usual \bar and \overline commands:

widebar:
$$\overline{A}$$
 overline: \overline{A} bar: \overline{A}

The code for \widebar was taken from https://tex.stackexchange.com/questions/16337/can-i-get-a-widebar-without-using-the-mathabx-package. Note that the shortened style/accent code b in Section 3 encodes \widebar, not \bar.

7 Text mode macros

7.1 Common words and names with accents

Syntax	Symbol
\cadlag	càdlàg
\Frechet	Fréchet
\Gronwall	Grönwall
\Holder	Hölder
\Ito	Itô
\Levy	Lévy
\Matern	Matérn
\Nystrom	Nyström
\Renyi	Rényi
\Schatten	Schätten

7.2 Abbreviations with punctuation

Name	Syntax	Symbol
e.g.,	\eg	e.g.,
et al.	\etal	et al.
i.e.,	\ie	i.e.,
a.k.a.	\aka	a.k.a.

8 Example Document

TODO!