# Unicode declarations for $\LaTeX$ documents

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# May 28, 2020

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\exists \vdash \exists \vdash \hookrightarrow \vdash \lor \circ \land \vdash \vdash \sqcup \vdash \sqcup$ | $ \not\geq \leq \leq = \nsim \sim \not\approx \approx \not\simeq \cong \cong \stackrel{?}{=} \doteq \not= \hookrightarrow \mapsto \circ / \setminus \sqcap \sqcup \bot \sqcap \uplus \uplus \cup \sqcap \Leftrightarrow \land \lor \not= \neg \equiv \sqcup \sqcup \sqcap \sqcap \sqcup \sqcap \sqcap \sqcup \sqcup \sqcap \sqcup \sqcup \sqcap \sqcup \sqcup \sqcup \sqcup \sqcup \sqcap \sqcup \sqcup$ | $ \not\geq \leq \leq = \nsim \sim \not\approx \approx \not\simeq \cong \cong \stackrel{?}{=} \doteq \not= \hookrightarrow \mapsto \circ / \setminus \sqcap \sqcup \bot \sqcap \uplus \uplus \cup \cap \circ \cong \land \lor \not= \neg \equiv \sqcup \sqcup \sqcap \sqcap \sqcup \sqcap \sqcap \sqcup \sqcap \sqcup \sqcup \sqcap \sqcup \sqcup \sqcup \sqcup \sqcup \sqcup \sqcup$ | $ \not\geq \leq \leq = \nsim \sim \not\approx \approx \not\simeq \cong \stackrel{?}{\cong} \stackrel{!}{=} \not= \hookrightarrow \mapsto \circ / \setminus \sqcap \sqcup \bot \sqcap \uplus \uplus \cup \cap \subseteq \\ \Rightarrow \land \lor \not\equiv \neg \equiv \sqcup \sqcup \sqcap \sqcap \rbrace ; \\ \{ \} \{ \} \lor \lor \lor \exists \vdash \exists$ | $ \not\geq \leq \leq = \nsim \sim \not\approx \approx \not\simeq \cong \cong \stackrel{?}{=} = \not\Rightarrow \hookrightarrow \mapsto \circ / \setminus \sqcap \sqcup \bot \sqcap \uplus \uplus \cup \cap \subseteq \ni \\ \Rightarrow \land \lor \not\equiv \neg \equiv \exists $ | $ \not\geq \leq \leq = \nsim \sim \not\approx \approx \not\simeq \cong \cong \stackrel{?}{=} \not= \leftrightarrow \mapsto \circ / \setminus \sqcap \sqcup \bot \sqcap \uplus \uplus \cup \cap \subseteq \ni \not\in \\ \Rightarrow \land \lor \not\equiv \neg \equiv \exists $ | $ \not\geq \leq \leq = \nsim \sim \not\approx \approx \not\simeq \cong \cong \stackrel{?}{=} \doteq \not= \hookrightarrow \mapsto \circ / \setminus \sqcap \sqcup \bot \sqcap \uplus \uplus \cup \cap \subseteq \ni \notin \in $ $ \Rightarrow \land \lor \not\equiv \neg \equiv \exists $ | $ \not\geq \leq \leq = \nsim \sim \not\approx \approx \not\simeq \cong \cong \stackrel{?}{=} \doteq \not= \hookrightarrow \mapsto \circ / \setminus \sqcap \sqcup \bot \sqcap \uplus \uplus \cup \cap \subseteq \ni \notin \in \emptyset $ $ \Rightarrow \land \lor \not\equiv \neg \equiv \exists $ | $ \not\geq \leq \leq = \nsim \sim \not\approx \approx \not\simeq \cong \cong \stackrel{?}{=} \not= \leftrightarrow \mapsto \circ / \setminus \sqcap \sqcup \bot \sqcap \uplus \uplus \cup \cap \subseteq \ni \notin \in \emptyset \emptyset $ $ \Rightarrow \land \lor \not\equiv \neg \equiv \exists $ | $ \not\geq \leq \leq = \nsim \sim \not\approx \approx \not\simeq \cong \cong \stackrel{?}{=} = \not\Rightarrow \hookrightarrow \mapsto \circ / \setminus \sqcap \sqcup \bot \sqcap \uplus \uplus \cup \cap \subseteq \ni \notin \in \emptyset \emptyset \models \\ \Rightarrow \land \lor \not\equiv \neg \equiv \exists $ | $ \not\geq \leq \leq = \nsim \sim \not\approx \approx \not\simeq \cong \stackrel{?}{\cong} \stackrel{.}{=} \not= \hookrightarrow \mapsto \circ / \setminus \sqcap \sqcup \bot \sqcap \uplus \uplus \cup \cap \subseteq \ni \notin \in \emptyset \emptyset \models \dashv \Rightarrow \land \lor \not\equiv \neg \equiv \exists $ | $ \not\geq \leq \leq = \nsim \sim \not\approx \approx \varphi \simeq \not\cong \cong \stackrel{?}{=} = \not\Rightarrow \hookrightarrow \mapsto \circ / \setminus \sqcap \sqcup \bot \sqcap \uplus \uplus \cup \sqcap \subseteq \ni \not\in \in \emptyset \emptyset \vDash \dashv \vdash \Rightarrow \land \lor \not\equiv \neg \equiv \exists $ | $ \not\geq \leq \leq = \nsim \sim \not\approx \approx \not\simeq \cong \stackrel{?}{\cong} \stackrel{.}{=} \not= \hookrightarrow \mapsto \circ / \setminus \sqcap \sqcup \bot \sqcap \uplus \uplus \cup \cap \subseteq \ni \notin \in \emptyset \emptyset \models \dashv \vdash \exists \\ \Rightarrow \land \lor \not\equiv \neg \equiv \exists $ | $ \not\geq \leq \leq = \nsim \sim \not\approx \approx \not\simeq \cong \cong \stackrel{?}{=} \doteq \neq \hookrightarrow \mapsto \circ / \setminus \sqcap \sqcup \bot \sqcap \uplus \uplus \cup \sqcap \subseteq \ni \notin \in \emptyset \emptyset \vDash \dashv \vdash \exists \forall \Leftrightarrow \land \lor \neq \neg \equiv \sqcup \sqcup \sqcap \sqcup \sqcup$ | $ \not\geq \leq \leq = \nsim \sim \not\approx \approx \not\simeq \cong \stackrel{?}{=} \dot= \neq \hookrightarrow \mapsto \circ / \setminus \sqcap \sqcup \bot \sqcap \uplus \uplus \cup \sqcap \subseteq \ni \not\in \in \emptyset \emptyset \models \dashv \vdash \exists \forall \Leftarrow \Leftrightarrow \land \lor \not\equiv \neg \equiv \sqcup \sqcup \sqcap \sqcap \sqcup \sqcap \sqcap \sqcup \sqcap \sqcup \sqcap \sqcup \exists \vdash \exists \lor \vdash \exists \forall \Leftrightarrow \land \lor \not\equiv \neg \equiv \sqcup \sqcup \sqcap \sqcap \sqcap \sqcap \sqcap \sqcap \sqcap \sqcup \vdash \exists \vdash$ | $ \not\geq \leq \leq = \nsim \sim \not\approx \approx \not\simeq \cong \stackrel{?}{=} \not= \hookrightarrow \mapsto \circ / \setminus \sqcap \sqcup \bot \sqcap \uplus \uplus \cup \cap \subseteq \ni \not\in \in \emptyset \emptyset \models \dashv \vdash \exists \; \forall \iff \Rightarrow \land \lor \not\equiv \neg \equiv \exists $ | $ \not\geq \leq \leq \leq \sim \sim \approx \approx \neq \simeq \cong \stackrel{?}{=} \stackrel{.}{=} \neq \hookrightarrow \mapsto \circ / \setminus \sqcap \sqcup \bot \sqcap \uplus \uplus \cup \cap \subseteq \ni \notin \in \emptyset \emptyset \models \dashv \vdash \exists \forall \iff \Leftrightarrow \land \lor \neq \neg \equiv \exists \exists$ | $ \times \checkmark :: \otimes \cdot : !! \ominus \circledast \odot \bigcirc \bigcirc \bigcirc \otimes \otimes \ominus \bigoplus \bigoplus \longleftrightarrow \longrightarrow \downarrow \downarrow \downarrow \uparrow \leftrightarrow \leftarrow \rightsquigarrow \rightarrow \rightarrow \downarrow   \exists \exists$ |

# Some of the supported symbols

# Contents

1	Abo	bout this file	:
	1.1	Usage	
	1.2	Required IATEX packages	:
	1.3	3 Contributing to this document	
	1.4		
2	Blac	ackboard, $\mathcal C$ alligraphic, and Bold-font	2
	2.1		
		2.1.1 Lowercase Latin	
		2.1.2 Uppercase Latin	
		2.1.3 Arabic Numerals	
	2.2		
	2.2	• • • • • • • • • • • • • • • • • • •	
		2.2.1 Lowercase Latin	
		2.2.2 Uppercase Latin	
	2.3	2014 10110	
		2.3.1 Lowercase Latin	1
		2.3.2 Uppercase Latin	1
	2.4	${m \mathcal{B}}$ old ${m \mathcal{C}}$ alligraphic	1
		2.4.1 Lowercase Latin	1
		2.4.2 Uppercase Latin	1
3	Oth	ther letters or letterlike symbols	1
4	Gre	reek alphabet	14
	4.1	Normal	1
	4.2	2 Also: var-variants INCOMPLETE	1

<b>5</b>	Sub	o-, Super-, Under-, and Over-scripts	17												
	5.1	Subscripts	17												
		5.1.1 Lowercase alphabet	17												
		5.1.2 Numeric	17												
		5.1.3 Other	17												
	5.2	Superscripts	17												
		5.2.1 Uppercase alphabet	17												
		5.2.2 Lowercase alphabet	18												
		5.2.3 Numeric	18												
		5.2.4 Other	19												
6	Punctuation and Delimiters														
	6.1	Dots	19												
	6.2	Dashes													
	6.3	Parentheses, braces and brackets													
	6.4	Other paired delimiters													
	6.5	Whitespace													
7	Log	ric.	20												
•	7.1	Prepositional													
	7.2	Predicate													
	7.3	Model —Entailment													
	<b>.</b> .														
8		s, relations and functions	20												
	8.1	Sets													
	8.2	Relation operators													
	8.3	Function operators													
	8.4	Relations													
		8.4.1 Equality like													
		8.4.2 Order like	21												
9	Ger	neric or other operators	22												
	9.1	Arrows													
	9.2	"o"-operators	22												
	9.3	Punctuation-like	22												
	9.4	Others	22												
10	Che	eck- & X-marks, and Primes & Ticks	23												
		Check- and X-marks	23												
11	TOI	DO Misc	23												

# 1 About this file

In order to write LATEX documents using unicode in the source code, we must often tell LATEX what we want the unicode characters to be rendered as.

There are at least two ways to inform LATEX of unicode character translations;

- \DeclareUnicodeCharacter; this command does not work with XeLaTeX or LuaLaTeX, which I use.
- \newunicodechar; this command is provided by the newunicodechar package, which may not be preinstalled for all LATEX users.

This collection uses the second.

If any characters look incorrect, that may be a font issue, rather than an issue with this package. But if you have recommendations for alternative translations, such recommendations (or pull requests implementing them) are welcome!

:TODO: recommend fonts

### 1.1 Usage

This file generates (via Org Babel tangling) the file unicode.sty.

To use it, either place it in the same directory as your .tex file, and require it via \usepackage{unicode}. Alternatively, place it in your texmf directory to allow global usage on your system. That directory is commonly located at the following locations on various OS's.

- Linux
  - ~/texmf/tex/latex/local/
- Mac OS X
  - /Users/<user name>/Library/texmf/tex/latex/local/
- Windows 10 (and miktex)
  - C:\Users\<user name>\Appdata\Local\MikTex\<number>\tex\latex\local\
- Windows Vista/7
  - C:\Users\<user name>\texmf\tex\latex\local\
- Windows XP
  - C:\Documents and Settings\<user name>\texmf\tex\latex\local\

By default, we assume the standard pdflatex typesetting engine is used, if you are using XeLaTeX or LuaLaTeX, then simply declare:

\pdflatexfalse

#### 1.2 Required LATEX packages

Of course we require the newunicodechar package to use that command.

```
\usepackage{newunicodechar}
```

```
\usepackage{ifxetex, ifluatex} % Also used in agda.sty: xifthen
```

```
%\newif\ifpdflatex
%\pdflatextrue
%% To use other typesetting engines, declare the following:
%% \pdflatexfalse
```

The unicode-math package "provides a complete implementation of unicode maths for XeLaTeX and Lu-aLaTeX".

#### 1.3 Contributing to this document

This document is written in Emacs using Org mode. While the exported PDF version, etc., show a collection of LaTeX source blocks, these are in fact generated by an Emacs Lisp script below.

That means that contributions to this document should modify the Emacs Lisp script, not unicode.sty or the LATEX source blocks themselves.

### 1.4 The Emacs Lisp script

In this document, several lists of unicode character, LATEX translation pairs are declared, and then "wrapped" into latex source blocks, using this function to map the pairs into newunicodechar declarations.

# 2 Blackboard, $\mathcal{C}$ alligraphic, and Bold-font

These lists are most likely complete, unless I have missed some characters aside from Latin letters, Greek letters and Arabic numerals which should be included.

For Agda users, the unicode symbols may be entered using the following sequences:

Blackboard  $\begin{tabular}{ll} \begin{tabular}{ll} \begin{tabula$ 

#### 2.1 Blackboard

#### 2.1.1 Lowercase Latin

```
\ifpdflatex
\newunicodechar{0}{\ensuremath{\mathbbm{a}}}
\else
\newunicodechar{0}{\ensuremath{\mathbb{a}}}
```

```
\fi
\ifpdflatex
         \else
         \newunicodechar{b}{\ensuremath{\mathbb{b}}}}
\fi
\ifpdflatex
         \newunicodechar{c}{\ensuremath{\mathbbm{c}}}
         \mbox{\colored} \mbox{\color
\fi
\ifpdflatex
         \newunicodechar{d}{\ensuremath{\mathbbm{d}}}}
\else
         \newunicodechar{d}{\ensuremath{\mathbb{d}}}}
\fi
\ifpdflatex
         \newunicodechar{e}{\ensuremath{\mathbb{e}}}}
\fi
\ifpdflatex
         \new unicode char { { }} {\new unicode char { }} {\new unicode char { }} }
         \new unicode char { { } {\new unicode char 
\fi
\ifpdflatex
         \newunicodechar{g}{\ensuremath{\mathbbm{g}}}}
\else
         \newunicodechar{g}{\ensuremath{\mathbb{g}}}}
\fi
\ifpdflatex
         \fi
\ifpdflatex
         \newunicodechar{i}{\ensuremath{\mathbbm{i}}}
         \newunicodechar{i}{\ensuremath{\mathbb{i}}}
\fi
\ifpdflatex
         \new unicode char \{ \normalfootnote{0.05cm} \} \{ \normalfootnote{0.05cm} \{ \normalfootnote{0.05cm} \} \} \}
\else
         \newunicodechar{j}{\ensuremath{\mathbb{j}}}}
\fi
\ifpdflatex
         \else
         \fi
\ifpdflatex
```

```
\else
 \fi
\ifpdflatex
 \newunicodechar{m}{\ensuremath{\mathbbm{m}}}
\else
 \newunicodechar{m}{\ensuremath{\mathbb{m}}}}
\fi
\ifpdflatex
 \fi
\ifpdflatex
 \newunicodechar{0}{\ensuremath{\mathbbm{0}}}
 \fi
\ifpdflatex
 \newunicodechar{p}{\ensuremath{\mathbbm{p}}}}
 \mbox{newunicodechar}{p}{\mbox{ensuremath}\{\mathbb{p}\}}
\fi
\ifpdflatex
 \newunicodechar{q}{\ensuremath{\mathbbm{q}}}}
 \newunicodechar{q}{\ensuremath{\mathbb{q}}}}
\fi
\ifpdflatex
 \else
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\ifpdflatex
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\else
 \newunicodechar{s}{\ensuremath{\mathbb{s}}}}
\fi
\ifpdflatex
 \newunicodechar{\bar{\bar{\bar{t}}}}
 \fi
\ifpdflatex
 \newunicodechar{u}{\ensuremath{\mathbb{u}}}}
\fi
\ifpdflatex
 \newunicodechar{v}{\ensuremath{\mathbbm{v}}}
\else
```

```
\newunicodechar{v}{\ensuremath{\mathbb{v}}}}
\fi
\ifpdflatex
         \newunicodechar{w}{\ensuremath{\mathbbm{w}}}}
         \newunicodechar{w}{\ensuremath{\mathbb{w}}}}
\fi
\ifpdflatex
          \newunicodechar{x}{\ensuremath{\mathbbm{x}}}
          \newunicodechar{x}{\ensuremath{\mathbb{x}}}
\fi
\ifpdflatex
         \newunicodechar{y}{\ensuremath{\mathbbm{y}}}
\else
           \newunicodechar{y}{\ensuremath{\mathbb{y}}}}
\fi
\ifpdflatex
          \mbox{\newunicodechar}{z}{\newunicodechar}{z}}
         \mbox{\codechar}_{\mathbb{Z}}{\codechar}_{\mathbb{Z}}{\codechar}_{\mathbb{Z}}
\fi
2.1.2 Uppercase Latin
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\mbox{\newunicodechar}{\mathbb{B}}{\newunicodechar}{\mathbb{B}}}
\mbox{\newunicodechar}{\mathbb{C}}{\newunicodechar}{\newunicodechar}
\mbox{\newunicodechar}{\mathbb{D}}{\newunicodechar}{\mathbb{D}}}
\mbox{\newunicodechar}{\mathbb{E}}{\newunicodechar}{\mathbb{E}}}
\mbox{\newunicodechar}{\mathbb{F}}{\newunicodechar}{\mathbb{F}}}
\mbox{\newunicodechar}{\mathbb{G}}{\newunicodechar}{\mbox{\newunicodechar}}
\mbox{\newunicodechar}{H}{\consuremath{\mathbb{H}}}
\newunicodechar{||}{\ensuremath{\mathbb{I}}}}
\new unicode char {J}{\new unicode char {J}}{\new unicode char {J}}{\new unicode char {J}}}
\mbox{\newunicodechar}{\mathbb{K}}{\newunicodechar}{\mathbb{K}}}
\mbox{\newunicodechar}{\label{l}}{\newunicodechar}{\label{l}}}
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\new unicode char {P}{\new unicode char {P}}{\new unicode char {P}}{\new unicode char {P}}}
\mbox{\newunicodechar}{\mathbb{Q}}{\newunicodechar}{\mathbb{Q}}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\ne
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\mbox{\newunicodechar}{\mathbb{U}}{\newunicodechar}{\mathbb{U}}}
\new unicode char {V}{\new unicode char {V}}{\new unicode char {V}}{\new unicode char {V}}{\new unicode char {V}}}
\newunicodechar{W}{\left\langle \mathbb{W}\right\rangle }
\mbox{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}
\mbox{\newunicodechar}{\mathbb{Z}}{\newunicodechar}{\mathbb{Z}}{\newunicodechar}{\mathbb{Z}}{\newunicodechar}{\mathbb{Z}}{\newunicodechar}{\mathbb{Z}}{\newunicodechar}{\mathbb{Z}}{\newunicodechar}{\newunicodechar}{\mathbb{Z}}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newuni
```

#### 2.1.3 Arabic Numerals

```
% For double stroke digits with pdflatex
\usepackage[bbgreekl]{mathbbol}
\DeclareSymbolFontAlphabet{\mathbbl}{bbold}
\ifpdflatex
      \newunicodechar{1}{\ensuremath{\mathbbl{1}}}
     \newunicodechar{1}{\ensuremath{\mathbb{1}}}
\fi
\ifpdflatex
     \newunicodechar{2}{\ensuremath{\mathbbl{2}}}}
\else
     \newunicodechar{2}{\ensuremath{\mathbb{2}}}}
\fi
\ifpdflatex
     \newunicodechar{3}{\ensuremath{\mathbbl{3}}}
     \newunicodechar{3}{\ensuremath{\mathbb{3}}}}
\fi
\ifpdflatex
     \newunicodechar{4}{\ensuremath{\mathbbl{4}}}}
\else
     \newunicodechar{4}{\ensuremath{\mathbb{4}}}}
\fi
\ifpdflatex
     \newunicodechar{5}{\ensuremath{\mathbbl{5}}}
     \newunicodechar{5}{\ensuremath{\mathbb{5}}}}
\fi
\ifpdflatex
      \newunicodechar{6}{\ensuremath{\mathbbl{6}}}
     \newunicodechar{6}{\ensuremath{\mathbb{6}}}}
\fi
\ifpdflatex
     \mbox{\newunicodechar}{\label{7}}
\else
     \new unicode char { } {\new unicode char { } {\new unicode char { } } }
\fi
\ifpdflatex
     \newunicodechar{8}{\ensuremath{\mathbbl{8}}}
     \fi
\ifpdflatex
     \newunicodechar{9}{\ensuremath{\mathbbl{9}}}}
     \mbox{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar
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\ifpdflatex
     \newunicodechar{0}{\ensuremath{\mathbbl{0}}}}
```

```
\else
                                                                             \new unicode char {0}{\new unicode char {0}}{\new unicode char {0}{\new unicode char {0}}{\new unicode char {0}{
\fi
```

# 2.2 Calligraphic

#### 2.2.1 Lowercase Latin

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  \new unicode char{a}{\new unicode char{a}}
  \new unicode char \{a\} \{\new unit ode char \{a\}\} \}
\fi
\ifpdflatex
  \new unicode char \{b\} \{\new unicode char \{b\}\} \}
  \mbox{\newunicodechar}{b}{\newunicodechar}{b}}
\fi
\ifpdflatex
  \verb|\newunicodechar|{c}{\newunicodechar}{c}| \\
  \new unicode char \{c\} \{\new unit code char \{c\}\}\}\
\fi
\ifpdflatex
  \mbox{\ensuremath{d}}{\mbox{\ensuremath{d}}}
  \fi
\ifpdflatex
  \new unicode char \{e\} \{\new unimpose e \} \}
  \fi
\ifpdflatex
  \mbox{\ \ } \{\mbox{\ \ \ \ \ } \{\mbox{\ \ \ \ \ } \}
\else
  \new unicode char \{f\} \{\new unicode char \{f\}\} \}
\fi
\ifpdflatex
  \mbox{\ensuremath}{g}{\ensuremath}{g}
  \new unicode char \{g\} \{\new unit ode char \{g\} \} \}
\fi
\ifpdflatex
  \new unicode char \{h\} \{\new unicode char \{h\}\} \}
  \mbox{\newunicodechar}{h}{\columnwidth}
\fi
\ifpdflatex
  \new unicode char \{i\} \{\new unimpose i\} \}
  \new unicode char \{i\} \{\new unit code char \{i\}\} \}
\fi
```

```
\ifpdflatex
              \newunicodechar{j}{\ensuremath{j}}}
             \newunicodechar{j}{\ensuremath{\mathcal{j}}}}
\fi
\ifpdflatex
             \new unicode char \{k\} \{\new unimpose k\} \}
              \new unicode char \{k\} \{\new unit hold \{k\}\} \}
\fi
\ifpdflatex
             \mbox{\ensuremath{l}}{\mbox{\ensuremath{l}}}
             \mbox{\newunicodechar}{l}{\newunicodechar}{l}{\newunicodechar}{l}{\newunicodechar}{l}{\newunicodechar}{l}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{
\fi
\ifpdflatex
             \verb|\newunicodechar|{m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\color=m}{\c
\else
             \fi
\ifpdflatex
             \verb|\newunicodechar{n}{\newunicodechar{n}}|
\else
             \new unicode char \{n\} \{\new unit ode char \{n\} \} \}
\fi
\ifpdflatex
             \newunicodechar{o}{\ensuremath{o}}}
             \newunicodechar{o}{\ensuremath{\mathcal{o}}}}
\fi
\ifpdflatex
             \newunicodechar{p}{\ensuremath{p}}}
             \verb|\newunicodechar|{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\newunicodechar}{p}{\n
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              \new unicode char \{q\} \{\new unimpose a th \{q\}\} \}
              \new unicode char \{q\} \{\new unit ode char \{q\}\} \}
\fi
\ifpdflatex
             \new unicode char\{r\}\{\new unicode char\{r\}\}\}\
\else
             \fi
\ifpdflatex
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             \new unicode char \{s\} {\tt \new unicode char} \{s\} \}
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             \mbox{\ensuremath}{t}{\ensuremath}{t}
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\ifpdflatex
        \new unicode char \{u\} \{\new unimpose unimpose \{u\}\} \}
\else
        \fi
\ifpdflatex
        \new unicode char \{v\} \{\new unimpose \{v\}\}\}\
        \new unicode char \{v\} {\new unicode char \{v\}} 
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\ifpdflatex
        \new unicode char\{w\}\{\new unicode char\{w\}\}\}\
        \noindent \noindent\noindent \noindent \noindent \noindent \noindent \noindent \noin
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        \new unicode char \{z\} \{\new unicode char \{z\}\} \}
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\fi
2.2.2 Uppercase Latin
\new unicode char {A}{\new unicode char {A}}{\new unicode char {A}}{\new unicode char {A}}}
\mbox{\newunicodechar}{B}}
\new unicode char \{C\} {\new unicode char \{C\}} \}
\new unicode char {\mathcal{D}}{\new unicode char {\mathcal{D}}}{\new unicode char {\mathcal{D}}}
\mbox{\codechar}{\mathcal{E}}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codecha
\mbox{\newunicodechar}{\mathcal{F}}{\newunicodechar}{\mathcal{F}}}
\new unicode char {\mathcal{G}}{\new unicode char {\mathcal{G}}} \new unicode char {\mathcal{G}}{\new unicode char {\mathcal{G}}} 
\mbox{\newunicodechar}{\mathcal{H}}{\newunicodechar}{\mathcal{H}}}
\new unicode char {\mathcal{I}}{\new unicode char {\mathcal{I}}} 
\new unicode char {\mathcal{J}}{\new unicode char {\mathcal{J}}}{\new unicode char {\mathcal{J}}}}
\mbox{\newunicodechar}{\mathcal{K}}{\ensuremath}{\mathbb{K}}
\verb|\newunicodechar{$\mathcal{L}$}{\newunicodechar{$L$}}|
\verb|\newunicodechar{$\mathcal{M}$}{\newunicodechar{$\mathbb{M}$}}|
\mbox{\newunicodechar}{\mathcal{O}}{\newunicodechar}{\newunicodechar}
\mbox{\newunicodechar}{\P}{\consuremath{\mathcal}{P}}}
```

```
\label{eq:constant} $$\operatorname{\mathcal{Q}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}} \rightarrow \mathbb{R}} \rightarrow \mathbb{R}} $$\operatorname{\mathcal{R}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}} \rightarrow \mathbb{R}} $$\operatorname{\mathcal{R}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}} \rightarrow \mathbb{R}} $$\operatorname{\mathcal{R}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}} $$\operatorname{\mathcal{R}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}} $$\operatorname{\mathcal{U}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}} $$\operatorname{\mathcal{U}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}_{\operatorname{\mathcal{R}}}
```

#### 2.3 Bold-font

#### 2.3.1 Lowercase Latin

```
\newunicodechar{a}{\ensuremath{\mathbf{a}}}}
\newunicodechar{b}{\ensuremath{\mathbf{b}}}}
\label{conditional} $$\operatorname{c}{\operatorname{c}}{\operatorname{mathbf}\{c\}}$$
\newunicodechar{d}{\ensuremath{\mathbf{d}}}}
\newunicodechar{e}{\ensuremath{\mathbf{e}}}}
\new unicode char {f}{\new unicode char {f}}{\new unicode char {f}}{\new unicode char {f}}{\new unicode char {f}}}
\newunicodechar{g}{\ensuremath{\mathbf{g}}}}
\newunicodechar{h}{\ensuremath{\mathbf{h}}}
\newunicodechar{i}{\ensuremath{\mathbf{i}}}
\newunicodechar{j}{\ensuremath{\mathbf{j}}}}
\newunicodechar{l}{\ensuremath{\mathbf{k}}}
\newunicodechar{l}{\ensuremath{\mathbf{1}}}
\newunicodechar{m}{\ensuremath{\mathbf{m}}}}
\newunicodechar{n}{\ensuremath{\mathbf{n}}}
\newunicodechar{o}{\ensuremath{\mathbf{o}}}}
\newunicodechar{p}{\ensuremath{\mathbf{p}}}}
\newunicodechar{q}{\ensuremath{\mathbf{q}}}}
\newunicodechar{s}{\ensuremath{\mathbf{s}}}}
\new unicode char \{t\} {\new unit} \{t\} \}
\newunicodechar{u}{\ensuremath{\mathbf{u}}}
\new unicode char \{v\} {\new unicode char \{v\}} \}
\newunicodechar{w}{\ensuremath{\mathbf{w}}}}
\newunicodechar{x}{\ensuremath{\mathbf{x}}}
\newunicodechar{y}{\ensuremath{\mathbf{y}}}}
\newunicodechar{z}{\ensuremath{\mathbf{z}}}}
```

### 2.3.2 Uppercase Latin

```
\label{thm:codechar} $$ \operatorname{A}_{\operatorname{A}}_{\operatorname{A}}} \rightarrow \mathbb{A}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}} \rightarrow \mathbb{A}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}} \rightarrow \mathbb{A}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}} \rightarrow \mathbb{A}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}} \rightarrow \mathbb{A}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}} \rightarrow \mathbb{A}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}} \rightarrow \mathbb{A}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}_{\operatorname{A}}
```

```
\mbox{\newunicodechar}{J}{\colored{J}}{\colored{J}}}
\mbox{\newunicodechar}{K}{\colored{K}}
\new unicode char \{L\} \{\new unit hof \{L\}\} \}
\mbox{\newunicodechar}{M}{\c mathbf{M}}
\verb|\newunicodechar{N}{\newunicodechar{N}}| \\
\newunicodechar{O}{\ensuremath{\mathbf{0}}}}
\verb|\newunicodechar{P}{\newunicodechar{P}}| \\
\ensuremath{\ensuremath{Q}}{\ensuremath{\ensuremath{Q}}}
\mbox{\newunicodechar}{S}{\newunicodechar}{S}}
\newunicodechar{T}{\ensuremath{\mathbf{T}}}
\mbox{\newunicodechar}\{U\}{\newunicodechar}\{U\}\}
\new unicode char \{V\} {\new unicode char \{V\}} \}
\newunicodechar{X}{\ensuremath{\mathbf{X}}}}
\mbox{\newunicodechar}{Y}{\colored{Y}}
\mbox{\newunicodechar}{Z}{\newunicodechar}{Z}}
```

### 2.4 $\mathcal{B}$ old $\mathcal{C}$ alligraphic

```
% For bold calligraphic letters
\ifpdflatex
\DeclareMathAlphabet\mathbfcal{OMS}{cmsy}{b}{n}
\fi
```

#### 2.4.1 Lowercase Latin

```
\verb|\newunicodechar|{b}{\newunicodechar}{b}| \\
\verb|\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newunicodechar{|}d}{\newu
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\mbox{\newunicodechar}{h}{\column{h}}
\newunicodechar{i}{\ensuremath{\mathbfcal{i}}}
\newunicodechar{j}{\ensuremath{\mathbfcal{j}}}
\new unicode char \{k\} \{\new unit h\{\nathbf cal\{k\}\}\}\
\verb|\newunicodechar|{l}{\column{l}{}}|
\new unicode char\{m\}\{\new unicode char\{m\}\}\}\
\mbox{\newunicodechar}{n}{\column{n}}
\newunicodechar{o}{\ensuremath{\mathbfcal{o}}}}
\verb|\newunicodechar{|p|}{\newunicodechar{|p|}}|
\verb|\newunicodechar|{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r}{\column{r
\new unicode char \{s\} {\new unicode char \{s\}} \}
\new unicode char \{t\} {\new unicode char \{t\}} \}
\mbox{\newunicodechar}\{u\}{\newunicodechar}\{u\}\}
\new unicode char \{v\} {\new unicode char \{v\}} \}
\mbox{\newunicodechar}\{w\}{\cmath{\mathbb{W}}}
\mbox{\newunicodechar}{x}{\consumerath}{\mbox{\mathbfcal}{x}}}
\mbox{\newunicodechar}{y}{\consuremath}{\mbox{\mathbfcal}{y}}}
\mbox{\newunicodechar}{z}{\newunicodechar}{z}}
```

#### 2.4.2 Uppercase Latin

```
\mbox{\newunicodechar}{A}{\c mathbfcal{A}}
\mbox{\newunicodechar}{\mathcal{B}}{\column{B}}
\mbox{\codechar}{\mathcal{C}}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codecha
\new unicode char \{ \mathcal{D} \} \{ \new unit ode char \{ \mathcal{D} \} \} \}
\mbox{\codechar}{\mathcal{E}}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codecha
\mbox{\newunicodechar}{\mathcal{F}}{\column{F}}
\new unicode char \{G\} \{\new unit ode char \{G\}\} \}
\mbox{\newunicodechar}{\mathcal{H}}{\newunicodechar}{\mathcal{H}}}
\new unicode char {\mathcal{I}}{\new unicode char {\mathcal{I}}}{\new unicode char {\mathcal{I}}}
\new unicode char {\mathcal{J}}{\new unicode char {\mathcal{J}}}{\new unicode char {\mathcal{J}}}}
\mbox{\newunicodechar}(\mathcal{K}){\newunicodechar}(K)}
\verb|\newunicodechar{$\mathcal{L}$}{\newunicodechar{$\mathcal{L}$}}|
\mathbf{M}_{\mathrm{newunicodechar}}(\mathbf{M}_{\mathrm{newunicodechar}})
\verb|\newunicodechar{$\mathcal{N}$}{\newunicodechar{\{N\}}}|
\new unicode char {O}{\new unicode char {O}} {\new unicode char {O}} }
\mbox{\newunicodechar}{\mathcal{P}}{\column{P}}
\new unicode char {\it Q}{\new unicode char {\it Q}}{\new unicode char {\it
\mbox{\newunicodechar}{\mathcal{R}}{\column{R}}
\new unicode char \{S\} \{\new unit ode char \{S\}\} \}
\mbox{\newunicodechar}{\mathcal{T}}{\column{T}}
\mbox{\colored} \mbox{\color
\mbox{\newunicodechar}{\mathcal{V}}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunico
\mbox{\newunicodechar}{\mathcal{W}}{\newunicodechar}{\mathbb{W}}}
\mbox{\newunicodechar}(\mathcal{X}){\newunicodechar}(X)
\mbox{\newunicodechar}{\mathcal{Y}}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunico
\new unicode char \{\mathcal{Z}\} \{\new unit ode char \{\mathcal{Z}\}\} \}
```

# 3 Other letters or letterlike symbols

 $\new unicode char{\ell}{\new unicode char{\ell}}$ 

# 4 Greek alphabet

#### 4.1 Normal

```
\mbox{\newunicodechar}{\Delta}{\colored{\Delta}}
\new unicode char \{\epsilon\} \{\new unit ode char \{\epsilon\}\} \}
\ifpdflatex
           \newunicodechar{E}{\ensuremath{E}}}
\else
          \mbox{\codechar}{E}{\codechar}{\codechar}
\fi
\new unicode char {\zeta}{\new unicode char {\zeta}{\new unicode char {\zeta}}}
\ifpdflatex
          \new = \{Z\} \{\new = \{Z\}\} \}
\else
           \fi
\new unicode char {\eta}{\new unicode char {\eta}{\new unicode char {\eta}}}
\ifpdflatex
           \newunicodechar{H}{\ensuremath{H}}}
          \verb|\newunicodechar{H}{\newunicodechar{H}}{\newunicodechar{H}}|
\fi
\verb|\newunicodechar{$\theta$}{\newunicodechar{$\theta$}}|
\new unicode char {\Theta} {\new unicode char {\Theta
\new unicode char \{\iota\} \{\new unit ode char \{\iota\}\} \}
\ifpdflatex
          \mbox{\ensuremath}\{I\}\{\mbox{\ensuremath}\{I\}\}
\else
           \new unicode char{I}{\new unicode char{I}}
\fi
\new nicode char {\kappa}{\new nicode char {\kappa}}{\new nicode char {\kappa}}{\new nicode char {\kappa}}
\ifpdflatex
           \newunicodechar{K}{\ensuremath{K}}
          \new unicode char \{K\} \{\new unimpose \{K\}\} \}
\fi
\new unicode char {\lambda}{\new unicode char {\lambda}}{\new unicode char {\lambda}
\new unicode char {$\Lambda$} {\new unicode char {$\Lambda$}} 
\mbox{\newunicodechar}\{\mu\}{\newunicodechar}\{\mu\}\}
\ifpdflatex
          \new unicode char \{M\} \{\new unimmath \{M\}\} \}
\else
           \mbox{\newunicodechar}{M}{\consuremath}{\Mu}
\fi
\new unicode char \{\nu\} \{\nu\} \}
\ifpdflatex
           \new unicode char{N}{\new unicode char{N}}
\else
          \new unicode char{N}{\new unicode char{N}}
\mbox{\newunicodechar}{\xi}{\newunicodechar}{\chi i}
\mbox{\newunicodechar}{\Xi}{\newunicodechar}{\Xi}{\newunicodechar}
\ifpdflatex
           \new unicode char {o}{\new unicode char {o}}
\else
```

```
\newunicodechar{o}{\ensuremath{\omicron}}}
 \fi
\ifpdflatex
                    \newunicodechar{O}{\ensuremath{0}}}
                    \newunicodechar{O}{\ensuremath{\Omicron}}}
\fi
 \mbox{\newunicodechar}{\pi}{\consumerath}{\consumerath}
 \mbox{\newunicodechar}{\Pi}{\consuremath}{\Pi}}
 \new unicode char {\rho}{\new unicode char {\rho}}{\new unicode char {\rho}}
\ifpdflatex
                     \newunicodechar{P}{\ensuremath{P}}}
 \else
                    \new unicode char \{P\} \{\new unimpose Applies Applies
\fi
 \new new nicode char {\sigma}{\new new nicode char {\sigma}{\new new new nicode char {\sigma}}}
 \new unicode char {\Sigma}{\new unicode char {\Sigma}{\new unicode char {\Sigma}}}
 \verb|\newunicodechar{$\tau$}{\newunicodechar{$\tau$}}|
 \ifpdflatex
                     \verb|\newunicodechar{T}{\newunicodechar{T}}|
 \else
                    \newunicodechar{T}{\newunicodechar{T}}
 \fi
 \verb|\newunicodechar|{v}{\color=0}|
 \new unicode char {\Upsilon}{\new unicode char {\Upsilon}}{\new unicode char {\Upsilon}
 \mbox{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi}{\newunicodechar}{\phi
 \mbox{\newunicodechar}{\Phi}{\consuremath}{\Phi}
 \mbox{\newunicodechar}{\chi}{\c nsuremath}{\c hi}}
\ifpdflatex
                     \newunicodechar{X}{\ensuremath{X}}}
                    \mbox{\newunicodechar}{X}{\cmath{\Chi}}
 \mbox{\newunicodechar}{\psi}{\newunicodechar}{\psi}{\newunicodechar}{\psi}{\newunicodechar}{\psi}{\newunicodechar}{\psi}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{\newunicodechar}{
 \verb|\newunicodechar{$\Psi$}{\newunicodechar{$\Psi$}}|
 \new unicode char {\omega}{\new unicode char {\omega}{\new unicode char {\omega}}}
 \mbox{\newunicodechar}{\Omega}{\consuremath}
```

#### 4.2 Also: var-variants

incomplete

Note that some of the default Agda input entries are in this list, rather than the default above. Also, varbeta is missing here; it requires a choice of some other package to add support for it.

```
\label{eq:constant} $$\operatorname{\varepsilon}_{\varepsilon}_{\operatorname{\varepsilon}}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\operatorname{\varepsilon}}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon}^{\varepsilon}_{\varepsilon
```

# 5 Sub-, Super-, Under-, and Over-scripts

Note that while the alphabetic lists are complete, **there are missing letters**, because unfortunately Unicode does not have characters for every letter subscript and superscript.

### 5.1 Subscripts

Note there are no uppercase letter subscripts.

#### 5.1.1 Lowercase alphabet

```
\new unicode char \{a\} {\new unicode char \{a\}} 
\newunicodechar{e}{\ensuremath{{}_{e}}}
\newunicodechar{h}{\ensuremath{{}_{h}}}
\newunicodechar{i}{\ensuremath{{}_{i}}}
\verb|\newunicodechar{||}{\newunicodechar{||}}| \\
\new unicode char {k}{\new unicode char {k}}{\new unicode char {k}
\new unicode char \{_l\} \{\new unit = \{l\}\} \}
\verb|\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{|}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodehar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{|}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{||}{\newunicodechar|{|}{\newunicodechar|{|}{\newunicodechar|{|}{\newunicodechar|{|}{\newunicodec
\verb|\newunicodechar{|}_n } {\newunicodechar{|}_n } {\n
\newunicodechar{<sub>o</sub>}{\ensuremath{{}_{o}}}}
\new unicode char {r}{\new unicode char {r}}{\new unicode char {r}
\newunicodechar{s}{\ensuremath{{}_{s}}}
\newunicodechar{<sub>t</sub>}{\ensuremath{{}_{t}}}
\verb|\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{|}{\newunicodechar{||}{\newunicodechar{||}{\newunicodechar{||}{\ne
\verb|\newunicodechar|{||}{v}| \leq math{{||}_{v}}|
\new unicode char {x}{\operatorname{new unicodechar}{x}}
```

#### 5.1.2 Numeric

```
\label{thm:codechar} $$ \operatorname{1}{\operatorname{1}}_{1}} \ \operatorname{1}} \ \operatorname{
```

#### 5.1.3 Other

```
\newunicodechar{_}}{\ensuremath{{}_{+}}}
\newunicodechar{_}}{\ensuremath{{}_{-}}}
\newunicodechar{_}}{\ensuremath{{}_{=}}}
```

#### 5.2 Superscripts

#### 5.2.1 Uppercase alphabet

```
\label{eq:local_abs} $$\operatorname{A}_{\operatorname{A}}(\operatorname{A}_{1}^{A})} $$\operatorname{A}_{1}^{B}} $$\operatorname{A}_{1}^{B}} $$
```

```
\verb|\newunicodechar|^E = \{ \text{lensuremath}_{\{\}}^{E} \} \}
\verb|\newunicodechar| \{G\} \{\newunicodechar| \{G\} \} \}
\new unicode char \{^{H}\} \{\new unicode char \{^{H}\}\} \}
\new unicode char \{^{I}\} \{\new unicode char \{^{I}\}\} \}
\newunicodechar\{J\}{\ensuremath\{\{\}^{J}\}}
\newunicodechar\{K\}{\ensuremath\{\{\}^{K}\}}
\verb|\newunicodechar|{O}| \{ \newunicodechar|{O}| \} \}
\new unicode char \{^P\} \{\new unicode char \{^P\} \} \}
\verb|\newunicodechar|{V}{\newunicodechar}{V}| \\
\mbox{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremath}{\ensuremat
```

#### 5.2.2 Lowercase alphabet

 $\new unicode char {a}{\new unicode char {a}}{\new unicode char {a}}{\new unicode char {a}}}$  $\new unicode char \{^b\} \{\new unicode char \{^b\} \} \}$  $\new unicode char \{^e\} \{\new unimed \{\}^{e}\} \}$  $\new unicode char \{f\} \{\new unit = \{f\}\} \}$  $\new unicode char \{g\} \{\new unit \{g\}\} \}$  $\new unicode char \{^h\} \{\new unicode char \{^h\} \} \}$  $\new unicode char \{i\} \{\new unicode char \{i\}\} \}$  $\new unicode char \{^{l}\} \{\new unicode char \{^{l}\} \}$  $\verb|\newunicodechar|{}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}^m{\newunicodechar}{|}$  $\new unicode char {\it o}{\new unicode char {\it o}{\new$  $\new unicode char \{^p\} \{\new unicode char \{^p\} \} \}$  $\new unicode char \{^r\} \{\new unit math \{\{\}^{r}\}\} \}$  $\new unicode char {s}{\new unicode char {s}}{\new unicode char {s}}}$  $\verb|\newunicodechar| \{^t\} \{\newunited = \{t\}^{t}\} \}$  $\verb|\newunicodechar|{u}{\color=0}| $$ \operatorname{longuremath}{{}{}^{u}} $$$  $\new unicode char \{v\} \{\new unit \{\}^{v}\} \}$  $\new unicode char \{x\} \{\new unimpose x \} \{ \new unimpose x \} \}$  $\new unicode char \{y\} \{\new unimpose \{y\}\} \}$  $\new unicode char{z}{\new unicode char{z}}{\new unicode char{z}}}$ 

#### 5.2.3 Numeric

```
\label{thm:codechar} $$\operatorname{t}{\{}^{5}} \ \operatorname{th}{\{}^{5}} \ \operatorname{th}{\{}^{6}} \ \operatorname{th}{\{}^{6}} \ \operatorname{th}{\{}^{7}} \ \operatorname{th}{\{}^{7}} \ \operatorname{th}{\{}^{7}} \ \operatorname{th}{\{}^{7}} \ \operatorname{th}{\{}^{7}} \ \operatorname{th}{\{}^{8}} \ \operatorname{th}{\{}^{8}} \ \operatorname{th}{\{}^{8}} \ \operatorname{th}{\{}^{9}} \ \operatorname{th}{
```

#### 5.2.4 Other

```
\newunicodechar{+}{\ensuremath{{}^{+}}}
\newunicodechar{-}{\ensuremath{{}^{-}}}
\newunicodechar{=}{\ensuremath{{}^{=}}}
```

# 6 Punctuation and Delimiters

#### 6.1 Dots

```
\newunicodechar{...}{\ensuremath{\ldots}}
\newunicodechar{...}{\ensuremath{\cdots}}
\newunicodechar{;}{\ensuremath{\vdots}}
```

#### 6.2 Dashes

```
\newunicodechar{-}{\ensuremath{\text{--}}}
\newunicodechar{--}{\ensuremath{\text{---}}}
```

### 6.3 Parentheses, braces and brackets

Note there are a few different braces I translate the same way. Braces and parentheses themselves are special characters in Agda, so they cannot be used in names.

```
\newunicodechar{||}{\ensuremath{(\!|)}}
\newunicodechar{||}{\ensuremath{\|\!|)}}
\newunicodechar{||}{\ensuremath{\|\rangle}}
\newunicodechar{||}{\ensuremath{\|\rangle}}
\newunicodechar{||}{\|\ensuremath{\|\mid\|\!\}}}
\newunicodechar{||}{\|\ensuremath{\|\rangle\|\!\|\rangle}}\
\newunicodechar{||}{\|\ensuremath{\|\rangle\|\!\|\rangle}}\
\newunicodechar{||}{\|\ensuremath{\|\f\|\}}\
\newunicodechar{||}{\|\ensuremath{\|\f\|\}}\
\newunicodechar{||}{\|\ensuremath{\|\f\|\}}\
\newunicodechar{||}{\|\ensuremath{\|\f\|\}}\
\newunicodechar{||}{\|\ensuremath{\|\f\|\}}\
\newunicodechar{||}{\|\ensuremath{\|\f\|\}}\
\newunicodechar{||}{\|\ensuremath{\|\f\|\}}\
\newunicodechar{||}{\|\ensuremath{\|\f\|\}}\
\newunicodechar{||}{\|\ensuremath{\|\f\|\}\}}\
```

### 6.4 Other paired delimiters

```
\newunicodechar{|}{\ensuremath{\lfloor}}
\newunicodechar{|}{\ensuremath{\rfloor}}
```

### 6.5 Whitespace

Non-breaking space. Though it may appear as a normal space, it is in fact a ~ in the LATEX —in classic LATEX one writes \,.

```
\newunicodechar{ }{\ensuremath{~}}}
```

I am a very long line whose words are separated by non-breaking spaces so I should run off the page at least at any reaso

# 7 Logic

## 7.1 Prepositional

#### 7.2 Predicate

### 7.3 Model —Entailment

```
\newunicodechar{\\-}{\ensuremath{\vdash}}
\newunicodechar{\\-}{\ensuremath{\dashv}}
\newunicodechar{\\-}{\ensuremath{\vDash}}}
```

# 8 Sets, relations and functions

#### 8.1 Sets

```
\label{thm:post} $$ \operatorname{dechar}{\emptyset}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densuremath}_{\operatorname{densurem
```

#### 8.2 Relation operators

```
\label{thm:linear} $$\operatorname{T}{\operatorname{top}} \rightarrow \operatorname{top}} $$\operatorname{L}_{\operatorname{top}} \rightarrow \operatorname{L}_{\operatorname{top}} \rightarrow \operatorname{L}_{\operatorname{top}} $$\operatorname{Codechar}_{\operatorname{L}_{\operatorname{top}}} \rightarrow \operatorname{L}_{\operatorname{top}} $$\operatorname{Codechar}_{\operatorname{top}} \rightarrow \operatorname{L}_{\operatorname{top}} $$\operatorname{Codechar}_{\operatorname{top}} \rightarrow \operatorname{L}_{\operatorname{top}} $$\operatorname{Codechar}_{\operatorname{top}} \rightarrow \operatorname{L}_{\operatorname{top}} $$\operatorname{Codechar}_{\operatorname{top}} $$
```

#### 8.3 Function operators

#### 8.4 Relations

#### 8.4.1 Equality like

Along with negations where they exist. Note that equivalences are within the 7 section.

#### 8.4.2 Order like

```
\newunicodechar{\leq}}\ensuremath{\leq}}
\newunicodechar{$\\delta\}{\ensuremath{\nleq}}}
\newunicodechar{\geq}}\ensuremath{\geq}}
\newunicodechar{$\tau\}{\ensuremath{\nless}}}
\newunicodechar{≯}{\ensuremath{\ngtr}}
\newunicodechar{\leqq}}
\mbox{\newunicodechar} {\newunicodechar} \
\newunicodechar{≥}{\ensuremath{\geqq}}}
\newnicodechar{\geq}{\newnicodechar{\geq}}{\newnicodechar{\geq}}
\newunicodechar{≲}{\ensuremath{\lesssim}}}
\newunicodechar{≳}{\ensuremath{\gtrsim}}
\newunicodechar{□}{\ensuremath{\sqsubset}}
\newunicodechar{\( \sqrubseteq\) }
\newunicodechar{□}{\ensuremath{\sqsupset}}
\newunicodechar{\(\]}{\ensuremath{\sqsupseteq}}}
\newunicodechar{|}{\ensuremath{\mid}}
```

# 9 Generic or other operators

#### 9.1 Arrows

### 9.2 "o"-operators

Agda users invoke  $\setminus ox$  and  $\setminus 0x$ .

The "directed aggregation" operator  $\hookrightarrow$  is obtained with the Agda input method using  $\r$ .

```
\label{longrightarrowhspace} $$ \operatorname{\mathbb{C}}(Compose)_{\longrightarrowhspace_{-3.5ex}\circ;} \ensuremath_{\!\VCCompose}$$
```

#### 9.3 Punctuation-like

The ':' below is a "ghost colon" that Agda users enter with \:. Its function is to provide an identifier that looks like a colon, but is not a colon —which is a reserved syntactical item in Agda. Main uses of the ghost colon are for quantifier notation to indicate the type of dummy variables.

• We almost always want to display it as a normal colon.

```
\newunicodechar{!}}{\ensuremath{!\!!}}
\newunicodechar{:}{\ensuremath{:}}
```

#### 9.4 Others

Probably some of these belong somewhere else.

```
\newunicodechar{::}{\ensuremath{::}}
\else
  \newunicodechar{::}{\ensuremath{\Colon}}
\fi
```

# 10 Check- & X-marks, and Primes & Ticks

### 10.1 Check- and X-marks

### 11 TODO Misc

```
\newunicodechar{ }{\ensuremath{^{..}}}}
\newunicodechar{CONVERSE}{CONVERSE}
\mbox{\colored} \mbox{\color
% +latex_header: \newunicodechar{}{\ensuremath{QED}}}
\newunicodechar{0}{\ensuremath{\circ}}
\mbox{\codechar}{SHARP}{\consumerath}{SHARP}
\newunicodechar{'}{\ensuremath{'}}
% Agda: \Mix
    \newunicodechar{p}{p}
    \newunicodechar{a}{a}
    \newunicodechar{r}{r}
    \newunicodechar{e}{e}
    \newunicodechar{n}{n}
    \newunicodechar{t}{t}
    \newunicodechar{m}{m}
    \newunicodechar{1}{1}
    \newunicodechar{s}{s}
    \newunicodechar{o}{o}
    \newunicodechar{f}{f}
```