My Unicode Symbol Translations

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Abstract

I tend to use (set-input-method "Agda") in many of my Emacs buffers to provide Unicode support so that \forall immediately produces \forall , and likewise a variety of symbols: \forall $x \bullet x \leq y \approx z \exists \equiv \Rightarrow \land \lor \sqcap \sqcup < \sqsubseteq$.

This Org-mode file produces a LATEX style file which can be utilised in nearly all of my documents which generate PDFs.

The file's 'footer' declares the 'compile command' to perform an (org-babel-tangle) so as to produce the latest style file, then (org-latex-export-to-pdf) to produce this PDF.

 ${\bf Maintained\ at\ https://github.com/alhassy/MyUnicodeSymbols.}$

Contents

1	Top Matter	2
2	Lattices –Sets, Booleans, Quantifiers 2.1 Orders	2 2 2 3 3
3	Equality-Like Symbols	3
4	Brackets	3
5	Greek Letters	4
6	Compositional Operators	4
7	$\mathbf{Types}-\mathbb{N},\mathbb{B},\ \mathbf{etc}$	5
8	Subscript and Superscript	5
9	\mathcal Calligraphy	6
10	Math Italics	6
11	Math Bold	6
12	Misc	7

1 Top Matter

The stmaryrd package provides two types of multiset, or bag, delimiters: thick: \lbag and \rbag; and skinny: \Lbag and \Rbag.

2 Lattices –Sets, Booleans, Quantifiers

2.1 Orders

```
% arbitrary lattice
\newunicodechar{\begin{arrival}{\ensuremath{\sqsubseteq}}}

% numeric
\newunicodechar{\leq}{\ensuremath{\leq}}
\newunicodechar{\leq}{\ensuremath{\geq}}
\newunicodechar{\leq}{\ensuremath{\mid}}  % divisibily ordering

% sets
\newunicodechar{\begin{arrival}{\ensuremath{\subseteq}}}

% logical
\newunicodechar{\begin{arrival}{\ensuremath{\vdash}}}
\DeclareUnicodeCharacter{8872}{\ensuremath{\vdash}}  % semantic consequence
\newunicodechar{\dashv}}
\ensuremath{\dashv}}
```

2.2 Meets & Joins

```
% sets
        \newunicodechar{∩}{\ensuremath{\cap}}
         \newunicodechar{∪}{\ensuremath{\cup}}}
                                              External Elements
 % arbitrary lattice
 \mbox{\newunicodechar}\{\\mbox{\newunicodechar}\}
 \mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodehar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar}{\mbox{\newunicodechar
 % numeric
 \new unicode char {\infty}{\new unicode char{\infty}}
 % sets
 \new unicode char {\emptyset} {\new {\new unicode char {\emptyset} {\new {
 \new unicode char {\emptyset} {\new {\new unicode char {\emptyset} {\new {\new {\new unicode char {\emptyset} {\new {\
                                             Pseudo-Complements
 % arbitrary lattice
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         \mbox{\codechar}{\leftarrow}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{
         \newunicodechar{}{\ensuremath{\hspace{-1em}.}\;\;\,} \% to be used in compound symbol: \rightarrow
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            %% to form a natural transformation
 % boolean
         \newunicodechar{ ⇒ }{\ensuremath{\;\Rightarrow\;}}
         \newunicodechar{¬}{\ensuremath{\lnot}}
 % sets
 \new unicode char{\in}{\new unicode char{\in}}{\new unicode char{\in}}
 \new unicode char {\sim} {\new unicode char {\sim
3
                                    Equality-Like Symbols
 \new unicode char { \neq } {\new unicode char { \neq } }
 \newunicodechar{\\equiv}}
 \mbox{\codechar} \ \iff \ {\codechar} \ \
 \new unicode char {\approx} {\new unicode char {\approx}} 
 \newunicodechar{\\( \) \ensuremath{\cong}}
 \newunicodechar{=}{\ensuremath{:\!=}}
 Brackets
4
         \newunicodechar{|}{\ensuremath{\lfloor}}
         \newunicodechar{|}{\ensuremath{\rfloor}}
         \newunicodechar{[]}{\ensuremath{\lceil}}
         \newunicodechar{]}{\ensuremath{\rceil}}
```

5 Greek Letters

6 Compositional Operators

```
\mbox{\codechar}{\oplus}{\codechar}{\codechar}
\new unicode char {\otimes} {\new unicode char {\otimes}} 
\newunicodechar{\circ} {\ensuremath{\odot}}
 \newunicodechar{$}{\ensuremath{\mathop{\fatsemi}}}
\newunicodechar{<|}{\ensuremath{\lhd}}}
\newunicodechar{0}{\ensuremath{\circ}}
\newunicodechar{}{\ensuremath{\llangle}}
\newunicodechar{}{\ensuremath{\rrangle}}
\mbox{\newunicodechar}{\cline{\cline{langle}}}
\newunicodechar{\}}{\ensuremath{\rangle}}
\newunicodechar{\}{\ensuremath{\backslash}}
                                               % under
\newunicodechar{/}{\ensuremath{/}}  % over
\newunicodechar{0}{\ensuremath{\circ}} % Looks like, but is not bullet!
\newunicodechar{*}{\ensuremath{\star}}
 \newunicodechar{\times}}
\newunicodechar{•}{\ensuremath{\bullet}}
\newunicodechar{:}{\ensuremath{:}} % ghost colon, Agda input "\:".
\verb|\newunicodechar{$\triangle$}{\newunicodechar{$\triangle$}}|
\newunicodechar{\bar{\bar{\triangledown}}}
```

```
\DeclareUnicodeCharacter{9829}{\ensuremath{\heartsuit}} %
\DeclareUnicodeCharacter{9733}{ {\color{red}$\bigstar$} } % should be printed red ;-)
  Types -\mathbb{N}, \mathbb{B}, \text{ etc}
```

```
\mbox{\newunicodechar}{\mathcal{N}}{\newunicodechar}{\mathbb{N}}}
\mbox{\newunicodechar}{\N}{\newunicodechar}
\mbox{\codechar}{B}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{
\newunicodechar{1}{\ensuremath{\mathbb{1}}}
```

8 Subscript and Superscript

```
\DeclareUnicodeCharacter{7525}{\ensuremath{_}}} % subscript v
 \DeclareUnicodeCharacter{8343}{\ensuremath{_\ell}} % subscript
 \newunicodechar{o}{\ensuremath{^o}}}
 \new unicode char{p}{\new unicode char{p}}
 \newunicodechar{+}{\ensuremath{_+}}}
 \newunicodechar{0}{\ensuremath{_0}}}
 \newunicodechar{1}{\ensuremath{_1}}}
 \newunicodechar{2}{\ensuremath{_2}}}
 \newunicodechar{3}{\ensuremath{_3}}}
 \new unicode char{a}{\new unicode char{a}}
% I have no access to subscript b,c,d with my "current" agda input mode -- to fix!
\new unicode char \{e\} {\new unicode char \{e\} \}}
% I have no access to subscript f,g with my "current" agda input mode -- to fix!
 \new unicode char{h}{\new unicode char{h}}
 \newunicodechar{i}{\ensuremath{_i}}}
 \newunicodechar{i}{\ensuremath{_j}}}
 \new unicode char \{k\} {\new unicode char \{k\} \}}
 \newunicodechar{i}{\ensuremath{_1}}}
 \new unicode char\{m\}{\new unicode char\{m\}}\}
 \new unicode char{n}{\new unicode char{n}}
 \newunicodechar{o}{\ensuremath{_o}}}
 \new unicode char \{_p\} \{\new unicode char \{_p\} \}
% I have no access to subscript q with my "current" agda input mode -- to fix!
 \new unicode char\{r\}{\new unicode char\{r\}}
 \newunicodechar{s}{\ensuremath{_s}}}
 \newunicodechar{t}{\ensuremath{_t}}}
 \new unicode char \{u\} \{\new unimpose a th \{u\}\} \}
\new unicode char \{v\} {\new unicode char \{v\} \}}
% I have no access to subscript w with my "current" agda input mode -- to fix!
\new = x {\new = x} {\new = x} 
% I have no access to subscript y with my "current" agda input mode -- to fix!
% I have no access to subscript z with my "current" agda input mode -- to fix!
```

9 \mathcal Calligraphy

```
\mbox{\newunicodechar}{l}{\newunicodechar}{l}{\newunicodechar}{l}}
\new unicode char\{r\}{\new unicode char\{r\}}
\mbox{\codechar}{\mathcal{F}}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\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
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\new unicode char\{n\}\{\new unicode char\{n\}\}\}\
 \new unicode char\{c\}\{\new unicode char\{c\}\}\}\
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 \mbox{\newunicodechar}{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
 \mbox{\newunicodechar}{\mathcal{D}}{\column{Consuremath}{\mathbb{Q}}}
\verb|\newunicodechar{$\mathcal{E}$}{\newunicodechar{$\mathbb{E}$}}|
\new unicode char{e}{\new unicode char{e}}
\new unicode char \{g\} \{\new unimpose g\} \}
\new unicode char \{l\} \{\text{textit}\{1\}\}
 \mbox{\newunicodechar}{\mathcal{L}}{\newunicodechar}{\hbar}
\mbox{\codechar}{\mathcal{R}}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\codechar}{\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{\codechar}{T}{\codechar}{T}{\codechar}{T}}
\new unicode char\{t\}\{\new unicode char\{t\}\}\}\
\ensuremath{\ensuremath{nathcal{0}}}
```

10 Math Italics

```
\new unicode char{a}{\operatorname{a}}{\operatorname{mathit}_a}}
\new unicode char \{b\} \{\new unit \{b\}\} \}
\new unicode char\{c\}\{\new unicode char\{c\}\}\}
\mbox{\newunicodechar}{d}{\consumerath}{\mbox{\mbox{\mbox{mathit}}{d}}}
\verb|\newunicodechar|{e}{\newunicodechar}{e}| \\
\mbox{\newunicodechar}{f}{\consumerath}{\mbox{\mathit}{f}}
\new unicode char \{g\} \{\new unit \{g\}\} \}
\verb|\newunicodechar{h}{\newunicodechar{h}}| \\
\newunicodechar{i}{\ensuremath{\mathit{i}}}
\verb|\newunicodechar{|j|}{\newunicodechar{|j|}}|
\new unicode char \{k\} \{\new unit \{k\}\} \}
\newunicodechar{l}{\ensuremath{\mathit{1}}}}
\mathbf{m}_{\mathrm{mathit}}
\mbox{\newunicodechar}{n}{\consumerath{\mathit\{n\}}}
\new unicode char {o}{\new unicode char {o}}{\new unicode char {o}
\new unicode char \{p\}{\new unicode char \{p\}}\}
\mbox{\newunicodechar}{q}{\columnwidoechar}{q}{\columnwidoechar}{q}}
\new unicode char\{r\}{\new unicode char\{r\}}
```

11 Math Bold

12 Misc

```
\newunicodechar{-}{\text{\textemdash}}
   \DeclareUnicodeCharacter{9472}{---} % \---
   % \DeclareUnicodeCharacter{8759}{\ensuremath{::\!}} % ::
   \newunicodechar{::}{\ensuremath{:\,:}}
   \mbox{\codechar}\{\cdots\}\{\mbox{\codechar}\{\mbox{\codechar}\}\}
   \newunicodechar{:}{\ensuremath{\vdots}}
\mbox{\codechar}{\leftarrow}{\codechar}{\leftarrow}
\mbox{\it \%} In LaTeX documents, the "¿" is written as ?` (question mark, backtick) or \textquestiondown,
% and ";" as !` (exclamation point, backtick) or \textexclamdown.
   \newunicodechar{;}{\text{!`}}
   \newunicodechar{¿}{\text{?`}}}
   \DeclareUnicodeCharacter{8265}{ {\color{red}\large !? } } %
   \DeclareUnicodeCharacter{8603}{\ensuremath{\nrightarrow}} %, partial functions
    \begin{tabular}{ll} % & $$ \end{tabular} \label{table} \begin{tabular}{ll} % & $$ \end{tabular} \begin{tabular}{ll} % & $$ \end{tabular} \begin{tabular}{ll} % & $\end{tabular} \begin{tabular}{ll} % & $\end{tabu
   \DeclareUnicodeCharacter{120015}{\ensuremath{\mathfrak{z}}}} % fancy small z
   \DeclareUnicodeCharacter{8239}{\ensuremath{\,}} % \, %% an invisible space
   \newunicodechar{\( \mathbf{X}\) \\ \ding\( \frac{55} \) \\
```