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 $x \bullet x \le y \approx z \exists \exists \Rightarrow \land \lor \lor \sqcap \sqcup < \sqsubseteq$.

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.

Maintained at https://github.com/alhassy/CheatSheet

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```
Top Matter
1
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{MyUnicodeSymbols}[2019/01/30 Unicode Symbol Translations]
\RequirePackage[utf8]{inputenc}
 \RequirePackage{newunicodechar}
 \RequirePackage{bbold}
                          % \mathbb{n} to make double stroke digit
 \RequirePackage{pifont}
 \RequirePackage{stmaryrd}
 \RequirePackage{MnSymbol}
                            % Incompatible with amssymb.
 \RequirePackage{amsthm}
   The stmaryrd package provides two types of multiset, or bag, delimiters: thick: \lbag and \rbag; and skinny:
\Lbag and \Rbag.
    Lattices –Sets, Booleans, Quantifiers
2
    Orders
2.1
% arbitrary lattice
\newunicodechar{□}{\ensuremath{\sqsubset}}
 \newunicodechar{\begin{aligned} \ensuremath{\sqsubseteq}}
 \newunicodechar{⊒}{\ensuremath{\sqsupseteq}}
% numeric
\newunicodechar{≤}{\ensuremath{\leq}}
\newunicodechar{≥}{\ensuremath{\geq}}
\newunicodechar{|}{\ensuremath{\mid}}  % divisibily ordering
% sets
\newunicodechar{c}{\ensuremath{\subset}}
\newunicodechar{⊆}{\ensuremath{\subseteq}}
% logical
\newunicodechar{⊢}{\ensuremath{\vdash}}
 \newunicodechar{⊨}{\ensuremath{\vDash}} % semantic consequence ⊨
 \newunicodechar{-}{\ensuremath{\dashv}}
2.2
     Meets & Joins
```

```
\mbox{\newunicodechar}{\newunicodechar}{\newunicodechar}
    \newunicodechar{\fill}\{\ensuremath\\exists\}
    \newunicodechar{∀}{\ensuremath{\forall}}
% sets
   \new unicode char {\cap} {\new unicode char {\cap} {\new unicode char {\cap}}}
   \newunicodechar{∪}{\ensuremath{\cup}}
% types
   \newunicodechar \{ \cup \} \{ \newunicodechar \{ \cup \} \} \}  # Agda u+
    External Elements
% arbitrary lattice
\newunicodechar{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\percent{\par\tarrap}\}\parcent{\parcent{\parcent{\parcent{\parcent{\parcent{\parcent{\par
\newunicodechar{T}{\ensuremath{\top}}
% numeric
\new unicode char {\infty}{\new unicode char {\infty}}{\new unicode char {\infty}
% sets
\newunicodechar{Ø}{\ensuremath{\emptyset}}}
\newunicodechar{Ø}{\ensuremath{\emptyset}}}
                    Pseudo-Complements
2.4
% arbitrary lattice
    \newunicodechar{→}{\ensuremath{\to}}}
    \newunicodechar{←}{\ensuremath{\leftarrow}}}
    \label{longright} $$\operatorname{longrightarrow}$ % pseudo-complement $$
    %% to form a natural transformation
% boolean
    \newunicodechar{ ⇒ }{\ensuremath{\;\Rightarrow\;}}
    \mbox{\codechar} \leftarrow {\codechar} \
    \newunicodechar{¬}{\ensuremath{\lnot}}
% sets
\new unicode char{\epsilon}{\new unicode char{\epsilon}{\new unicode char{\epsilon}}}
\newunicodechar{~}{\ensuremath{\sim}}
                Equality-Like Symbols
3
\newunicodechar{#}{\ensuremath{\neq}}
\newunicodechar{\\pi}{\ensuremath{\nequiv}}
\mbox{\ensuremath{\codechar}{}}
\newunicodechar{≈}{\ensuremath{\approx}}
\newunicodechar{\(\circ\)}\ensuremath{\cong}}
\newunicodechar{\=}{\ensuremath{:\!=}}
% \newunicodechar{8788}{\ensuremath{\mathrel{{:}{=}}}}} % =
```

4 Brackets

```
\newunicodechar{|}{\ensuremath{\lfloor}}
\newunicodechar{|}{\ensuremath{\rfloor}}
\newunicodechar{[]}{\ensuremath{\lceil}}
\newunicodechar{]}{\ensuremath{\rceil}}
\label{langle} $$\operatorname{\codechar}({\cd})=\operatorname{\cd}({\cd})$
\newunicodechar{\(\)\}\{\ensuremath\{\rrangle\}\}
\newunicodechar{\langle}}
\newunicodechar{}){\ensuremath{\rangle}}
\newunicodechar{||)}{\ensuremath{|\!)}}
%
% \newunicodechar{10631}{\ensuremath{(\hspace{-0.4ex}/)}} % (
% \newunicodechar{10632}{\ensuremath{|\hspace{-0.4ex}|}} % )
\newunicodechar{\(\bar\)}\ensuremath{\Lbag}}
\mbox{\newunicodechar}{\newunicodechar}{\newunicodechar}
\new unicode char{|}}{\new unicode char{|}}{\new unicode char{|}}}{\new unicode char{|}}
```

5 Greek Letters

```
\verb|\newunicodechar{$\tau$}{\newunicodechar{$t$}}|
\new unicode char {\lambda}{\new unicode char {\lambda}}{\new unicode char {\lambda}
\new unicode char \{\gamma\} \{\new unit ode char \{\gamma\}\} \}
\mbox{\newunicodechar}{\delta}{\consumerath}{\delta}
\new unicode char {\sigma}{\new unicode char {\sigma}{\new unicode char {\sigma}}}
\new unicode char \{\theta\} \{\new unicode char \{\theta\}\} \}
\newunicodechar{\eta}{\ensuremath{\eta}}
\new unicode char \{\epsilon\} \{\new unit ode char \{\epsilon\}\} \}
\newunicodechar{\mu}{\ensuremath{\mu}}}
  \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}{\pi}{\consuremath}{\pi}}
  % capital letters
\new unicode char {\Phi}{\new unicode char {\Phi}}{\new unicode char {\Phi}
\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
\new new nicode char {\Gamma}{\new new nicode char {\Gamma}{\new new new nicode char {\Gamma}}{\new new nicode char {\Gamma}}{\new new nicode char {\Gamma}}{\new new nicode char {\Gamma}}{\new nicode char

  \setminus \{\Pi \in \Pi \in \Pi \}
```

6 Compositional Operators

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\newunicodechar{$}{\ensuremath{\mathop{\fatsemi}}}
   \newunicodechar{/}{\ensuremath{/}}  % over
   \newunicodechar{\o}{\ensuremath{\circ}} % Looks like, but is not bullet!
   \newunicodechar{*}{\ensuremath{\star}}
   \newunicodechar{x}{\ensuremath{\times}}
   \newunicodechar{•}{\ensuremath{\bullet}}
   \newunicodechar{:}{\ensuremath{:}} % ghost colon, Agda input "\:".
   \newunicodechar{<}{\ensuremath{\lhd}}}
   \mbox{\newunicodechar} \Delta {\newunicodechar} \
   \newunicodechar{\noting}{\ensuremath{\triangledown}}
   % Z-notation: (\oplus dummies | range \bullet body)
   \def\with{\kern0.7em \withrule \kern0.7em }
   \def\withrule{\vrule height1.57ex depth0.43ex width0.12em}
   \newunicodechar{ | }{\ensuremath{\mathop{\with}}}
   \newunicodechar{♡}{\ensuremath{\heartsuit}}
   \newunicodechar{ ★ }{ {\color{red}$\bigstar$} } % red ★
             Types – \mathbb{N}, \mathbb{B}, etc
   \label{lem:newunicodechar} $$\operatorname{N}_{\operatorname{N}}(\operatorname{Mathcal}_{\mathbb{N}})$$
   \mbox{\codechar}{\mathbb{Z}}{\codechar}{\codecha
   \mbox{\codechar}{B}{\codechar}{
   \newunicodechar{1}{\ensuremath{\mathbb{1}}}
8
             Subscript and Superscript
   \newunicodechar{v}{\ensuremath{_\mathcal{V}}} % subscript v
   \newunicodechar{o}{\ensuremath{^o}}}
   \new unicode char{p}{\new unicode char{p}}
   \newunicodechar{+}{\ensuremath{_+}}}
   \new unicode char \{0\} \{\new unimed at h\{0\}\} \}
   \new unicode char \{1\} {\new unicode char \{1\} \}}
   \newunicodechar{2}{\ensuremath{_2}}}
   \newunicodechar{3}{\ensuremath{_3}}}
   \new unicode char {4}{\new unicode char {4}}
   \verb|\newunicodechar{5}{\newunicodechar{5}}| \\
  \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!
```

```
\newunicodechar{e}{\ensuremath{_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}}
 \new unicode char \{_i\} \{\new unimpose i\} \}
 \newunicodechar{i}{\ensuremath{_j}}}
 \new unicode char{k}{\new unicode char{k}}
 \newunicodechar{_{1}}{\ensuremath{_1}}}
 \new unicode char\{m\}{\new unicode char\{m\}}\}
 \new unicode char \{n\} \{\new unimpose n \in \{n\}\} \}
 \new unicode char {_o}{\new unicode char {_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}}
 \new unicode char \{t\} {\new unicode char \{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!
     \mathcal Calligraphy
 \mbox{\newunicodechar}{l}{\newunicodechar}{l}{\newunicodechar}{l}}
```

```
\mbox{\newunicodechar}{r}{\consumerath{\mathcal}{r}}
\mbox{\codechar}{\mathcal{M}}{\codechar}{\mathcal{M}}}
 \mbox{\newunicodechar}{\mathcal{F}}{\newunicodechar}{\mathcal{F}}}
\new unicode char \{u\} \{\new unimpose 
 \new unicode char\{n\}\{\new unimpression \{n\}\}\}\
\new unicode char\{c\}\{\new unicode char\{c\}\}\}\
\mbox{\codechar}{A}{\codechar}{A}}
 \mbox{\newunicodechar}{\mathcal{B}}{\newunicodechar}{\mathbb{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{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
\new unicode char{e}{\new unicode char{e}}
\new unicode char \{g\} \{\new unimpose g\} \}
\new unicode char{l}{\text{textit}{1}}
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\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
\verb|\newunicodechar{S}{\newunicodechar{S}}| \\
\label{thm:local} $$\operatorname{T}_{\operatorname{mathcal}\{T\}}$
 \new unicode char\{t\}\{\new unicode char\{t\}\}\}\
```

10 Math Italics

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\label{thm:codechar} $$ \operatorname{f}_{\operatorname{mathit}_{f}} \operatorname{mathit}_{f}} \operatorname{mathit}_{f}_{\operatorname{mathit}_{f}} \operatorname{mathit}_{f}_{\operatorname{mathit}_{f}}_{\operatorname{m
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11 Math Bold

12 Misc

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\newunicodechar{-}{\text{\textemdash}}
\DeclareUnicodeCharacter{9472}{---} % \---
% \DeclareUnicodeCharacter{8759}{\ensuremath{::\!}} % ::
\newunicodechar{::}{\ensuremath{:\,:}}
\newunicodechar{\cdots}}
\newunicodechar{:}{\ensuremath{\vdots}}
\newunicodechar{\sigma}\left\{\smile}}
\newunicodechar{~}{\ensuremath{^\smile}}
\newunicodechar{'}{'}
\newunicodechar{''}{''}}
\newunicodechar{□}{\ensuremath{\qedsymbol}}
\newunicodechar{\(\rightarrow\)}{\ensuremath{\mapsto}}}
% In LaTeX documents, the "¿" is written as ?' (question mark, backtick) or \textquestiondown,
% and ";" as !' (exclamation point, backtick) or \textexclamdown.
\newunicodechar{;}{\text{!'}}
\newunicodechar{;}{\text{?'}}}
\newunicodechar{ !? }{ {\color{red}\large !? } }
\newunicodechar{→}{\ensuremath{\nrightarrow}}} % partial functions
\newunicodechar{}{\ensuremath{\,}} % \, %% an invisible space
\newunicodechar{\( \mathbf{X}\) \} \
```