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neoshorthands

Abstract

This is the documentation of the package neoshorthands. It is a tool to use the powerfull Neo-layout with XeLaTeX. It does not do very much, but mapping many of the usefull symbols to TeX commands. will be converted to \tau. This package does *not* define fancy commands and is therefore very robust. Just say \usepackage{neoshorthands}. If you find any incompatiblities with any package, pleas drop me a mail and maybe I can take care of it.

The single command of this package is \neoshorthand{ }\tau wich maps the command onto the given symbol. You can add your own definitions, but please consider to send me the code so I could add it to the package. Only with the help of many people, this package can be usefull for many people!

\sh{ }\tau is a shorthand for \neoshorthand. It could have been \ns for \neoshorthand, but I found \ns not to be an appropriate macro name.

Special thanks to the guys on german TeX mailinglist tex-d-l who gave me the code (I copied it from the alttex package).

Contents

Implementation

First, the helper macros. Thanks to the german mailinglist participants!

\add@special
```
\def\add@special#1{%
  \rem@special{#1}%
  \expandafter\gdef\expandafter\dospecials\expandafter
{\dospecials␣\do␣#1}%
  \expandafter\gdef\expandafter\@sanitize\expandafter
{\@sanitize␣\@makeother␣#1}}
```
\rem@special
```
\def\rem@special#1{%
  \def\do##1{%
    \ifnum`#1=`##1␣\else␣\noexpand\do\noexpand##1\fi}%
  \xdef\dospecials{\dospecials}%
  \begingroup
    \def\@makeother##1{%
```

```
      \ifnum`#1=`##1␣\else␣\noexpand\@makeother\noexpand##1\fi}%
    \xdef\@sanitize{\@sanitize}%
  \endgroup}
\neoshorthand
\def\neoshorthand#1#2{%
  \expandafter\ifx\csname␣cc\string#1\endcsname\relax
    \add@special{#1}%
    \expandafter
    \xdef\csname␣cc\string#1\endcsname{\the\catcode`#1}%
    \begingroup
      \catcode`\~\active␣␣\lccode`\~`#1%
      \lowercase{%
      \global\expandafter\let
         \csname␣ac\string#1\endcsname~%
      \expandafter\gdef\expandafter~\expandafter{#2}}%
    \endgroup
    \global\catcode`#1\active
  \else
  \fi
}
\let\sh\neoshorthand
```

And from here on, the great list of symbols is defined.

greek

```
\sh{ }\alpha
\sh{ }\beta
\sh{ }\gamma
\sh{ }\delta
\sh{ }\epsilon
\sh{ }\eta
\sh{ }\mu
\sh{ }\nu
\sh{ }\pi
\sh{ }\psi
\sh{ }\zeta
\sh{ }\tau
\sh{ }\omega
```

```
\sh{Γ}\Gamma
\sh{Δ}\Delta
\sh{Π}\Pi
\sh{Ξ}\Xi
```

careful! Σ will give a sum-sign, not a Sigma!!

```
\sh{Σ}\sum
\sh{Ω}\Omega
```

arrows

```
\sh{ }\Leftarrow
\sh{ }\Rightarrow
\sh{ }\Leftrightarrow
\sh{→}\rightarrow
```

mathematical symbols

```
\sh{√}\sqrt
\sh{ }\int
\sh{ }\partial
\sh{ }\exists
\sh{ϖ}\infty
\sh{ }\aleph
\sh{ }\emptyset
```

sets and logic

```
\sh{ }\subset
\sh{ }\|cup
\sh{ }\||cap
\sh{ }\in
\sh{ }\notin␣% better than \not\in!
\sh{ }\forall|
```

```
\section{blackboard␣bold}
\sh{ }\mathbb{C}
\sh{ }\mathbb{N}
\sh{ }\mathbb{R}
\sh{ }\mathbb{Q}
\sh{ }\mathbb{Z}
```

```
\let\sh\undefined
```

If you want to change a certain symbol in your document, you have to use the command `\neoshorthand`, as `\sh` will no longer be defined after this package is loaded. I think, the name is too good to be blocked by such a function.

⟨/package⟩

□