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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 Xalate. 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 incompatibilities 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-1 who gave me the code (I copied it from the alttex package).

Contents

Implementation	1
greek	2
arrows	3
mathematical symbols	3
sets and logic	3
contributors	3

Implementation

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

\add@special

- 1 \def\add@special#1{%
- 2 \rem@special{#1}%
- 3 \expandafter\gdef\expandafter\dospecials\expandafter
- 4 {\dospecials_\do_#1}%
- 5 \expandafter\gdef\expandafter\@sanitize\expandafter
- 6 {\@sanitize_\@makeother_#1}}

\rem@special

- 7 \def\rem@special#1{%
- \def\do##1{%
- $9 \quad \text{ifnum`#1=`##1$_\else$_\noexpand$_do\noexpand##1$_i}%$
- 10 \xdef\dospecials{\dospecials}%
- 11 \begingroup

```
\def\@makeother##1{%
             12
                      \ifnum`#1=`##1_\else_\noexpand\@makeother\noexpand##1\fi}%
             13
                    \xdef\@sanitize{\@sanitize}%
             14
                 \endgroup}
             15
             16 \def\neoshorthand#1#2{%
\neoshorthand
                 \expandafter\ifx\csname\cc\string#1\endcsname\relax
             17
                    \add@special{#1}%
             18
                    \expandafter
                    \xdef\csname\cc\string#1\endcsname{\the\catcode`#1}%
                    \begingroup
             21
                      \code^{\alpha} \code^{\alpha} \code^{\alpha}
             22
                      \lowercase{%
             23
                      \global\expandafter\let
             24
                         \csname_ac\string#1\endcsname~%
                      \expandafter\gdef\expandafter~\expandafter{#2}}%
             26
                    \endgroup
             27
                    \global\catcode`#1\active
             28
                 \else
             29
                 \fi
             31 }
             32 \let\sh\neoshorthand
```

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

greek

```
33 \sh{}\alpha
34 \sh{ }\beta
35 \sh{}\gamma
36 \sh{ }\delta
37 \sh{ }\epsilon
38 \sh{ }\eta
39 \sh{ }\mu
40 \sh{ }\nu
41 \sh{ }\pi
42 \sh{ }\psi
43 \sh{ }\zeta
44 \sh{ }\tau
45 \sh{ }\omega
46 \ \sinh{\Gamma} \setminus Gamma
49 \ \sinh{\Xi}\Xi
  careful! \Sigma will give a sum-sign, not a Sigma!!
50 \ \sinh{\Sigma} \sum
51 \ \h{\Omega}\Omega
```

arrows

52 \sh{ }\Leftarrow
53 \sh{ }\Rightarrow
54 \sh{ }\Leftrightarrow
55 \sh{→}\rightarrow

mathematical symbols

```
56 \sh{√}\sqrt
57 \sh{ }\int
58 \sh{ }\partial
59 \sh{ }\exists
60 \sh{ω}\infty
61 \sh{ }\aleph
62 \sh{ }\emptyset
```

sets and logic

```
63 \sh{}\subset
64 \sh{}\|cup
65 \sh{}\|lcap
66 \sh{}\in
67 \sh{}\notin_\% better than \not\in!
68 \sh{}\forall|
69 \section{blackboard_\bold}
70 \sh{}\mathbb{C}
71 \sh{}\mathbb{N}
72 \sh{}\mathbb{R}
73 \sh{}\mathbb{Q}
74 \sh{}\mathbb{Q}
75 \let\sh\undefined
76 \leftarrow \package\rightarrow
```

contribution

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. Thanks to all people that have submitted additions:

Dennis-f