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neoshorthands

Abstract

This is the documentation of the package neoshorthands. It is a tool to use the power-full Neo-layout with X∃LATEX. 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   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{%
               8   \def\do##1{%
               9     \ifnum`#1=`##1␣\else␣\noexpand\do\noexpand##1\fi}%
              10   \xdef\dospecials{\dospecials}%
```

```
11    \begingroup
12      \def\@makeother##1{%
13        \ifnum`#1=`##1␣\else␣\noexpand\@makeother\noexpand##1\fi}%
14      \xdef\@sanitize{\@sanitize}%
15    \endgroup}
```

```
16  \def\neoshorthand#1#2{%
17    \expandafter\ifx\csname␣cc\string#1\endcsname\relax
18      \add@special{#1}%
19      \expandafter
20      \xdef\csname␣cc\string#1\endcsname{\the\catcode`#1}%
21      \begingroup
22        \catcode`\~\active␣␣\lccode`\~`#1%
23        \lowercase{%
24        \global\expandafter\let
25            \csname␣ac\string#1\endcsname~%
26        \expandafter\gdef\expandafter~\expandafter{#2}}%
27      \endgroup
28      \global\catcode`#1\active
29    \else
30    \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  \sh{Γ}\Gamma
47  \sh{Δ}\Delta
48  \sh{Π}\Pi
49  \sh{Ξ}\Xi
```

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

```
50  \sh{Σ}\sum
51  \sh{Ω}\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{∞}\infty
61 \sh{ }\aleph
62 \sh{ }\emptyset
```

sets and logic

```
63 \sh{ }\subset
64 \sh{ }\cup
65 \sh{ }\cap
66 \sh{ }\in
67 \sh{ }\notin␣% better than \not\in!
68 \sh{ }\forall
```

blackboard bold

```
69 \sh{ }\mathbb{C}
70 \sh{ }\mathbb{N}
71 \sh{ }\mathbb{R}
72 \sh{ }\mathbb{Q}
73 \sh{ }\mathbb{Z}

74 \let\sh\undefined

75 ⟨/package⟩
```

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

□