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neoshorthands

Abstract

This is the documentation of the package neoshorthands. It is a tool to use the powerful Neo-layout with X_YL^AT_EX. It does not do very much, but mapping many of the usefull symbols to T_EX commands. `\tau` 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 `\shorthand{ }\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 `\shorthand`. 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 T_EX mailinglist `tex-d-1` who gave me the code (I copied it from the `alrtex` package).

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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}
\shorthand 16 \def\shorthand#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\shorthand

```

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

```

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{ }\tau
43 \sh{ }\omega

44 \sh{\Gamma}\Gamma
45 \sh{\Delta}\Delta
46 \sh{\Pi}\Pi
47 \sh{\Xi}\Xi
48 \sh{\Sigma}\sum_{}_% careful! this will give a sum-sign, not a Sigma!!
49 \sh{\Omega}\Omega

50 \sh{ }\Leftarrow
51 \sh{ }\Rightarrow
52 \sh{ }\Leftrightarrow

53 \sh{\sqrt{}}\sqrt{}
54 \sh{ }\int
55 \sh{ }\partial
56 \sh{ }\exists
57 \let\sh\undefined

```

If you want to change a certain symbol in your document, you have to use the command `\shorthand`, 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.

```

58 </package>

```

□