The alttex package

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This is the package alttex which will try to give an experimental new way to write LATEXcode. So far it is mostly done with very dirty and actually its a collection of things I think about in boring lectures. Maybe someone will have fun with the following code.

The problem I have with LaTeX is the antique way of typing. Because most people still use a hopeless outdated keyboard layout (qertzy or slightly adapted versions of that), LaTeXdoesnt make use of some cool features. Im not talking about writing chinese or arabic text. Maybe this example will make the idea clear:

In standard LATEX, one has to write

```
1 \ProvidesPackage{alttex}
3 \RequirePackage{exscale} % For huge math
5 \catcode'\=\active
6 \catcode'\=\active
7 % Make () \right and \left
8 \makeatletter
9 \def\resetMathstrut@{%
   \setbox\z@\hbox{%
     \mathchardef\@tempa\mathcode'\[\relax
12
     13
     \expandafter\@tempb\meaning\@tempa \relax
14 }%
   15
16 }
17 \makeatother
19 \edef\oldbraces{
   \mathcode'(\the\mathcode'(
   \mathcode')\the\mathcode')
22 }
23 \begingroup
   \catcode'(\active \xdef({\left\string(}
   \catcode')\active \xdef){\right\string)}
```

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```
26 \endgroup
27 \def\newbraces{
    \mathcode'("8000
29
    \mathcode')"8000
30
31 }
32
33 \newcounter{itemi}
34 \setcounter{itemi}{0}
35
36 \def{}
37
    \ifvmode \ifnum \theitemi = 0 %auerhalb einer itemize
      \begin{itemize}\setcounter{itemi}{1}
39
         \item
40
      \else
         \item %zum Fortsetzen einer Liste
41
      \fi
42
    \else
43
      \item % normales item innerhalb einer Liste
44
45
    \fi
46 }
47
48 \def{}
    \ifvmode
      \begin{itemize}
51
        \item
    \else
52
53
      \item
    \fi
54
55 }
56
57 \def\{\end{itemize}}
60 \newcounter{insideitemize}
61 \setcounter{insideitemize}{0}
62 \newcounter{insideitem}
63 \setcounter{insideitem}{0}
65 \catcode'\=\active
66
67 \iffalse
68 \def{}
    \ifnum \theinsideitemize = 0 % Auerhalb einer itemize-Umgebung initialisieren
69
70
      \begin{itemize}
71
         \iffalse
         \catcode'\^^M=\active
72
         \label{lem:myeol} $$ \end{myeol} \catcode'\^^M=5% $$
73
74
         \fi
         \setcounter{insideitemize}{1} % Nun innerhalb einer itemize
75
```

```
\setcounter{insideitem}{1}% und innerhalb eines Items
76
77
          \expandafter\item
78
     \else
79
        \makeatletter
          80
        \makeatother
81
          tach
82
83 }{%
        \makeatother
84
          \setcounter{insideitem}{1}% innerhalb eines items
85
          \expandafter\item
86
87 }
 88
 89 }
90 \fi
91
92 \left\{ \frac{\%}{\%} \right\}
     \ifnum \theinsideitem = 0%
93
       \end{itemize}%
94
       \catcode'\^^M=5%
95
       \setcounter{insideitem}{0}%
96
       \setcounter{insideitem}{0}%
99 \fi%
100 }
101 % \end{macrocode}
102
103\ \% Definiert eine bergroe Displaystyle-Formel  ntzlich z.B. bei Prsentationen.
104 \ensuremath{\tt def\hugedisplaymath\{}
105 \text{ \label{local} makeatletter}
106 \def\fontsize@before@hugemath{}
107 \setminus makeatother
108 \Huge
109
     \begin{equation*}
110 }
111 \def\endhugedisplaymath{
    \end{equation*}
113 }
```