

# The `alttex` package

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This is the package `alttex` which will try to give an experimental new way to write `XYLATEX`<sup>1</sup> code. So far it is mostly done with very dirty code and actually it's a collection of things that come into my mind during boring lectures. Maybe someone will have fun with the following code fragments.

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<sup>1</sup>If you don't know about `XYLATEX`, see the appendix.4.2

# 1 Introduction

The problem I have with L<sup>A</sup>T<sub>E</sub>X<sup>2</sup> is the antique way of typing. Because most people still use a hopelessly outdated keyboard layout («qwerty» or slightly adapted versions of that), L<sup>A</sup>T<sub>E</sub>X doesn't make use of some cool features. I'm not talking about writing chinese or arabic text! Maybe this example will make the idea clear:

In standard L<sup>A</sup>T<sub>E</sub>X, one has to write

This is the normal text, then comes the itemization:

```
\begin{itemize}
  \item text for first item
  \item \begin{itemize}
    \item this is an item inside an item...
    \item[$\rightarrow$] Here an item with a formula: $\int_a^b x^2 dx$
  \end{itemize}
  \item and the outer itemize goes on...
\end{itemize}
```

Using this package and having a superior keyboard layout<sup>3</sup>, you can simply write:<sup>4</sup>

This is the normal text, then comes the itemization:

- text for first item
- - this is an item inside an item
  - [⇒] Here an item with a formula:  $\int_a^b x^2 dx$
- and the outer itemize goes on...

And your normal text goes on...

Well, actually I'm lying now because this is not fully implemented so far. But it's the aim of this package to provide this – besides many, many other funny and cool things. The aim is to offer a more „wysiwyg“ way, without losing anything of logical markup. One still can re\define the • if he doesn't like the way his items look. I have just started to write the package, there will be much more stuff here in the future.

Ok, enough blahblah, now comes the code. We begin with the uninteresting preamble stuff:

---

<sup>2</sup>I'll write L<sup>A</sup>T<sub>E</sub>X instead of X<sub>Ǝ</sub>L<sup>A</sup>T<sub>E</sub>X—saves me two keystrokes. Most of the code below *only* works with X<sub>Ǝ</sub>L<sup>A</sup>T<sub>E</sub>X. If you need support for [utf8]inputenc or LuaL<sup>A</sup>T<sub>E</sub>X, please contact the author.

<sup>3</sup>E.g. the ergonomic layout Neo: <http://neo-layout.org/>

<sup>4</sup>The lmodern font I'm using here does not have the symbol for the inner item, so we change to DejaVu Sans Mono here.

`\usepackage` Now, this is the first highlight. It is an extremely simple and stupid approach to load missing packages on-the-fly, just like MikTeX does. We re`\define` the `\usepackage` and hope, it works. Only working with texlive! If you're using MikTeX, put a

into your preamble, *directly* after loading `alttex`. If this does not work, delete the following lines from your `alttex.sty`.

So far, this code seems to be a bit buggy, but it should work anyhow.

```

12 \RequirePackage{exscale}
13 \RequirePackage{ifxetex}
14 \RequirePackage{hhline}
15 \ifxetex
16 \else
17   \typeout{^^J%
18     !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!^^J%
19     ! This package can only be compiled with XeLaTeX ^^J%
20     ! pdfLaTeX cannot handle unicode the way it is used here. ^^J%
21     ! If you want to have support for [utf8]inputenc, please contact the au-
    thor. ^^J%
22     ! If you want to use LuaLaTeX, give it a try: ^^J%
23     ! comment out the lines 32,33,35–43. ^^J%
24     ! Please e-mail me the result of your experiences! ^^J%
25     !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!^^J%
26 }
27 \errmessage{No XeLaTeX, no alttex. See the log for more information.}
28 \endinput
29 \fi
30
```

3

## 2 Textmode

### 2.1 no escape

`\noescape` You want to write plain text. Maybe you're annoyed by always escaping characters like `_` `#` `&` `{` `}` `$` `~` and so on. `\noescape` allows you to never escape anything—except the `\`, which still might be used for `\textit{}` or so. Or maybe not... because the `{` `}` are not escaped. Have to think about this one. Maybe the `\` will be redefined to define `{` `}` by itself.

```
31 \def\noescape{
32   \catcode`\_ = 11%
33   \catcode`\^ = 11%
34   \catcode`\# = 11%
35   \catcode`\& = 11%
36   %\catcode`\{ = 11%
37   %\catcode`\} = 11%
38   \catcode`\$ = 11%
39   \catcode`\~ = 11%
40   \makeatletter%
41   \catcode`\% = 11
42 }
```

The `\makeatletter` is not necessary. But it fitted into this line, so I will leave it here.

`\oldescape` Of course this has to be reset when doing anything like formula, tabular etc. Maybe I will be able to change the behaviour automatically. This idea has been inspired by a discussion on the ConT<sub>E</sub>Xt mailinglist.

```
43 \def\oldescape{
44   \catcode`\% = 14%
45   \catcode`\_ = 8%
46   \catcode`\^ = 7%
47   \catcode`\# = 6%
48   \catcode`\& = 4%
49   %\catcode`\{ = 1%
50   %\catcode`\} = 2%
51   \catcode`\$ = 3%
52   \catcode`\~ = 13%
53   \makeatother%
54 }
```

### 2.2 tabular

The way one has to type extensive tabulars is quite complex – and the resulting code is often not easy to read. I don't have good ideas how to change this, but I'm thinking about it. Mail me any suggestions for this!

This will be the first attempt to make tabulars easier: Mostly you want an `\hline` after an `\\`. So let's try something like:

I will try to implement cool stuff from the `hhline`-package.

`\$` for `\\hhline` Type `\-` (an en-dash) at the end of a line, and you get an `\hhline`. Type `\=` to get a double line

```
55 \def\-{\\hhline}
56 \def\={\\hhline}
```

This is shurely not a good symbol for this purpose, but I don't have a better idea so far. At least it's a "bar", so one can guess what it should do.

## 2.3 excel tabulars

`\exceltabular` Often one uses a program to calculate tabulars of numbers. To insert it into L<sup>A</sup>T<sub>E</sub>X, one has to do some work. Here we try to copy-paste the tabular from excel, Calc or any other program to a file `mytabular.txt` (or any other ending). Then you say `\exceltabular{mytabular}` (you do not need the ending, therefore it doesn't matter) and you get the tabular in a standard format. I will extend this to enable caption, variable number of columns, kind of rule used etc. This is just a very first test.

This is the definition of the command:

```
57 \def\exceltabular#1{
58   \catcode\^^I=4\relax
59   \eolintabular%
60   \begin{tabular}{|c|c|c|}\hhline%
61   \input{#1}%
62   \end{tabular}%
63   \catcode\^^M=5\relax
64 }
```

And a little helper function to make the `<enter>` `\active`. Again, thanks to the people on the mailinglists.

```
65 \def\mybreak{\\hhline}
66 \begingroup
67   \lccode\~=\^^M%
68   \lowercase{%
69     \endgroup
70     \def\eolintabular{%
71       \catcode\^^M=\active
72       \let~\mybreak
73     }%
74 }
```

## 2.4 tabbing

This will be analog to the `\exceltabular`. You write your tabbing using tabs and `<enter>`. That's it :)

`\alttabbing` Not yet implemented!

## 3 Math stuff

### 3.1 braces

`\newbraces` Now this is something most  $\text{\LaTeX}$ -beginners don't recognize and wonder why the  
`\oldbraces` formula looks so ugly: The braces `()` do not fit to the height of the formula. This can be achieved by putting `\left` and `\right` in front of the braces. But actually, this is annoying! In almost any case you want this behaviour, so this should be the standard. So we redefine the way braces are handled. With `\newbraces` the `()` always fit. If you prefer the normal  $\text{\LaTeX}$  way, use `\oldbraces` to reset everything. This new behaviour should be extended to other characters like `|` `[` `{` `<` and so on. Maybe in some later version.

I would have never been able to implement this without the help of the mailinglist members of [tex-d-1@listserv.dfn.de](mailto:tex-d-1@listserv.dfn.de)!

The redefinition of `\mathstrut` is necessary when using `amsmath` (you will use `amsmath` when typesetting formulae, won't you?), because the height of formulae is determined by the height of a brace. But using `()` as `\active` characters, we need another brace here. So we take `[`. This will probably also change. But the code is working fine for `()`.

```
75 \makeatletter
76 \def\resetMathstrut@{%
77     \setbox\z@\hbox{%
78         \mathchardef\@tempa\mathcode`\[ \relax
79         \def\@tempb##1"##2##3{\the\textfont"##3\char"}%
80         \expandafter\@tempb\meaning\@tempa \relax
81     }%
82     \ht\Mathstrutbox@\ht\z@ \dp\Mathstrutbox@\dp\z@
83 }
84 \makeatother
85
86 {\catcode`\(\active \xdef{\left\string{}}
87 {\catcode`\)\active \xdef{\right\string{}}}
88
89 \def\newbraces{
90     \mathcode`("8000
91     \mathcode`) "8000
92 }
93
94 \edef\oldbraces{
95     \mathcode`\(\the\mathcode` (
96     \mathcode`\)\the\mathcode`)
97 }
```

### 3.2 huge display math

`hugedisplaymath` Sometimes, especially in presentations, you might need an really big formula. Imagine two hours of struggle with transformations—and finally there is the beautiful formula. Now you can say

```
\begin{hugedisplaymath} E = mc^2 \end{hugedisplaymath}
```

There should be several steps of size, maybe.

```
98 \def\hugedisplaymath{
99   \makeatletter
100   \makeatother
101   \Huge
102   \begin{equation*}
103 }
104 \def\endhugedisplaymath{
105   \end{equation*}
106 }
```

### 3.3 unicode math

Typing math in T<sub>E</sub>X is no great fun – you have to write things like `\int` instead of  $\int$  and so on. Have a look at the following formula:

```
\int_{-\infty}^{\infty} \sum_a
```

The code again is stolen and I don’t understand, why it does what it does, but it does it: The first argument is the character you want to use for “unicode math“, the second one is the T<sub>E</sub>X-command.

```
107 \makeatletter
108 \def\altmath#1#2{%
109   \expandafter\ifx\csname cc\string#1\endcsname\relax
110     \add@special{#1}%
111     \expandafter
112     \xdef\csname cc\string#1\endcsname{\the\catcode`#1}%
113     \begingroup
114       \catcode`\~\active \lccode`\~`#1%
115       \lowercase{%
116         \global\expandafter\let
117         \csname ac\string#1\endcsname~%
118         \expandafter\gdef\expandafter~\expandafter{#2}}%
119     \endgroup
120     \global\catcode`#1\active
121   \else
122     \fi
123 }
124 \makeatother
```

We will make a switch to turn this stuff on or off, so it does not interfere with the unicode-math package. This list will increase by time. If you are missing a symbol, just send me the `\altmath{X}{\Xcode}`-line. I would be very thankful if anybody could send me a whole list of symbols!

```
125 \def\makealtmath{
126   \altmath{\alpha}\alpha
127   \altmath{\beta}\beta
```

```

128 \altmath{\gamma}\gamma
129 \altmath{\delta}\delta
130
131 \altmath{\Rightarrow}\Rightarrow
132 \altmath{\Leftarrow}\Leftarrow
133 \altmath{\Leftrightarrow}\Leftrightarrow
134
135 \altmath{\int}\int
136 \altmath{\forall}\forall
137
138 \altmath{_{1}}{_1}
139 \altmath{_{2}}{_2}
140 \altmath{_{3}}{_3}
141 \altmath{_{4}}{_4}
142 \altmath{_{5}}{_5}
143 \altmath{_{6}}{_6}
144 \altmath{_{7}}{_7}
145 \altmath{_{8}}{_8}
146 \altmath{_{9}}{_9}
147 \altmath{_{0}}{_0}
148 }

```

There will be an `\makenormalmath`-switch as well.

### 3.4 Lazy underscore and superscript

An underscore at the end of an inline-formula has to be ended with `}` or `egroup`. That is not nice...

The redefinition of hat does not work because TeX uses it for definition of catcodes. There has to be a really tricky way to get around that.

Sometimes one has to make extensive use of subscripts and superscripts, e. g. when typing long formulae including tensors. Then it is a bit annoying to always write the `{}`, especially when there are only two letters in the sub/superscript. So let's try to implement the possibility to type `$F_{\mu\nu} F^{\mu\nu}$`.

First, store the actual meaning of `_` and `^` in `\oldunderscore` and `\oldhat`.

```

149 \let\oldunderscore_\relax
150 \let\oldhat^\relax

```

Now set `_` as `\active` char and define it the way we want it to behave. For this, we need the space char and end-of-line char to be an egroup char. So the underscore group is ended by space or eol and we don't need to close it explicitly.

```

151 \catcode`\_ =13
152 \def_{%
153   \ifmmode
154     \catcode`\_ =2\relax%
155     \catcode`\^^M=2\relax%
156     \expandafter\oldunderscore\bgroup%
157   \else%
158     \textunderscore%
159   \fi%
160 }
161
162 \iffalse
163 This does not work so far...

```



```

164 \catcode`\^=13
165 \def^{%
166   \ifmode
167     \catcode`\ =2\relax%
168     \catcode`\^M=2\relax%
169     \expandafter\oldhat\bgroup%
170   \else%
171     \oldhat%
172   \fi%
173 }
174 \fi

```

To give the possibility to switch between normal and `alttex` behaviour, store the new underscore.

```
175 \let\advancedunderscore_
```

And the switches. By default, `_` is active. Type `\oldUnder` to get the normal `_`.

```

176 \def\oldUnder{
177   \global\catcode`\_ =8\relax
178 }
179 \def\newUnder{
180   \global\let_\advancedunderscore
181 }

```

### 3.5 matrices

This is a nice idea by Alexander Koch on [diskussion@neo-layout.org](mailto:diskussion@neo-layout.org). Using the unicode glyphs for writing matrices, we can make writing and reading of big matrices much easier. (In Neo, one can use the `compose` function to write the whole matrix by 4–5 keystrokes and then fill in the elements.) For example, say in the source:

$$\begin{array}{ccc}
 \begin{pmatrix} a & b \\ c & d \\ e & f \end{pmatrix} & \text{or} & \begin{bmatrix} a & b \\ d & e \\ f & g \end{bmatrix} & \text{or} & \begin{matrix} \begin{bmatrix} a & b \\ c & d \end{bmatrix} \\ \{e & f\} \\ \begin{bmatrix} g & h \\ i & j \end{bmatrix} \end{matrix}
 \end{array}$$

and the result will be a `bmatrix`, a `pmatrix` or a `\right\{ matrix \end{matrix}`, respectively. As  $\text{T}_{\text{E}}\text{X}$  is assumed to read from left-top to right-bottom, the matrices must not stand in a line, i. e. the following notation is *not* possible:

$$A = \begin{pmatrix} a & b \\ c & d \\ e & f \end{pmatrix} = B$$

but rather you have to write

$$A = \begin{pmatrix} a & b \end{pmatrix}$$

The `newUnder` does not work so far.

$$\begin{pmatrix} c & d \\ e & f \end{pmatrix} = B$$

If you have a suggestion how to enable the upper solution, please contact me, that would be an awesome thing!

One has to pay greatest attention to the different characters looking like `|`. They are in fact *different* for the three matrices! (But not in every case; I just hope the following code really works.)

```

182 \makeatletter
183 \catcode`\|13
184 \catcode`\|13
185 \catcode`\|13
186 \catcode`\|13
187 \catcode`\|13
188 \def{\begin{pmatrix}}
189 \def{\|}
190 \def{ }
191 \def{\end{pmatrix}}
192 \def{\|}
193
194 \catcode`\|13
195 \catcode`\|13
196 \catcode`\|13
197 \catcode`\|13
198 \catcode`\|13
199 \def{\|}
200 \def{\begin{bmatrix}}
201 \def{\|}
202 \def{ }
203 \def{\end{bmatrix}}
204
205 \catcode`\|13
206 \catcode`\|13
207 \catcode`\|13
208 \catcode`\|13
209 \catcode`\|13
210 \catcode`\|13
211 \def{\left\{\begin{matrix}}
212 \def{\|@gobble}
213 \def{ }
214 \def{\end{matrix}\right\}}
215 \def{\|@gobble}
216 \def{\|@gobble}

```

The codepoints have to be checked very carefully! This is not what a robust solution does look like!

We need to `@gobble` the next character only in this case, as the left-hand bar characters seem to be the same as the right-hand and so cause additional line breaks. This way it is robust against every strange codepoint the left-hand may have.

## 4 Lists and such things

### 4.1 itemize with a single character

- instead of `\item` Here we use an active character (mostly a unicode character bullet •) for the whole construct. And another one for nested itemizations (like a triangular bullet ▸).

This does—guess it—not work correctly so far. I’m trying to find a tricky way so that the ending character is not necessary any more. So far one has to end an itemize with something like an – (em-dash). There will also be a possibility to change the characters responsible for the whole action.

The following ugly peace of code is written by me, defining the conditional insertion of the `\begin{itemize}`. This will be assigned to an active character using `\makeitemi` and `\makeitemii`, respectively.

```
217 \def\outside{o}
218 \def\inside{i}
219 \let\insideitemizei\outside
220 \let\insideitemizeii\outside
  The end of itemizei and itemizeii:
221 \def\altenditemize{
222   \if\altlastitem 1%
223     \let\altlastitem0%
224   \else%
225     \end{itemize}%
226     \let\insideitemizei\outside%
227   \fi%
228 }
229
230 \begingroup
231   \lccode\~=\^^M%
232 \lowercase{%
233   \endgroup
234   \def\makeenteractive{%
235     \catcode\^^M=\active
236     \let~\altenditemize
237   }%
238 }
239
240 \def\newitemi{%
241   \ifx\insideitemizei\inside%
242     \let\altlastitem1%
243     \expandafter\item%
244   \else%
245     \begin{itemize}%
246       \let\insideitemizei\inside%
247       \let\altlastitem1%
248       \makeenteractive%
249       \expandafter\item%
250     \fi
```

insideitemize wird nicht  
zurückgesetzt!!

```

251 }
252
253 \def\newitemii{
254   \ifx\insideitemizeii\inside
255     \expandafter\item%
256   \else
257     \begin{itemize}
258       \let\insideitemizeii\inside
259       \expandafter\item%
260     \fi
261 }

```

Ok, the following code is stolen from the `shortvrb` package, and I don't understand anything of it. But I keep on trying... nevertheless, it's working fine, as far as I can see.

`\makeitemi` With this macro, you can define the character you want to use for first-level  
`\makeitemii` itemize. (Guess the sense of `\makeitemii`...) Default is • for first-level and ► for second-level. Maybe this will be extended till fourth level. More doesn't seem to make any sense.

```

262 %
263 \makeatletter
264 \def\makeitemi#1{%
265   \expandafter\ifx\csname cc\string#1\endcsname\relax
266     \add@special{#1}%
267   \expandafter
268   \xdef\csname cc\string#1\endcsname{\the\catcode`#1}%
269   \begingroup
270     \catcode`\~\active \lccode`\~`#1%
271     \lowercase{%
272       \global\expandafter\let
273       \csname ac\string#1\endcsname~%
274       \expandafter\gdef\expandafter~\expandafter{\newitemi}}%
275   \endgroup
276   \global\catcode`#1\active
277 \else
278 \fi
279 }
280
281 \def\makeitemii#1{%
282   \expandafter\ifx\csname cc\string#1\endcsname\relax
283     \add@special{#1}%
284   \expandafter
285   \xdef\csname cc\string#1\endcsname{\the\catcode`#1}%
286   \begingroup
287     \catcode`\~\active \lccode`\~`#1%
288     \lowercase{%
289       \global\expandafter\let
290       \csname ac\string#1\endcsname~%
291       \expandafter\gdef\expandafter~\expandafter{\newitemii}}%

```

```

292 \endgroup
293 \global\catcode`#1\active
294 \else
295 \fi
296 }

```

Now there are the two helperfunctions – no guess what they are really doing.

```

297 \def\add@special#1{%
298 \rem@special{#1}%
299 \expandafter\gdef\expandafter\dospecials\expandafter
300 {\dospecials \do #1}%
301 \expandafter\gdef\expandafter\@sanitize\expandafter
302 {\@sanitize \@makeother #1}}
303 \def\rem@special#1{%
304 \def\do##1{%
305 \ifnum`#1=`##1 \else \noexpand\do\noexpand##1\fi}%
306 \xdef\dospecials{\dospecials}%
307 \begingroup
308 \def\@makeother##1{%
309 \ifnum`#1=`##1 \else \noexpand\@makeother\noexpand##1\fi}%
310 \xdef\@sanitize{\@sanitize}%
311 \endgroup}
312 \makeatother

```

## 4.2 enumerate with a single character

<sup>1</sup>, <sup>2</sup> And we do just the same stuff with `\enumerate`. But here we take the character <sup>1</sup> as first level item, the <sup>2</sup><sup>5</sup> as second level etc. This may be confusing some way, but just try it.

For the implementation: copy-pasted the code above, nothing interesting so far.

```

313 \def\^1{\end{enumerate}}
314 \def\^2{\end{enumerate}}
315
316 \let\insideenumi\outside
317 \let\insideenumii\outside
318
319 \def\newenumi{
320 \ifx\insideenumi\inside
321 \expandafter\item%
322 \else
323 \begin{enumerate}
324 \let\insideenumi\inside
325 \expandafter\item%
326 \fi
327 }

```

---

<sup>5</sup>Maybe this is a very stupid idea, because now the <sup>2</sup> cannot be used as a square in mathmode. Of course there could be a test `ifmmode`, but I rather would like to find a better character for `enumerate`.

```

328
329 \def\newenumii{
330   \ifx\insideenumii\inside
331     \expandafter\item%
332   \else
333     \begin{enumerate}
334       \let\insideenumii\inside
335       \expandafter\item%
336   \fi
337 }
338

```

We use the same methods as above, still not understanding, what they are doing. Just changing two lines of code and hoping, everything will be fine.

```

339 \makeatletter
340 \def\makeenumi#1{%
341   \expandafter\ifx\csname cc\string#1\endcsname\relax
342     \add@special{#1}%
343     \expandafter
344     \xdef\csname cc\string#1\endcsname{\the\catcode`#1}%
345     \begingroup
346       \catcode`\~\active \lccode`\~`#1%
347       \lowercase{%
348         \global\expandafter\let
349           \csname ac\string#1\endcsname~%
350         \expandafter\gdef\expandafter~\expandafter{\newenumi}}%
351     \endgroup
352     \global\catcode`#1\active
353   \else
354   \fi
355 }
356
357 \def\makeenumii#1{%
358   \expandafter\ifx\csname cc\string#1\endcsname\relax
359     \add@special{#1}%
360     \expandafter
361     \xdef\csname cc\string#1\endcsname{\the\catcode`#1}%
362     \begingroup
363       \catcode`\~\active \lccode`\~`#1%
364       \lowercase{%
365         \global\expandafter\let
366           \csname ac\string#1\endcsname~%
367         \expandafter\gdef\expandafter~\expandafter{\newenumii}}%
368     \endgroup
369     \global\catcode`#1\active
370   \else
371   \fi
372 }
373 \makeatother
374

```

Finally, we set the default characters for the items and enumerations:

```
375 \makeitemi•  
376 \makeitemii▶  
377 \makeenumi1  
378 \makeenumii2
```

And that's it.

Happy  $\text{\LaTeX}$ ing!

## A very short introduction to X<sub>Y</sub>LaTeX

Everything you have to know about X<sub>Y</sub>LaTeX to use this package: Write your LaTeX file just as you are used to. But save it as utf8-encoded, and say

```
\usepackage{xltextra}
```

instead of

```
\usepackage[latin1]{inputenc} and \usepackage[T1]{fontenc}
```

This loads some files that provide all the cool stuff X<sub>Y</sub>LaTeX offers. You don't have to take care of letters T<sub>E</sub>X would not understand – X<sub>Y</sub>LaTeX understands every character you type. But sometimes the font may not have the symbol for this – then you can use `\fontspec{fontname}`, where `fontname` is the name of a font on your system, e. g. **Arno Pro**, **Linux Libertine**, **LT Zapfino One** etc.

Then, you compile your document with the command `xelatex file.tex`, instead of `latex file.tex` and you get a pdf as output. Mostly, your editor will not have a shortcut to start X<sub>Y</sub>LaTeX. In that case, you have to compile via the command line. If you know your editor well enough, you may be able to create a shortcut that will run `xelatex file.tex` for you. Notice that you will need an editor that is utf8-capable! One last warning: While X<sub>Y</sub>LaTeX is not an pdf<sub>T</sub>E<sub>X</sub> successor, you cannot use microtypographic extensions. Maybe in the future there will be an implementation that uses advanced OpenType-features, but at the moment there is no microtypography possible!

If you have any trouble using X<sub>Y</sub>LaTeX, just e-mail me!



## todo

Here a section with some ideas that could be implemented.

- Use <sup>2</sup> as square in mathmode and possibly <sup>1</sup> as `\footnote`?
- Do something to enable easy tabular
- If there is only one char after an `_`, there should no space be needed.
- Maybe there could be a ConTeXt-version of this file.