

# The utf8hax package

Using UTF-8 encoded input as short cuts

Palle Jørgensen

26th May 2020

## 1 Introduction

The purpose of this package is to provide som short cuts for typing math in  $\LaTeX$ . It is *not* intended for increasing readability.

## 2 Loading the package

```
\usepackage[ default ]{ utf8hax }
```

### 2.1 Package options

**autochar** Choosing the character for the math automatation. It must be the hex code for the desired character.

**mathchar** Choosing the character for math mode. It must be the hex code for the desired character.

**currmath** Setting ‘ $\alpha$ ’ as the math character.

**yenmath** Setting ‘ $\yen$ ’ as the math character.

**sterlingmath** Setting ‘ $\pounds$ ’ as the math character.

**copyauto** Setting ‘ $\textcircled{\alpha}$ ’ at the math automatation character.

**regauto** Setting ‘ $\textcircled{\alpha}$ ’ at the math automatation character.

**default** Short cut for the copyauto and currmath option. The authors favourite.

## 3 Using the package

### 3.1 Math character

Typing

The slope of the line is designated `\a`.

equals

The slope of the line is designated `\ensuremath{a}`.

yielding

*The slope of the line is designated  $a$ .*

### 3.2 Math automatation character

Typing

The slope of the line is designated `@a`.

automates into

The slope of the line is designated `\@automath@a`.

The command '`\@automath@a`' is programmed into being equal to '`\ensuremath{\alpha}`'.

Thus the input is equal to

The slope of the line is designated `\ensuremath{\alpha}`.

yielding

*The slope of the line is designated  $\alpha$ .*

### 3.3 New math automatation

New math automatation is accessible through the ‘\newmathautomatation’ command.  
Typing

```
\newmathautomatation{?}{What?}
```

makes the input sequence ‘@?’ equal to

```
\ensuremath{What?}
```

yielding

*What?*

## 4 Drawbacks

As some input characters are changed the access to these characters is made more difficult.

The copyright symbol is accessible through ‘@!’. As i do not know anybody using the *generic currency symbol* in real life it is not made as easily accessible.

## 5 Copyright and license

This file utf8hax is part of the utf8add bundle.

The utf8add package and all the associated files are copyright © Palle Jørgensen, 2020.

utf8add is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

utf8add is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with utf8add. If not, see <<https://www.gnu.org/licenses/>>.