

# The luavlna package

Michal Hoftich (michal.h21@gmail.com)

April 9, 2014

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## 1 Introduction

This is a small package for plain  $\text{lua}\text{\TeX}$  and  $\text{lua}\text{\LaTeX}$ . In some languages, like Czech or Polish, there should be no single letter words at the line end, according to the typographical norms. There exists some external commands (like `vlna`) or packages (`encxvlna` for  $\text{enc}\text{\TeX}$ , `xevlna` for  $\text{Xe}\text{\TeX}$ , `impnattypo` for  $\text{lua}\text{\LaTeX}$ ).

Other feature of this package is including of non-breakable space after initials, like in personal names.

The code is modified version of Patrick Gundlach's answer on `TeX.sx`<sup>1</sup>. The difference is that it is possible to specify which single letters should be taken into account for different languages.

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<sup>1</sup><http://tex.stackexchange.com/a/28128/2891>

## 2 Usage

The usage is simple:

```
\input ucode
\uselanguage{czech}
% in the case of luacsplain, use instead:
% \chyph
% but language code for Czech is different than in LaTeX or normal
% luaTeX, so you will need to set single letters with somethinh like:
% \singlechars{5}{AIiVvOoUuSsZzKk}
\input luavlna
\preventsingleddebugon
\input luaotfload.sty
\font\hello={name:Linux Libertine 0:+rlig;+clig;+liga;+tlig} at 12pt
\hsize=3in
\hello
Příliš žluťoučký kůň úpěl ďábelské ódy.
Text s krátkými souhláskami a samohláskami i dalšími jevy
z nabídky možností (v textu možnými).

I začátek odstavce je třeba řešit, i když výskyt zalomení není pravděpodobný.

Co třeba í znaky š diakritikou?

Různé možnosti [v závorkách <i jiných znacích

Podpora iniciál: G. F. Hegel, Č. Zíbrt

\preventsingleddebugoff
\bye
```

Příliš *žlutoučký kůň* úpěl ďábelské ódy. Text s krátkými souhláskami a samohláskami i dalšími jevy z nabídky možností (v textu možnými).

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It is also possible to use the package with  $\text{\LaTeX}$ , just use

```
\usepackage{luavlna}
```

in the preamble.

### 3 Commands

```
\singlechars{language name}{letters}
```

Enable this feature for certain letters in given language.

Default values:

```
% only Czech and Slovak are supported out of the box
```

```
\singlechars{czech}{AIiVvOoUuSsZzKk}
```

```
\singlechars{slovak}{AIiVvOoUuSsZzKk}
```

```
\compoundinitials{language name}{compounds}
```

Declare compound letters for given language. Second argument should be comma separated list of compound letters, in exact form in which they can appear.

Default values:

```
\compoundinitials{czech}{Ch}
```

### 3.1 Turning off language switching

By default, language of the nodes is taken into account. If you want to use settings for one language for a whole document, you can use following command:

```
\prevensinglelang{language name}
```

### 3.2 Debugging commands

```
\preventsingleddebugon  
\preventsingleddebugoff
```

Insert debugging marks on/off. Default off.