The luavlna package

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1 Introduction

This is a small package for plain luaTeXand lual*TeX. 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 encTeX, xevlna for XeTeX, impnattypo for lual*TeX).

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.sx¹. The difference is that it is possible to specify which single letters should be taken into account for different languages.

¹http://tex.stackexchange.com/a/28128/2891

2 Usage

```
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   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
\preventsingledebugon
\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
\preventsingledebugoff
\bye
```

Příliš *žluťoučký kůň* úpěl ďábelské ódy. Text s krátkými souhláskami a samohláskami i dalšími jevy z nabídky možností (v textu možnými). Izačátek odstavce je třeba řešit, i když výskyt zalomení není pravděpodobný. Co třeba í znaky š diakritikou? Různé možnosti [v závorkách <i jiných znacích

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It is also possible to use the package with luaLTeX, 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,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:

\preventsinglelang{language name}

3.2 Turning off processing

If you want to stop processing of the spaces in the document you can use command

\preventsingleoff

To resume processing, use

\preventsingleon

3.3 Debugging commands

\preventsingledebugon \preventsingledebugoff

Insert debugging marks on/off. Default off.

4 Lua module langno.lua

When we process glyph nodes with luaTeX callbacks, there are lang fields available. These are numerical codes of languages, but no information about language names easily accesible from lua side is available.² These numbers are format dependent, majority of formats like luaLTeXuse language.dat file provided by babel for assign numbers to languages, but for example csplain use its own system.

To allow easy setting of language dependent parameters, languo module was created. It's purpose is to translate language code to language name and the other way.

 $^{^2} Language$ names are stored in TeX macros like \l01angname, but different formats use different naming of these macros