The lua-check-hyphen package

Checking your hyphenated words

Patrick Gundlach   **Version 0.7a**
patrick@gundla.ch   April 19, 2018

Contents

1 Introduction

TEX is pretty good at hyphenating words. But a computer algorithm is not perfect, sometimes we wish to manually check all used hyphenations in a document. This package helps you on this task.

2 Usage

This package only works with LuaTEX. To activate it a

```
\usepackage{lua-check-hyphen}
```

is enough.

When you process your document with LuaLATEX, a file with the suffix `.uhy` is created with that contains every hyphenated word. You can check that file for hyphenation errors. With the package option `nofile`, you can tell the package not to write the external file. In any case the list is written to the log file.

3 Advanced usage

With longer documents it becomes tedious checking for the same hyphenated words over and over. Therefore this package allows you to create a whitelist of *accepted hyphenation*. This whitelist is a simple textfile where the words are separated by

whitespace and the allowed hyphenation is marked with a dash (-). You can use the output file `.uhy` as an input for the whitelist file. You load the file in your document with

```
\LuaCheckHyphen{whitelist=myfile.txt}
```

and a sample file looks like this:

```
seren-ity
morn-ings
posses-sion
```

or

```
seren-ity morn-ings posses-sion
```

The format is not important, the entries must be separated by whitespace.

Words in this whitelist won't be reported. `lua-check-hyphen` assumes that these are valid break points.

You can have more than one whitelist file by giving the filenames separated by comma:

```
\LuaCheckHyphen{whitelist={file1.txt,file2.txt,file3.txt}}
```

4 Visual marker

You might want to use the PDF viewer to check for incorrectly hyphenated words. To enable visual feedback, just pass the `mark` option to the `\usepackage` or to the `\LuaCheckHyphen` command:

```
\usepackage[mark]{lua-check-hyphen}
% or:
\LuaCheckHyphen{mark}
```

This marks all non-whitelisted used hyphenation points in the document with a black square (not to be confused with overfull boxes):

A wonderful seren-█
ity has taken posses-█
sion of my entire soul,
like these sweet morn-█
ings of spring which I
enjoy with my whole
heart.

5 Options to `\LuaCheckHyphen`

For the true/false options you don't need to write the =true part. All options except for the `whitelist` can be passed directly to the package:

`\usepackage[mark,nofile]{lua-check-hyphen}`

All options can be set in `\LuaCheckHyphen`.

`\LuaCheckHyphen{mark,nofile,whitelist=myfile.txt}`

`compact`=true, false   default: `true`

> Words with different hyphenation occurrences are listed only once.

`mark`=true, false   default: `false`

> Create visual markers when an unknown hyphenation encountered.

`nofile`=true, false   default: `false`

> Don't write to an external file (`.uhy`).

`file`=true, false   default: `false`

> Don't do anything. This is for the last document run, no marks will be generated.

`whitelist`=⟨*files*⟩

> List of files, separated by ",". You need to wrap the filenames in braces {...} so that the comma won't be seen as a option separator.

6 Final document

When you pass the Option `final` to the `\documentclass`, the `\usepackage` or the `\LuaCheckHyphen` command, all processing is disabled.

7 Changes

0.7a   2018-04-19

Bugfix for `-output-directory` with argument separated by = instead of whitespace.

0.7   2018-04-16

Take `-output-directory` into account.

0.6   2018-02-07

Remove dependencies and update package to a modern LuaTeX. Thanks to Christian Stadelmann.

0.5   2017-07-31

Fix error where I can't find a whitelist file, but the io.open() call does not return an error message.

0.4   2016-04-01

Compact representation of hyphenated words that occur more than once with different hyphenation positions (option copmact=true).

Sort uhy entries alphabetically and only use lowercase words in the file.

0.2   2012-06-22

Fix ligature counting error (github issue #1)

Add nofile option

No hyphenation list in the terminal output (log only)

License details added

8 Bugs

- Paragraphs that end with `\end{document}` are ignored. Inserting an empty line or `\par` helps.

9 License

This file (documentation and the package) is released under the terms of the MIT License. See the file `mit-license.txt` in the distribution.