Polisher

Version 1.0

(w) by Christian Sämann, available under GPLv3

Polisher is an open source LaTeX source file verification tool. It performs a number of basic sanity checks on a LaTeX file, identifying punctuation and formatting errors as well as typos. It is highly configurable.

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1. Overview

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2. Profiles

A collections of configuration files, together with a set of switches of which checks should be performed is called a **profile**.

Profiles are folders in `/config` which contain a configuration file with switches, called `profile.cfg`. This file contains a line`Name:<name of profile>`.

The profile folder also contains the configuration file for the individual checking modules.

Note that in all configuration files, lines starting with `%` will be ignored.

3. Checking modules

Note that LaTeX code is interpreted as is, and no substitutions due to macros are being made.

3.1. PunctuationChecker

Only applied to body of document.

This runs the following checks, which can be turned on and off:

`paragraph header needs to end with fullstop`: Each `\paragraph{...}` argument has to end with a fullstop.

`footnote punctuation`: If a footnote starts with a lowercase letter, it should not end in a fullstop. Also, footnotes should not end in a comma or semi-colon.

3.2. RegExpMatcher

The key configuration file is `regexps.cfg`. Each rule consists of two lines of the form
`<description>|<level>|<severity>|<parameters>`
`<regexp>`
with only the first entry mandatory in the first line.

Valid levels:
     1   Body
     90   Bibliography
Valid parameters:
     `not_in_tags`   the match cannot be in `\cite`, `\eqref`, or `\cref`

3.3. Homogenizer

The key configuration file is `homogenizer.cfg`. This file contains a word list with each line of the following form:
`<standard form>:<alternatives, separated by ;>|<exceptions, separated by ;>`

3.4. BibliographyChecker

Only applied to bibliography of document.

The key configuration file is `biliography.cfg`. Each line starting with `journal-normalization` is of the form

`journal-normalization:<search-for>-><replace-by>`

Checks for

- Each bibitem needs to end in fullstop.
- Make sure the journal names are standardised.

4.   Acknowledgements

Libraries used:

- Usual Atlantis libraries