Package 'rslp'

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Type Package
Title A Stemming Algorithm for the Portuguese Language
Version 0.2.0
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Description Implements the ``Stemming Algorithm for the Portuguese Language" < DOI:10.1109/SPIRE.2001.10024>.
<pre>URL https://github.com/dfalbel/rslp</pre>
License MIT + file LICENSE
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Encoding UTF-8
RoxygenNote 7.0.2
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apply_rules extract_raw_rules extract_replacement_rules extract_rules extract_rules_info extract_rule_info remove_accents rslp rslp_ rslp_doc verify_suffx
verify_sufix

2 extract_raw_rules

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apply_rules Apply rules

Description

Apply rules

Usage

```
apply_rules(word, name, steprules)
```

Arguments

word word to which you want to apply the rules

name the rule name, possible values are: 'Plural', 'Feminine', 'Adverb', 'Augmenta-

tive', 'Noun', 'Verb', 'Vowel'.

steprules steprules as obtained from the function extract_rules.

Description

Separate the seven kinds of rules

Usage

```
extract_raw_rules(raw_rules)
```

Arguments

raw_rules a charcter with the raw rules.

extract_replacement_rules

Extract replacement rules

Description

Parses the the raw replacement rules.

Usage

```
extract_replacement_rules(raw_repl)
```

Arguments

raw_repl

the part with replacement rules for each step rule.

extract_rules

Extract Rules from file

Description

This function parse the rules that are disponible in the RLSP package disponible in the RSLP C source. This file has been downloaded and is installed with the package. It's path can be found using system.file("steprules.txt", package = "rslp") A parsed version is saved is also installed with the package and its path can be found using system.file("steprules.rds", package = "rslp").

Usage

```
extract_rules(path = system.file("steprules.txt", package = "rslp"))
```

Arguments

path

path to the raw steprules. Most of the times you don't have to change it.

remove_accents

extract_rules_info

Extract Rules Info

Description

Extract all info from all rules

Usage

```
extract_rules_info(rules)
```

Arguments

rules

rules parsed before by extract_rule_info

extract_rule_info

Extract Rule Info

Description

Extract all info for one rule

Usage

```
extract_rule_info(rule)
```

Arguments

rule

the rule you want to extract infos

remove_accents

Remove Acccents

Description

A wrappper for stringi package.

Usage

```
remove_accents(s)
```

Arguments

s

the string you want to remove accents

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rslp

Description

Apply the Stemming Algorithm for the Portuguese Language to vector of words.

RSLP

Usage

```
rslp(
  words,
  steprules = readRDS(system.file("steprules.rds", package = "rslp"))
)
```

Arguments

words

vector of words that you want to stem.

steprules

as obtained from the function extract_rules. (only define if you are certain about it). The default is to get the parsed version of the rules installed with the package.

References

V. Orengo, C. Huyck, "A Stemming Algorithmm for the Portuguese Language", SPIRE, 2001, String Processing and Information Retrieval, International Symposium on, String Processing and Information Retrieval, International Symposium on 2001, pp. 0186, doi:10.1109/SPIRE.2001.10024

Examples

```
words <- c("gostou", "gosto", "gostaram")
rslp(words)</pre>
```

rslp_

 $RSLP_{-}$

Description

Apply the Stemming Algorithm for the Portuguese Language to a word.

Usage

```
rslp_(
  word,
  steprules = readRDS(system.file("steprules.rds", package = "rslp"))
)
```

rslp_doc

Arguments

word word to be stemmed.

steprules as obtained from the function extract_rules.

rslp_doc RSLP Document

Description

Apply the Stemming Algorithm for the Portuguese Language to vector of documents. It extracts words using the regex "\b[:alpha:]\b"

Usage

```
rslp_doc(
  docs,
  steprules = readRDS(system.file("steprules.rds", package = "rslp"))
)
```

Arguments

docs chr vector of documents

steprules as obtained from the function extract_rules. (only define if you are certain about

it). The default is to get the parsed version of the rules installed with the package.

References

V. Orengo, C. Huyck, "A Stemming Algorithmm for the Portuguese Language", SPIRE, 2001, String Processing and Information Retrieval, International Symposium on, String Processing and Information Retrieval, International Symposium on 2001, pp. 0186, doi:10.1109/SPIRE.2001.10024

Examples

```
docs <- c("coma frutas pois elas fazem bem para.")
rslp_doc(docs)</pre>
```

verify_sufix 7

Description

Given a list of suffixes, returns a vector of true or false indicating if the word has each one of the suffixes

Usage

```
verify_sufix(word, rep_rules)
```

Arguments

word word you which to verify replacement rules

rep_rules data.frame of rules as specified in steprules\$replacement_rule

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