Package 'proustr'

October 4, 2017

Title Tools for Natural Language Processing in French

Version 0.2.1

Date 2017-09-28

Description
Tools for Natural Language Processing in French and texts from Marcel Proust's collection ``A La Recherche Du Temps Perdu". The novels contained in this collection are ``Du cote de chez Swann ", ``A l'ombre des jeunes filles en fleurs",``Le Cote de Guermantes", ``Sodome et Gomorrhe I et II", ``La Prisonniere", ``Albertine disparue", and ``Le Temps retrouve".

URL https://github.com/ColinFay/proustr

BugReports https://github.com/ColinFay/proustr/issues

Depends R (>= 2.10)

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Imports dplyr, magrittr, stringr, rlang, purrr, tidyr, tokenizers, SnowballC, assertthat

LazyData true

RoxygenNote 6.0.1.9000

Encoding UTF-8

Suggests testthat, knitr, rmarkdown, covr

VignetteBuilder knitr

ByteCompile true

NeedsCompilation no

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Repository CRAN

Date/Publication 2017-10-04 20:15:20 UTC

R topics documented:

`albertinedisparue` *Marcel Proust's novel "Albertine disparue"*

Description

A dataset containing Marcel Proust's "Albertine disparue". This text has been downloaded from WikiSource.

Usage

```
albertinedisparue
```

Format

A tibble with text, book, volume, and year

Source

https://fr.wikisource.org/wiki/Albertine_disparue

alombredesjeunesfillesenfleurs *Marcel Proust's novel "À l'ombre des jeunes filles en fleurs"*

Description

A dataset containing Marcel Proust's "À l'ombre des jeunes filles en fleurs". This text has been downloaded from WikiSource.

Usage

```
alombredesjeunesfillesenfleurs
```

Format

A tibble with text, book, volume, and year

ducotedechezswann *Marcel Proust's novel "Du côté de chez Swann"*

Description

A dataset containing Marcel Proust's "Du côté de chez Swann". This text has been downloaded from WikiSource.

Usage

```
ducotedechezswann
```

Format

A tibble with text, book, volume, and year

laprisonniere *Marcel Proust's novel "La Prisonnière"*

Description

A dataset containing Marcel Proust's "La prisonnière". This text has been downloaded from WikiSource.

Usage

```
laprisonniere
```

Format

A tibble with text, book, volume, and year

lecotedeguermantes *Marcel Proust's novel "Le côté de Guermantes"*

Description

A dataset containing Marcel Proust's "À l'ombre des jeunes filles en fleurs". This text has been downloaded from WikiSource.

Usage

```
lecotedeguermantes
```

Format

A tibble with text, book, volume, and year

letempretrouve *Marcel Proust's novel "Le temps retrouvé"*

Description

A dataset containing Marcel Proust's "Le temps retrouvé". This text has been downloaded from WikiSource.

Usage

```
letempretrouve
```

Format

A tibble with text, book, volume, and year.

proust_books *Tidy data frame of Marcel Proust's 7 novels from La Recherche*

Description

Returns a tidy tibble of Marcel Proust's 7 novels from À la recherche du temps perdu. The tibble contains four columns: text, book, volume and year.

Usage

```
proust_books()
```

Value

A tibble with four columns: `text`, `book`, `volume` and `year`.

Examples

```
#Create the tibble
proust <- proust_books()
```

proust_char *Characters from "À la recherche du temps perdu"*

Description

A dataset containing Marcel Proust's characters from "À la recherche du temps perdu" and their frequency in each book. This dataset has been downloaded from proust-personnages.

Usage

```
proust_char
```

Format

A tibble with their name

Source

http://proust-personnages.fr/?page_id=10254

proust_characters *Characters from Proust Books*

Description

Returns a tidy data frame of Marcel Proust's characters.

Usage

```
proust_characters()
```

Value

A tibble

Source

http://proust-personnages.fr/

Examples

```
#Creates the tibble
proust <- proust_characters()
```

proust_random *Create a Random Proust extract*

Description

Create your own flavor of Proust with this random extractor.

Usage

```
proust_random(count = 1, collapse = TRUE)
```

Arguments

count	the number of line you want to randomly extract and paste.
collapse	if FALSE, the output will be a tibble. Default is TRUE, a character vector.

Value

a character vector

Examples

```
proust_random(4)
```

`proust_sentiments` *Sentiment Lexicon*

Description

A sentiment lexicon with eitheir polarity or score.

Usage

```
proust_sentiments(type = c("polarity", "score"))
```

Arguments

`type`	polarity (positive or negative) or score on six sentiments (joy, fear, sadness, anger, surprise, disgust)

Value

a tibble

Source

Amine Abdaoui, Jérôme Azé, Sandra Bringay et Pascal Poncelet. FEEL: French Expanded Emotion Lexicon. Language Resources and Evaluation, LRE 2016, pp 1-23.

Examples

```
proust_sentiments(type = "score")
proust_sentiments(type = "polarity")
```

`proust_stopwords` *Stop Words*

Description

Stop words concatenated from various web sources.

Usage

```
proust_stopwords()
```

Value

a tibble with stopwords

Source

https://raw.githubusercontent.com/stopwords-iso/stopwords-fr/master/stopwords-fr.txt

http://www.ranks.nl/stopwords/french

http://www.naunaute.com/liste-stop-words-francais-393

https://sites.google.com/site/kevinbouge/stopwords-lists/stopwords_fr.txt?attredirects=0&d=1

Examples

```
proust_stopwords()
```

---

pr_detect_days *Detect french days*

Description

Detect the name of the days (in French)

Usage

```
pr_detect_days(df, col)
```

Arguments

df	a dataframe
col	the column containing the text

Value

a tibble with the number of days detected by the algo

Examples

```
a <- data.frame(jours = c("C'est lundi 1er mars et mardi 2",
"Et mercredi 3", "Il est revenu jeudi."))
pr_detect_days(a, jours)
```

pr_detect_months *Detect french months*

Description

Detect the name of the months (in French)

Usage

```
pr_detect_months(df, col)
```

Arguments

df	a dataframe
col	the column containing the text

Value

a tibble with the number of days detected by the algo

Examples

```
a <- data.frame(month = c("C'est lundi 1er mars et mardi 2",
"Et mercredi 3", "Il est revenu en juin."))
pr_detect_months(a, month)
```

pr_detect_pro *Detect French pronoums*

Description

Detect the pronouns from a text (in French)

Usage

```
pr_detect_pro(df, col, verbose = FALSE)
```

Arguments

df	a dataframe
col	the column containing the text
verbose	wether or not to return the list of pronouns. Defaults is FALSE

Details

The shortcuts in the pronoun col stand for:

pps: first person singular (première personne du singulier)

dps: second person singular (deuxième personne du singulier)

tps: third person singular (troisième personne du singulier)

ppp: first person plural (première personne du pluriel)

dpp: second person singular (deuxième personne du pluriel)

tpp: third person singular (troisième personne du pluriel)

Value

a tibble with the detected pronouns

Examples

```
library(proustr)
a <- proust_books()[1,]
pr_detect_pro(a, text, verbose = TRUE)
pr_detect_pro(a, text)
```

`pr_normalize_punc` *Normalize punctuation*

Description

Normalize a text written with usual french punctuation

Usage

```
pr_normalize_punc(df, col)
```

Arguments

`df`	a dataframe
`col`	the column to normalize

Value

a tibble with normalized text

Examples

```
a <- proustr::albertinedisparue[1:20,]
pr_normalize_punc(albertinedisparue, text)
```

pr_stem_sentences *Stem a dataframe containing a column with sentences*

Description

Implementation of the SnowballC stemmer. Note that punctuation and capital letters are removed when processing.

Usage

```
pr_stem_sentences(df, col, language = "french")
```

Arguments

df	the data.frame containing the text
col	the column with the text
language	the language of the text. Defaut is french. See SnowballC::getStemLanguages() function for a list of supported languages.

Value

a tibble

Examples

```
a <- proustr::laprisonniere[1:10,]
pr_stem_sentences(a, text)
```

pr_stem_words *Stem a dataframe containing a column with words*

Description

Implementation of the SnowballC stemmer. Note that punctuation and capitals letters are also removed.

Usage

```
pr_stem_words(df, col, language = "french")
```

Arguments

df	the data.frame containing the sentences
col	the column with the sentences
language	the language of the words Defaut is french. See SnowballC::getStemLanguages() function for a list of supported languages.

Value

a tibble

Examples

```
a <- data.frame(words = c("matin", "heure", "fatigué","sonné","lois", "tests","fusionner"))
pr_stem_words(a, words)
```

`sentiments_polarity` *Sentiment lexicon with polarity*

Description

Dataset from: Amine Abdaoui, Jérôme Azé, Sandra Bringay et Pascal Poncelet. FEEL: French Expanded Emotion Lexicon. Language Resources and Evaluation, LRE 2016, pp 1-23.

Usage

```
sentiments_polarity
```

Format

A tibble

Source

http://www.lirmm.fr/~abdaoui/FEEL.html

`sentiments_score` *Sentiment lexicon with score*

Description

Dataset from: Amine Abdaoui, Jérôme Azé, Sandra Bringay et Pascal Poncelet. FEEL: French Expanded Emotion Lexicon. Language Resources and Evaluation, LRE 2016, pp 1-23.

Usage

```
sentiments_score
```

Format

A tibble

Source

http://www.lirmm.fr/~abdaoui/FEEL.html

sodomeetgomorrhe *Marcel Proust's novel "Sodome et Gomorrhe"*

Description

A dataset containing Marcel Proust's "Sodom et Gomorrhe". This text has been downloaded from WikiSource.

Usage

```
sodomeetgomorrhe
```

Format

A tibble with text, book, volume, and year

Source

https://fr.wikisource.org/wiki/Sodome_et_Gomorrhe

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