

Package ‘gutenbergr’

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Type Package

Title Download and Process Public Domain Works from Project Gutenberg

Version 0.1.4

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Description Download and process public domain works in the Project Gutenberg collection <<http://www.gutenberg.org/>>. Includes metadata for all Project Gutenberg works, so that they can be searched and retrieved.

License GPL-2

LazyData TRUE

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URL <http://github.com/ropenscilabs/gutenbergr>

BugReports <http://github.com/ropenscilabs/gutenbergr/issues>

VignetteBuilder knitr

Depends R (>= 2.10)

Imports dplyr, readr, purrr, urltools, stringr, lazyeval

RoxygenNote 6.0.1

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NeedsCompilation no

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gutemberg_authors	<i>Metadata about Project Gutenberg authors</i>
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Description

Data frame with metadata about each author of a Project Gutenberg work. Although the Project Gutenberg raw data also includes metadata on contributors, editors, illustrators, etc., this dataset contains only people who have been the single author of at least one work.

Usage

```
gutemberg_authors
```

Format

A `tbl_df` (see `tibble` or `dplyr`) with one row for each author, with the columns

gutemberg_author_id Unique identifier for the author that can be used to join with the [gutemberg_metadata](#) dataset

author The `agent_name` field from the original metadata

alias Alias

birthdate Year of birth

deathdate Year of death

wikipedia Link to Wikipedia article on the author. If there are multiple, they are "/"-delimited

aliases Character vector of aliases. If there are multiple, they are "/"-delimited

Details

To find the date on which this metadata was last updated, run `attr(gutemberg_authors, "date_updated")`.

See Also

[gutemberg_metadata](#), [gutemberg_subjects](#)

Examples

```
# date last updated
attr(gutemberg_authors, "date_updated")
```

gutenberg_download	<i>Download one or more works using a Project Gutenberg ID</i>
--------------------	--

Description

Download one or more works by their Project Gutenberg IDs into a data frame with one row per line per work. This can be used to download a single work of interest or multiple at a time. You can look up the Gutenberg IDs of a work using the `gutenberg_works()` function or the `gutenberg_metadata` dataset.

Usage

```
gutenberg_download(gutenberg_id, mirror = NULL, strip = TRUE,
  meta_fields = NULL, verbose = TRUE, ...)
```

Arguments

<code>gutenberg_id</code>	A vector of Project Gutenberg ID, or a data frame containing a <code>gutenberg_id</code> column, such as from the results of a <code>gutenberg_works()</code> call
<code>mirror</code>	Optionally a mirror URL to retrieve the books from. By default uses the mirror from gutenberg_get_mirror
<code>strip</code>	Whether to strip suspected headers and footers using the gutenberg_strip function
<code>meta_fields</code>	Additional fields, such as title and author, to add from gutenberg_metadata describing each book. This is useful when returning multiple
<code>verbose</code>	Whether to show messages about the Project Gutenberg mirror that was chosen
<code>...</code>	Extra arguments passed to gutenberg_strip , currently unused

Details

Note that if `strip = TRUE`, this tries to remove the Gutenberg header and footer using the [gutenberg_strip](#) function. This is not an exact process since headers and footers differ between books. Before doing an in-depth analysis you may want to check the start and end of each downloaded book.

Value

A two column `tbl_df` (a type of data frame; see `tibble` or `dplyr` packages) with one row for each line of the text or texts, with columns

gutenberg_id Integer column with the Project Gutenberg ID of each text

text A character vector

Examples

```
## Not run:
library(dplyr)

# download The Count of Monte Cristo
gutenberg_download(1184)
```

```
# download two books: Wuthering Heights and Jane Eyre
books <- gutenberg_download(c(768, 1260), meta_fields = "title")
books
books %>% count(title)

# download all books from Jane Austen
austen <- gutenberg_works(author == "Austen, Jane") %>%
  gutenberg_download(meta_fields = "title")

austen
austen %>%
  count(title)

## End(Not run)
```

```
gutenberg_get_mirror    Get the recommended mirror for Gutenberg files
```

Description

Get the recommended mirror for Gutenberg files by accessing the wget harvest path, which is [http://www.gutenberg.org/robot/harvest?filetypes\[\]=txt](http://www.gutenberg.org/robot/harvest?filetypes[]=txt). Also sets the global `gutenberg_mirror` options.

Usage

```
gutenberg_get_mirror(verbose = TRUE)
```

Arguments

<code>verbose</code>	Whether to show messages about the Project Gutenberg mirror that was chosen
----------------------	---

```
gutenberg_metadata    Gutenberg metadata about each work
```

Description

Selected fields of metadata about each of the Project Gutenberg works. These were collected using the `gutenberg` Python package, particularly the `pg_rdf_to_json` function.

Usage

```
gutenberg_metadata
```

Format

A `tbl_df` (see `tibble` or `dplyr`) with one row for each work in Project Gutenberg and the following columns:

gutenberg_id Numeric ID, used to retrieve works from Project Gutenberg

title Title

author Author, if a single one given. Given as last name first (e.g. "Doyle, Arthur Conan")

author_id Project Gutenberg author ID

language Language ISO 639 code, separated by / if multiple. Two letter code if one exists, otherwise three letter. See https://en.wikipedia.org/wiki/List_of_ISO_639-2_codes

gutenberg_bookshelf Which collection or collections this is found in, separated by / if multiple

rights Generally one of three options: "Public domain in the USA." (the most common by far), "Copyrighted. Read the copyright notice inside this book for details.", or "None"

has_text Whether there is a file containing digits followed by `.txt` in Project Gutenberg for this record (as opposed to, for example, audiobooks). If not, cannot be retrieved with [gutenberg_download](#)

Details

To find the date on which this metadata was last updated, run `attr(gutenberg_metadata, "date_updated")`.

See Also

[gutenberg_works](#), [gutenberg_authors](#), [gutenberg_subjects](#)

Examples

```
library(dplyr)
library(stringr)

gutenberg_metadata

gutenberg_metadata %>%
  count(author, sort = TRUE)

# look for Shakespeare, excluding collections (containing "Works") and translations
shakespeare_metadata <- gutenberg_metadata %>%
  filter(author == "Shakespeare, William",
         language == "en",
         !str_detect(title, "Works"),
         has_text,
         !str_detect(rights, "Copyright")) %>%
  distinct(title)

## Not run:
shakespeare_works <- gutenberg_download(shakespeare_metadata$gutenberg_id)

## End(Not run)

# note that the gutenberg_works() function filters for English
# non-copyrighted works and does de-duplication by default:

shakespeare_metadata2 <- gutenberg_works(author == "Shakespeare, William",
```

```
!str_detect(title, "Works"))

# date last updated
attr(gutenberg_metadata, "date_updated")
```

gutenberg_strip	<i>Strip header and footer content from a Project Gutenberg book</i>
-----------------	--

Description

Strip header and footer content from a Project Gutenberg book. This is based on some formatting guesses so it may not be perfect. It will also not strip tables of contents, prologues, or other text that appears at the start of a book.

Usage

```
gutenberg_strip(text)
```

Arguments

text	A character vector with lines of a book
------	---

Examples

```
library(dplyr)
book <- gutenberg_works(title == "Pride and Prejudice") %>%
  gutenberg_download(strip = FALSE)

head(book$text, 10)
tail(book$text, 10)

text_stripped <- gutenberg_strip(book$text)

head(text_stripped, 10)
tail(text_stripped, 10)
```

gutenberg_subjects	<i>Gutenberg metadata about the subject of each work</i>
--------------------	--

Description

Gutenberg metadata about the subject of each work, particularly Library of Congress Classifications (lcc) and Library of Congress Subject Headings (lcsb).

Usage

```
gutenberg_subjects
```

Format

A `tbl_df` (see `tibble` or `dplyr`) with one row for each pairing of work and subject, with columns:

gutenberg_id ID describing a work that can be joined with [gutenberg_metadata](#)

subject_type Either "lcc" (Library of Congress Classification) or "lcsh" (Library of Congress Subject Headings)

subject Subject

Details

Find more information about Library of Congress Categories here: <https://www.loc.gov/catdir/cpsolcc/>, and about Library of Congress Subject Headings here: <http://id.loc.gov/authorities/subjects.html>.

To find the date on which this metadata was last updated, run `attr(gutenberg_subjects, "date_updated")`.

See Also

[gutenberg_metadata](#), [gutenberg_authors](#)

Examples

```
library(dplyr)
library(stringr)

gutenberg_subjects %>%
  filter(subject_type == "lcsh") %>%
  count(subject, sort = TRUE)

sherlock_holmes_subjects <- gutenberg_subjects %>%
  filter(str_detect(subject, "Holmes, Sherlock"))

sherlock_holmes_subjects

sherlock_holmes_metadata <- gutenberg_works() %>%
  filter(author == "Doyle, Arthur Conan") %>%
  semi_join(sherlock_holmes_subjects, by = "gutenberg_id")

sherlock_holmes_metadata

## Not run:
holmes_books <- gutenberg_download(sherlock_holmes_metadata$gutenberg_id)

holmes_books

## End(Not run)

# date last updated
attr(gutenberg_subjects, "date_updated")
```

gutenberg_works

*Get a filtered table of Gutenberg work metadata***Description**

Get a table of Gutenberg work metadata that has been filtered by some common (settable) defaults, along with the option to add additional filters. This function is for convenience when working with common conditions when pulling a set of books to analyze. For more detailed filtering of the entire Project Gutenberg metadata, use the [gutenberg_metadata](#) and related datasets.

Usage

```
gutenberg_works(..., languages = "en", only_text = TRUE,
  rights = c("Public domain in the USA.", "None"), distinct = TRUE,
  all_languages = FALSE, only_languages = TRUE)
```

Arguments

...	Additional filters, given as expressions using the variables in the gutenberg_metadata dataset (e.g. <code>author == "Austen, Jane"</code>)
languages	Vector of languages to include
only_text	Whether the works must have Gutenberg text attached. Works without text (e.g. audiobooks) cannot be downloaded with gutenberg_download
rights	Values to allow in the rights field. By default allows public domain in the US or "None", while excluding works under copyright. NULL allows any value of Rights
distinct	Whether to return only one distinct combination of each title and <code>gutenberg_author_id</code> . If multiple occur (that fulfill the other conditions), it uses the one with the lowest ID
all_languages	Whether, if multiple languages are given, all of them need to be present in a work. For example, if <code>c("en", "fr")</code> are given, whether only en/fr as opposed to English or French works should be returned
only_languages	Whether to exclude works that have other languages besides the ones provided. For example, whether to include en/fr when English works are requested

Details

By default, returns

- English-language works
- That are in text format in Gutenberg (as opposed to audio)
- Whose text is not under copyright
- At most one distinct field for each title/author pair

Value

A `tbl_df` (see the `tibble` or `dplyr` packages) with one row for each work, in the same format as [gutenberg_metadata](#).

Examples

```
library(dplyr)

gutenberg_works()

# filter conditions
gutenberg_works(author == "Shakespeare, William")

# language specifications

gutenberg_works(languages = "es") %>%
  count(language, sort = TRUE)

gutenberg_works(languages = c("en", "es")) %>%
  count(language, sort = TRUE)

gutenberg_works(languages = c("en", "es"), all_languages = TRUE) %>%
  count(language, sort = TRUE)

gutenberg_works(languages = c("en", "es"), only_languages = FALSE) %>%
  count(language, sort = TRUE)
```

read_zip_url	<i>Read a file from a .zip URL</i>
--------------	------------------------------------

Description

Download, read, and delete a .zip file

Usage

```
read_zip_url(url)
```

Arguments

url	URL to a .zip file
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