Package ‘repurrrsive’

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Title  Examples of Recursive Lists and Nested or Split Data Frames

Version  1.0.0

Description  Recursive lists in the form of R objects, 'JSON', and 'XML', for use in teaching and examples. Examples include color palettes, Game of Thrones characters, 'GitHub' users and repositories, music collections, and entities from the Star Wars universe. Data from the 'gapminder' package is also included, as a simple data frame and in nested and split forms.

License  CC0

URL  https://github.com/jennybc/repurrrsive

BugReports  https://github.com/jennybc/repurrrsive/issues

Depends  R (>= 2.10)

Imports  tibble, utils

Suggests  gapminder, jsonlite, purrr, rprojroot, testthat (>= 2.1.0), wesanderson, xml2

Encoding  UTF-8

LazyData  true

RoxygenNote  6.1.1

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Description

Recursive lists in the form of R objects, 'JSON', and 'XML', for use in teaching and examples. Examples include color palettes, Game of Thrones characters, 'GitHub' users and repositories, music collections, and entities from the Star Wars universe. Data from the 'gapminder' package is also included, as a simple data frame and in nested and split forms.

Details

Read more at https://github.com/jennybc/repurrrsive#readme.

Author(s)

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See Also

Useful links:

- https://github.com/jennybc/repurrrsive
- Report bugs at https://github.com/jennybc/repurrrsive/issues
**Description**

A music collection, as represented in a recursive list returned from the Discogs API.

**Usage**

discog

**Format**

A unnamed list with 155 components, each representing an item in Sharla’s music collection.

**Source**

- Data retrieved on 2019-07-15 from https://www.discogs.com
- Original blog post by Sharla Gelfand https://sharla.party/posts/discog-purrr/

**See Also**

Other Discogs data and functions: discog_json

**Examples**

```r
length(discog)
str(discog, max.level = 2, list.len = 2)
vapply(discog[1:6], `[[`, c("basic_information", "title"), FUN.VALUE = ""
```

**discog_json** Path to Discogs data as JSON

**Description**

Path to Discogs data as JSON

**Usage**

discog_json()

**Value**

Local path to JSON file containing Discogs data
See Also

Other Discogs data and functions: discog

Examples

discog_json()
if (require("jsonlite")) {
  d <- fromJSON(discog_json(), simplifyVector = FALSE)
  identical(discog, d)
}

gap_simple

Gapminder data frame in various forms

Description

The main data frame from the gapminder package in three forms:

1. gap_simple, same as gapminder::gapminder
2. gap_nested, nested by country and continent
3. gap_split, split by country

Usage

gap_simple

gap_nested

gap_split

Format

An object of class tbl_df (inherits from tbl.data.frame) with 1704 rows and 6 columns.

Examples

gap_simple

gap_nested

gap_split
**gh_repos**

**GitHub repos**

**Description**

Info on GitHub repos, retrieved from the GitHub API.

**Usage**

gh_repos

**Format**

A unnamed list with 6 components, each itself a list of 30 repos for a specific GitHub user. Each repo’s component is a list of length >60, containing information such as name, owner (a list), fork status, and creation date.

**Source**


**See Also**

Other GitHub data and functions: gh_users_json, gh_users

**Examples**

gh_repos

str(lapply(gh_repos[1][1:3], `\`, c("full_name", "created_at")))

---

**gh_users**

**GitHub users**

**Description**

Info on GitHub users, retrieved from the GitHub API.

**Usage**

gh_users

**Format**

A unnamed list with 6 components, each representing a GitHub user. Each user’s component is a list of length 30, containing information such as username, GitHub id, and join date.
gh_users_json

Source

See Also
Other GitHub data and functions: gh_repos, gh_users_json

Examples
gh_users
str(lapply(gh_users, '[', c("login", "name")))

gh_users_json

Description
Paths to GitHub data as JSON and XML

Usage
gh_users_json()

Value
Local path to JSON or XML file containing GitHub data

See Also
Other GitHub data and functions: gh_repos, gh_users

Examples
gh_users_json()
if (require("jsonlite")) {
  ghuj <- fromJSON(gh_users_json(), simplifyDataFrame = FALSE)
  identical(gh_users, ghuj)
}
gh_repos_json()
if (require("jsonlite")) {
  ghjr <- fromJSON(gh_repos_json(), simplifyDataFrame = FALSE)
  identical(gh_repos, ghjr)
got_chars

}  
gh_users_xml()  
if (require("xml2")) {  
  xml <- read_xml(gh_users_xml())  
xml  
}  
gh_repos_xml()  
if (require("xml2")) {  
  xml <- read_xml(gh_repos_xml())  
xml  
}

---

**got_chars**  
*Game of Thrones POV characters*

**Description**

Info on the point-of-view (POV) characters from the first five books in the Song of Ice and Fire series by George R. R. Martin. Retrieved from An API Of Ice And Fire.

**Usage**

got_chars

**Format**

A unnamed list with 30 components, each representing a POV character. Each character’s component is a named list of length 18, containing information such as name, aliases, and house allegiances.

**Source**

https://anapioficeandfire.com

**See Also**

Other Game of Thrones data and functions: got_chars_json

**Examples**

got_chars
str(lapply(got_chars, `[', c("name", "culture")))
got_chars_json | Paths to Game of Thrones data as JSON and XML

**Description**
Paths to Game of Thrones data as JSON and XML.

**Usage**
got_chars_json()
got_chars_xml()

**Value**
Local path to JSON or XML file containing Game of Thrones data

**See Also**
Other Game of Thrones data and functions: got_chars

**Examples**
got_chars_json()
if (require("jsonlite")) {
  gotcj <- fromJSON(got_chars_json(), simplifyDataFrame = FALSE)
  identical(got_chars, gotcj)
}
got_chars_xml()
if (require("xml2")) {
  xml <- read_xml(got_chars_xml())
  xml
}

sw_people | Entities from the Star Wars Universe

**Description**
Data retrieved from the swapi API on the Star Wars Universe.
Usage

sw_people
sw_films
sw_planets
sw_species
sw_vehicles
sw_starships

Format

Unnamed lists with varying number of components.

Details

- **sw_people** List of individual people or characters within the Star Wars universe.
- **sw_starships** List of transport crafts with hyperdrive capability.
- **sw_vehicles** List of transport crafts without hyperdrive capability.
- **sw_films** List of Star Wars films.
- **sw_species** List of types of people or characters within the Star Wars Universe.
- **sw_planets** List of large masses, planets or planetoids in the Star Wars Universe, at the time of 0 ABY.

Source

Data comes from [http://swapi.co/](http://swapi.co/) retrieved using the [rwar](https://github.com/Ironholds/rwar) package:

```r
# sw_people
length(sw_people)
names(sw_people[[1]])
sapply(sw_people, `[[`, "name")

# sw_films
length(sw_films)
names(sw_films[[1]])
sapply(sw_films, `[[`, "title")
```
### wesanderson

**Color palettes from Wes Anderson movies**

#### Description

A list of color palettes inspired by Wes Anderson movies, taken from the from wesanderson package.

#### Usage

wesanderson

#### Format

A named list with 15 components, each containing a color palette from a specific movie. Each palette consists of 4 or 5 hexadecimal color values.

#### Source

- https://cran.r-project.org/package=wesanderson
- http://wesandersonpalettes.tumblr.com

#### See Also

Other wesanderson data and functions: wesanderson_json

#### Examples

```r
wesanderson[4:5]
wesanderson["Rushmore"]
```

### wesanderson_json

**Path to wesanderson JSON and XML**

#### Description

Path to wesanderson JSON and XML

#### Usage

- wesanderson_json()
- wesanderson_xml()

#### Value

Local path to JSON or XML file containing Wes Anderson color palettes
See Also

Other wesanderson data and functions: wesanderson

Examples

wesanderson_json()
if (require("jsonlite")) {
    jsonlite::fromJSON(wesanderson_json())
}

wesanderson_xml()
if (require("xml2")) {
    xml2::read_xml(wesanderson_xml())
}
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