Package ‘tidytuesdayR’

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Type Package

Title Access the Weekly ‘TidyTuesday’ Project Dataset

Version 1.0.2

Description ‘TidyTuesday’ is a project by the ‘R4DS Online Learning Community’ in which they post a weekly dataset in a public data repository (<https://github.com/rfordatascience/tidytuesday>) for people to analyze and visualize. This package provides the tools to easily download this data and the description of the source.

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URL https://github.com/thebioengineer/tidytuesdayR

BugReports https://github.com/thebioengineer/tidytuesdayR/issues

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**Description**

The TidyTuesday project is a constantly growing repository of data sets. Knowing what type of data is available for each week requires going to the source. However, one of the hallmarks of 'tidyTuesdayR' is that you never have to leave your R console. These functions were created to help maintain this philosophy.

**Usage**

```r
tt_available(auth = github_pat())
```

```r
tt_datasets(year, auth = github_pat())
```

**Arguments**

- `auth`
  - github Personal Access Token. See PAT section for more information

- `year`
  - numeric entry representing the year of TidyTuesday you want the list of datasets for. Leave empty for most recent year.

**Details**

To find out the available datasets for a specific year, the user can use the function `tt_datasets()`. This function will either populate the Viewer or print to console all the available data sets and the week/date they are associated with.

To get the whole list of all the data sets ever released by TidyTuesday, the function `tt_available()` was created. This function will either populate the Viewer or print to console all the available data sets ever made for TidyTuesday.
Value

`tt_available()` returns a `tt_dataset_table_list`, which is a list of `tt_dataset_table`. This class has special printing methods to show the available data sets.

`tt_datasets()` returns a `tt_dataset_table` object. This class has special printing methods to show the available datasets for the year.

PAT

A Github PAT is a Personal Access Token. This allows for signed queries to the github api, and increases the limit on the number of requests allowed from 60 to 5000. Follow instructions at <https://happygitwithr.com/github-pat.html> to set your PAT.

Examples

```r
# check to make sure there are requests still available
if(rate_limit_check(quiet = TRUE) > 10){
  ## show data available from 2018
  tt_datasets(2018)

  ## show all data available ever
  tt_available()
}
```

Description

Printing utilities for showing the available datasets for a specific year or all time

Usage

```r
## S3 method for class 'tt_dataset_table'
print(x, ..., is_interactive = interactive())

## S3 method for class 'tt_dataset_table_list'
print(x, ..., is_interactive = interactive())
```

Arguments

- `x`: an object used to select a method.
- `...`: further arguments passed to or from other methods.
- `is_interactive`: is the console interactive?

Value

used for side effects to show the available datasets for the year or for all time.
github_pat

Return the local user’s GitHub Personal Access Token

Description

Extract the GitHub Personal Access Token (PAT) from the system environment for authenticated requests.

Usage

github_pat(quiet = TRUE)

Arguments

quiet Should this be loud? default TRUE.

Value

a character vector that is your Personal Access Token, or NULL

PAT

A Github ’PAT’ is a Personal Access Token. This allows for signed queries to the github api, and increases the limit on the number of requests allowed from 60 to 5000. Follow instructions from <https://happygitwithr.com/github-pat.html> to set the PAT.

Examples

```r
## if you have a personal access token saved, this will return that value
github_pat()
```
last_tuesday

Find the most recent tuesday

Description
Utility function to assist users in identifying the most recent 'TidyTuesday' date

Usage
last_tuesday(date = today(tzone = "America/New_York"))

Arguments
date
todays date as a date object or character string in YYYY-MM-DD format.

Examples
last_tuesday() # get last tuesday from todays date
last_tuesday("2020-01-01") # get last tuesday from specified date

printing
print methods of the tt objects

Description
In tidyTuesdayR there are nice print methods for the objects that were used to download and store the data from the TidyTuesday repo. They will always print the available datasets/files. If there is a readme available, it will try to display the TidyTuesday readme.

Usage
## S3 method for class 'tt_data'
print(x, ...)

## S3 method for class 'tt'
print(x, ...)

Arguments
x
t a tt_data or tt object
... further arguments passed to or from other methods.
rate_limit_check

Value

used to show readme and list names of available datasets
used to show available datasets for the TidyTuesday

Examples

```r
if(interactive()){
  tt <- tt_load_gh("2019-01-15")
  print(tt)

  tt_data <- tt_download(tt, files = "All")
  print(tt_data)
}
```

rate_limit_check Get Rate limit left for GitHub Calls

Description

The GitHub API limits the number of requests that can be sent within an hour. This function returns the stored rate limits that are remaining.

Usage

```
rate_limit_check(n = 10, quiet = FALSE)
```

Arguments

- `n` number of requests that triggers a warning indicating the user is close to the limit
- `quiet` should messages be returned when the rate limit is zero or less than `n`?

Value

return the number of calls are remaining as a numeric values

Examples

```
rate_limit_check()
```
Readme HTML maker and Viewer

Description
Readme HTML maker and Viewer

Usage
readme(tt)

Arguments
- **tt**: tt_data object for printing

Value
Does not return anything. Used to show readme of the downloaded TidyTuesday dataset in the Viewer.

Examples
```r
if(rate_limit_check(quiet = TRUE) > 10 & interactive()){
  tt_output <- tt_load_gh("2019-01-15")
  readme(tt_output)
}
```

Get date of TidyTuesday, given the year and week

Description
Sometimes we don’t know the date we want, but we do know the week. This function provides the ability to pass the year and week we are interested in to get the correct date.

Usage
tt_date(year, week)

Arguments
- **year**: what year of TidyTuesday to use
- **week**: what week of TidyTuesday to use
Examples

if(interactive()){
  tt_date(2019, week = 42)
}


## tt_download

download tt data
Download all or specific files identified in the tt dataset

### Usage

tt_download(tt, files = c("All"), ..., branch = "master", auth = github_pat())

### Arguments

- **tt**: a ‘tt’ object, output from `tt_load_gh`
- **files**: List the file names to download. Default to asking.
- **...**: pass methods to the parsing functions. These will be passed to ALL files, so be careful.
- **branch**: which branch to be downloading data from. Default and always should be "master".
- **auth**: github Personal Access Token. See PAT section for more information

### Value

list of tibbles of the files downloaded.

### PAT

A Github PAT is a personal Access Token. This allows for signed queries to the github api, and increases the limit on the number of requests allowed from 60 to 5000. Follow instructions at <https://happygitwithr.com/github-pat.html> to set the PAT.

### Examples

```r
if(interactive()){
  tt_output <- tt_load_gh("2019-01-15")
  agencies <- tt_download(tt_output, files = "agencies.csv")
}
```
**Description**

Reads in the actual data from the TidyTuesday github

**Usage**

```r
tt_download_file(tt, x, ..., auth = github_pat())
```

**Arguments**

- **tt**
  - tt_gh object from tt_load_gh function
- **x**
  - index or name of data object to read in. string or int
- **...**
  - pass methods to the parsing functions. These will be passed to ALL files, so be careful.
- **auth**
  - github Personal Access Token. See PAT section for more information

**Value**

tibble containing the contents of the file downloaded from git

**PAT**

A Github PAT is a personal Access Token. This allows for signed queries to the github api, and increases the limit on the number of requests allowed from 60 to 5000. Follow instructions at [https://happygitwithr.com/github-pat.html](https://happygitwithr.com/github-pat.html) to set the PAT.

**Examples**

```r
if(interactive()){
  tt_gh <- tt_load_gh("2019-01-15")

  agencies <- tt_download_file(tt_gh, 1)
  launches <- tt_download_file(tt_gh, "launches.csv")
}
```
tt_load

Load TidyTuesday data from Github

Description

Load TidyTuesday data from Github

Usage

```r
tt_load(x, week, download_files = "All", ..., auth = github_pat())
```

Arguments

- **x**: string representation of the date of data to pull, in YYYY-MM-dd format, or just numeric entry for year
- **week**: left empty unless x is a numeric year entry, in which case the week of interest should be entered
- **download_files**: which files to download from repo. defaults and assumes "All" for the week.
- **...**: pass methods to the parsing functions. These will be passed to ALL files, so be careful.
- **auth**: github Personal Access Token. See PAT section for more information

Value

- `tt_data` object, which contains data that can be accessed via `$`, and the readme for the weeks TidyTuesday through printing the object or calling `readme()`

PAT

A Github PAT is a personal Access Token. This allows for signed queries to the github api, and increases the limit on the number of requests allowed from 60 to 5000. Follow instructions from [https://happygitwithr.com/github-pat.html](https://happygitwithr.com/github-pat.html) to set the PAT.

Examples

```r
# check to make sure there are requests still available
if(rate_limit_check(quiet = TRUE) > 10){

tt_output <- tt_load("2019-01-15")
    tt_output
    agencies <- tt_output$agencies
}
```


**tt_load_gh**

_Load TidyTuesday data from Github_

**Description**

Pulls the readme and URLs of the data from the TidyTuesday github folder based on the date provided.

**Usage**

```
tt_load_gh(x, week, auth = github_pat())
```

**Arguments**

- `x` string representation of the date of data to pull, in YYYY-MM-dd format, or just numeric entry for year
- `week` left empty unless `x` is a numeric year entry, in which case the week of interest should be entered
- `auth` github Personal Access Token. See PAT section for more information

**Value**

a 'tt' object. This contains the files available for the week, readme html, and the date of the TidyTuesday.

**PAT**

A Github PAT is a personal Access Token. This allows for signed queries to the github api, and increases the limit on the number of requests allowed from 60 to 5000. Follow instructions from <https://happygitwithr.com/github-pat.html> to set the PAT.

**Examples**

```r
# check to make sure there are requests still available
if(rate_limit_check(quiet = TRUE) > 10 & interactive()){
  tt_gh <- tt_load_gh("2019-01-15")

  ## readme attempts to open the readme for the weekly dataset
  readme(tt_gh)

  agencies <- tt_download(
    tt_gh,
    files = "agencies.csv"
  )
}
```
use_tidytemplate

Call and open the tidytemplate

Description

Use the tidytemplate Rmd for starting your analysis with a leg up for processing

Usage

use_tidytemplate(name = NULL, open = interactive(), ..., refdate = today())

Arguments

name
open
... refdate

ame of your TidyTuesday analysis file
should the file be opened after being created
arguments to be passed to use_template
date to use as reference to determine which TidyTuesday to use for the template. Either date object or character string in YYYY-MM-DD format.

Examples

if(interactive()){
  use_tidytemplate(name = "My_Awesome_TidyTuesday.Rmd")
}

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