

# Package ‘frenchdata’

May 18, 2021

**Title** Download Data Sets from Kenneth's French Finance Data Library Site

**Version** 0.1.1

**Description** Download data sets from Kenneth's French finance data library site <[http://mba.tuck.dartmouth.edu/pages/faculty/ken.french/data\\_library.html](http://mba.tuck.dartmouth.edu/pages/faculty/ken.french/data_library.html)>, reads all the data subsets from the file. Allows R users to collect the data as 'tidyverse'-ready data frames.

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**URL** <https://nareal.github.io/frenchdata/>,  
<https://github.com/nareal/frenchdata>

**BugReports** <https://github.com/nareal/frenchdata/issues>

**Depends** R (>= 3.3)

**Encoding** UTF-8

**RoxygenNote** 7.1.1

**Imports** utils, magrittr, tibble, dplyr, tidyr (>= 1.0.0), cli, httr,  
rvest (>= 0.99.0.9000), stringr, purrr, assertthat, rlang, fs,  
readr

**Suggests** markdown, rmarkdown, knitr, lubridate, ggplot2

**VignetteBuilder** knitr

**NeedsCompilation** no

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**Repository** CRAN

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browse\_details\_page    *Browse the details webpage of a Kenneth's French data set*

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## Description

Opens the details webpage of a data set on the default browser.

## Usage

```
browse_details_page(fds)
```

## Arguments

fds                    an object of class [french\\_dataset](#)

## Value

Does not return a value. Opens the details webpage of a data set on the default browser window.

## Examples

```
if(interactive()){
  ff_3f <- download_french_data('Fama/French 3 Factors')
  browse_details_page(ff_3f)
}
```

---

browse\_french\_site     *Browse Kenneth's French data library website*

---

**Description**

Opens the data library website on the default browser [https://mba.tuck.dartmouth.edu/pages/faculty/ken.french/data\\_library.html](https://mba.tuck.dartmouth.edu/pages/faculty/ken.french/data_library.html)

**Usage**

```
browse_french_site()
```

**Value**

Does not return a value. Opens the Kenneth's French data library website with the default browser.

**Examples**

```
if(interactive()){  
  browse_french_site()  
}
```

---

download\_french\_data     *Download the data set*

---

**Description**

Download the data set

**Usage**

```
download_french_data(  
  dataset_name,  
  dir = NULL,  
  dest_file = NULL,  
  overwrite = FALSE,  
  max_tries = 3  
)
```

**Arguments**

dataset_name	string with the data set name. Use <code>get_french_data_list()</code> to get the list of data sets available to download.
dir	character. Should be a valid directory path where to save the compressed downloaded file.
dest_file	character. Should be a valid file name to save the compressed downloaded file. If <code>dir</code> is defined and <code>dest_file</code> is left empty, the original file name will be used.
overwrite	boolean. Overwrite an existing file?
max_tries	numeric. Number of file download trials.

**Value**

An objects of class `french_dataset` with the following elements:

- `info` - holds the information about when and were the information was retrieved.
- `details_url` - url for the webpage with details on data set.
- `subsets` a tibble with with the subsets contained in the downloaded file, the tibble contains a name and data column.

**Examples**

```
ff_3f <- download_french_data('Fama/French 3 Factors')
ff_3f
```

---

french\_dataset-class    french\_dataset *S3 class*

---

**Description**

The `french_dataset` exists to hold the results of reading the files lists of Kenneth's French data library.

It provides a method to print the objects of this class.

**Properties of french\_dataset**

Objects of class `french_dataset` have:

- A class attribute of `french_dataset`.
- A base type of "list" with the following elements:
  - `info` - holds the information about when and were the information was retrieved.
  - `details_url` - url for the webpage with details on data set.
  - `subsets` a tibble with with the subsets contained in the downloaded file, the tibble contains a name and data column.

**Behavior of french\_dataset**

- Pretty prints the object.

---

french\_data\_list-class  
french\_data\_list *S3 class*

---

**Description**

The french\_data\_list exists to hold the results of reading the files lists of Kenneth's French data library.

It provides a method to print the objects of this class.

**Properties of french\_data\_list**

Objects of class french\_data\_list have:

- A class attribute of french\_data\_list.
- A base type of "list" with the following elements:
  - info - holds the information about when and were the information was retrieved.
  - files\_list a tibble with with a list of files that can be downloaded, the tibble contains a name, file\_url and details\_url column.

**Behavior of french\_data\_list**

- Pretty prints the object.

---

get\_french\_data\_list *Get list of files available on Kenneth's French data library website*

---

**Description**

Extract the list of files along with a description and links to them and additional information from the data library page of Prof. Kenneth French website.

**Usage**

```
get_french_data_list(max_tries = 3, refresh = FALSE)
```

**Arguments**

max_tries	a number defining the maximum number of tries to perform when downloading the page.
refresh	logical. If TRUE re-downloads the page and overwrites the cached information. Otherwise use the cached data if a download has been done in the current session.

**Value**

An object of class `french_data_list` with the following elements:

- `info` - holds the information about when and where the information was retrieved.
- `files_list` a tibble with a list of files that can be downloaded, the tibble contains a `name`, `file_url` and `details_url` column.

**Examples**

```
files_list <- get_french_data_list()
files_list
```

---

```
print.french_dataset  Generic print method for objects of class french_dataset
```

---

**Description**

Prints an object of class `french_dataset`

**Usage**

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

**Arguments**

<code>x</code>	an object of class <code>french_dataset</code>
<code>...</code>	other arguments passed to <code>print()</code>

**Value**

Return a `tbl_df/data.frame` class object from the subsets element of `x`.

**Examples**

```
ff_3f <- download_french_data('Fama/French 3 Factors')
print(ff_3f)
ff_3f
```

---

```
print.french_data_list
```

*Generic print method for objects of class french\_data\_list*

---

### **Description**

Prints an object of class `french_data_list`

### **Usage**

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

### **Arguments**

`x` an object of class `french_data_list`  
`...` other arguments passed to `print()`

### **Value**

Return a `tbl_df/data.frame` class object from the `files_list` element of `x`.

### **Examples**

```
files_list <- get_french_data_list()  
print(files_list)  
files_list
```

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