

Package ‘stats19’

October 9, 2025

Title Work with Open Road Traffic Casualty Data from Great Britain

Version 3.4.0

Description Work with and download road traffic casualty data from Great Britain. Enables access to the UK's official road safety statistics, 'STATS19'. Enables users to specify a download directory for the data, which can be set permanently by adding ``STATS19_DOWNLOAD_DIRECTORY=/path/to/a/dir`` to your ``.Renvirom`` file, which can be opened with ``usethis::edit_r_envirom()``. The data is provided as a series of ``.csv`` files. This package downloads, reads-in and formats the data, making it suitable for analysis. See the stats19 vignette for details. Data available from 1979 to 2024. See the official data series at <https://www.data.gov.uk/dataset/cb7ae6f0-4be6-4935-9277-47e5ce24a11f/road-accidents-safety-data>. The package is described in a paper in the Journal of Open Source Software (Lovelace et al. 2019) [doi:10.21105/joss.01181](https://doi.org/10.21105/joss.01181). See Gilardi et al. (2022) [doi:10.1111/rssa.12823](https://doi.org/10.1111/rssa.12823), Vidal-Tortosa et al. (2021) [doi:10.1016/j.jth.2021.101291](https://doi.org/10.1016/j.jth.2021.101291), Tait et al. (2023) [doi:10.1016/j.aap.2022.106895](https://doi.org/10.1016/j.aap.2022.106895), and León et al. (2025) [doi:10.18637/jss.v114.i09](https://doi.org/10.18637/jss.v114.i09) for examples of how the data can be used for methodological and empirical research.

Depends R (>= 3.5.0)

License GPL-3

URL <https://github.com/ropensci/stats19>,
<https://docs.ropensci.org/stats19/>

BugReports <https://github.com/ropensci/stats19/issues>

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<i>accidents_sample</i>	<i>Sample of stats19 data (2022 collisions)</i>
-------------------------	---

Description

Sample of stats19 data (2022 collisions)

Format

A data frame

Note

These were generated using the script in the data-raw directory (misc.Rmd file).

Examples

```
nrow(accidents_sample_raw)
accidents_sample_raw
```

<i>casualties_sample</i>	<i>Sample of stats19 data (2022 casualties)</i>
--------------------------	---

Description

Sample of stats19 data (2022 casualties)

Format

A data frame

Note

These were generated using the script in the data-raw directory (misc.Rmd file).

Examples

```
nrow(casualties_sample_raw)
casualties_sample_raw
```

check_input_file	<i>Local helper to be reused.</i>
------------------	-----------------------------------

Description

Local helper to be reused.

Usage

```
check_input_file(filename = NULL, type = NULL, data_dir = NULL, year = NULL)
```

Arguments

filename	Character string of the filename of the .csv to read, if this is given, type and years determine whether there is a target to read, otherwise disk scan would be needed.
type	The type of file to be downloaded (e.g. 'collisions', 'casualty' or 'vehicles'). Not case sensitive and searches using regular expressions ('acc' will work).
data_dir	Where sets of downloaded data would be found.
year	Single year for which data are to be read

dl_stats19	<i>Download STATS19 data for a year</i>
------------	---

Description

Download STATS19 data for a year

Usage

```
dl_stats19(
  year = NULL,
  type = NULL,
  data_dir = get_data_directory(),
  file_name = NULL,
  ask = FALSE,
  silent = FALSE,
  timeout = 600
)
```

Arguments

year	A year matching file names on the STATS19 data release page e.g. 2020
type	One of 'collision', 'casualty', 'Vehicle'; defaults to 'collision'. This text string is used to match the file names released by the DfT.
data_dir	Parent directory for all downloaded files. See get_data_directory() for details.
file_name	The file name (DfT named) to download.
ask	Should you be asked whether or not to download the files? TRUE by default.
silent	Boolean. If FALSE (default value), display useful progress messages on the screen.
timeout	Timeout in seconds for the download if current option is less than this value. Defaults to 600 (10 minutes).

Details

This function downloads UK road crash data. It results in .csv files that are put in a directory that can be set with [get_data_directory\(\)](#). By default, stats19 downloads files to a temporary directory. You can change this behavior to save the files in a permanent directory. This is done by setting the STATS19_DOWNLOAD_DIRECTORY environment variable. A convenient way to do this is by adding STATS19_DOWNLOAD_DIRECTORY=/path/to/a/dir to your .Renviron file, which can be opened with `usethis::edit_r_environ()`.

The file downloaded would be for a specific year (e.g. 2022). It could also be a file containing data for a range of two (e.g. 2005-2014).

The dl_* functions can download many MB of data so ensure you have a sufficient internet access and hard disk space.

See Also

[get_stats19\(\)](#)

Examples

```
if (curl::has_internet()) {  
  # type by default is collisions table  
  dl_stats19(year = 2022)  
  # with type as casualty  
  dl_stats19(year = 2022, type = "casualty")  
  # try another year  
  dl_stats19(year = 2023)  
}
```

file_names	<i>stats19 file names for easy access</i>
------------	---

Description

URL decoded file names. Currently there are 52 file names released by the DfT (Department for Transport) and the details include how these were obtained and would be kept up to date.

Format

A named list

Note

These were generated using the script in the data-raw directory (misc.Rmd file).

Examples

```
head(file_names)
```

find_file_name	<i>Find file names within stats19::file_names.</i>
----------------	--

Description

Currently, there are 52 file names to download/read data from.

Usage

```
find_file_name(years = NULL, type = NULL)
```

Arguments

years	Year for which data are to be found
type	One of 'collisions', 'casualty' or 'vehicles' ignores case.

Examples

```
find_file_name(2016)
find_file_name(2016, type = "collision")
find_file_name(1985, type = "collision")
find_file_name(type = "cas")
find_file_name(type = "collision")
```

format_casualties	<i>Format STATS19 casualties</i>
-------------------	----------------------------------

Description

Format STATS19 casualties

Usage

```
format_casualties(x)
```

Arguments

x Data frame created with read_casualties()

Details

This function formats raw STATS19 data

Examples

```
if(curl::has_internet()) {  
  dl_stats19(year = 2022, type = "casualty")  
  x = read_casualties(year = 2022)  
  casualties = format_casualties(x)  
}
```

format_collisions	<i>Format STATS19 'collisions' data</i>
-------------------	---

Description

Format STATS19 'collisions' data

Usage

```
format_collisions(x)
```

Arguments

x Data frame created with read_collisions()

Details

This is a helper function to format raw STATS19 data

Examples

```
if(curl::has_internet()) {
  dl_stats19(year = 2022, type = "collision")
}
```

format_column_names	<i>Format column names of raw STATS19 data</i>
---------------------	--

Description

This function takes messy column names and returns clean ones that work well with R by default. Names that are all lower case with no R-unfriendly characters such as spaces and - are returned.

Usage

```
format_column_names(column_names)
```

Arguments

column_names Column names to be cleaned

Value

Column names cleaned.

Examples

```
if(curl::has_internet()) {
  crashes_raw = read_collisions(year = 2022)
  column_names = names(crashes_raw)
  column_names
  format_column_names(column_names = column_names)
}
```

format_ppp	<i>Convert STATS19 data into ppp (spatstat) format.</i>
------------	---

Description

This function is a wrapper around the `spatstat.geom::ppp()` function and it is used to transform STATS19 data into a ppp format.

Usage

```
format_ppp(data, window = NULL, ...)
```

Arguments

data	A STATS19 dataframe to be converted into ppp format.
window	A windows of observation, an object of class <code>owin()</code> . If <code>window = NULL</code> (i.e. the default) then the function creates an approximate bounding box covering the whole UK. It can also be used to filter only the events occurring in a specific region of UK (see the examples of get_stats19).
...	Additional parameters that should be passed to <code>spatstat.geom::ppp()</code> function. Read the help page of that function for a detailed description of the available parameters.

Value

A ppp object.

See Also

[format_sf](#) for an analogous function used to convert data into sf format and `spatstat.geom::ppp()` for the original function.

Examples

```
if (requireNamespace("spatstat.geom", quietly = TRUE)) {
  x_ppp = format_ppp(accidents_sample)
  x_ppp
}
```

format_sf	<i>Format convert STATS19 data into spatial (sf) object</i>
-----------	---

Description

Format convert STATS19 data into spatial (sf) object

Usage

```
format_sf(x, lonlat = FALSE)
```

Arguments

x	Data frame created with <code>read_collisions()</code>
lonlat	Should the results be returned in longitude/latitude? By default FALSE, meaning the British National Grid (EPSG code: 27700) is used.

Examples

```
x_sf = format_sf(accidents_sample)
sf::plot.sf(x_sf)
```

format_vehicles	<i>Format STATS19 vehicles data</i>
-----------------	-------------------------------------

Description

Format STATS19 vehicles data

Usage

```
format_vehicles(x)
```

Arguments

x	Data frame created with read_vehicles()
---	---

Details

This function formats raw STATS19 data

Examples

```
if(curl::has_internet()) {
  dl_stats19(year = 2022, type = "vehicle", ask = FALSE)
  x = read_vehicles(year = 2022, format = FALSE)
  vehicles = format_vehicles(x)
}
```

get_data_directory	<i>Get data download dir</i>
--------------------	------------------------------

Description

Get data download dir

Usage

```
get_data_directory()
```

Details

By default, stats19 downloads files to a temporary directory. You can change this behavior to save the files in a permanent directory. This is done by setting the STATS19_DOWNLOAD_DIRECTORY environment variable. A convenient way to do this is by adding STATS19_DOWNLOAD_DIRECTORY=/path/to/a/dir to your .Renvirom file, which can be opened by usethis::edit_r_envirom().

Examples

```
# get_data_directory()
```

`get_MOT`*Download vehicle data from the DVSA MOT API using VRM.*

Description

Download vehicle data from the DVSA MOT API using VRM.

Usage

```
get_MOT(vrm, apikey)
```

Arguments

<code>vrm</code>	A list of VRMs as character strings.
<code>apikey</code>	Your API key as a character string.

Details

This function takes a a character vector of vehicle registrations (VRMs) and returns vehicle data from MOT records. It returns a data frame of those VRMs which were successfully used with the DVSA MOT API.

Information on the DVSA MOT API is available here: <https://dvsa.github.io/mot-history-api-documentation/>

The DVSA MOT API requires a registration. The function therefore requires the API key provided by the DVSA. Be aware that the API has usage limits. The function will therefore limit lists with more than 150,000 VRMs.

Examples

```
vrm = c("1RAC", "P1RAC")
apikey = Sys.getenv("MOTKEY")
if(nchar(apikey) > 0) {
  get_MOT(vrm = vrm, apikey = apikey)
}
```

`get_stats19`*Download, read and format STATS19 data in one function.*

Description

Download, read and format STATS19 data in one function.

Usage

```
get_stats19(
  year = NULL,
  type = "collision",
  data_dir = get_data_directory(),
  file_name = NULL,
  format = TRUE,
  ask = FALSE,
  silent = FALSE,
  output_format = "tibble",
  ...
)
```

Arguments

year	A year matching file names on the STATS19 data release page e.g. 2020
type	One of 'collision', 'casualty', 'Vehicle'; defaults to 'collision'. This text string is used to match the file names released by the DfT.
data_dir	Parent directory for all downloaded files. See get_data_directory() for details.
file_name	The file name (DfT named) to download.
format	Switch to return raw read from file, default is TRUE.
ask	Should you be asked whether or not to download the files? TRUE by default.
silent	Boolean. If FALSE (default value), display useful progress messages on the screen.
output_format	A string that specifies the desired output format. The default value is "tibble". Other possible values are "data.frame", "sf" and "ppp", that, respectively, returns objects of class data.frame , sf::sf and spatstat.geom::ppp . Any other string is ignored and a tibble output is returned. See details and examples.
...	Other arguments be passed to format_sf() or format_ppp() functions. Read and run the examples.

Details

This function gets STATS19 data. Behind the scenes it uses `dl_stats19()` and `read_*` functions, returning a tibble (default), `data.frame`, `sf` or `ppp` object, depending on the `output_format` parameter.

By default, stats19 downloads files to a temporary directory. You can change this behavior to save the files in a permanent directory. This is done by setting the `STATS19_DOWNLOAD_DIRECTORY` environment variable. A convenient way to do this is by adding `STATS19_DOWNLOAD_DIRECTORY=/path/to/a/dir` to your `.Renv` file, which can be opened with `usethis::edit_r_environ()`.

The function returns data for a specific year (e.g. `year = 2022`)

Note: for years before 2016 the function may return data from more years than are requested due to the nature of the files hosted at [data.gov.uk](#).

As this function uses `dl_stats19` function, it can download many MB of data, so ensure you have a sufficient disk space.

If `output_format = "data.frame"` or `output_format = "sf"` or `output_format = "ppp"` then the output data is transformed into a `data.frame`, `sf` or `ppp` object using the `as.data.frame()` or `format_sf()` or `format_ppp()` functions, as shown in the examples.

See Also

`dl_stats19()`
`read_collisions()`

Examples

```
if(curl::has_internet()) {
  col = get_stats19(year = 2022, type = "collision")
  cas = get_stats19(year = 2022, type = "casualty")
  veh = get_stats19(year = 2022, type = "vehicle")
  class(col)
  # data.frame output
  x = get_stats19(2022, silent = TRUE, output_format = "data.frame")
  class(x)

  # # Get 5-years worth of data (commented-out due to large response size):
  # col_5 = get_stats19(year = 5, type = "collision")
  # cas_5 = get_stats19(year = 5, type = "casualty")
  # veh_5 = get_stats19(year = 5, type = "vehicle")

  # Run tests only if endpoint is alive:
  if(nrow(x) > 0) {

    # sf output
    x_sf = get_stats19(2022, silent = TRUE, output_format = "sf")

    # sf output with lonlat coordinates
    x_sf = get_stats19(2022, silent = TRUE, output_format = "sf", lonlat = TRUE)
    sf::st_crs(x_sf)

    if (requireNamespace("spatstat.geom", quietly = TRUE)) {
      # ppp output
      x_ppp = get_stats19(2022, silent = TRUE, output_format = "ppp")

      # We can use the window parameter of format_ppp function to filter only the
      # events occurred in a specific area. For example we can create a new bbox
      # of 5km around the city center of Leeds

      leeds_window = spatstat.geom::owin(
        xrange = c(425046.1, 435046.1),
        yrange = c(428577.2, 438577.2)
      )

      leeds_ppp = get_stats19(2022, silent = TRUE, output_format = "ppp", window = leeds_window)
```

```

spatstat.geom::plot.ppp(leeds_ppp, use.marks = FALSE, clipwin = leeds_window)

# or even more fancy examples where we subset all the events occurred in a
# pre-defined polygon area

# The following example requires osmdata package
# greater_london_sf_polygon = osmdata::getbb(
#   "Greater London, UK",
#   format_out = "sf_polygon"
# )
# spatstat works only with planar coordinates
# greater_london_sf_polygon = sf::st_transform(greater_london_sf_polygon, 27700)
# then we extract the coordinates and create the window object.
# greater_london_polygon = sf::st_coordinates(greater_london_sf_polygon)[, c(1, 2)]
# greater_london_window = spatstat.geom::owin(poly = greater_london_polygon)

# greater_london_ppp = get_stats19(2022, output_format = "ppp", window = greater_london_window)
# spatstat.geom::plot.ppp(greater_london_ppp, use.marks = FALSE, clipwin = greater_london_window)
}
}
}

```

get_stats19_adjustments

Download and read-in severity adjustment factors

Description

See the DfT's documentation on adjustment factors [Annex: Update to severity adjustments methodology](#).

Usage

```

get_stats19_adjustments(
  data_dir = get_data_directory(),
  u = paste0("https://data.dft.gov.uk/road-accidents-safety-data/",
    "dft-road-casualty-statistics-casualty-adjustment-lookup_",
    "2004-latest-published-year.csv")
)

```

Arguments

data_dir	Where sets of downloaded data would be found.
u	The URL of the zip file with adjustments to download

Details

See [Estimating and adjusting for changes in the method of severity reporting for road accidents and casualty data: final report](#) for details.

Examples

```
## Not run:
if(curl::has_internet()) {
  adjustment = get_stats19_adjustments()
}

## End(Not run)
```

get_ULEZ

Download DVLA-based vehicle data from the TfL API using VRM.

Description

Download DVLA-based vehicle data from the TfL API using VRM.

Usage

```
get_ULEZ(vrm)
```

Arguments

vrm A list of VRMs as character strings.

Details

This function takes a character vector of vehicle registrations (VRMs) and returns DVLA-based vehicle data from TfL's API, included ULEZ eligibility. It returns a data frame of those VRMs which were successfully used with the TfL API. Vehicles are either compliant, non-compliant or exempt. ULEZ-exempt vehicles will not have all vehicle details returned - they will simply be marked "exempt".

Be aware that the API has usage limits. The function will therefore limit API calls to below 50 per minute - this is the maximum rate before an API key is required.

Examples

```
if(curl::has_internet()) {
  vrm = c("1RAC", "P1RAC")
  get_ULEZ(vrm = vrm)
}
```

get_url	<i>Convert file names to urls</i>
---------	-----------------------------------

Description

Convert file names to urls

Usage

```
get_url(
    file_name = "",
    domain = "https://data.dft.gov.uk",
    directory = "road-accidents-safety-data"
)
```

Arguments

file_name	Optional file name to add to the url returned (empty by default)
domain	The domain from where the data will be downloaded
directory	The subdirectory of the url

Details

This function returns urls that allow data to be downloaded from the pages:

<https://www.gov.uk/government/collections/road-accidents-and-safety-statistics>

Last updated: October 2020. Files available from the s3 url in the default domain argument.

Examples

```
# get_url(find_file_name(1985))
```

locate_files	<i>Locate a file on disk</i>
--------------	------------------------------

Description

Helper function to locate files. Given below params, the function returns 0 or more files found at location/names given.

Usage

```
locate_files(
    data_dir = get_data_directory(),
    type = NULL,
    years = NULL,
    quiet = FALSE
)
```

Arguments

data_dir	Super directory where dataset(s) were first downloaded to.
type	One of 'Collision', 'Casualties', 'Vehicles'; defaults to 'Collision', ignores case.
years	Years for which data are to be found
quiet	Print out messages (files found)

Value

Character string representing the full path of a single file found, list of directories where data from the Department for Transport (stats19::filenames) have been downloaded, or NULL if no files were found.

locate_one_file	<i>Pin down a file on disk from four parameters.</i>
-----------------	--

Description

Pin down a file on disk from four parameters.

Usage

```
locate_one_file(
  filename = NULL,
  data_dir = get_data_directory(),
  year = NULL,
  type = NULL
)
```

Arguments

filename	Character string of the filename of the .csv to read, if this is given, type and years determine whether there is a target to read, otherwise disk scan would be needed.
data_dir	Where sets of downloaded data would be found.
year	Single year for which file is to be found.
type	One of: 'Collision', 'Casualties', 'Vehicles'; ignores case.

Value

One of: path for one file, a message More than one file found or error if none found.

Examples

```
locate_one_file()
locate_one_file(filename = "Cas.csv")
```

phrase	<i>Generate a phrase for data download purposes</i>
--------	---

Description

Generate a phrase for data download purposes

Usage

```
phrase()
```

Examples

```
stats19:::phrase()
```

police_boundaries	<i>Police force boundaries in England (2016)</i>
-------------------	--

Description

This dataset represents the 43 police forces in England and Wales. These are described on the [Wikipedia page](#). on UK police forces.

Format

An sf data frame

Details

The geographic boundary data were taken from the UK government's official geographic data portal. See <http://geoportal.statistics.gov.uk/>

Note

These were generated using the script in the data-raw directory (misc.Rmd file) in the package's GitHub repo: github.com/ITSLeeds/stats19.

Examples

```
nrow(police_boundaries)
police_boundaries[police_boundaries$pfa16nm == "West Yorkshire", ]
sf::plot.sf(police_boundaries)
```

read_casualties	<i>Read in STATS19 road safety data from .csv files downloaded.</i>
-----------------	---

Description

Read in STATS19 road safety data from .csv files downloaded.

Usage

```
read_casualties(  
  year = NULL,  
  filename = "",  
  data_dir = get_data_directory(),  
  format = TRUE  
)
```

Arguments

year	Single year for which data are to be read
filename	Character string of the filename of the .csv to read, if this is given, type and years determine whether there is a target to read, otherwise disk scan would be needed.
data_dir	Where sets of downloaded data would be found.
format	Switch to return raw read from file, default is TRUE.

Details

The function returns a data frame, in which each record is a reported casualty in the STATS19 dataset.

Examples

```
if(curl::has_internet()) {  
  dl_stats19(year = 2022, type = "casualty")  
  casualties = read_casualties(year = 2022)  
}
```

read_collisions	<i>Read in STATS19 road safety data from .csv files downloaded.</i>
-----------------	---

Description

Read in STATS19 road safety data from .csv files downloaded.

Usage

```
read_collisions(  
  year = NULL,  
  filename = "",  
  data_dir = get_data_directory(),  
  format = TRUE,  
  silent = FALSE  
)
```

Arguments

year	Single year for which data are to be read
filename	Character string of the filename of the .csv to read, if this is given, type and years determine whether there is a target to read, otherwise disk scan would be needed.
data_dir	Where sets of downloaded data would be found.
format	Switch to return raw read from file, default is TRUE.
silent	Boolean. If FALSE (default value), display useful progress messages on the screen.

Details

This is a wrapper function to access and load stats 19 data in a user-friendly way. The function returns a data frame, in which each record is a reported incident in the STATS19 data.

Examples

```
if(curl::has_internet()) {  
  dl_stats19(year = 2024, type = "collision")  
  ac = read_collisions(year = 2024)  
  
  dl_stats19(year = 2024, type = "collision")  
  ac_2019 = read_collisions(year = 2024)  
}
```

read_vehicles	<i>Read in stats19 road safety data from .csv files downloaded.</i>
---------------	---

Description

Read in stats19 road safety data from .csv files downloaded.

Usage

```
read_vehicles(  
  year = NULL,  
  filename = "",  
  data_dir = get_data_directory(),  
  format = TRUE  
)
```

Arguments

year	Single year for which data are to be read
filename	Character string of the filename of the .csv to read, if this is given, type and years determine whether there is a target to read, otherwise disk scan would be needed.
data_dir	Where sets of downloaded data would be found.
format	Switch to return raw read from file, default is TRUE.

Details

The function returns a data frame, in which each record is a reported vehicle in the STATS19 dataset for the data_dir and filename provided.

Examples

```
if(curl::has_internet()) {  
  dl_stats19(year = 2024, type = "vehicle")  
  ve = read_vehicles(year = 2024)  
}
```

schema_original	<i>Schema for stats19 data (UKDS)</i>
-----------------	---------------------------------------

Description

Schema for stats19 data (UKDS)

Format

A data frame

select_file	<i>Interactively select from options</i>
-------------	--

Description

Interactively select from options

Usage

```
select_file(fnames)
```

Arguments

fnames	File names to select from
--------	---------------------------

Examples

```
# fnames = c("f1", "f2")
# stats19::select_file(fnames)
```

set_data_directory	<i>Set data download dir</i>
--------------------	------------------------------

Description

Handy function to manage stats19 package underlying environment variable. If run interactively it makes sure user does not change directory by mistake.

Usage

```
set_data_directory(data_path)
```

Arguments

data_path valid existing path to save downloaded files in.

Examples

```
# set_data_directory("MY_PATH")
```

stats19_schema	<i>Stats19 schema and variables</i>
----------------	-------------------------------------

Description

stats19_schema and stats19_variables contain metadata on **stats19** data. stats19_schema is a look-up table matching codes provided in the raw stats19 dataset with character strings.

Note

The schema data can be (re-)generated using the script in the data-raw directory.

vehicles_sample	<i>Sample of stats19 data (2022 vehicles)</i>
-----------------	---

Description

Sample of stats19 data (2022 vehicles)

Format

A data frame

Note

These were generated using the script in the data-raw directory (misc.Rmd file).

Examples

```
nrow(vehicles_sample_raw)
vehicles_sample_raw
```

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