Package 'farsfuncs'

March 22, 2017

Title Summarises and visualises Fars data

Version 0.0.0.9000

Description Summarises and visualises Fars data.

Depends R (>= 3.3.2)

License What license is it under?

Encoding UTF-8

LazyData true

RoxygenNote 6.0.1

Suggests knitr,
rmarkdown

VignetteBuilder knitr

Imports dplyr, readr, maps, graphics, tidyr

R topics documented:

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fars_map_state   *Generates a map displaying accidents for a given state and year*

Description

This is a function that generates a map (using the maps package) that displays the location of accidents (using the graphics package) for a given state and year.

Usage

```
fars_map_state(state.num, year)
```

Arguments

`state.num`	integer
`year`	integer

Details

Will generate error if an invalid state number is input.

Value

This function returns a graphical object.

Examples

```
fars_map_state()
fars_map_state(100,2014)
fars_map_state(1,2014)
```

`fars_read`	*Read fars data*

Description

This is a simple function that reads a csv data file into R.

Usage

```
fars_read(filename)
```

Arguments

`filename`	string

Details

If the file does not exist it will generate an error message.

Value

This function returns a table data frame.

Examples

```
fars_read()
fars_read("accident_2013.csz.bz2")
```

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fars_read_years *Generates a table of months and years from fars data files*

Description

Function to generate a table of months available for a list of years.

Usage

```
fars_read_years(years)
```

Arguments

years   integer

Details

Will produce errors if data file for a particular year is not available.

Value

A list of Months and Years.

Examples

```
fars_read_years()
fars_read_years(2017)
fars_read_years(c(2013,2014,2015))
```

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fars_summarize_years *Generates a table showing number of accidents by month and year*

Description

Function to generate a table showing numbers of accidents for a list of years from fars data.

Usage

```
fars_summarize_years(years)
```

Arguments

years   integer

Value

A table showing total number of accident by month and year.

Examples

```
fars_summarize_years()
fars_summarize_years(2017)
fars_summarize_years(c(2013,2014,2015))
```

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make_filename   *Generates a fars file name for a given year*

Description

Simple function to generate a character string that is in the standard form for a fars data file.

Usage

```
make_filename(year)
```

Value

String that represents a fars file name for a given year.

Examples

```
make_filename(2017)
```

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