

# Package ‘farsfuncs’

March 22, 2017

**Title** What the Package Does (one line, title case)

**Version** 0.0.0.9000

**Description** What the package does (one paragraph).

**Depends** R (>= 3.3.2)

**License** What license is it under?

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 6.0.1

## R topics documented:

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fars_map_state	<i>Generates a map displaying accidents for a given state and year</i>
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## 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)
```

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fars_read	<i>Read fars data</i>
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**Description**

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

**Usage**

```
fars_read(filename)
```

**Arguments**

filename	string
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**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	<i>Generates a table of months and years from fars data files</i>
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**Description**

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

**Usage**

```
fars_read_years(years)
```

**Arguments**

years	integer
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**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	<i>Generates a table showing number of accidents by month and year</i>
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**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
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**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	<i>Generates a fars file name for a given year</i>
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**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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