# Package 'assignmentr'

November 16, 2019

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# Description

fars\_map\_state

Creates a geographical plot showing the accidents for a given year in a given state. Each accident is plotted as a single dot.

a given state. Each accident is plotted as a single dot.

Creates a geographical plot showing the accidents for a given year in

# Usage

fars\_map\_state(state.num, year)

Title What the Package Does (One Line, Title Case)

**Version** 0.0.0.9000

#### **Arguments**

state.num The state number which you would like displayed.
year The year that you would like in the filename.

fars\_read

#### Value

Displays a plot (no object returned).

#### Note

If the state.num argument doesn't correspond to a state within the specified data frame's STATE column, and error will be thrown.

If there are no accidents to plot for the specified state.num/year combination a message will display saying so.

# **Examples**

```
fars_map_state(42, 2015)
# plot of state 42 pops up with accidents plotted as dots
```

fars\_read

Read a CSV file into a tibble (tidyverse dataframe)

#### **Description**

This function reads a CSV file into R as a tibble.

### Usage

```
fars_read(filename)
```

#### **Arguments**

filename

The aboslute or relative path to the filename to read into R (should be a CSV file).

#### Value

The CSV data in tibble (tidyverse version of data frames) format.

### Note

If the file doesn't exist, a message will be displayed saying so.

# **Examples**

```
df <- fars_read("~/data/jason_bournes_data.csv")
df <- fars_read("C:\\Documents\\jack_bauers_data.csv")</pre>
```

fars\_read\_years 3

fars_read_years	Collects the MONTH and year associated with a fatal car incident for
	each year provided.

#### **Description**

Collects the MONTH and year associated with a fatal car incident for each year provided.

#### Usage

```
fars_read_years(years)
```

# Arguments

years

A vector of years which have an associated file in the current working directory.

#### Value

A list of data frames, each with two columns; MONTH and year. Each row in a data frame represent a fatal car accident in that month and year.

#### Note

If one of the years specified doesn't have an associated file, and error will be thrown.

# **Examples**

```
years <- fars_read_years(c(2013, 2014, 2015))</pre>
print(class(years))
[1] "list"
print(years)
[[1]]
# A tibble: 30,202 x 2
  MONTH year
   <dbl> <dbl>
 1
      1 2013
      1 2013
 2
      1 2013
 3
      1 2013
 4
 5
      1 2013
 6
      1 2013
 7
      1 2013
 8
      1 2013
9
      1 2013
10
      1 2013
# . . . with 30,192 more rows
[[2]]
# A tibble: 30,056 x 2
  MONTH year
   <dbl> <dbl>
      1 2014
      1 2014
```

fars\_summarize\_years

```
3
      1 2014
      1
         2014
5
        2014
      1
6
      1 2014
7
      1 2014
8
      1 2014
9
      1 2014
10
     1 2014
# . . . with 30,046 more rows
# A tibble: 32,166 x 2
  MONTH year
  <dbl> <dbl>
      1 2015
2
      1 2015
3
      1 2015
4
      1 2015
      1 2015
5
6
      1 2015
7
      1 2015
8
      1 2015
9
      1
        2015
10
      1 2015
# . . . with 32,156 more rows
```

fars\_summarize\_years Creates a table summarizing the count of fatal car incidents in a given month and year combination.

#### **Description**

Creates a table summarizing the count of fatal car incidents in a given month and year combination.

#### Usage

```
fars_summarize_years(years)
```

# Arguments

years

a vector of years for which the number of fatal car incidents should be displayed, grouped by Month.

#### Value

a data frame.

#### Note

If one of the years specified doesn't have an associated file, and error will be thrown.

make\_filename 5

#### **Examples**

```
summary_df \leftarrow fars_summarize_years(c(2013, 2014, 2015))
# A tibble: 12 x 4
  MONTH `2013` `2014` `2015`
  <dbl> <int> <int> <int>
         2230
               2168
                      2368
      2
         1952
                1893
                      1968
 3
      3
         2356
                2245
                      2385
 4
      4
         2300
               2308
                      2430
 5
      5
         2532
                2596
                      2847
6
      6
         2692
                2583
                      2765
7
     7
         2660
                2696
                      2998
8
     8
         2899
                2800
                      3016
9
     9 2741
                2618
                      2865
10
    10 2768
                2831
                      3019
11
     11 2615 2714
                     2724
12
     12 2457
                2604
                      2781
```

make\_filename

Creates a descriptive filename based on the input year.

# Description

Creates a descriptive filename based on the input year.

# Usage

```
make_filename(year)
```

# **Arguments**

year

The year that you would like in the filename.

### Value

A character object that represents the filename for car fatality data.

#### **Examples**

```
filename_2018 <- make_filename(2018)
print(filename_2018)
[1] "accident_2018.csv.bz2"</pre>
```

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