# Package 'courserafars'

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# Description

This package is the final assignment of the course.

# Author(s)

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fars\_map\_state

Plot state accidents

#### **Description**

This function plots the accidents that occured within the selected years in the selected states.

# Usage

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

#### **Arguments**

state.num A vector indicating the number of the states to plot.

year A vector indicating the years of the accidents to plot.

#### Value

This function returns a dataframe. The first column indicates the month, and each subsequent column shows the number of observations in that month for a specific year.

## **Examples**

```
## Not run:
fars_map_state(1, 2014)
fars_map_state(5:10, 2013:2015)
## End(Not run)
```

fars\_read

Read filename

# Description

This function reads a csv file.

## Usage

```
fars_read(filename)
```

# **Arguments**

filename

A character string giving the name of the file to read.

#### Value

This function returns a dataframe with the data contained in the specified file.

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#### **Examples**

```
## Not run:
fars_read("accident_2013.csv.bz2")
## End(Not run)
```

fars\_read\_years

Months in data

## Description

This function returns the month of each observation for the selected years.

## Usage

```
fars_read_years(years)
```

## Arguments

years

A vector containing the years to read.

#### Value

This function returns a list, in which each element contains the month for each observation of an specific year.

# **Examples**

```
## Not run:
fars_read_years(2013:2015)
## End(Not run)
```

fars\_summarize\_years

Summarize monthly observations

# Description

This function summarizes the number of observations for each month of the selected years.

## Usage

```
fars_summarize_years(years)
```

#### **Arguments**

years

A vector containing the years to read.

make\_filename

#### Value

This function returns a dataframe. The first column indicates the month, and each subsequent column shows the number of observations in that month for a specific year.

# **Examples**

```
## Not run:
fars_summarize_years(2013:2015)
## End(Not run)
```

make\_filename

Make filename

## Description

This function returns the name of a filename.

#### Usage

```
make_filename(year)
```

## Arguments

year

Year of the data that the file will contain.

#### Value

This function returns a string with the name of the file.

## **Examples**

```
## Not run:
make_filename(2017)
## End(Not run)
```

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