

# Readme

*A. Paul*

*August 2017*

## Title

Package fars - Analyse some data from US National Highway Traffic Safety Administration's Fatality Analysis Reporting System (NHTSF)

## Table of Contents

- Description
- Prerequisites
- Install
- Usage
- Contribute
- License

## Description

The "**fars**" package is used to evaluate the reported accidents in the United States of America.

The following functions of the "fars" package are supported:

- Reading a file using the function `fars_read ()`
- Provision of a dataframe using `fars_summarize_years ()`
- Creation of a plot using `fars_map_state ()`

There are further information in the vignette of the package fars and in the man.

More information and the data files can be found on the website of the NHTSF: [https://www.nhtsa.gov/Data/Fatality-Analysis-Reporting-System-\(FARS\)](https://www.nhtsa.gov/Data/Fatality-Analysis-Reporting-System-(FARS)).

## Prerequisites

1. The following packages are used:

- `library(fars)`
- `library(readr)`
- `library(dplyr)`
- `library(magrittr)`
- `library(tidyr)`
- `library(bindrcpp)`
- `library(maps)`
- `library(graphics)`

2. Download csv files from Website of NHTSF:

The prerequisite for performing the evaluations is that the csv files ("accident\_YYYY.csv.bz2") are downloaded with the accident data and are located in the current directory.

## Install

Any R user can install the package with just two lines of code: `install.packages("devtools")`  
`devtools::install_github("ap-wi/package_fars")`

## Usage

There are three functions in the package fars supported:

- \* Reading a file using `fars_read(filename)`
- \* Provision of a dataframe using `fars_summarize_years(years)`
- \* Creation of a plot using `fars_map_state(state.num, year)`

## Contribute

Standard Readme follows the Contributor Covenant Code of Conduct.

## License

CC0 by cousera