

Readme

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Title

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

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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 data frame 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.

Website: [https://www.nhtsa.gov/Data/Fatality-Analysis-Reporting-System-\(FARS\)](https://www.nhtsa.gov/Data/Fatality-Analysis-Reporting-System-(FARS))

Install

Any R user can install the package with just three lines of code:

```
* install.packages("devtools")
* devtools::install_github("ap-wi/package_fars")
* library("fars")
```

Usage

There are three functions in the package fars supported:

```
* Reading a file using the function `fars_read(filename)`
* Provision of a data frame using `fars_summarize_years(years)`
* Creation of a plot using `fars_map_state(state.num, year)`
```

Contribute

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