

# Package ‘testDriveR’

February 2, 2025

**Type** Package

**Title** Teaching Data for Statistics and Data Science

**Version** 0.5.3

**Description** Provides data sets for teaching statistics and data science courses. It includes a sample of data from John Edmund Kerrich's famous coinflip experiment. These are data that I used for statistics. The package also contains an R Markdown template with the required formatting for assignments in my former courses.

**License** GPL-3

**URL** <https://chris-prener.github.io/testDriveR/>,  
<https://github.com/chris-prener/testDriveR>

**BugReports** <https://github.com/chris-prener/testDriveR/issues>

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.3.2

**Suggests** ggplot2, knitr, rmarkdown, testthat

**NeedsCompilation** no

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**Repository** CRAN

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auto17	<i>Model Year 2017 Vehicles</i>
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## Description

A data set containing model year 2017 vehicles for sale in the United States.

## Usage

```
data(auto17)
```

## Format

A data frame with 1216 rows and 21 variables:

**id** DOT vehicle ID number  
**mfr** vehicle manufacturer  
**mfrDivision** vehicle brand  
**carLine** vehicle name  
**carClass** vehicle type, numeric  
**carClassStr** vehicle type, string  
**cityFE** fuel economy, city  
**hwyFE** fuel economy, highway  
**combFE** fuel economy, combined  
**guzzlerStr** poor fuel economy  
**fuelStr** fuel, abbrev.  
**fuelStr2** fuel, full  
**fuelCost** estimated fuel cost  
**displ** engine displacement  
**transStr** transmission, full  
**transStr2** transmission, abbrev.  
**gears** number of gears  
**cyl** number of cylinders  
**airAsp** air aspiration method  
**driveStr** vehicle drive type, abbrev.  
**driveStr2** vehicle drive type, full

**Source**

<https://www.fueleconomy.gov/feg/download.shtml>

**Examples**

```
str(auto17)
head(auto17)
```

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childMortality	<i>UNICEF Childhood Mortality Data</i>
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**Description**

A data set containing time series data by country for estimated under-5, infant, and neonatal mortality rates.

**Usage**

```
data(childMortality)
```

**Format**

A data frame with 28982 rows and 6 variables:

**countryISO** two-letter country code

**countryName** full name of country

**continent** name of continent

**category** type of mortality rate - infant\_MR, child\_MR, or under5\_MR

**year** year of estimate

**estimate** estimated mortality rate

**Source**

<https://childmortality.org>

**Examples**

```
str(childMortality)
```

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gss14

2014 General Social Survey

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### Description

A data set containing data on work, salary, and education from the 2014 General Social Survey. Missing data are explicitly identified with NAs and all data are represented as factors when appropriate.

### Usage

```
data(gss14)
```

### Format

A data frame with 2538 rows and 19 variables:

**YEAR** GSS year for this respondent

**INCOME06** Total family income (2006 version)

**INCOM16** Rs family income when 16 yrs old

**REG16** Region of residence, age 16

**RACE** Race of respondent

**SEX** Respondents sex

**SPDEG** Spouses highest degree

**MADEG** Mothers highest degree

**PADEG** Fathers highest degree

**DEGREE** Rs highest degree

**CHILDS** Number of children

**SPWRKSLF** Spouse self-emp. or works for somebody

**SPHRS1** Number of hrs spouse worked last week

**MARITAL** Marital status

**WRKSLF** R self-emp or works for somebody

**HRS1** Number of hours worked last week

**WRKSTAT** Labor force status

**ID\_** Respondent id number

**BALLOT** Ballot used for interview

### Source

<https://gssdataexplorer.norc.org>

**Examples**

```
str(gss14)
head(gss14)
```

---

gss14\_simple

*2014 General Social Survey (Simplified)*

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**Description**

A data set containing data on work, salary, and education from the 2014 General Social Survey. Missing data are not explicitly identified with NAs and all data are represented numerically instead of as factors when appropriate.

**Usage**

```
data(gss14_simple)
```

**Format**

A data frame with 2538 rows and 19 variables:

**YEAR** GSS year for this respondent  
**INCOME06** Total family income (2006 version)  
**INCOM16** Rs family income when 16 yrs old  
**REG16** Region of residence, age 16  
**RACE** Race of respondent  
**SEX** Respondents sex  
**SPDEG** Spouses highest degree  
**MADEG** Mothers highest degree  
**PADEG** Fathers highest degree  
**DEGREE** Rs highest degree  
**CHILDS** Number of children  
**SPWRKSLF** Spouse self-emp. or works for somebody  
**SPHRS1** Number of hrs spouse worked last week  
**MARITAL** Marital status  
**WRKSLF** R self-emp or works for somebody  
**HRS1** Number of hours worked last week  
**WRKSTAT** Labor force status  
**ID\_** Respondent id number  
**BALLOT** Ballot used for interview

**Source**

<https://gssdataexplorer.norc.org>

**Examples**

```
str(gss14_simple)
head(gss14_simple)
```

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kerrich

*Kerrich Coin Toss Trial Outcomes*

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**Description**

A data set containing 2,000 trials of coin flips from statistician John Edmund Kerrich's 1940s experiments while imprisoned by the Nazis during World War Two.

**Usage**

```
data(kerrich)
```

**Format**

A data frame with 1216 rows and 21 variables:

**id** trial

**outcome** outcome of each trial; TRUE = heads, FALSE = tails

**average** cumulative mean of outcomes

**Source**

<https://stats.stackexchange.com/questions/76663/john-kerrich-coin-flip-data/77044#77044>

[https://books.google.com/books/about/An\\_experimental\\_introduction\\_to\\_the\\_theo.html?id=JBTvAAAAMAAJ&hl=en](https://books.google.com/books/about/An_experimental_introduction_to_the_theo.html?id=JBTvAAAAMAAJ&hl=en)

**References**

[https://en.wikipedia.org/wiki/John\\_Edmund\\_Kerrich](https://en.wikipedia.org/wiki/John_Edmund_Kerrich)

**Examples**

```
str(kerrich)

if (require("ggplot2")) {
  ggplot(data = kerrich) +
    geom_hline(mapping = aes(yintercept = .5, color = "p(heads)")) +
    geom_line(mapping = aes(x = id, y = average)) +
    ylim(0,1)
}
```

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