

# Package ‘xplorerr’

October 14, 2022

**Type** Package

**Title** Tools for Interactive Data Exploration

**Version** 0.1.2

**Description** Tools for interactive data exploration built using 'shiny'. Includes apps for descriptive statistics, visualizing probability distributions, inferential statistics, linear regression, logistic regression and RFM analysis.

**Depends** R(>= 3.2.4)

**Imports** Rcpp, shiny, utils

**Suggests** blorr, data.table, descriprr, DT, grid, haven, highcharter, jsonlite, kableExtra, magrittr, olsrr, plotly, rbokeh, readr, readxl, rfm, shinyBS, shinycssloaders, shinythemes, tools, vistributions

**URL** <https://github.com/rsquaredacademy/xplorerr>,  
<https://xplorerr.rsquaredacademy.com/>

**BugReports** <https://github.com/rsquaredacademy/xplorerr/issues>

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.1.1

**LinkingTo** Rcpp

**NeedsCompilation** yes

**Author** Aravind Hebbali [aut, cre] (<<https://orcid.org/0000-0001-9220-9669>>)

**Maintainer** Aravind Hebbali <hebbali.aravind@gmail.com>

**Repository** CRAN

**Date/Publication** 2021-05-21 04:50:02 UTC

**R topics documented:**

|                                   |   |
|-----------------------------------|---|
| app_descriptive . . . . .         | 2 |
| app_inference . . . . .           | 2 |
| app_linear_regression . . . . .   | 3 |
| app_logistic_regression . . . . . | 3 |
| app_rfm_analysis . . . . .        | 4 |
| app_vistributions . . . . .       | 4 |
| app_visualizer . . . . .          | 5 |
| exam . . . . .                    | 5 |
| hsb . . . . .                     | 6 |
| treatment . . . . .               | 6 |
| xplorerr . . . . .                | 7 |
| xpl_gvar . . . . .                | 7 |
| xpl_nsignC . . . . .              | 7 |

|              |          |
|--------------|----------|
| <b>Index</b> | <b>8</b> |
|--------------|----------|

---

|                 |                               |
|-----------------|-------------------------------|
| app_descriptive | <i>Descriptive Statistics</i> |
|-----------------|-------------------------------|

---

**Description**

Launches the descriptive statistics app.

**Usage**

```
app_descriptive()
```

**Examples**

```
## Not run:
app_descriptive()

## End(Not run)
```

---

|               |                               |
|---------------|-------------------------------|
| app_inference | <i>Inferential Statistics</i> |
|---------------|-------------------------------|

---

**Description**

Launches the inferential statistics app.

**Usage**

```
app_inference()
```

**Examples**

```
## Not run:  
app_inference()  
  
## End(Not run)
```

---

*app\_linear\_regression Linear Regression*

---

**Description**

Launches the linear regression app.

**Usage**

```
app_linear_regression()
```

**Examples**

```
## Not run:  
app_linear_regression()  
  
## End(Not run)
```

---

*app\_logistic\_regression  
Logistic Regression*

---

**Description**

Launches the logistic regression app.

**Usage**

```
app_logistic_regression()
```

**Examples**

```
## Not run:  
app_logistic_regression()  
  
## End(Not run)
```

app\_rfm\_analysis      *RFM Analysis*

---

**Description**

Launches the RFM analyssi app.

**Usage**

```
app_rfm_analysis()
```

**Examples**

```
## Not run:  
app_rfm_analysis()  
  
## End(Not run)
```

---

app\_vistributions      *Visualize distributions*

---

**Description**

Launches app for visualizing probability distributions.

**Usage**

```
app_vistributions()
```

**Examples**

```
## Not run:  
app_descriptive()  
  
## End(Not run)
```

---

|                |                      |
|----------------|----------------------|
| app_visualizer | <i>Visualization</i> |
|----------------|----------------------|

---

**Description**

Launches the visualizer app.

**Usage**

```
app_visualizer()
```

**Examples**

```
## Not run:  
app_visualizer()  
  
## End(Not run)
```

---

|      |  |
|------|--|
| exam | <i>Dummy data set for Cochran's Q test</i> |
|------|--|

---

**Description**

A dataset containing information about results of three exams.

**Usage**

```
data(exam)
```

**Format**

A data frame with 15 rows and 3 variables:

**exam1** result of exam1

**exam2** result of exam2

**exam3** result of exam3

**Source**

<https://www.spss-tutorials.com/spss-cochran-q-test/>

---

hsb

*High School and Beyond Data Set*

---

**Description**

A dataset containing demographic information and standardized test scores of high school students.

**Usage**

```
data(hsb)
```

**Format**

A data frame with 200 rows and 10 variables:

**id** id of the student

**female** gender of the student

**race** ethnic background of the student

**ses** socio-economic status of the student

**schtyp** school type

**prog** program type

**read** scores from test of reading

**write** scores from test of writing

**math** scores from test of math

**science** scores from test of science

**socst** scores from test of social studies

**Source**

<https://nces.ed.gov/surveys/hsb/>

---

treatment

*Dummy data set for 2 Sample Proportion test*

---

**Description**

A dataset containing information about two treatments

**Usage**

```
data(treatment)
```

**Format**

A data frame with 50 rows and 2 variables:

**treatment1** result of treatment type 1

**treatment2** result of treatment type 2

---

|          |                         |
|----------|-------------------------|
| xplorerr | xplorerr <i>package</i> |
|----------|-------------------------|

---

**Description**

R Shiny app for interactive statistical analysis

**Details**

See the README on [GitHub](#)

---

|          |                    |
|----------|--------------------|
| xpl_gvar | <i>Repeat data</i> |
|----------|--------------------|

---

**Description**

Repeat data

**Usage**

```
xpl_gvar(ln, ly)
```

**Arguments**

ln            A list

ly            A list

---

|            |                    |
|------------|--------------------|
| xpl_nsignC | <i>Return sign</i> |
|------------|--------------------|

---

**Description**

Return sign

**Usage**

```
xpl_nsignC(x)
```

**Arguments**

x            A numeric vector

# Index

## \* datasets

exam, 5

hsb, 6

treatment, 6

app\_descriptive, 2

app\_inference, 2

app\_linear\_regression, 3

app\_logistic\_regression, 3

app\_rfm\_analysis, 4

app\_vistributions, 4

app\_visualizer, 5

exam, 5

hsb, 6

treatment, 6

xpl\_gvar, 7

xpl\_nsignC, 7

xplorerr, 7