Package ‘dropR’

February 19, 2015

Title Analyze Drop Out of an Experiment or Survey

Description Drop out analysis for psychologists in a R based web application. Shiny is used to visualize and analyze drop outs tailored to the methods of online survey methodology. Concept and app presented at the SCIP Conference in Long Beach, California.

Version 0.1

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Depends R (>= 3.0.0)

Imports plyr, shiny

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LazyData true

NeedsCompilation no

Repository CRAN

Date/Publication 2015-01-02 06:52:56

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compute_shares_remain  Compute the Share of Remaining Participants

Description
Compute the share of remaining participant per question.

Usage
compute_shares_remain(df, drop_out_pos, number_of_questions)

Arguments
- df          a data.frame
- drop_out_pos drop out position
- number_of_questions
  integer number of questions

compute_xsq  Compute Chi^2 test for a list

Description
Compute chi^2 given a list of data.frames

Usage
compute_xsq(li, pos, participants, sel)

Arguments
- li          a list
- pos         integer position within the respective data.frame
- participants known integer
- sel         integer position in the result table
**dropout**

*Dropout in a random dataset*

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**Description**

A random dataset that mimics a survey or experiment with dropout.

**Usage**

dropout

**Format**

A data.frame with 1000 observations and 12 variables

- **qXX** question
- **group** experimental condition...

**Source**

A random dataset.

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**extract_drop_out_from_df**

*Extract Drop Out from a Data.Frame*

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**Description**

Find drop in Data.frame that contains multiple questions that had been asked sequentially.

**Usage**

extract_drop_out_from_df(df, q_pos)

**Arguments**

- **df** a data.frame
- **q_pos** columns that contain questions

**Examples**

data(dropout)
dropout$pos <- extract_drop_out_from_df(dropout, 2:10)
dropout$pos
find_drop_out Find the Position of Drop Out in a Vector

Description
Check consecutive NAs from backend of a vector.

Usage
find_drop_out(v, clnms)

Arguments
v a vector
clnms specify the parts that actually hold questions by character names.

get_odds Compute Odds From Probabilities

Description
Compute odds from probabilities. The function is vectorized and can handle a vector of probabilities.

Usage
get_odds(p)

Arguments
p vector of probabilities. May not be larger than 1 or smaller than zero.

Examples
get_odds(.8) # 4
lineChartOutput

**Description**

Create a HTML SVG Line Chart Output using NVD3.js. This function should be called from `ui.R` in a shiny web application.

**Usage**

```r
lineChartOutput(inputId, width = "100\%", height = "400px")
```

**Arguments**

- `inputId`: input identifier for the output function, i.e., name of the list element in shiny.
- `width`: defaults to 100%.
- `height`: defaults to 400px.

renderLineChart

**Description**

This function renders a line chart and should be called from `server.R` in a shiny application.

**Usage**

```r
renderLineChart(expr, env = parent.frame(), quoted = FALSE)
```

**Arguments**

- `expr`: an expression to rendered
- `env`: environment, defaults to `parent.frame()`.
- `quoted`: logical, defaults to `FALSE`. 
**Description**

Starts the interactive web application to use dropR in your web browser. Make sure to use Google Chrome or Firefox for best experience.

**Usage**

```r
startDropR()
```

**Examples**

```r
## Not run: startDropR()
```
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