Package 'boxly'

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Title Interactive Box Plot

Version 0.1.1

Description Interactive box plot using 'plotly' for clinical trial analysis.

License GPL (>= 3)

URL https://merck.github.io/boxly/, https://github.com/Merck/boxly

BugReports https://github.com/Merck/boxly/issues

Encoding UTF-8

LazyData true

Depends R (>= 4.1.0)

Imports DT, brew, rlang, crosstalk, ggplot2, htmlwidgets, htmltools, metalite, plotly, uuid

Suggests covr, knitr, rmarkdown, testthat (>= 3.0.0)

VignetteBuilder knitr

Config/testthat/edition 3

RoxygenNote 7.2.3

NeedsCompilation no

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Repository CRAN

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Contents

`boxly` *Create an interactive box plot*

Description

Create an interactive box plot

Usage

```
boxly(
  outdata,
  color = NULL,
  hover_summary_var = c("n", "min", "q1", "median", "mean", "q3", "max"),
  hover_outlier_label = c("Participant Id", "Parameter value"),
  x_label = "Visit",
  y_label = "Change",
  heading_select_list = "Lab parameter",
  heading_summary_table = "Number of Participants"
)
```

Arguments

`outdata`	An `outdata` object created from `prepare_ae_forestly()`.
`color`	Color for box plot.
`hover_summary_var`	A character vector of statistics to be displayed on hover label of box.
`hover_outlier_label`	A character vector of hover label for outlier.
`x_label`	x-axis label.
`y_label`	y-axis label.
`heading_select_list`	Select list menu label.
`heading_summary_table`	Summary table label.

Value

Interactive box plot.

Examples

```
# Only run this example in interactive R sessions
if (interactive()) {
  library(metalite)

  meta_boxly(
    boxly_adsl,
    boxly_adlb,
    population_term = "apat",
    observation_term = "wk12"
  ) |>
    prepare_boxly() |>
    boxly()
}
```

---

boxly_adeg *An example ADEG dataset*

Description

Definition of each variable can be found in https://github.com/phuse-org/phuse-scripts/tree/master/data/adam/cdisc

Usage

```
boxly_adeg
```

Format

A data frame with 32139 and 35 variables:

Source

https://github.com/phuse-org/phuse-scripts/tree/master/data/adam/cdisc

boxly_adlb *An example ADLB dataset*

Description

Definition of each variable can be found in https://github.com/phuse-org/phuse-scripts/tree/master/data/adam/cdisc

Usage

```
boxly_adlb
```

Format

A data frame with 24746 and 24 variables:

Source

https://github.com/phuse-org/phuse-scripts/tree/master/data/adam/cdisc

boxly_adsl *A Subject Level Demographic Dataset*

Description

A dataset containing the demographic information of a clinical trial following CDISC ADaM standard.

Usage

```
boxly_adsl
```

Format

A data frame with 254 rows and 51 variables.

Details

Definition of each variable can be found in https://github.com/phuse-org/phuse-scripts/tree/master/data/adam/cdisc

Source

https://github.com/phuse-org/phuse-scripts/tree/master/data/adam/cdisc

boxly_advs *An example ADVS dataset*

Description

Definition of each variable can be found in https://github.com/phuse-org/phuse-scripts/tree/master/data/adam/cdisc

Usage

```
boxly_advs
```

Format

A data frame with 32139 and 34 variables:

Source

https://github.com/phuse-org/phuse-scripts/tree/master/data/adam/cdisc

meta_boxly *Create an example metadata object*

Description

Create an example metadata object

Usage

```
meta_boxly(
  dataset_adsl,
  dataset_param,
  population_term,
  population_subset = SAFFL == "Y",
  observation_term,
  observation_subset = SAFFL == "Y",
  parameters = unique(dataset_param$PARAMCD)
)
```

Arguments

dataset_adsl	ADSL source dataset.
dataset_param	Observation level source dataset for boxplot.
population_term	A character value of population term name.
population_subset	An unquoted condition for selecting the populations from ADSL dataset.
observation_term	A character value of observation term name.
observation_subset	An unquoted condition for selecting the observations from dataset_param dataset.
parameters	A chracter vector of parameters defined in dataset_param$PARAMCD

Value

A metalite object.

Examples

```
meta_boxly(
  boxly_adsl,
  boxly_adlb,
  population_term = "apat",
  observation_term = "wk12"
)
```

---

prepare_boxly *Prepare data for interactive box plot*

Description

Prepare data for interactive box plot

Usage

```
prepare_boxly(meta, population = NULL, observation = NULL, analysis = NULL)
```

Arguments

meta	A metadata object created by metalite.
population	A character value of population term name. The term name is used as key to link information.
observation	A character value of observation term name. The term name is used as key to link information.
analysis	A character value of analysis term name. The term name is used as key to link information.

Value

Metadata list with plotting dataset.

Metadata list with plotting dataset

Examples

```
library(metalite)

meta <- meta_boxly(
  boxly_adsl,
  boxly_adlb,
  population_term = "apat",
  observation_term = "wk12"
)
prepare_boxly(meta)
```

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