Package 'safetyCharts'

October 14, 2022

Title Charts for Monitoring Clinical Trial Safety Version 0.3.0 Maintainer Jeremy Wildfire <jwildfire@gmail.com> Description Contains chart code for monitoring clinical trial safety. Charts can be used as standalone output, but are also designed for use with the 'safetyGraphics' package, which makes it easy to load data and customize the charts using an interactive web-based in terface created with Shiny. URL https://github.com/SafetyGraphics/safetyCharts BugReports https://github.com/SafetyGraphics/safetyCharts/issues License MIT + file LICENSE Encoding UTF-8 LazyData true RoxygenNote 7.1.2 Imports dplyr, DT, forcats, ggplot2, htmlwidgets, huxtable, jsonlite, pharmaRTF, plotly, purrr, RColorBrewer, rlang, shiny, stringr, Tendril, Tplyr Suggests testthat, shinytest, safetyData, safetyGraphics, yaml Depends R (>= 4.0) NeedsCompilation no Author Jeremy Wildfire [aut, cre] Repository CRAN Date/Publication 2022-03-22 20:00:02 UTC R topics documented: demogRTF_server demogRTF_table demogRTF_tible demogRTF_ui hepExplorer init_aeExplorer</jwildfire@gmail.com>	
Maintainer Jeremy Wildfire <jwildfire@gmail.com> Description Contains chart code for monitoring clinical trial safety. Charts can be used as standalone output, but are also designed for use with the 'safetyGraphics' package, which makes it easy to load data and customize the charts using an interactive web-based in terface created with Shiny. URL https://github.com/SafetyGraphics/safetyCharts BugReports https://github.com/SafetyGraphics/safetyCharts/issues License MIT + file LICENSE Encoding UTF-8 LazyData true RoxygenNote 7.1.2 Imports dplyr, DT, forcats, ggplot2, htmlwidgets, huxtable, jsonlite, pharmaRTF, plotly, purrr, RColorBrewer, rlang, shiny, stringr, Tendril, Tplyr Suggests testthat, shinytest, safetyData, safetyGraphics, yaml Depends R (>= 4.0) NeedsCompilation no Author Jeremy Wildfire [aut, cre] Repository CRAN Date/Publication 2022-03-22 20:00:02 UTC R topics documented: demogRTF_server demogRTF_table demogRTF_table demogRTF_tible demogRTF_tible</jwildfire@gmail.com>	Title Charts for Monitoring Clinical Trial Safety
Description Contains chart code for monitoring clinical trial safety. Charts can be used as standalone output, but are also designed for use with the 'safetyGraphics' package, which makes it easy to load data and customize the charts using an interactive web-based in terface created with Shiny. URL https://github.com/SafetyGraphics/safetyCharts BugReports https://github.com/SafetyGraphics/safetyCharts/issues License MIT + file LICENSE Encoding UTF-8 LazyData true RoxygenNote 7.1.2 Imports dplyr, DT, forcats, ggplot2, htmlwidgets, huxtable, jsonlite, pharmaRTF, plotly, purrr, RColorBrewer, rlang, shiny, stringr, Tendril, Tplyr Suggests testthat, shinytest, safetyData, safetyGraphics, yaml Depends R (>= 4.0) NeedsCompilation no Author Jeremy Wildfire [aut, cre] Repository CRAN Date/Publication 2022-03-22 20:00:02 UTC R topics documented: demogRTF_server demogRTF_server demogRTF_table demogRTF_table demogRTF_ui hepExplorer	Version 0.3.0
dalone output, but are also designed for use with the 'safetyGraphics' package, which makes it easy to load data and customize the charts using an interactive web-based in terface created with Shiny. URL https://github.com/SafetyGraphics/safetyCharts BugReports https://github.com/SafetyGraphics/safetyCharts/issues License MIT + file LICENSE Encoding UTF-8 LazyData true RoxygenNote 7.1.2 Imports dplyr, DT, forcats, ggplot2, htmlwidgets, huxtable, jsonlite, pharmaRTF, plotly, purrr, RColorBrewer, rlang, shiny, stringr, Tendril, Tplyr Suggests testthat, shinytest, safetyData, safetyGraphics, yaml Depends R (>= 4.0) NeedsCompilation no Author Jeremy Wildfire [aut, cre] Repository CRAN Date/Publication 2022-03-22 20:00:02 UTC R topics documented: demogRTF_server demogRTF_table demogRTF_table demogRTF_ui hepExplorer	Maintainer Jeremy Wildfire <jwildfire@gmail.com></jwildfire@gmail.com>
BugReports https://github.com/SafetyGraphics/safetyCharts/issues License MIT + file LICENSE Encoding UTF-8 LazyData true RoxygenNote 7.1.2 Imports dplyr, DT, forcats, ggplot2, htmlwidgets, huxtable, jsonlite, pharmaRTF, plotly, purrr, RColorBrewer, rlang, shiny, stringr, Tendril, Tplyr Suggests testthat, shinytest, safetyData, safetyGraphics, yaml Depends R (>= 4.0) NeedsCompilation no Author Jeremy Wildfire [aut, cre] Repository CRAN Date/Publication 2022-03-22 20:00:02 UTC R topics documented: demogRTF_server demogRTF_table demogRTF_ui hepExplorer	dalone output, but are also designed for use with the 'safetyGraphics' package, which makes it easy to load data and customize the charts using an interactive web-based in
License MIT + file LICENSE Encoding UTF-8 LazyData true RoxygenNote 7.1.2 Imports dplyr, DT, forcats, ggplot2, htmlwidgets, huxtable, jsonlite, pharmaRTF, plotly, purrr, RColorBrewer, rlang, shiny, stringr, Tendril, Tplyr Suggests testthat, shinytest, safetyData, safetyGraphics, yaml Depends R (>= 4.0) NeedsCompilation no Author Jeremy Wildfire [aut, cre] Repository CRAN Date/Publication 2022-03-22 20:00:02 UTC R topics documented: demogRTF_server demogRTF_table demogRTF_table demogRTF_ui hepExplorer	JRL https://github.com/SafetyGraphics/safetyCharts
Encoding UTF-8 LazyData true RoxygenNote 7.1.2 Imports dplyr, DT, forcats, ggplot2, htmlwidgets, huxtable, jsonlite, pharmaRTF, plotly, purrr, RColorBrewer, rlang, shiny, stringr, Tendril, Tplyr Suggests testthat, shinytest, safetyData, safetyGraphics, yaml Depends R (>= 4.0) NeedsCompilation no Author Jeremy Wildfire [aut, cre] Repository CRAN Date/Publication 2022-03-22 20:00:02 UTC R topics documented: demogRTF_server demogRTF_server demogRTF_table demogRTF_ui hepExplorer	<pre>SugReports https://github.com/SafetyGraphics/safetyCharts/issues</pre>
LazyData true RoxygenNote 7.1.2 Imports dplyr, DT, forcats, ggplot2, htmlwidgets, huxtable, jsonlite, pharmaRTF, plotly, purrr, RColorBrewer, rlang, shiny, stringr, Tendril, Tplyr Suggests testthat, shinytest, safetyData, safetyGraphics, yaml Depends R (>= 4.0) NeedsCompilation no Author Jeremy Wildfire [aut, cre] Repository CRAN Date/Publication 2022-03-22 20:00:02 UTC R topics documented: demogRTF_server demogRTF_table demogRTF_table demogRTF_ui hepExplorer	cicense MIT + file LICENSE
Imports dplyr, DT, forcats, ggplot2, htmlwidgets, huxtable, jsonlite, pharmaRTF, plotly, purrr, RColorBrewer, rlang, shiny, stringr, Tendril, Tplyr Suggests testthat, shinytest, safetyData, safetyGraphics, yaml Depends R (>= 4.0) NeedsCompilation no Author Jeremy Wildfire [aut, cre] Repository CRAN Date/Publication 2022-03-22 20:00:02 UTC R topics documented: demogRTF_server demogRTF_table demogRTF_tiable demogRTF_ui hepExplorer	Cncoding UTF-8
Imports dplyr, DT, forcats, ggplot2, htmlwidgets, huxtable, jsonlite, pharmaRTF, plotly, purrr, RColorBrewer, rlang, shiny, stringr, Tendril, Tplyr Suggests testthat, shinytest, safetyData, safetyGraphics, yaml Depends R (>= 4.0) NeedsCompilation no Author Jeremy Wildfire [aut, cre] Repository CRAN Date/Publication 2022-03-22 20:00:02 UTC R topics documented: demogRTF_server demogRTF_table demogRTF_ui hepExplorer	azyData true
pharmaRTF, plotly, purrr, RColorBrewer, rlang, shiny, stringr, Tendril, Tplyr Suggests testthat, shinytest, safetyData, safetyGraphics, yaml Depends R (>= 4.0) NeedsCompilation no Author Jeremy Wildfire [aut, cre] Repository CRAN Date/Publication 2022-03-22 20:00:02 UTC R topics documented: demogRTF_server demogRTF_table demogRTF_ui hepExplorer	RoxygenNote 7.1.2
Depends R (>= 4.0) NeedsCompilation no Author Jeremy Wildfire [aut, cre] Repository CRAN Date/Publication 2022-03-22 20:00:02 UTC R topics documented: demogRTF_server demogRTF_table demogRTF_ui hepExplorer.	pharmaRTF, plotly, purrr, RColorBrewer, rlang, shiny, stringr,
NeedsCompilation no Author Jeremy Wildfire [aut, cre] Repository CRAN Date/Publication 2022-03-22 20:00:02 UTC R topics documented: demogRTF_server demogRTF_table demogRTF_ui hepExplorer	uggests testthat, shinytest, safetyData, safetyGraphics, yaml
Author Jeremy Wildfire [aut, cre] Repository CRAN Date/Publication 2022-03-22 20:00:02 UTC R topics documented: demogRTF_server demogRTF_table demogRTF_ui hepExplorer.	Depends R (>= 4.0)
Repository CRAN Date/Publication 2022-03-22 20:00:02 UTC R topics documented: demogRTF_server demogRTF_table demogRTF_ui hepExplorer demogRTF_ui	NeedsCompilation no
Date/Publication 2022-03-22 20:00:02 UTC R topics documented: demogRTF_server demogRTF_table demogRTF_ui hepExplorer demogRTF_ui	author Jeremy Wildfire [aut, cre]
R topics documented: demogRTF_server demogRTF_table demogRTF_ui hepExplorer	Repository CRAN
demogRTF_server	Date/Publication 2022-03-22 20:00:02 UTC
demogRTF_table demogRTF_ui hepExplorer demogRTF_ui	R topics documented:
	demogRTF_table

2 demogRTF_server

Index		21
	tendril_chart	
	safety_results_over_time	
	safety_outlier_explorer	
	safetyOutlierExplorer_ui	
	safetyOutlierExplorer_server	16
	render_widget	
	QT_Outlier_Explorer	
	QT_OutlierExplorer_ui	
	QT_OutlierExplorer_server	
	meta_labs	
	meta_ecg	
	meta_dm	
	meta_aes	
	lab_distribution_ui	
	lab_distribution_server	
	init_safetyShiftPlot	
	init_safetyResultsOverTime	8
	init_safetyOutlierExplorer	- 1
	init_paneledOutlierExplorer	
	init ae limelines	- (

Demographics Table RTF - UI

Description

demogRTF_server

Demographics Table RTF - UI

Usage

demogRTF_server(input, output, session, params)

Arguments

input module input
output module output
session module session

params parameters object with data and settings options.

Value

returns shiny module Server function

demogRTF_table 3

demogRTF_table

create demographics RTF table

Description

create demographics RTF table

Usage

```
demogRTF_table(data, settings)
```

Arguments

data

demographics data frame with columns specified in settings object

settings

list with parameters specifying the column names for:

- sex (settings\$sex_col),
- race (settings\$race_col)
- age (settings\$age_Col)

Value

rtf doc object

Examples

```
settings <- list(treatment_col = "ARM", sex_col = "SEX", race_col = "RACE", age_col = "AGE")
demogRTF_table(safetyData::sdtm_dm, settings)</pre>
```

demogRTF_ui

Demographics Table RTF - UI

Description

Demographics Table RTF - UI

Usage

```
demogRTF_ui(id)
```

Arguments

id

module id

Value

returns shiny module UI

4 hepExplorer

hepExplorer

Make standalone hepExplorer html widget

Description

Convience mapping of render_widget for hepExplorer.

Usage

```
hepExplorer(df = safetyData::adam_adlbc, mapping = NULL, ...)
```

Arguments

df data frame containing lab data used to render for hepExplorer. Default is safe-tyData::adam_adlbc.

mapping named list with the current data mappings. See details for default mapping.

additional options to be added to mapping. Will overwrite mapping.

Details

The data and mapping should match the specs described in the hepExplorer javascript library. Items passed in ... are added to mapping, and then the list is converted to json via jsonlite::toJSON(mapping, auto_unbox=TRUE, null="null").

The default mapping shown below is designed to work with data in the CDISC ADaM format (like safetydata::adam_adlbc).

Parameters that are not included in the default mapping can be accessed via ...; Key options and defaults for safetyData::adam_adlbc shown below:

• filters: list of columns to be included as data filters (e.g. 'filters=c("SEX","AGEGR1")")

init_aeExplorer 5

• group_cols: list of columns used to define grouping and set point color (e.g. 'filters=c("SEX","AGEGR1")")

- x_options and y_options specify which labs can be used for x and y axis dropdowns. By default, all options are included on x-axis, but only Bilirubin is shown on y-axis. To allow an interactive y-axis, use y_options="all".
- baseline flag defining the baseline visit for each participant. baseline must be provided to enable the mDish view on the hep-explorer chart. Define as a list with value_col and values (e.g. baseline=list(value_col="ABLFL", values="Y"))
- title and warningText Strings used to define the header text shown above the filters.

For more options see the full specs in the javascript library.

Examples

```
## Not run:
# Render widget with defaults
hepExplorer()
# Add age group to default
hepExplorer(group_cols=c("SEX","AGEGR1"))
# Enable interactive y-axis
hepExplorer(y_options='all')
# Use custom mapping for SDTM data
hepExplorer(
   df=safetyData::sdtm_lb,
   measure_col = "LBTEST",
   measure_values = list(
        ALT = "Alanine Aminotransferase",
       AST = "Aspartate Aminotransferase",
        TB = "Bilirubin",
        ALP = "Alkaline Phosphatase"
   ),
    id_col = "USUBJID",
   value_col = "LBSTRESN",
   normal_col_low = "LBORNRLO",
   normal_col_high = "LBORNRHI",
   studyday_col = "LBDY",
   visit_col = "VISIT",
   visitn_col = "VISITNUM"
)
## End(Not run)
```

6 init_aeTimelines

Description

Initialize Settings for Adverse Event Explorer widget

Usage

```
init_aeExplorer(data, settings)
```

Arguments

data labs data structured as one record per person per visit per measurement. See

details for column requirements.

settings named list of settings

Value

returns list with data and settings

 $init_aeTimelines$

Initialize Settings for AE Timeline widget

Description

Initialize Settings for AE Timeline widget

Usage

```
init_aeTimelines(data, settings)
```

Arguments

data labs data structured as one record per person per visit per measurement. See

details for column requirements.

settings named list of settings

Value

returns list with data and settings

init_paneledOutlierExplorer

Initialize Settings for Paneled Outlier Explorer widget

Description

Initialize Settings for Paneled Outlier Explorer widget

Usage

init_paneledOutlierExplorer(data, settings)

Arguments

data labs data structured as one record per person per visit per measurement. See

details for column requirements.

settings named list of settings

Value

returns list with data and settings

init_safetyOutlierExplorer

Initialize Settings for Safety Outlier Explorer widget

Description

Initialize Settings for Safety Outlier Explorer widget

Usage

init_safetyOutlierExplorer(data, settings)

Arguments

data labs data structured as one record per person per visit per measurement. See

details for column requirements.

settings named list of settings

Value

returns list with data and settings

8 init_safetyShiftPlot

init_safetyResultsOverTime

Initialize Settings for Safety Results Over Time widget

Description

Initialize Settings for Safety Results Over Time widget

Usage

```
init_safetyResultsOverTime(data, settings)
```

Arguments

data labs data structured as one record per person per visit per measurement. See

details for column requirements.

settings named list of settings

Value

returns list with data and settings

init_safetyShiftPlot Initialize Settings for Safety Shift Plot widget

Description

Initialize Settings for Safety Shift Plot widget

Usage

```
init_safetyShiftPlot(data, settings)
```

Arguments

data labs data structured as one record per person per visit per measurement. See

details for column requirements.

settings named list of settings

Value

returns list with data and settings

lab_distribution_server

9

lab_distribution_server

lab distribution Module - Server

Description

A simple server for a shiny module looking at lab histograms. Intended primarily for technical demos.

Usage

```
lab_distribution_server(input, output, session, params)
```

Arguments

input module input output module output session module session

params parameters object with data and settings options.

Value

returns shiny module Server function

lab_distribution_ui Lab distribution Module - UI

Description

A simple UI for a shiny module looking at lab histograms. Intended primarily for technical demos.

Usage

```
lab_distribution_ui(id)
```

Arguments

id module id

Value

returns shiny module UI

10 meta_dm

meta_aes	Metadata data frame containing information about the data mapping
	used to configure safetyGraphics charts for the ae domain. One record
	per unique data mapping

Description

Metadata data frame containing information about the data mapping used to configure safetyGraphics charts for the ae domain. One record per unique data mapping

Usage

meta_aes

Format

A data frame with X rows and 10 columns

domain Data domain

text_key Text key indicating the setting name. '--' delimiter indicates a field level data mapping

col_key Key for the column mapping

field_key Key for the field mapping (if any)

type type of mapping - "field" or "column"

label Label

description Description

multiple Mapping supports multiple columns/fields

standard_adam Default values for the ADaM data standard

standard_sdtm Default values for the SDTM data standard

Source

Created for this package

meta_dm	Metadata data frame containing information about the data mapping used to configure safetyGraphics charts for the dm domain. One record per unique data mapping

Description

Metadata data frame containing information about the data mapping used to configure safetyGraphics charts for the dm domain. One record per unique data mapping

meta_ecg 11

Usage

meta_dm

Format

A data frame with X rows and 10 columns

domain Data domain

text_key Text key indicating the setting name. '--' delimiter indicates a field level data mapping

col_key Key for the column mapping

field_key Key for the field mapping (if any)

type type of mapping - "field" or "column"

label Label

description Description

multiple Mapping supports multiple columns/fields

standard_adam Default values for the ADaM data standard

standard_sdtm Default values for the SDTM data standard

Source

Created for this package

meta_ecg	Metadata data frame containing information about the data mapping
	used to configure safetyGraphics charts for the ecg domain. One
	record per unique data mapping

Description

Metadata data frame containing information about the data mapping used to configure safetyGraphics charts for the ecg domain. One record per unique data mapping

Usage

meta_ecg

Format

A data frame with 22 rows and 10 columns

domain Data domain

text_key Text key indicating the setting name. '--' delimiter indicates a field level data mapping **col_key** Key for the column mapping

field_key Key for the field mapping (if any)

12 meta_hepExplorer

```
type type of mapping - "field" or "column"
label Label
description Description
multiple Mapping supports multiple columns/fields
standard_adam Default values for the ADaM data standard
standard_sdtm Default values for the SDTM data standard
```

Source

Created for this package

Description

Metadata data frame containing information about the data mapping used to configure safetyGraphics for the hepExplorer Chart. One record per unique data mapping

Usage

meta_hepExplorer

Format

A data frame with X rows and 10 columns

domain Data domain

text_key Text key indicating the setting name. '--' delimiter indicates a field level data mapping

col_key Key for the column mapping

field_key Key for the field mapping (if any)

type type of mapping - "field" or "column"

label Label

description Description

multiple Mapping supports multiple columns/fields

standard_adam Default values for the ADaM data standard

standard_sdtm Default values for the SDTM data standard

Source

Created for this package

meta_labs 13

Metadata data frame containing information about the data mapping used to configure safetyGraphics charts for the labs domain. One record per unique data mapping

Description

Metadata data frame containing information about the data mapping used to configure safetyGraphics charts for the labs domain. One record per unique data mapping

Usage

meta_labs

Format

A data frame with X rows and 10 columns

domain Data domain

text_key Text key indicating the setting name. '--' delimiter indicates a field level data mapping

col_key Key for the column mapping

field_key Key for the field mapping (if any)

type type of mapping - "field" or "column"

label Label

description Description

multiple Mapping supports multiple columns/fields

standard_adam Default values for the ADaM data standard

standard_sdtm Default values for the SDTM data standard

Source

Created for this package

```
QT_OutlierExplorer_server
```

QT Outlier Explorer Module - UI

Description

```
QT Outlier Explorer Module - UI
```

Usage

```
QT_OutlierExplorer_server(input, output, session, params)
```

Arguments

input module input output module output session module session

params parameters object with data and settings options.

Value

returns shiny module Server function

Description

QT Outlier Explorer Module - UI

Usage

QT_OutlierExplorer_ui(id)

Arguments

id module id

Value

returns shiny module UI

 ${\tt QT_Outlier_Explorer} \qquad {\tt QT\ Outlier\ Explorer}$

Description

QT Outlier Explorer

Usage

QT_Outlier_Explorer(data, settings)

Arguments

data ECG data structured as one record per person per visit per measurement. See

details for column requirements.

settings named list of settings with the parameters specified below.

render_widget 15

Details

The settings object provides details the columns in the data set.

- "id_col"ID column
- "value_col"Value column
- "measure_col"Measure column
- "measure_values"Measure values
- "visit_col"Visit column
- "visitn_col"Visit number column (numeric)
- "baseline_flag_colBaseline flag column
- "baseline_flag_valuesBaseline flag value

Value

returns a chart object

render_widget

Render an htmlwidget using standard safetyGraphics workflow

Description

Render an htmlwidget using standard safetyGraphics workflow

Usage

```
render_widget(widgetName, data, mapping)
```

Arguments

widgetName name of the widget saved in safetyCharts

data named list of current data sets

mapping named list with the current data mappings

```
safetyOutlierExplorer_server
```

Safety Outlier Explorer Module - UI

Description

Safety Outlier Explorer Module - UI

Usage

```
safetyOutlierExplorer_server(input, output, session, params)
```

Arguments

input module input output module output session module session

params parameters object with data and settings options.

Value

returns shiny module Server function

```
safetyOutlierExplorer_ui
```

Safety Outlier Explorer Module - UI

Description

Safety Outlier Explorer Module - UI

Usage

```
safetyOutlierExplorer_ui(id)
```

Arguments

id

module id

Value

returns shiny module UI

safety_outlier_explorer

17

```
safety_outlier_explorer
```

Safety Outlier Explorer

Description

Safety Outlier Explorer

Usage

```
safety_outlier_explorer(data, settings)
```

Arguments

data labs data structured as one record per person per visit per measurement. See

details for column requirements.

settings named list of settings with the parameters specified below.

Details

The settings object provides details the columns in the data set.

- "id_col"ID column
- "value_col"Value column
- "measure_col"Measure column
- "measure_values"Measure values
- "studyday_col"Study Day (numeric)

Value

returns a chart object

Examples

```
settings <- list(
   id_col = "USUBJID",
   measure_col = "LBTEST",
   measure_values = c("Albumin", "Bilirubin", "Chloride"),
   studyday_col = "VISITDY",
   value_col = "LBORRES"
)
safety_outlier_explorer(safetyData::sdtm_lb, settings)</pre>
```

```
safety_results_over_time
```

Safety Results Over Time plot

Description

Safety Results Over Time plot

Usage

```
safety_results_over_time(data, settings)
```

Arguments

data labs data structured as one record per person per visit per measurement. See

details for column requirements.

settings named list of settings with the parameters specified below.

Details

The settings object provides details the columns in the data set.

- "value_col"Value column
- "measure_col"Measure column
- "measure_values"Measure values
- "visit_col"Study Visit
- "visitn_col"Study Number
- "group_col"Grouping column
- "violins"Show Violin plots?
- "boxplots" Show Box Plots?
- "axis"set to "log" to use a log transformed axis, linear otherwise
- "drop_visit_string"Drop visits that contain this string. e.g. "unscheduled"

Value

returns a chart object

Examples

```
library(dplyr)
lb <- safetyData::sdtm_lb
sub_ids <- unique(lb$USUBJID)[1:100]
lb<-lb %>% filter(USUBJID %in% sub_ids)
settings <- list(
   value_col = "LBORRES",</pre>
```

tendril_chart 19

```
measure_col = "LBTEST",
   measure_values = c("Chloride"),
   visit_col = "VISIT",
   visitn_col = "VISITNUM",
   axis = "log"
)
safety_results_over_time(lb, settings)
# remove unscheduled visits, add violin plot and 2nd panel
settings$drop_visit_string <- "unscheduled"</pre>
settings$violins <- TRUE</pre>
settings$measure_values <- c("Albumin")</pre>
safety_results_over_time(lb, settings)
# add grouping by treatment
dm_sub <- safetyData::sdtm_dm %>% select(USUBJID, ARM)
dm_lb <- dm_sub %>% left_join(lb)
settings$group_col <- "ARM"</pre>
safety_results_over_time(dm_lb, settings)
```

tendril_chart

Tendril plot

Description

Create a plot using the Tendril package

Usage

```
tendril_chart(data, settings)
```

Arguments

data list of data frames including dataframes named aes (adverse events) and dm

(demographics)

settings named list of domain-specific settings with the parameters specified below.

Details

The settings object provides details regarding the columns in the data sets.

- "settings\$dm\$id_col"ID column
- "settings\$dm\$treatment_col"Treatment column
- "settings\$dm\$treatment_values-group1"Name of treatment 1
- "settings\$dm\$treatment_values-group2"Name of treatment 2
- "settings\$aes\$id_col"ID column)
- "settings\$aes\$bodsys_col"Body System
- "settings\$aes\$stdy_col"Study Day

20 tendril_chart

Value

returns a chart object

Index

```
* datasets
    meta_aes, 10
    meta_dm, 10
    meta_ecg, 11
    meta_hepExplorer, 12
    meta_labs, 13
demogRTF_server, 2
demogRTF_table, 3
\texttt{demogRTF\_ui}, \textcolor{red}{3}
hepExplorer, 4
init_aeExplorer, 5
init_aeTimelines, 6
init_paneledOutlierExplorer, 7
init_safetyOutlierExplorer, 7
init_safetyResultsOverTime, 8
init_safetyShiftPlot, 8
lab_distribution_server, 9
lab_distribution_ui, 9
meta_aes, 10
meta_dm, 10
meta_ecg, 11
meta_hepExplorer, 12
meta_labs, 13
QT_Outlier_Explorer, 14
QT_OutlierExplorer_server, 13
{\tt QT\_OutlierExplorer\_ui, 14}
render_widget, 15
safety_outlier_explorer, 17
safety\_results\_over\_time, 18
safetyOutlierExplorer_server, 16
safetyOutlierExplorer_ui, 16
tendril_chart, 19
```