Package ‘timeline’

February 20, 2015

License GPL (>= 2)
Title Timelines for a Grammar of Graphics
Type Package
Author Jason Bryer <jason@bryer.org>
Maintainer Jason Bryer <jason@bryer.org>
Description Create timeline plots.
Version 0.9
BugReports https://github.com/jbryer/timeline/issues
Depends ggplot2, R (>= 3.0)
Suggests shiny
Date 2013-04-30
Collate 'timeline.R' 'timeline-package.R' 'timelineShinyDemo.R'
NeedsCompilation no
Repository CRAN
Date/Publication 2013-05-09 17:03:14

R topics documented:

timeline-package .......................................................... 2
timeline ................................................................. 2
timelineShinyDemo ...................................................... 3
ww2 ................................................................. 4
ww2.events .......................................................... 4

Index 5
Description

Package to create timelines.

Author(s)

Jason Bryer <jason@bryer.org>

Description

This function will create a timeline using the ggplot2 framework in a style similar to Preceden. There are two types of events, those that have a range (i.e. a start and end date) and points-in-time. The latter can be grouped in separate rows to prevent overlapping or to organize different types of events. Grouping of point-in-time events will color code those events accordingly.

Usage

timeline(df, events, label.col = names(df)[1],
group.col = names(df)[2], start.col = names(df)[3],
end.col = names(df)[4], text.size = 4,
text.color = "black", num.label.steps = 5,
event.label.col, event.col, event.group.col,
event.spots = 1, event.label = "",
event.label.method = 1, event.line = FALSE,
event.text.size = 4, event.above = TRUE, limits, ...)

Arguments

df          data for time periods.
events      data for events (optional).
label.col   the column name in df to use for labeling.
group.col   the column name in df to use for grouping.
start.col   the column name in df that specifies the start date.
end.col     the column name in df that specifies the end date.
text.size   the text size for labels in df.
text.color  the text color for labels in df.
```r
num.label.steps  # the number of steps to use for labeling events.
event.label.col  # the column name in `events` to use for labeling.
event.col        # the column name in `events` that specifies the date.
event.group.col  # the column name in `events` to use for grouping.
event.spots      # the number of rows to use for events. Note that each group in `df` is equal to one,
                  # so `event.spots = 2` would be twice as high as one group row from `df`.
event.label      # the label to use on the x-axis for events.
event.label.method # the labeling method. For `method = 1` labels are printed horizontally; for
                    # `method = 2` labels are printed at 45 degree angles.
event.line       # whether to draw a vertical line for each event.
event.text.size  # the text size for event labels.
event.above      # whether events should be plotted above (TRUE) or below (FALSE) time bars.
limits           # the limits of the y-axis.
...              # currently unused.
```

**Examples**

```r
data(ww2)
timeline(ww2, ww2.events)
timeline(ww2, ww2.events, event.spots=2, event.label='', event.above=FALSE)
```

---

**timelineShinyDemo**  
*RUNS THE WW2 DEMO AS A SHINY APP.*

---

**Description**

This will start a Shiny server to interact with the different options available in the `timeline` function.

**Usage**

```r
timelineShinyDemo()
```
ww2.events

Description

Events and leaders during WWI.

Format

Data frame with 8 observations of 4 variables of US and UK leadership.

Source

http://www.preceden.com/

ww2.events

Description

Events and leaders during WWI.

Format

Data frame with 8 observations of 3 variables of key events during WWII.

Source

http://www.preceden.com/
Index

*Topic datasets
  ww2, 4
  ww2.events, 4
*Topic ggplot2
  timeline-package, 2
*Topic timeline
  timeline-package, 2
  timeline, 2, 3
  timeline-package, 2
  timelineShinyDemo, 3

ww2, 4
ww2.events, 4