

Package ‘`timeline`’

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License GPL (>= 2)

Title Timelines for a Grammar of Graphics

Type Package

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Description Create timeline plots.

Version 0.9

URL <http://jason.bryer.org/timeline>, <http://github.com/jbryer/timeline>

BugReports <https://github.com/jbryer/timeline/issues>

Depends ggplot2, R (>= 3.0)

Suggests shiny

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Collate 'timeline.R' 'timeline-package.R' 'timelineShinyDemo.R'

NeedsCompilation no

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timeline-package	<i>timeline</i>
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Description

Package to create timelines.

Author(s)

Jason Bryer <jason@bryer.org>

timeline	<i>Creates a timeline plot.</i>
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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.

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

Examples

```
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

```
timelineShinyDemo()
```

ww2	<i>Events and leaders during WWI.</i>
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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	<i>Events and leaders during WWI.</i>
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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/>

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