

Package ‘vistime’

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Title Pretty Timeline Creation

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Description Create timelines or Gantt charts, offline and interactive, that are usable in the 'RStudio' viewer pane, in 'R Markdown' documents and in 'Shiny' apps using 'plotly.js', a high-level, declarative charting library (see <<https://plot.ly/javascript>>). Hover the mouse pointer over a point or task to show details or drag a rectangle to zoom in. Timelines (and the data behind them) can be manipulated using 'plotly_build()' or, once uploaded to a 'plotly' account, viewed and modified in a web browser.

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URL <https://github.com/shosaco/vistime>

BugReports <https://github.com/shosaco/vistime/issues>

Depends R (>= 3.2.0), plotly (>= 4.0.0)

Imports RColorBrewer (>= 0.2.2)

Encoding UTF-8

LazyData true

RoxygenNote 6.0.1

NeedsCompilation no

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Repository CRAN

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Description

Create interactive and offline timelines using the `plotly.js` framework.

Time data that is provided is distributed and grouped in a non-overlapping matter. It can then be edited via `plotly_build()` and used in Shiny apps or Rmarkdown documents. The process works offline.

Usage

```
vistime(data, events = "event", start = "start", end = "end",
        groups = "group", colors = "color", fontcolors = "fontcolor",
        tooltips = "tooltip", linewidth = NULL, title = NULL,
        showLabels = TRUE, lineInterval = NULL)
```

Arguments

<code>data</code>	data.frame that contains the data to be visualised
<code>events</code>	(optional) the column name in data that contains event names. Default: "event".
<code>start</code>	(optional) the column name in data that contains start dates. Default: "start".
<code>end</code>	(optional) the column name in data that contains end dates. Default: "end".
<code>groups</code>	(optional) the column name in data to be used for grouping. Default: "group".
<code>colors</code>	(optional) the column name in data that contains colors for events. Default: "color", if not present, colors are chosen via <code>RColorBrewer</code> .
<code>fontcolors</code>	(optional) the column name in data that contains the font color for event labels. Default: "fontcolor", if not present, color will be black.
<code>tooltips</code>	(optional) the column name in data that contains the mouseover tooltips for the events. Default: "tooltip", if not present, then tooltips are build from event name and date.
<code>linewidth</code>	(optional) the linewidth for the events (typically used for large amount of parallel events). If not specified, then determined automatically.
<code>title</code>	(optional) the title to be shown on top of the timeline
<code>showLabels</code>	(optional) choose whether or not event labels shall be visible
<code>lineInterval</code>	(optional) the distance of vertical lines (in SECONDS) to demonstrate structure (default: heuristic, depending on total range)

Value

`vistime` returns an object of class `plotly` and `htmlwidget`.

Author(s)

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Examples

```
# presidents and vice presidents
pres <- data.frame(Position=c(rep("President", 3), rep("Vice", 3)),
  Name = c("Washington", "Adams", "Jefferson", "Adams", "Jefferson", "Burr"),
  start = rep(c("1789-03-29", "1797-02-03", "1801-02-03"), 2),
  end = rep(c("1797-02-03", "1801-02-03", "1809-02-03"), 2),
  color = c('#cbb69d', '#603913', '#c69c6e'),
  rep(c("black", "white", "black"), 2))

vistime(pres, events="Position", groups="Name", title="Presidents of the USA",
  lineInterval = 60*60*24*365*5)
```

```
# more complex and colorful example
data <- read.csv(text="event,group,start,end,color
Phase 1,Project,2016-12-22,2016-12-23,#c8e6c9
Phase 2,Project,2016-12-23,2016-12-29,#a5d6a7
Phase 3,Project,2016-12-29,2017-01-06,#fb8c00
Phase 4,Project,2017-01-06,2017-02-02,#DD4B39
1-217.0,category 2,2016-12-27,2016-12-27,#90caf9
3-200,category 1,2016-12-25,2016-12-25,#1565c0
3-330,category 1,2016-12-25,2016-12-25,#1565c0
3-223,category 1,2016-12-28,2016-12-28,#1565c0
3-225,category 1,2016-12-28,2016-12-28,#1565c0
3-226,category 1,2016-12-28,2016-12-28,#1565c0
3-226,category 1,2017-01-19,2017-01-19,#1565c0
3-330,category 1,2017-01-19,2017-01-19,#1565c0
3-399.7,moon rising,2017-01-13,2017-01-13,#f44336
8-831.0,sundowner drink,2017-01-17,2017-01-17,#8d6e63
9-984.1,birthday party,2016-12-22,2016-12-22,#90a4ae
F01.9,Meetings,2016-12-26,2016-12-26,#e8a735
Z71,Meetings,2017-01-12,2017-01-12,#e8a735
B95.7,Meetings,2017-01-15,2017-01-15,#e8a735
T82.7,Meetings,2017-01-15,2017-01-15,#e8a735
Room 334,Team 1,2016-12-22,2016-12-28,#DEEBF7
Room 335,Team 1,2016-12-28,2017-01-05,#C6DBEF
Room 335,Team 1,2017-01-05,2017-01-23,#9ECAE1
Group 1,Team 2,2016-12-22,2016-12-28,#E5F5E0
Group 2,Team 2,2016-12-28,2017-01-23,#C7E9C0")

vistime(data)
```

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