

Package: kwb.dygraph (via r-universe)

August 30, 2024

Title Additional Functions to be Used with dygraph-Objects

Version 0.1.0

Description Additional functions to be used with dygraph-objects e.g. shading of areas or drawing of lines representing time periods within events (given by begin and end times).

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URL <https://github.com/KWB-R/kwb.dygraph>

BugReports <https://github.com/KWB-R/kwb.dygraph/issues>

Imports dygraphs, kwb.event, kwb.utils

Suggests covr

Remotes github::kwb-r/kwb.event

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.0

Repository <https://kwb-r.r-universe.dev>

RemoteUrl <https://github.com/KWB-R/kwb.dygraph>

RemoteRef HEAD

RemoteSha 73d9ea5f8aac6147e8db0c19b81f4eb2bc06be37

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addEventLines *add lines to dygrap plot representing begin and end of events*

Description

add lines to dygrap plot representing begin and end of events

Usage

```
addEventLines(
  dygraph,
  events,
  labels = seq_len(nrow(events)),
  color = "red",
  labelLoc = "top",
  color.begin = color,
  color.end = color,
  labelLoc.begin = labelLoc,
  labelLoc.end = labelLoc,
  signalWidth = kwb.event::hsSigWidth(events)
)
```

Arguments

dygraph	dygraph object as returned by dygraph
events	data frame with columns <i>tBeg</i> (begin time) and <i>tEnd</i> (end time) of events to be drawn
labels	labels given to the events (default: 1:nrow(events))
color	color (default: "red")
labelLoc	"top" or "bottom" (default: "top")
color.begin	default: same as argument "color"
color.end	default: same as argument "color"
labelLoc.begin	default: same as argument "labelLoc"
labelLoc.end	default: same as argument "labelLoc"
signalWidth	signal width in seconds = length of time interval that one timestamp in the original data represents, e.g. 300 for 5-minutes-data.

Value

modified dygraph object

addEventShades	<i>add shaded areas representing time intervals within "events"</i>
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Description

add shaded areas representing time intervals within "events"

Usage

```
addEventShades(
  dygraph,
  events,
  color = "lightgrey",
  signalWidth = kwb.event::hsSigWidth(events)
)
```

Arguments

dygraph	dygraph object as returned by dygraph
events	data frame with columns <i>tBeg</i> (begin time) and <i>tEnd</i> (end time) of events to be drawn
color	color (default: "lightgrey")
signalWidth	signal width in seconds = length of time interval that one timestamp in the original data represents, e.g. 300 for 5-minutes-data

Value

modified dygraph object

dyEvents	<i>call dygraphs::dyEvent repeatedly</i>
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Description

call dygraphs::dyEvent repeatedly

Usage

```
dyEvents(
  dygraph,
  dates,
  labels = "",
  labelLocs = c("top", "bottom"),
  colors = "black",
  strokePatterns = "dashed"
)
```

Arguments

<code>dygraph</code>	Dygraph to add event line to
<code>dates</code>	vector of Date/time for the event (must be a POSIXct object or another object convertible to POSIXct via <code>as.POSIXct</code>)
<code>labels</code>	vector of labels for the events. (default: <code>""</code>)
<code>labelLocs</code>	vector of locations for the labels (<code>"top"</code> or <code>"bottom"</code>). default: <code>c("top", "bottom")</code>
<code>colors</code>	vector of colors for each event line. This can be of the form <code>"#AABBCC"</code> or <code>"rgb(255,100,200)"</code> or <code>"yellow"</code> . Defaults to black.
<code>strokePatterns</code>	vector of predefined stroke pattern types (<code>"dotted"</code> , <code>"dashed"</code> , or <code>"dotdash"</code>)

Value

modified dygraph object

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