

Package ‘calendRio’

December 21, 2024

Title 'calendR' Fork with Additional Features (Backwards Compatible)

Version 0.2.1

Description Fork of 'calendR' R package to generate ready to print calendars with 'ggplot2' (see <<https://r-coder.com/calendar-plot-r/>>) with additional features (backwards compatible). 'calendRio' provides a 'calendR()' function that serves as a drop-in replacement for the upstream version but allows for additional parameters unlocking extra functionality.

Imports dplyr, forcats, gggibbous, ggimage, ggplot2, suncalc

License AGPL (>= 3)

Encoding UTF-8

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NeedsCompilation no

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Description

Create ready to print monthly and yearly calendars. The function allows personalizing colors (even setting a gradient color scale for a full month or year), texts and fonts. In addition, for monthly calendars you can also add text on the days and moon phases.

Usage

```
calendR(  
  year = format(Sys.Date(), "%Y"),  
  month = NULL,  
  from = NULL,  
  to = NULL,  
  start = c("S", "M"),  
  orientation = c("portrait", "landscape"),  
  title,  
  title.size = 20,  
  title.col = "gray30",  
  subtitle = "",  
  subtitle.size = 10,  
  subtitle.col = "gray30",  
  text = "",  
  text.pos = NULL,  
  text.size = 4,  
  text.col = "gray30",  
  special.days = NULL,  
  special.col = "gray90",  
  gradient = FALSE,  
  low.col = "white",  
  col = "gray30",  
  lwd = 0.5,  
  lty = 1,  
  font.family = "sans",  
  font.style = "plain",  
  day.size = 3,  
  days.col = "gray30",  
  weeknames,  
  weeknames.col = "gray30",  
  weeknames.size = 4.5,  
  week.number = FALSE,  
  week.number.col = "gray30",  
  week.number.size = 8,  
  monthnames,  
  months.size = 10,
```

```

months.col = "gray30",
months.pos = 0.5,
mbg.col = "white",
legend.pos = "none",
legend.title = "",
bg.col = "white",
bg.img = "",
margin = 1,
ncol,
lunar = FALSE,
lunar.col = "gray60",
lunar.size = 7,
pdf = FALSE,
doc_name = "",
papersize = "A4"
)

```

Arguments

<code>year</code>	Calendar year. By default uses the current year.
<code>month</code>	Month of the year or NULL (default) for the yearly calendar.
<code>from</code>	Custom start date of the calendar. If <code>from != NULL</code> , <code>year</code> and <code>month</code> arguments won't be taken into account.
<code>to</code>	Custom end date of the calendar.
<code>start</code>	"S" (default) for starting the week on Sunday or "M" for starting the week on Monday.
<code>orientation</code>	The calendar orientation: "portrait" or "landscape" (default). Also accepts "p" and "l".
<code>title</code>	Title of the the calendar. If not supplied is the year and the month, or the year if <code>month = NULL</code> .
<code>title.size</code>	Size of the main title.
<code>title.col</code>	Color of the main title.
<code>subtitle</code>	Subtitle of the calendar in italics (optional).
<code>subtitle.size</code>	Font size of the subtitle.
<code>subtitle.col</code>	Color of the subtitle.
<code>text</code>	Character vector of texts to be added on the calendar. Only for monthly calendars.
<code>text.pos</code>	Numeric vector containing the number of days of the month where to add the texts of the <code>text</code> argument.
<code>text.size</code>	Font size of the texts added with the <code>text</code> argument.
<code>text.col</code>	Color of the texts added with the <code>text</code> argument.
<code>special.days</code>	Numeric vector indicating the days to color or "weekend" for coloring all the weekends.

<code>special.col</code>	Color for the days indicated in <code>special.days</code> . If <code>gradient = TRUE</code> , is the higher color of the gradient.
<code>gradient</code>	Boolean. If <code>special.days</code> is a numeric vector of the length of the displayed days, <code>gradient = TRUE</code> creates a gradient of the <code>special.col</code> on the calendar.
<code>low.col</code>	If <code>gradient = TRUE</code> , is the lower color of the gradient. If <code>gradient = FALSE</code> is the background color of the days. Defaults to "white".
<code>col</code>	Color of the lines of the calendar.
<code>lwd</code>	Line width of the calendar.
<code>lty</code>	Line type of the calendar. If <code>lty = 0</code> no lines are drawn.
<code>font.family</code>	Font family of all the texts.
<code>font.style</code>	Style of all the texts and numbers except the subtitle. Possible options are "plain" (default), "bold", "italic" and "bold.italic".
<code>day.size</code>	Font size of the number of the days.
<code>days.col</code>	Color of the number of the days.
<code>weeknames</code>	Character vector with the names of the days of the week starting on Monday. By default they will be in the system locale.
<code>weeknames.col</code>	Color of the names of the days.
<code>weeknames.size</code>	Size of the names of the days.
<code>week.number</code>	If <code>TRUE</code> , the week number of the year for each week is added.
<code>week.number.col</code>	If <code>week.number = TRUE</code> is the color of the week numbers.
<code>week.number.size</code>	If <code>week.number = TRUE</code> is the size of the week numbers.
<code>monthnames</code>	Character vector with the names of the months of the calendar. By default they will be upper case and in the system locale.
<code>months.size</code>	Font size of the names of the months.
<code>months.col</code>	If <code>month = NULL</code> , is the color of the month names.
<code>months.pos</code>	Horizontal align of the month names. Defaults to 0.5 (center).
<code>mbg.col</code>	Background color of the month names. Defaults to "white".
<code>legend.pos</code>	If <code>gradient = TRUE</code> , is the position of the legend. It can be set to "none" (default), "top", "bottom", "left" and "right".
<code>legend.title</code>	If <code>legend.pos != "none"</code> and <code>gradient = TRUE</code> , is the title of the legend.
<code>bg.col</code>	Background color of the calendar. Defaults to "white".
<code>bg.img</code>	Character string containing the URL or the local directory of a image to be used as background.
<code>margin</code>	Numeric. Allows controlling the margin of the calendar.
<code>ncol</code>	Numeric. Controls the number of columns of the yearly calendar. Overrides the default values for "landscape" and "portrait" orientation.
<code>lunar</code>	Boolean. If <code>TRUE</code> , draws the lunar phases. Only available for monthly calendars.
<code>lunar.col</code>	If <code>lunar = TRUE</code> , is the color of the hide part of the moons.

lunar.size	If lunar = TRUE, is the size of the representation of the moons.
pdf	Boolean. If TRUE, saves the calendar in the working directory in A4 format.
doc_name	If pdf = TRUE, is the name of the generated file (without the file extension). If not specified, creates files of the format: Calendar_year.pdf for yearly calendars and Calendar_month_year.pdf for monthly calendars.
papersize	PDF paper size. Possible options are "A6", "A5", "A4" (default), "A3", "A2", "A1" and "A0". Depending on the size you will need to fine-tune some arguments, like the font sizes.

Value

A ggplot object containing the requested calendar.

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Examples

```
# Calendar of the current year
calendR()

# Calendar of July, 2005, starting on Monday
calendR(year = 2005, month = 7, start = "M", subtitle = "Have a nice day")

# Create ready to print monthly calendars for all the months of the current year
# with week starting on Sunday
invisible(sapply(1:12 , function(i) calendR(month = i, pdf = TRUE,
doc_name = file.path(tempdir(), paste0("myCalendar", i , ".pdf")))))
```

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