

Package ‘calendR’

October 12, 2022

Title Ready to Print Monthly and Yearly Calendars Made with 'ggplot2'

Version 1.1

Description Contains the function `calendR()` for creating fully customizable monthly and yearly calendars (colors, fonts, formats, ...) and even heatmap calendars. In addition, it allows saving the calendars in ready to print A4 format PDF files.

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

License GPL-2

Encoding UTF-8

URL <https://r-coder.com/>, <https://r-coder.com/calendar-plot-r/>

LazyData true

RoxygenNote 7.1.1

NeedsCompilation no

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Repository CRAN

Date/Publication 2020-09-14 12:00:06 UTC

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calendR-package	<i>calendR: Ready to Print Monthly and Yearly Calendars Made with 'ggplot2'</i>
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Description

This package creates monthly and yearly calendars based on 'ggplot2' package. The function provided allows coloring the days, adding texts, customizing the font colors, styles and fonts and saving ready to print calendars to the working directory in PDF (in landscape or portrait A4 format).

Details

- Package: calendR
- Version: 1.1
- Maintainer: José Carlos Soage González <jsoage@uvigo.es>

Author(s)

- Soage González, José Carlos.
- Pérez Veiga, Natalia.

See Also

- [R programming tutorials](#)
- [Tutorial: calendar plots in R with calendR package](#)

calendR	<i>Monthly and yearly calendars</i>
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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.

Usage

```
calendR(  
  year = format(Sys.Date(), "%Y"),  
  month = NULL,  
  start_date = NULL,  
  end_date = 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,
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,
lunar = FALSE,
lunar.col = "gray60",
lunar.size = 7,
pdf = FALSE,
doc_name = "",
papersize = "A4"
)
```

Arguments

year	Calendar year. By default uses the current year.
month	Month of the year or NULL (default) for the yearly calendar.
start_date	Custom start date of the calendar. If start_date != NULL, year and month arguments won't be taken into account.
end_date	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 month = NULL.
<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 text argument.
<code>text.size</code>	Font size of the texts added with the text argument.
<code>text.col</code>	Color of the texts added with the text 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 special.days. If gradient = TRUE, is the higher color of the gradient.
<code>gradient</code>	Boolean. If special.days is a numeric vector of the length of the displayed days, gradient = TRUE creates a gradient of the special.col on the calendar.
<code>low.col</code>	If gradient = TRUE, is the lower color of the gradient. If gradient = FALSE 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 lty = 0 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>months.size</code>	Font size of the names of the months.
<code>months.col</code>	If month = NULL, 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>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.
<code>lunar.size</code>	If <code>lunar = TRUE</code> , is the size of the representation of the moons.
<code>pdf</code>	Boolean. If <code>TRUE</code> , saves the calendar in the working directory in A4 format.
<code>doc_name</code>	If <code>pdf = TRUE</code> , is the name of the generated file (without the file extension). If not specified, creates files of the format: <code>Calendar_year.pdf</code> for yearly calendars and <code>Calendar_month_year.pdf</code> for monthly calendars.
<code>papersize</code>	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.

Author(s)

- Soage González, José Carlos.
- Maintainer: José Carlos Soage González. <jsoage@uvigo.es>

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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