Package 'calendR'

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

Version 1.2

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/

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Contents

calendR-package *calendR: Ready to Print Monthly and Yearly Calendars Made with 'ggplot2'*

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: 1.2
- Maintainer: José Carlos Soage González <jsoage@uvigo.es>

Author(s)

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See Also

- R programming tutorials
- Tutorial: calendar plots in R with calendR package

calendR *Monthly and yearly calendars*

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 = NULL,
  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

year	Calendar year. By default uses the current year.

month	Month of the year or NULL (default) for the yearly calendar.
from	Custom start date of the calendar. If from != NULL, year and month arguments won't be taken into account.
to	Custom end date of the calendar.
start	"S" (default) for starting the week on Sunday or "M" for starting the week on Monday.
orientation	The calendar orientation: "portrait" or "landscape" (default). Also accepts "p" and "l".
title	Title of the the calendar. If not supplied is the year and the month, or the year if month = NULL.
title.size	Size of the main title.
title.col	Color of the main title.
subtitle	Subtitle of the calendar in italics (optional).
subtitle.size	Font size of the subtitle.
subtitle.col	Color of the subtitle.
text	Character vector of texts to be added on the calendar. Only for monthly calendars.
text.pos	Numeric vector containing the number of days of the month where to add the texts of the text argument.
text.size	Font size of the texts added with the text argument.
text.col	Color of the texts added with the text argument.
special.days	Numeric vector indicating the days to color or "weekend" for coloring all the weekends.
special.col	Color for the days indicated in special.days. If gradient = TRUE, is the higher color of the gradient.
gradient	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.
low.col	If gradient = TRUE, is the lower color of the gradient. If gradient = FALSE is the background color of the days. Defaults to "white".
col	Color of the lines of the calendar.
lwd	Line width of the calendar.
lty	Line type of the calendar. If lty = 0 no lines are drawn.
font.family	Font family of all the texts.
font.style	Style of all the texts and numbers except the subtitle. Possible options are "plain" (default), "bold", "italic" and "bold.italic".
day.size	Font size of the number of the days.
days.col	Color of the number of the days.
weeknames	Character vector with the names of the days of the week starting on Monday. By default they will be in the system locale.
weeknames.col	Color of the names of the days.

weeknames.size	Size of the names of the days.
week.number	If TRUE, the week number of the year for each week is added.
week.number.col	If week.number = TRUE is the color of the week numbers.
week.number.size	If week.number = TRUE is the size of the week numbers.
monthnames	Character vector with the names of the months of the calendar. By default they will be upper case and in the system locale.
months.size	Font size of the names of the months.
months.col	If month = NULL, is the color of the month names.
months.pos	Horizontal align of the month names. Defaults to 0.5 (center).
mbg.col	Background color of the month names. Defaults to "white".
legend.pos	If gradient = TRUE, is the position of the legend. It can be set to "none" (default), "top", "bottom", "left" and "right".
legend.title	If legend.pos != "none" and gradient = TRUE, is the title of the legend.
bg.col	Background color of the calendar. Defaults to "white".
bg.img	Character string containing the URL or the local directory of a image to be used as background.
margin	Numeric. Allows controlling the margin of the calendar.
ncol	Numeric. Controls the number of columns of the yearly calendar. Overrides the default values for "landscape" and "portrait" orientation.
lunar	Boolean. If TRUE, draws the lunar phases. Only available for monthly calendars.
lunar.col	If lunar = TRUE, 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.

Author(s)

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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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