# Package 'calendRio'

March 10, 2022

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

**Version** 0.2.0

**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

**RoxygenNote** 7.1.2

**NeedsCompilation** no

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**Repository** CRAN

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calendR                                    *Monthly and yearly calendars*

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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

| | |
|---|---|
| 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. |

## Value

A ggplot object containing the requested calendar.

## 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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