CalendR:: CHEAT SHEET

calendR

CalendR Basics

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).

Installation:

install.packages("calendR")
library(calendR)

Additional packages to install or load in:

library(ggplot2) library(dplyr) library(forcats) library(suncalc) library(ggimage) library(gggibbous)



year month start_date

start

title

text

Calendar year. uses current year by default.
Month of year or null for yearly calendar.
Custom start day of calendar. If
start_date !=NULL, year and month

arguments negated.

end_date Custom end date of calendar.

"S" (default) for starting week on Sunday. "M" for

Monday start.

Title of the calendar. If not given, title is the year or

month, or simply year if month = NULL subtitle subtitle of calendar (italics, optional)

Character vector of texts to be added on the calendar. Only for monthly calendar.

special.days

Numeric vector indicating the days to color or

"weekend' for coloring all weekends

weeknames Character vector with the names of the days of the week starting on Mondays. uses system local by

default.

legend.pos Position of legend. default is "none". can be

changed to "top", "bottom", "left", and

"right".

line type, no lines are drawn if lty = 0

Numeric argument that controls calendar margins Boolean. Adds lunar phases on monthly calendars

when TRUE

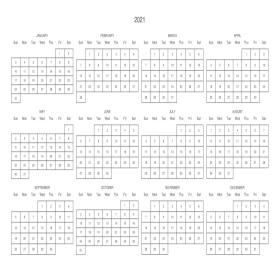
Boolean. saves calendar in working directory (A4

format) if TRUE

Yearly Calendar

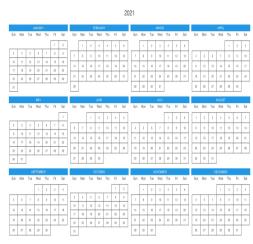
Current year is always the default

calendR()



Customizing the year and month name colour

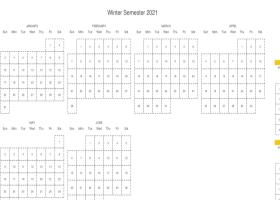
calendR(year = 2021, mbg.col = 4)



Start and End Dates

Customizing start and end dates

calendR(start_date = "2021-01-01",
 end_date = "2021-06-30",
 lty = 8,
 title = "Winter Semester 2021",
 start = "S")



calendR(start_date = "2021-01-01", end_date = "2021-06-30", mbg.col = 7, lty = 8, title = "Winter Semester 2021", subtitle = "BLG610 Assignment 3 Deadline", start = "S", special.days = c(81, 82, 83, 84, 85), special.col = c("darksalmon"), text = "Winter Break", text.pos = c(81, 82, 83, 84, 85))



Monthly Calendar

Single month calendar

calendR(month = 12, title.size = 60, font.style = "bold.italic")



Assigning special day(s)

calendR(year = 2046, month = 3,

special.days = c(1, 15, 29),
special.col = c("burlywood1"),

text = "Recycling",

text.pos = c(1, 15, 29)

Customizing monthly calendar colours

calendR(month = 5,
 title.size = 60,
 title.col = "brown4",
 subtitle = "Life is beautiful.",
 subtitle.size = 20,
 subtitle.col = "brown2",
 days.col = "deepskyblue3",
 day.size = 6,
 font.family = "serif",
 font.style = "bold.italic",
 col = "forestgreen",
 weeknames.col = "forestgreen",
 bg.col = "bisque1")



Start of the Week

Week Start on Sunday

calendR(month = 3, start = "S")



MARCH 2021

MARCH 2021

Week Start on Monday

calendR(month = 3, start = "S")





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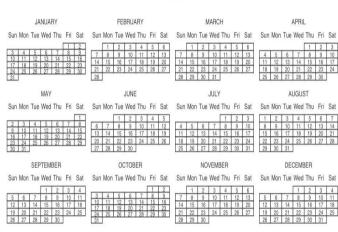


Calendar Orientation

Landscape Calendar (Default)

calendR(year = 2021,
orientation = "landscape")

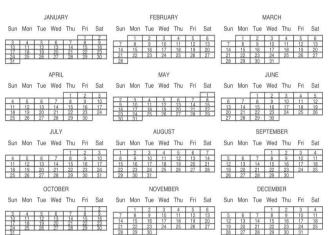
2021



Portrait Calendar

calendR(year = 2021,
orientation = "portrait")

2021

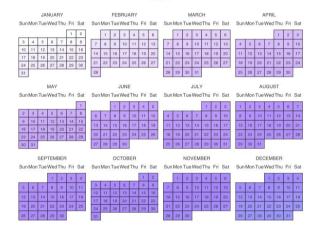


Gradient

Calendar Heatmap (Entire Year)

calendR(year = 2021, special.days = 1:365, gradient = TRUE, special.col = rgb(0, 0, 1, alpha = 0.4), low.col = "white")

2021



Calendar Heatmap (Entire Year)

#We must create a vector with values lower than the amount of years

my_data <- runif(20,10,20)

days <-rep(min(my_data)- 0.05, 365)

#Fill days with data

days[109:120] <- my data

calendR(year = 2021, special.days = days, gradient = TRUE, special.col = rgb(0, 0, 1, alpha = 0.6), low.col = "white")

2021

JANUARY						FEBRUARY								MARCH							APRIL						
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	S
					1	2		1	2	3	4	5	6		1	2	3	4	5	6					1	2	3
3	4	5	6	7	8	9	7	8	9	10	11	12	13	7	8	9	10	11	12	13	4	5	6	7	8	9	10
10	11	12	13	14	15	16	14	15	16	17	18	19	20	14	15	16	17	18	19	20	11	12	13	14	15	16	1
17	18	19	20	21	22	23	-		-	-	-			-							-	1.2					-
24	25	26	27	28	29	30	21	22	23	24	25	26	27	21	22	23	24	25	26	27	18	19	20	21	22	23	24
31							28							28	29	30	31				25	26	27	28	29	30	
MAY Sun Mon Tue Wed Thu Fri Sat				JUNE Sun Mon Tue Wed Thu Fri Sat						JULY Sun Mon Tue Wed Thu Fri Sat					Sat	AUGUST Sun Mon Tue Wed Thu Fri Sa											
				_		1			1	2	3	4	5					1	2	3	1	2	3	4	5	6	7
2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	1-
9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	2
16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	2
23	24	25	26	27	28	29	27	28	-	30		LU	20	25	26	27	28	29	30		29	30	-	20			
30	31						27	28	29	30				25	26	27	28	29	30	31	29	30	31				
SEPTEMBER					OCTOBER								NOVEMBER						DECEMBER								
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	S
			1	2	3	4						1	2		1	2	3	4	5	6				1	2	3	4
5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	1
12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18
	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25
10		6.1	66	60	4	40	24	25	26	27	28	29	30	21	20	2.3	64	6.5	60	6/	19	20	21	22	2.3	67	25
19	27	28	29	30			31							28	29	30					26	27	28	29	30	31	

Adding Events

Adding Multiple Events

#Create an NA vector for entire year

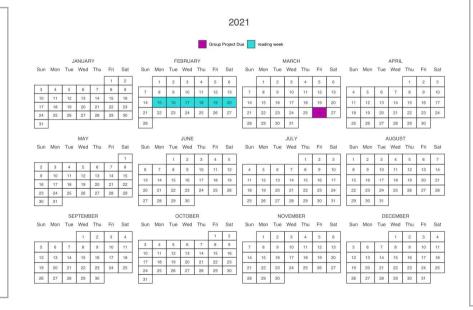
final <- rep(NA,365)

#Add events days of interest

final[46:51] <- "reading week" final[85] <- "Group Project Due"

#Run the calendar

calendR(special.days = final, special.col = 2:3, legend.pos = "top")



Adding Events within Defined Time periods

start_date <- "2021-04-01" end_date <- "2021-12-31"

custom_dates <- seq(as.Date(start_date), as.Date(end_date), by = "1_dav")

events <- rep(NA, length(custom_dates))

Time difference

"bottom")

dif <- 365 - length(custom_dates)
myfills <- rep(NA, length(custom_date

Specify the dates as in a 365 days calendar and subtract the time difference

myfills[c(109:120) - dif] <- "Final Exam's Period"

myfills[216 - dif] <- "Exam Period"

myfills[119 - dif] <- "Thesis Defense"

myfills[216 - dif] <- "Birthday"

myfills[250 - dif] <- "First Day of Grad School?"

calendR(start_date = start_date, end_date = end_date, special.days = myfills, special.col = 6:5:4:3:2, legend.pos =



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Background Image

Adding Background Image

Can use an image URL or image from local directory

calendR (month = 4, ba.ima =

"https://media.istockphoto.com/photos/nature-background-picture-id654475732?k=6&m=654475732&s=170667a&w=0&h=34CtTwHu6ZUehmQpbu_hhsBd8b2B5r4_h3bkl9OZZLI=")

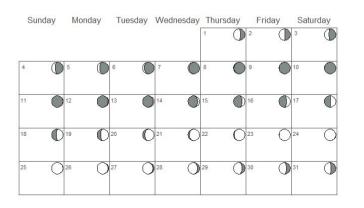


Lunar Calendar

Adding lunar phases

calendR (month = 7, lunar = TRUE, lunar.col = "azure4", lunar.size = 8)

JULY 2021



Save as PDF

Default is A4 size

calendR (year = 2021, orientation = "portrait", pdf = TRUE)

Set a paper size (from A6 to A0)

calendR (year = 2021, orientation = "portrait", pdf = TRUE, papersize = "A6")

Customize document name

calendR(year = 2021, orientation = "portrait", pdf = TRUE, doc_name = "BLG610_Calendar")

CalendR Example

Create an NA vector for the entire year myfills <- rep(NA, 365)

Create special events using NA vector myfills[c(1:14, 353:365)] <- "Winter Break" myfills[15] <- "First Day of Winter 2021 Classes" myfills[c(44:50)] <- "Winter 2021 Reading Week" myfills[c(108:121)] <- "Winter 2021 Exam Period" myfills[249] <- "First Day of Fall 2021 Classes" myfills[c(282:288)] <- "Fall 2021 Reading Week" myfills[c(341:352)] <- "Fall 2021 Exam Period"

calendR(year=2021, title = "Ryerson University 2021 Significant Dates",

ad17b.jpg",

orientation = "portrait")

Example Continued

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3	4	5	6	7	8	9	7	8	9	10	11	12	13	7	8	9	10	11	12	11
10	11	12	13	14	15	16	14	15	16	17.	18	19	20	14	15	16	17	18	19	2
17	18	19	20	21	22	23	21	22	23	24	25	26	27	21	22	23	24	25	26	2
31	25	26	27	28	29	30	28							28	29	30	31			
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				1	2	3			4	5	6	7	8			1	2	3	4	5
4	5	6	7	8	9	10	9	10	11	12	13	7	15	6	7	8	9	10	11	13
11	12	13	.14	15	16	17	16	17	18	19	20	21	22	13	14	15	16	17	18	-11
18	19	20	21	22	23	24	23	24	25	26	27	28	29	20	21	22	23	24	25	2
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4	5	6	7	8	9	10	8	9	10	11	12	13	14	5	6	7	8	9	10	1
11	12	13	14	15	16	17	15	16	17	18	19	20	21	12	13	14	15	16	17	1
18	19	20	21	22	23	24	22	23	24	25	26	27	28	19	20	21	22	23	24	2
25	26	27	28	29	30	31	29	30	31					26	27	28	29	30		
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S	M	T O	W W	ER T	F	s	s	M	NO T	WEME	BER T	E	S	S	M	DE	CEME	BER T	F	S
7		(2)			1	2	9							3						
3	4	5	6	7	8	9		1	2	3	4	5	6			1940	1	2	3	4
10	11	12	13	14	15	16	7	8	9	10	11	12	13	5	6	7	8	9	10	1
17	18	19	20	21	22	23	14	15	16	17	18	19	20	12	13	14	15	16	17	1
24	25	26	27	28	29	30	21	22	23	24	25	26	27	19	20	21	22	23	24	2
31							28	29	30					26	27	28	29	30	31	
		E-Hoos		am Pe			irst Day							2021 Ex					r Break	