

# Spiral Plot

Code ▾

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```
library(dplyr)
library(ggplot2)
library(ggforce)
install.packages("spiralize")
library("spiralize")
```

Se toma como referencia el tutorial del siguiente enlace:

<https://flowingdata.com/2022/01/10/a-quick-and-easy-way-to-make-spiral-charts-in-r/>

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```
covid <- read.csv("owid-covid-data.csv", stringsAsFactors = FALSE)
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```
new_cases_spain <- covid[covid$location == "Spain" & !is.na(covid$new_cases_smoothed),]
new_cases_spain$dt <- strptime(new_cases_spain$date, format="%Y-%m-%d")
ymax <- max(new_cases_spain$new_cases_smoothed)

# Initialize.
spiral_initialize_by_time(xlim=c("2020-01-01 00:00:00", "2023-04-26 00:00:00"),
                        unit_on_axis = "days", period="years",
                        start=90, end=(709/365)*360+(28/365)*360+90,
                        flip="horizontal",verbose = FALSE)

# Create the track.
spiral_track(ylim=c(0, ymax*.7),
             background=FALSE, background_gp = gpar(col = NA, fill = NA))

# Use a polygon.
spiral_polygon(x=c(new_cases_spain$dt, rev(new_cases_spain$dt)),
               y=c(new_cases_spain$new_cases_smoothed/2, -rev(new_cases_spain$new_cases_smoothed/2)),
               gp = gpar(col="#d32e2b", fill="#d32e2b50"))
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# Middle baseline.
spiral_lines(x=new_cases_spain$dt, y=0)

# Text.
spiral_text(x="2020-01-01", y=50000, text="2020",
            facing = "curved_inside", just = "right",
            gp=gpar(cex=1, fontfamily="Courier"))
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```
spiral_text(x="2021-01-01", y=50000, text="2021",
            facing = "curved_inside", just = "right",
            gp=gpar(cex=1, fontfamily="Courier"))
```

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```
spiral_text(x="2022-01-01", y=50000, text="2022",
            facing = "curved_inside", just = "right",
            gp=gpar(cex=1, fontfamily="Courier"))
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```
spiral_text(x="2023-01-01", y=50000, text="2023",
            facing = "curved_inside", just = "right",
            gp=gpar(cex=1, fontfamily="Courier"))
```

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