

22 May 2018 Herman Teirlinck,

01.05 - Isala Van Diest

What have I done?!?

```
library(tidyverse)
library(ggplot2)
library(ggridges)
pulsar <- read csv("../data/20180522 pulsar cp1919.csv")</pre>
gqplot(pulsar, aes(x, y, height = y, group = line)) +
  geom ridgeline(fill = "black", colour = "white", size = 0.4) +
  coord fixed(0.5) +
  annotate ("text", x = median (pulsar$x), y = -50, label = "UNKNOWN PLEASURES",
           colour = "#F0F0F0", hjust = 0.5, fontface =2) +
  annotate ("text", x = median (pulsar x), y = 1650, label = "JOY DIVISION",
           colour = "#F0F0F0", hjust = 0.5, fontface =2) +
  theme(panel.grid = element blank(),
        panel.background = element rect(fill = "black"),
        axis.text = element blank(),
        axis.ticks = element blank(),
        axis.title = element blank())
```







Install the package suite: install.packages("tidyverse")

Load the package suite: library(tidyverse)

Share your snippets during the coding session!

Go to <u>https://hackmd.io/CcRhOYJcScegKm8sF05Rqw</u> and post your code in between backticks:

For example:

~ ~ ~

library(lubridate)

my_data <- ...</pre>

~ ~ ~

DATA

ggplot(data = surveys)

MAPPING

GEOM









http://www.datacarpentry.org/R-ecology-lesson/04-visualization-ggplot2.html



We defined a number of challenges. If you were able to achieve a challenge, add a to r laptop screen.

The objective is that everyone achieves

- Someone has more than you? **Ask for help!**
- Someone has less than you? Provide help!

- Download coding club material and work locally, not in sync with the Google drive



- Create new Rstudio project in the **/STC** folder



- Download coding club material and work locally, not in sync with the Google drive
- Create new Rstudio project in the **src** folder...
- Use relative paths to data files!

```
> library(tidyverse)
```

```
> surveys <- read_csv("../data/20180222_surveys.csv") %>%
filter(!is.na(weight),  # remove missing weight)
```

 (• 10 • 110 (110 1 g)110 / /		2 01110 1 0			
!is.na(hindfoot_length),	#	remove	missing	hindfoot_	length
!is.na(sex))	#	remove	missing	sex	

```
My Drive > INBO coding club > data - 🏔
```

Nam	e ↓
	20180222_surveys.csv
	20180222_survey_data_spreadsheet_tidy.csv
B	20180222_species.csv
	20180123_turbidity_zes07g.txt
B	20180123 stierkikker formulieren reacties.csv 🖶

Starting from:

gAdd following adjustments:

- Map the color aesthetic to the sex variable
- Adjust the transparency (alpha) of the points to 0.5
- Change the y label (ylab) to "hindfoot length"
- Use a logarithmic scale_ for the x-axis
- Change the color scale_ of the points to another scale (pick one yourself)
- Change the general theme_ (pick one yourself)
- Split the graph by each year (facet_wrap)

Other interesting elements to the plot? Add them to the hackmd code snippet!







First,



> tidy_bevolking <- read_csv("../data/20180522_gent_groeiperwijk_tidy.csv")</pre>

- 1. Make a heatmap of the districts of Ghent evolution, with the years in the x-axis and the districts in the y-axis.
- 2. Use a *diverging* color map and remove the x and y labels.





First,



- 1. Make a second plot, called weight_density, showing a histogram of the weights in combination with a density estimate (style as you like). Use the INBO theme.
- 2. Check the <u>cowplot documentation</u> and place both graphs next to each other, labeling as subplot A and B.
- 3. (BONUS) add the <u>coding club logo</u> to the combine graph







ggalt star A compendium of 'geoms', 'coords' and 'stats' for 'ggplot2'. • author: hrbrmstr

tags: visualization, general
 js libraries:



cowplot @ Star

Streamlined plot theme and plot annotations for 'ggplot2'

- author: clauswilke
- tags: visualization, general
 js libraries:



ggExtra 🖲 star

ggExtra lets you add marginal density plots or histograms to ggplot2 scatterplots.

author: daattali tags: histogram, marginal, density js libraries:





author: tags: visualization, general js libraries:









Zaal: Herman Teirlinck - 01.05 - Isala Van Diest Datum: 2018-06-14, van 10:00 tot 12:00

(registratie aangekondigd via DG_useR@inbo.be)