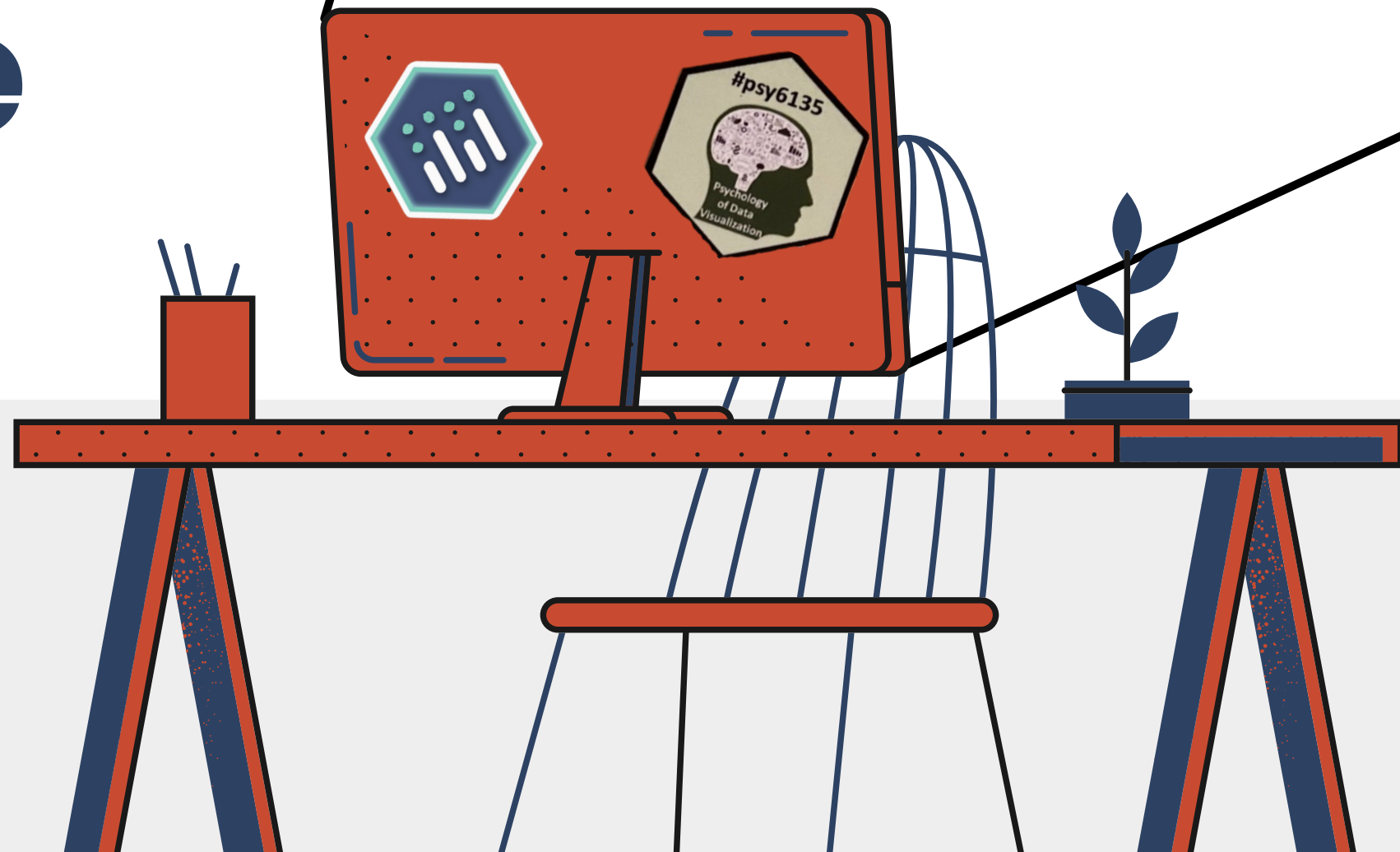
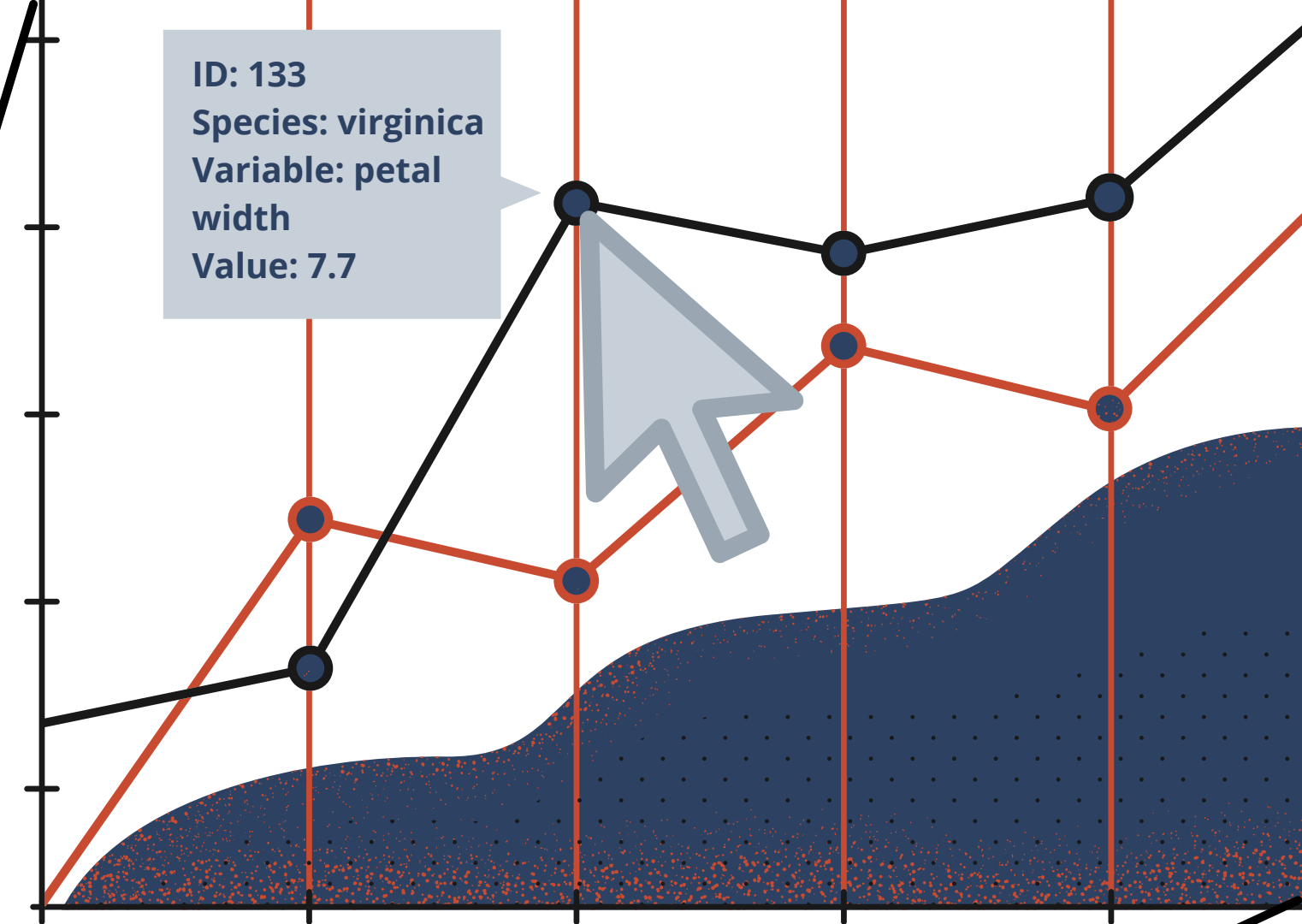


15 March, 2020

# plotly & ggplotly: Going slightly beyond the tidyverse



UDI ALTER

Discussion leader,  
mini presentation

# Plotly? What's Plotly?



## Plotly

Plotly are open source graphing libraries for interactive charts and maps to use in R, Python, Javascript, and more...



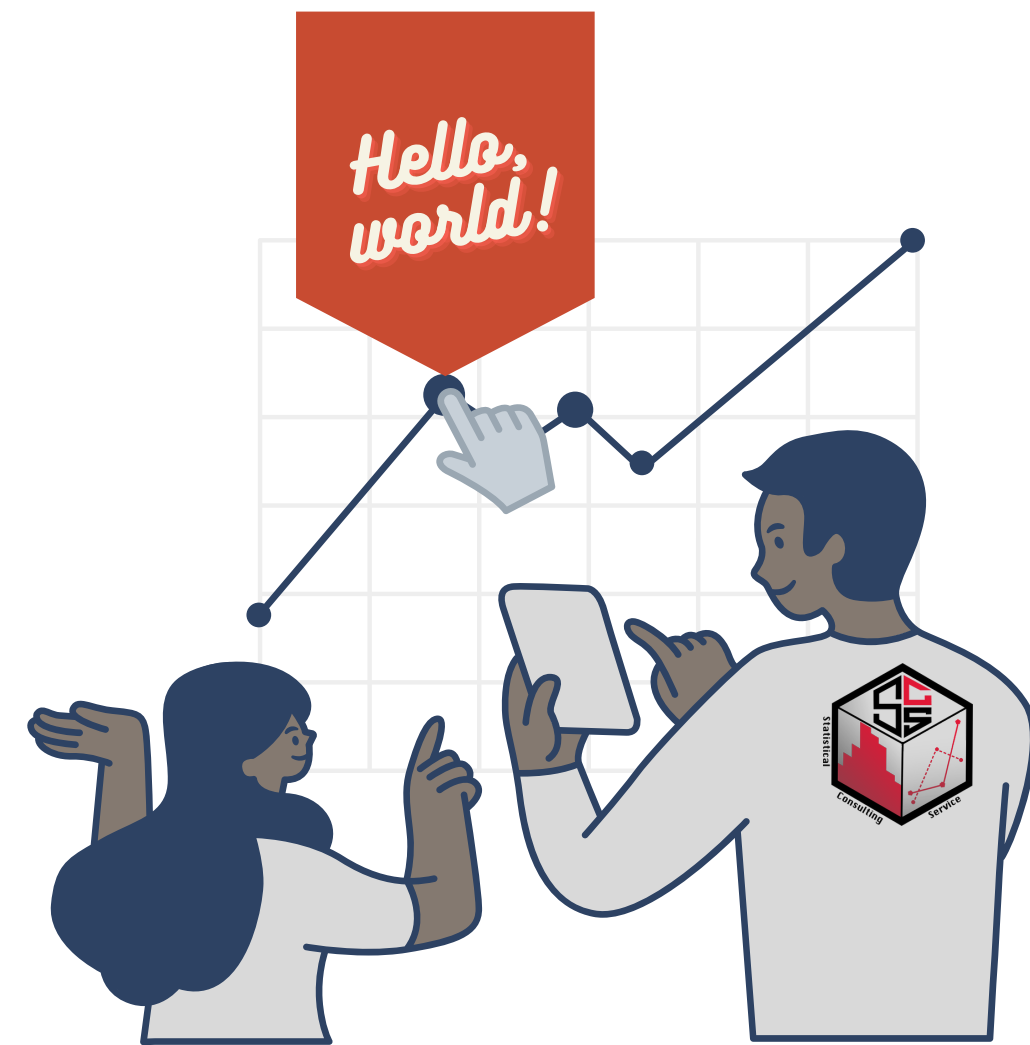
{plotly} an R package

ggplotly

plot\_ly

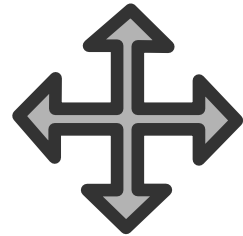
With `ggplotly()`, you can convert your `ggplot2` figures into interactive ones powered by `plotly.js`, ready for embedding into an a dashboard, a Shiny app, HTML, or websites.

With `plot_ly()`, you can create your own graph (from scratch), without relying on `ggplot2` using easy, yet unique syntax.

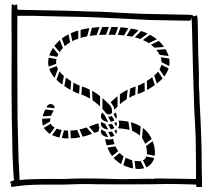




zoom in/out



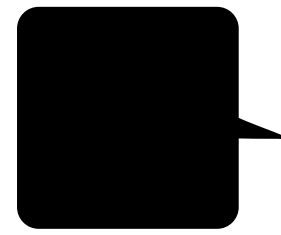
pan over/move



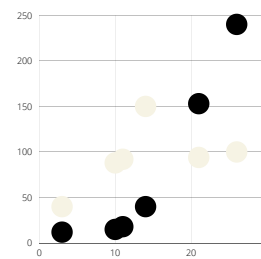
focus only on certain areas



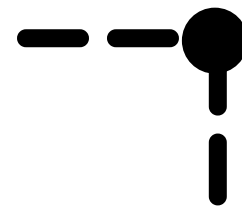
download image as .png file



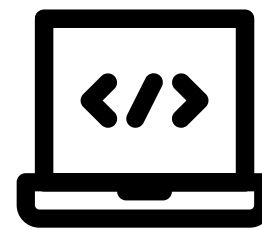
hover to get info on individual data points



de/selecting grouping variables

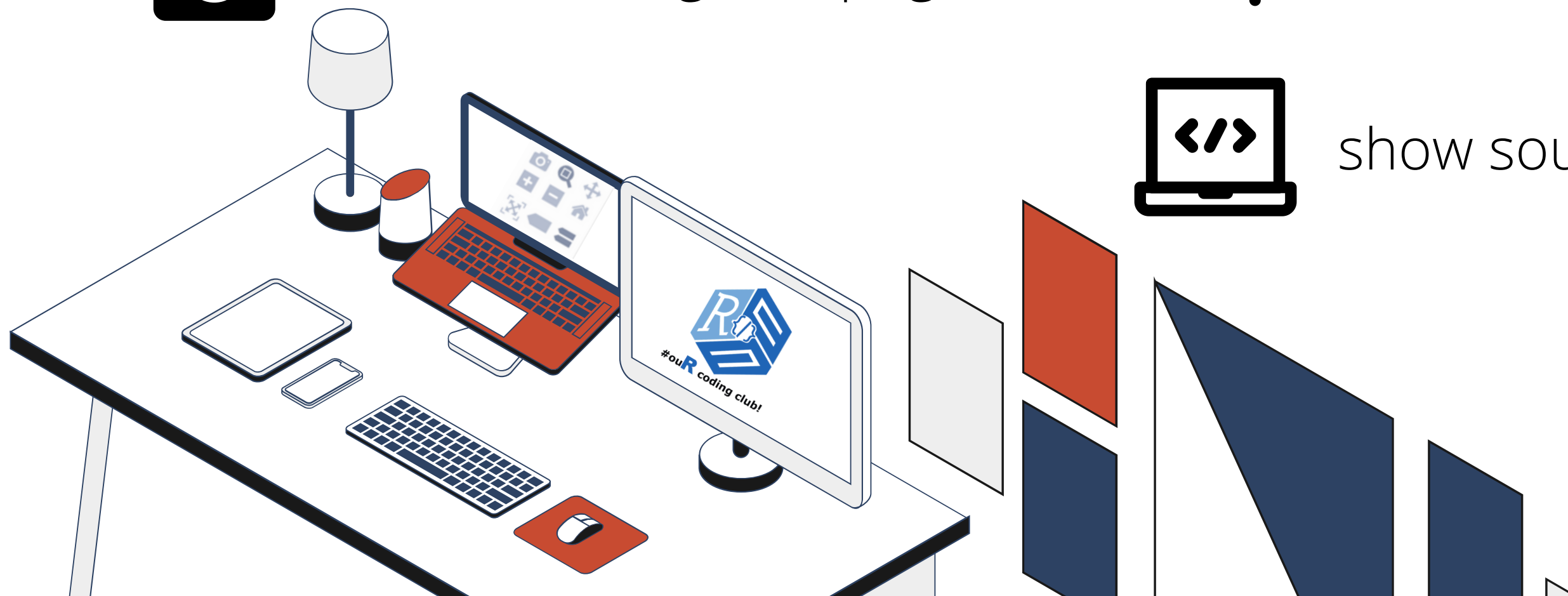


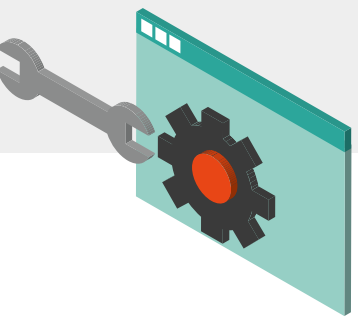
show coordinate lines



show source code

& more...





## #' # Installation

```
1 install.packages("plotly")
#' Or install the latest development version (on GitHub)
#' via devtools:
2 devtools::install_github("ropensci/plotly")
#' make sure you already have ggplot2 installed
```

## #' # Initialization

```
3 library(plotly) #call on the plotly package
4 library(ggplot2) #call on the ggplot2 package
5 library(htmlwidgets) #optional, helpful package
```



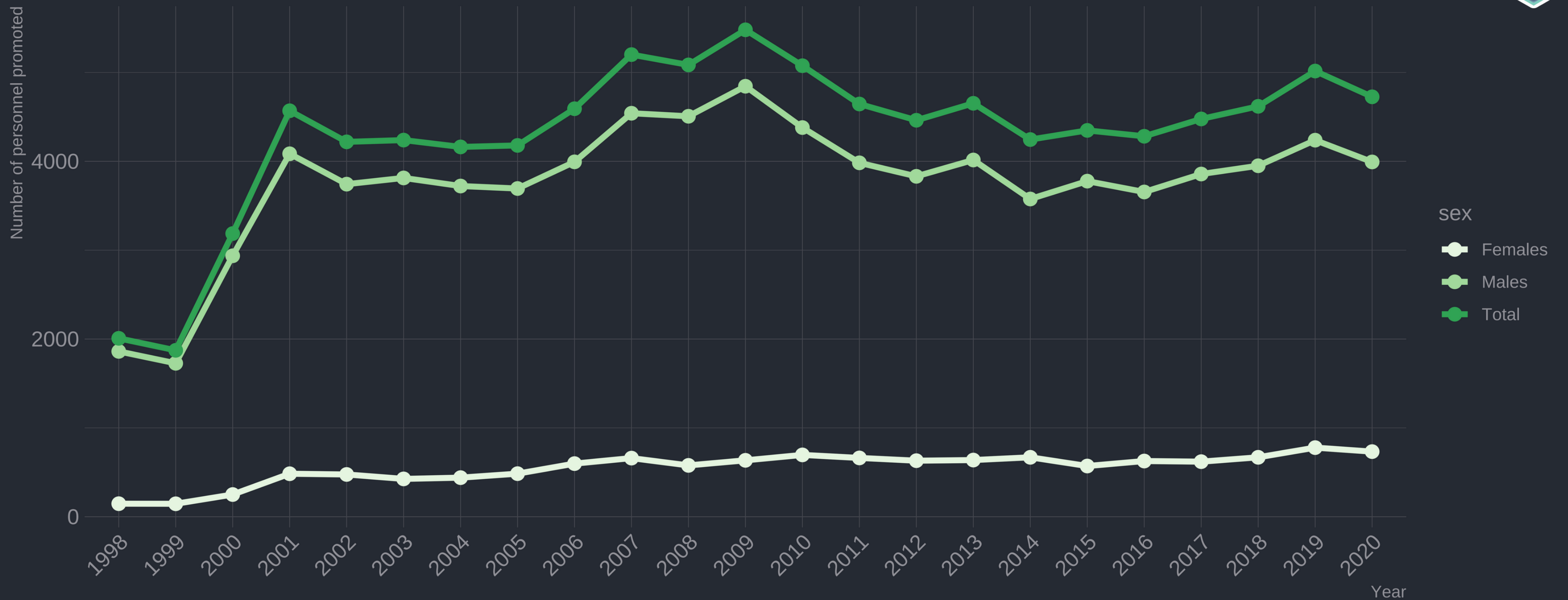
Source code: [github.com/udialter/intro-to-plotly](https://github.com/udialter/intro-to-plotly)

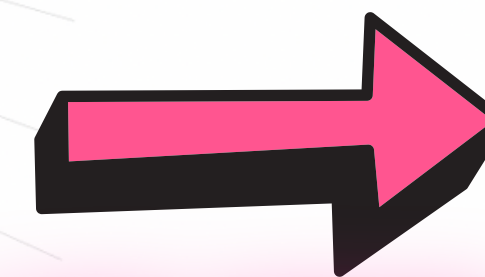
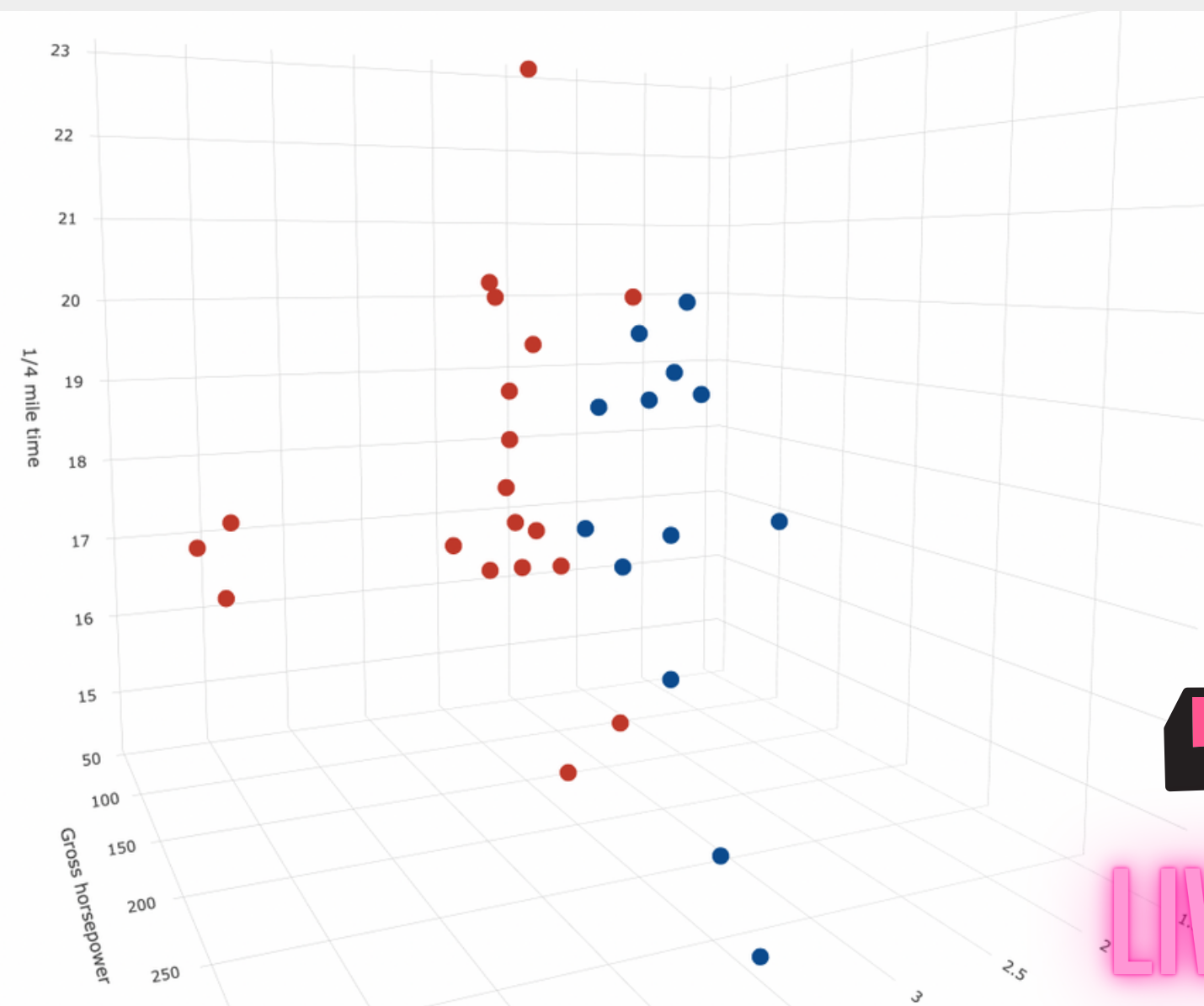
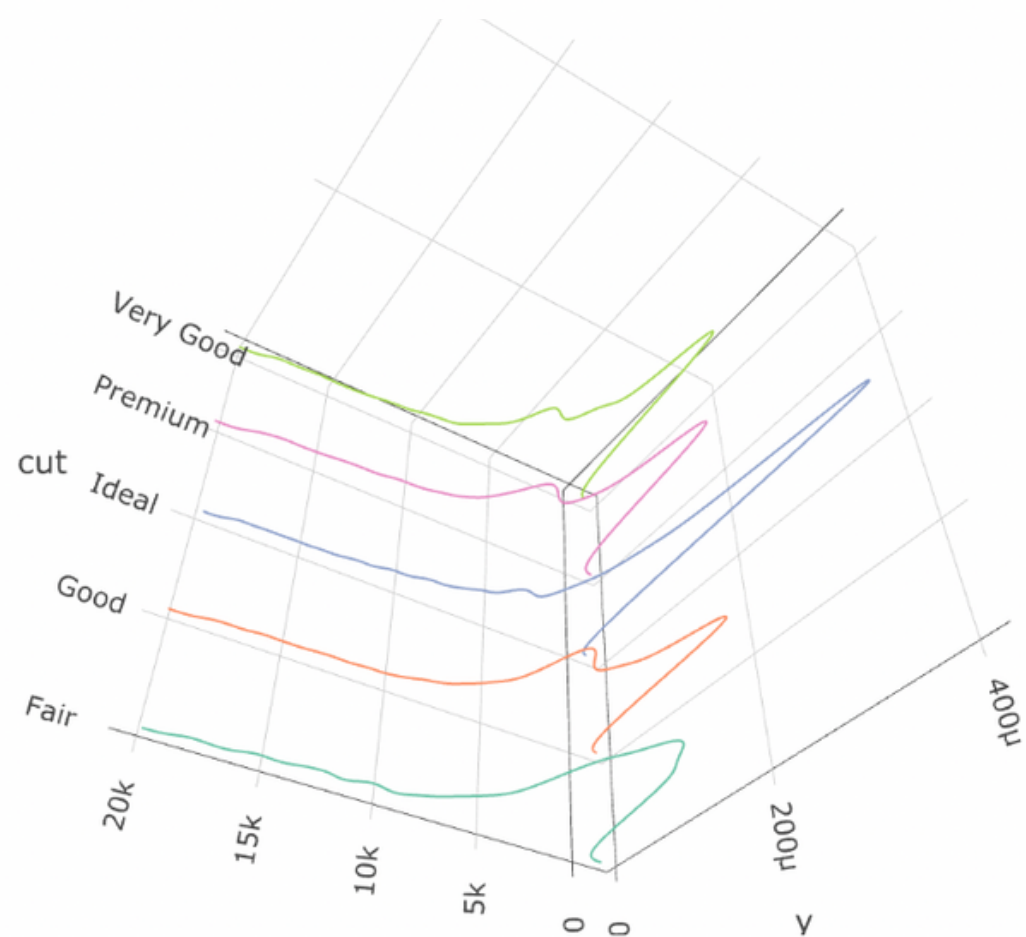
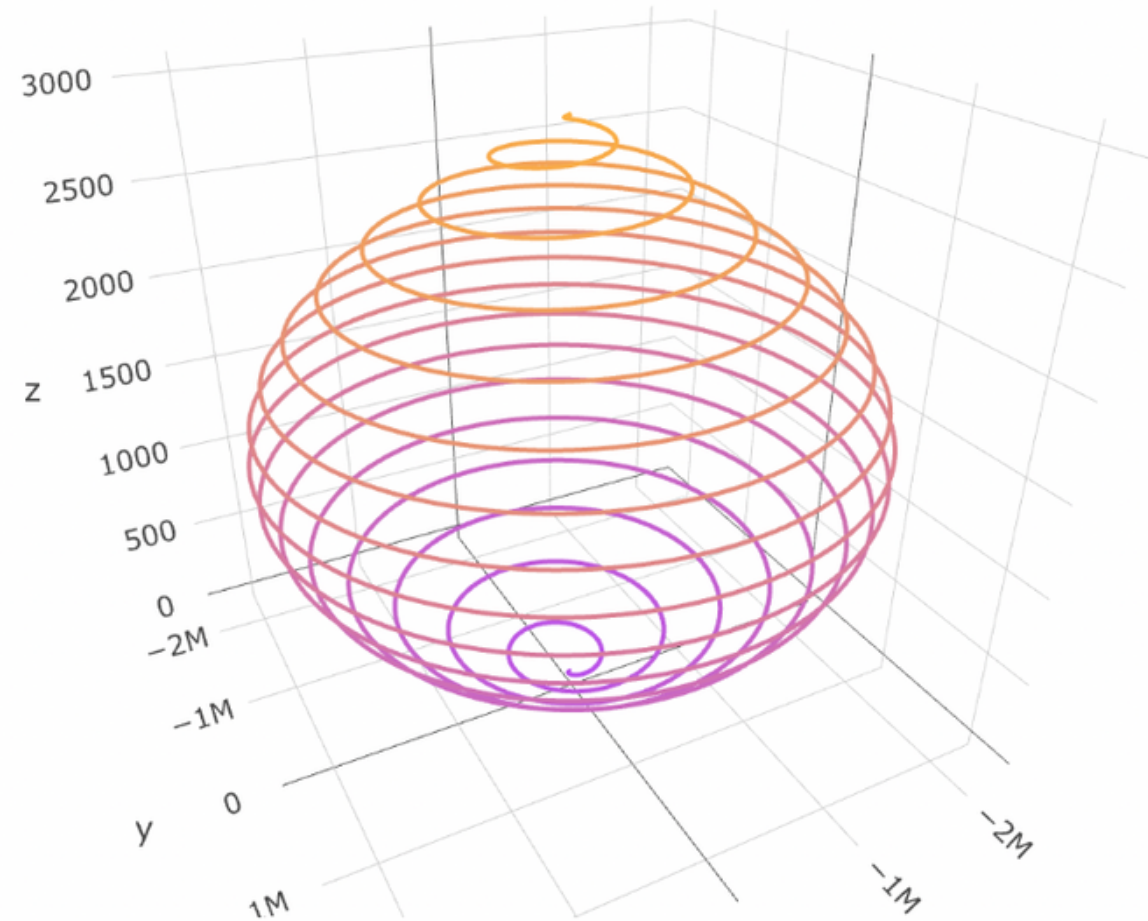
ggplot2-generated plot

Data from: [open.canada.ca](https://open.canada.ca)

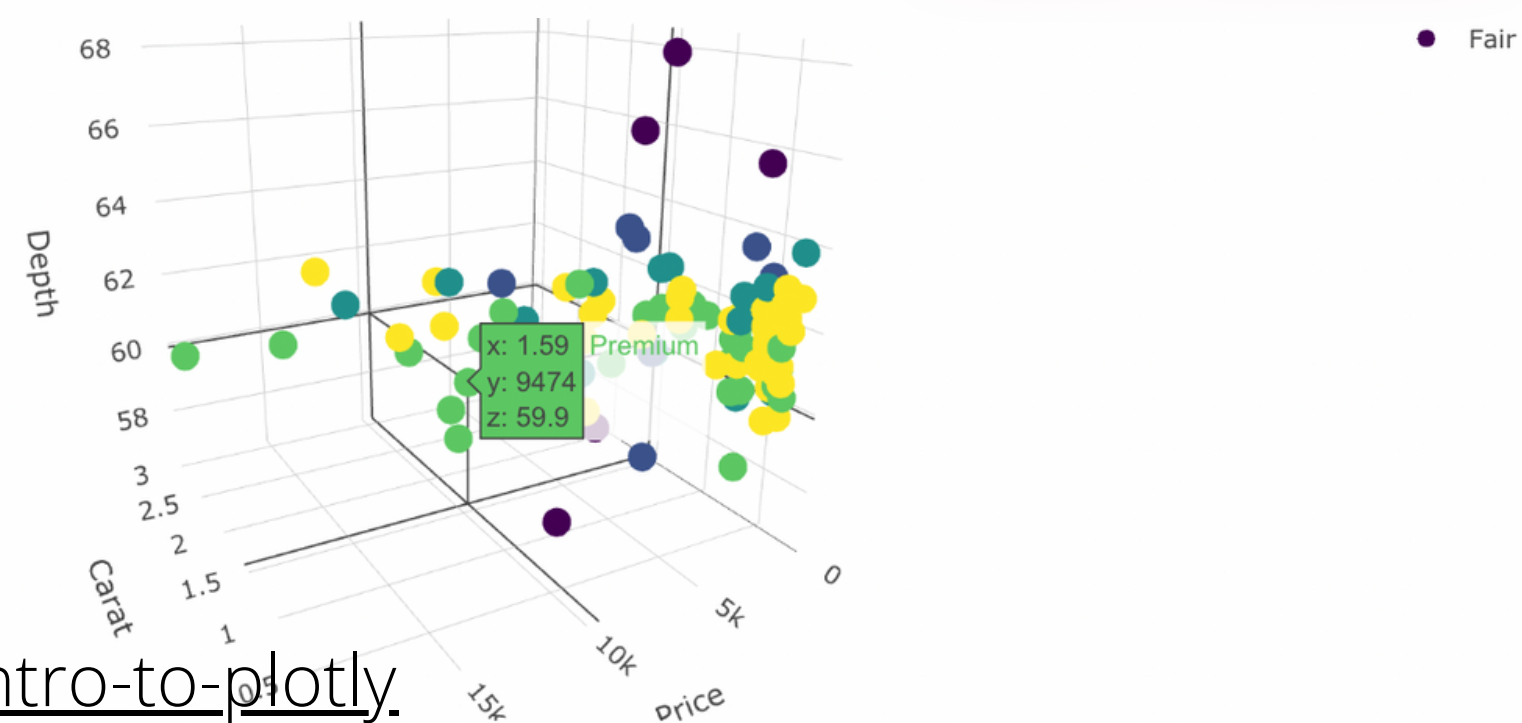


## Canadian Armed Forces Officer Promotions by Sex



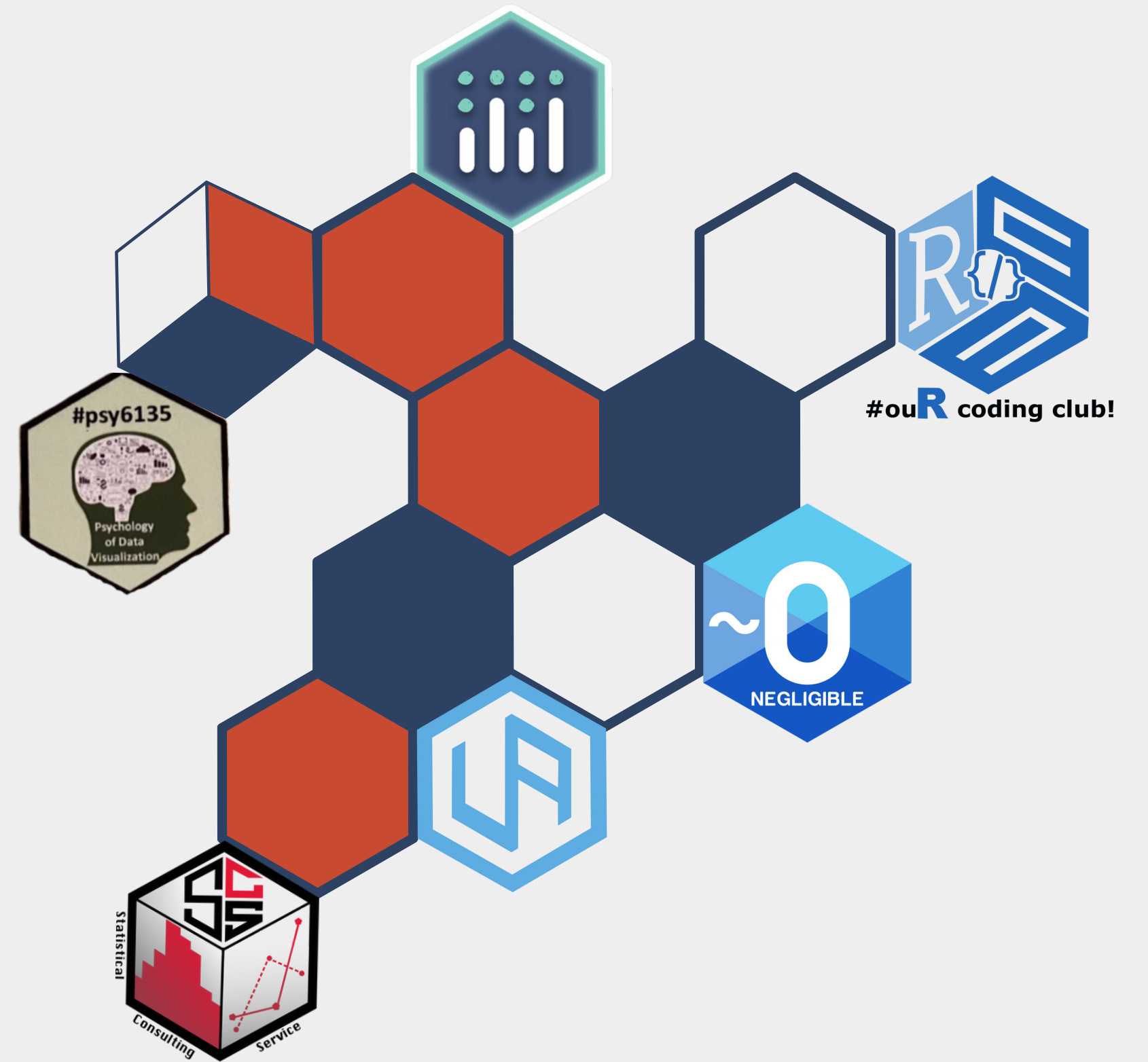
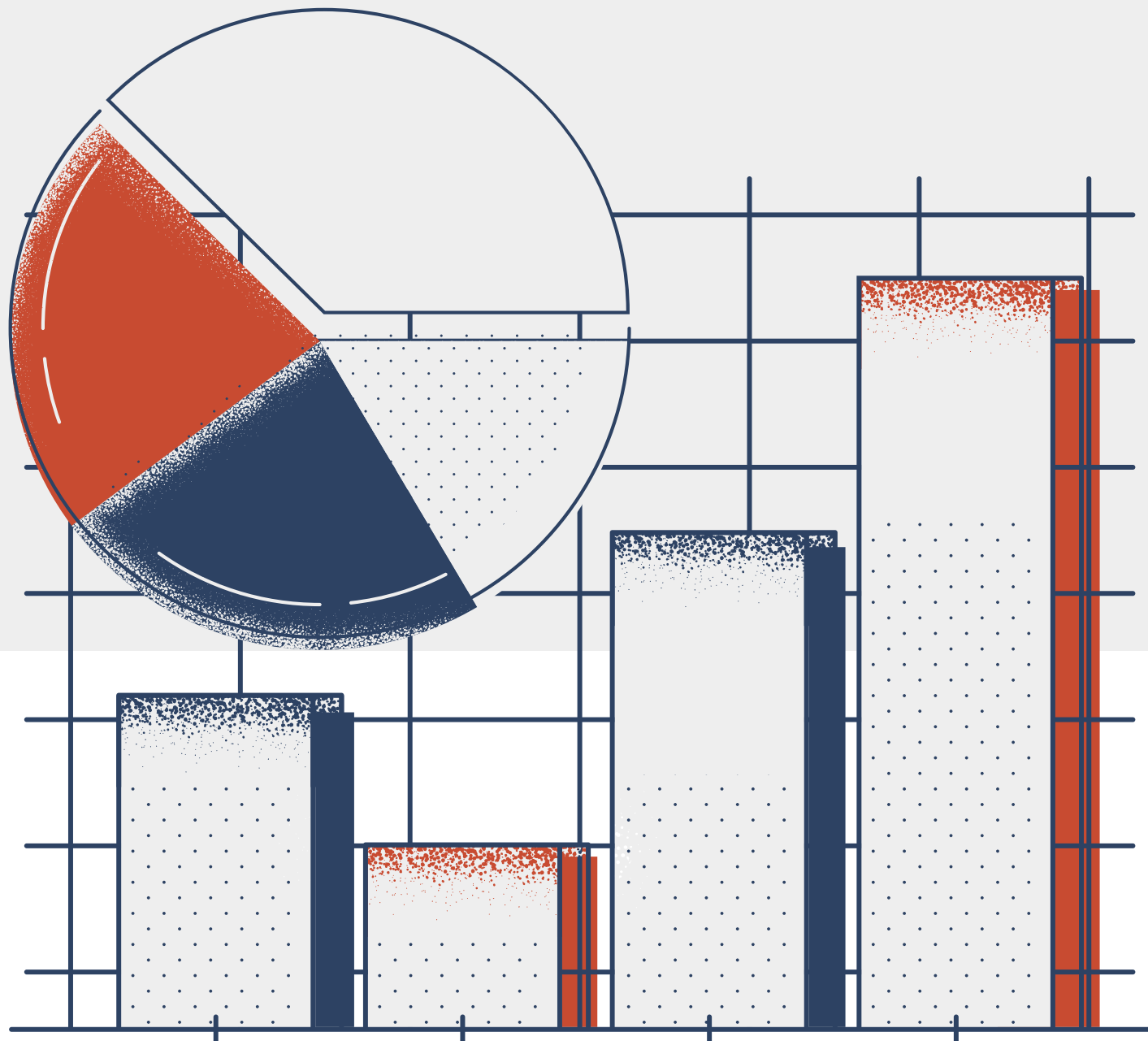


LIVE DEMO



Source code: [github.com/udialter/intro-to-plotly](https://github.com/udialter/intro-to-plotly).

# Thank you!



*get Plot(l)ing!*