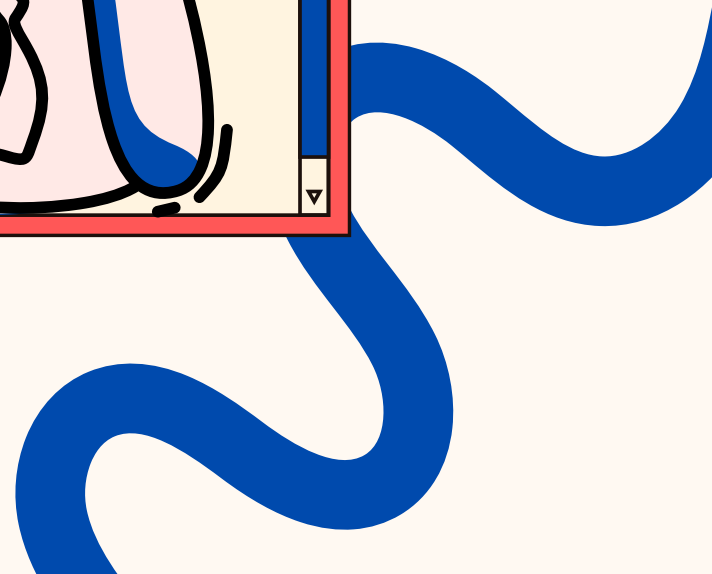
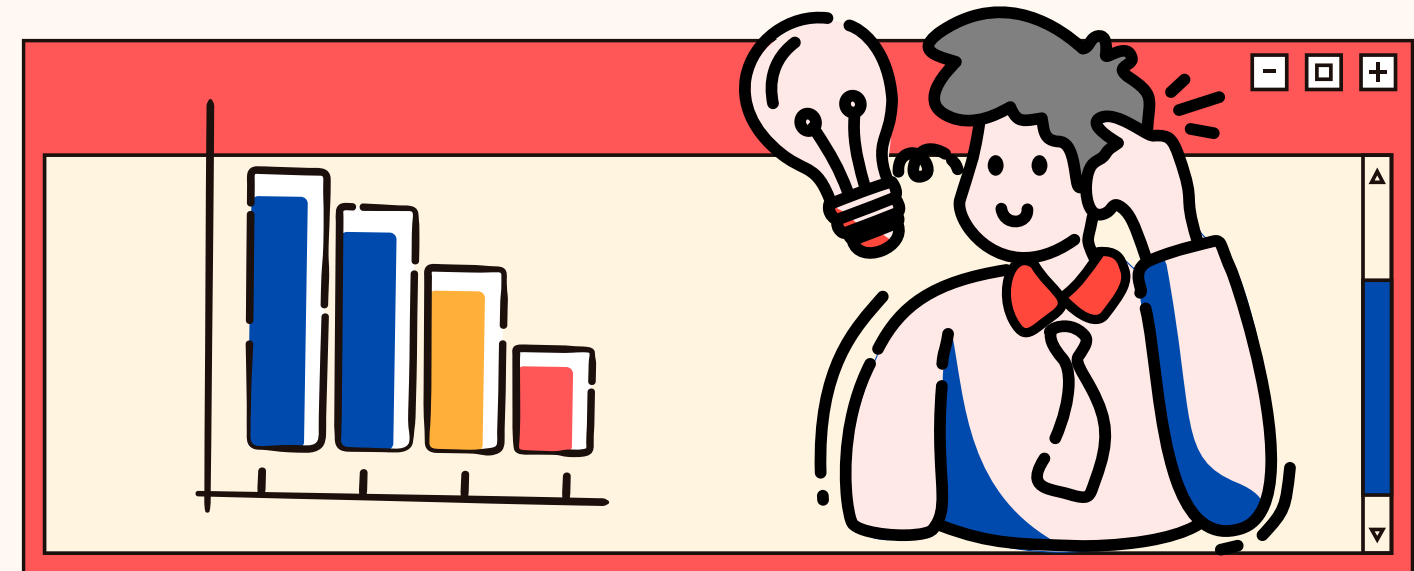


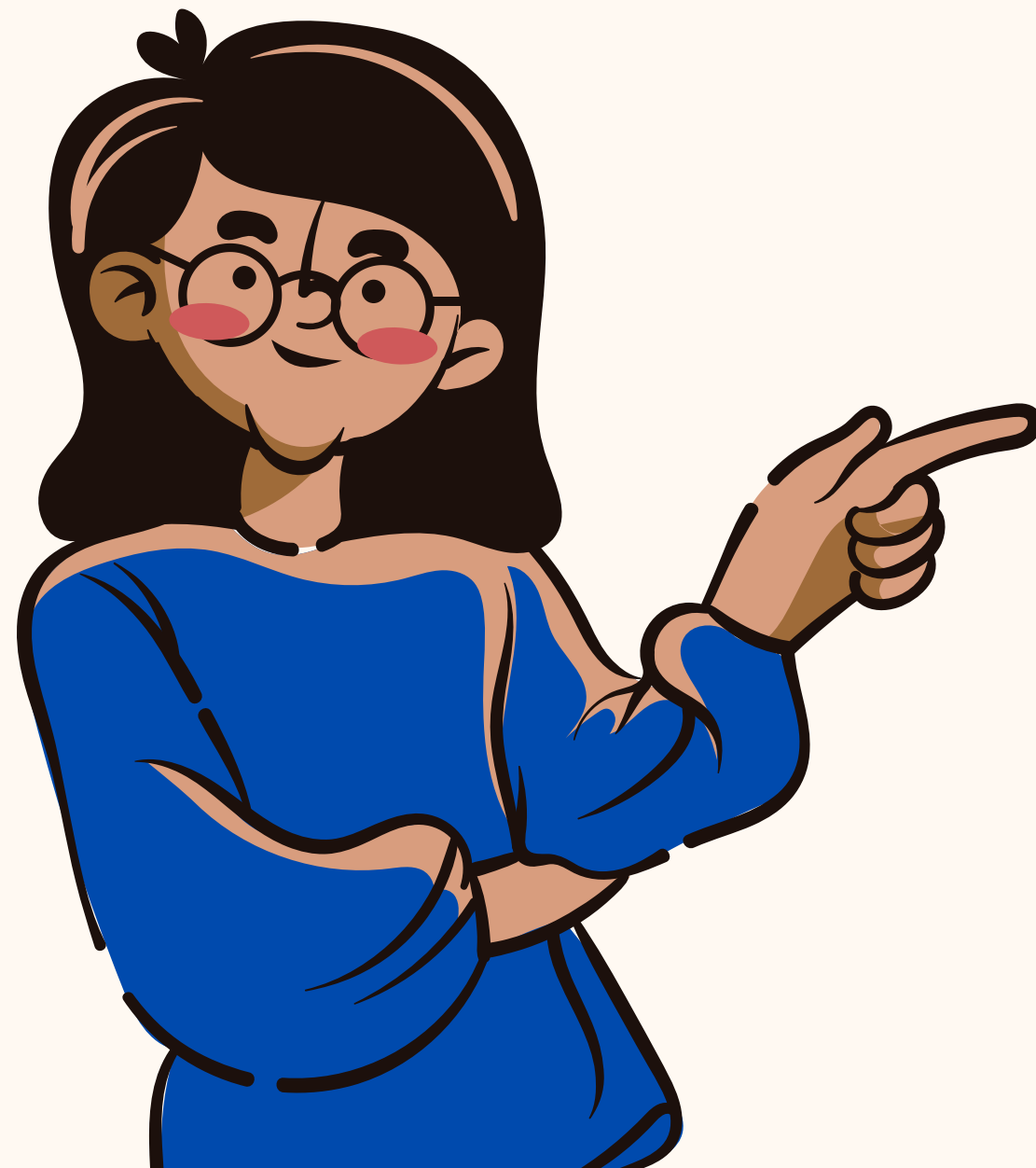
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# Getting Started in R:

Running Analyses and  
Creating Graphs

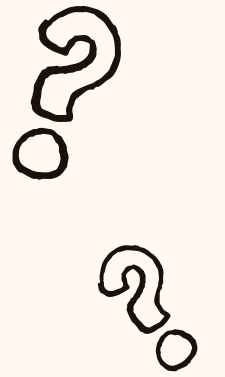
N. J. Jayce Owens-Boone, M.S.  
PhD Student @ UTEP  
Secretary – AP-LS SC  
15 December 2025



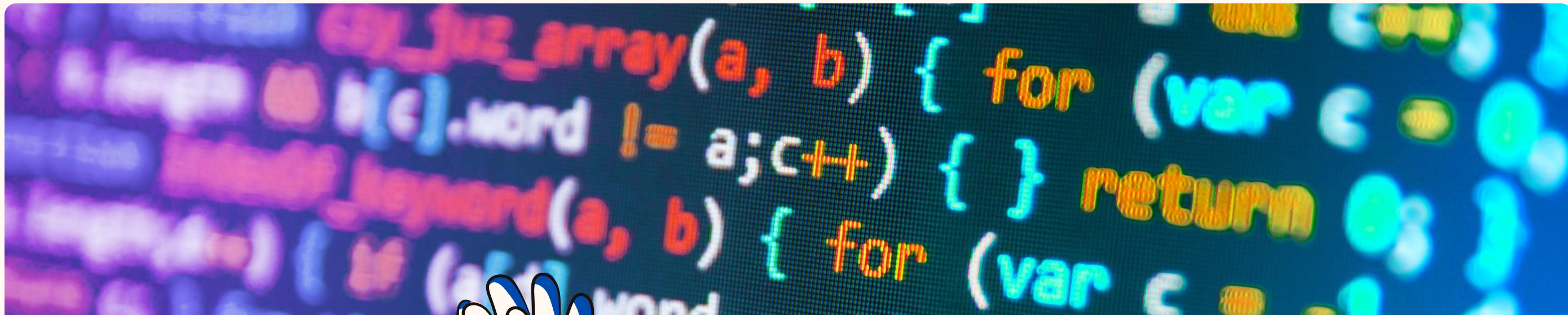


# What We'll Cover Today

- How RStudio works
- How to load and explore data
- How to run basic analyses
- How to make simple graphs
- How to keep your workflow reproducible



<b>R</b>	<b>SPSS</b>	<b>Excel</b>
Free and open-source	Paid, commercial software	Free for most users (Microsoft Office)
Primarily code-based; some graphical interfaces available (RStudio)	Point-and-click with menus for analysis; syntax options	Spreadsheet-based with built-in functions and add-ins
Vast library of packages for endless customization	Customization is possible through scripting but is less flexible than R	Basic functions are easy, but complex tasks are difficult or impossible without add-ins



# To download and install R:



Download R at <https://www.r-project.org/>

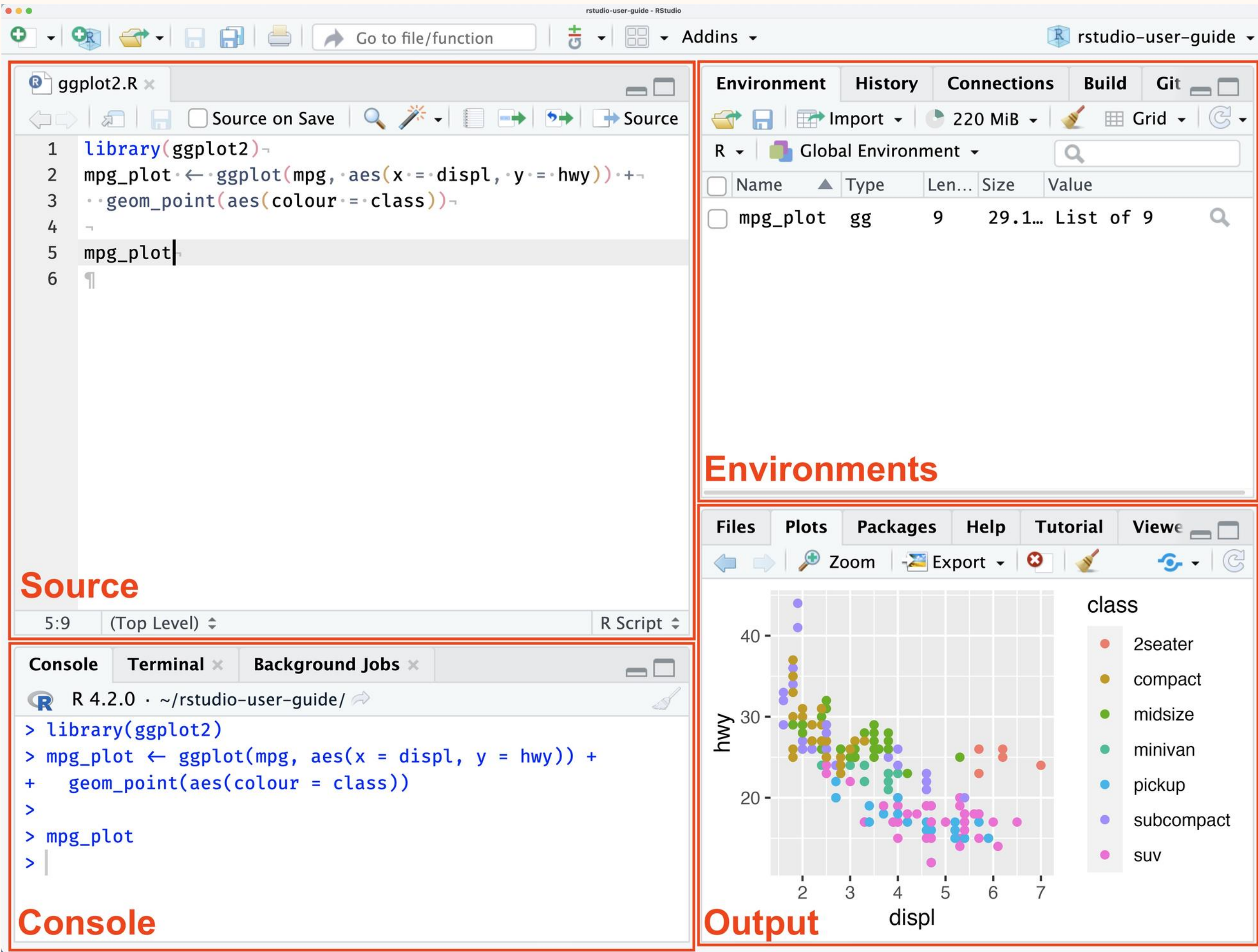
- It doesn't matter what CRAN mirror you choose
- Go through Installation Wizard
- Can use console (but I don't recommend for beginners)

Download RStudio Desktop at

<https://www.rstudio.com/products/rstudio/>

- Go through Installation Wizard
- Provides more extensive environment





## Source

```
1 library(ggplot2)
2 mpg_plot ← ggplot(mpg, aes(x = displ, y = hwy)) +
3   geom_point(aes(colour = class))
4
5 mpg_plot
6
```

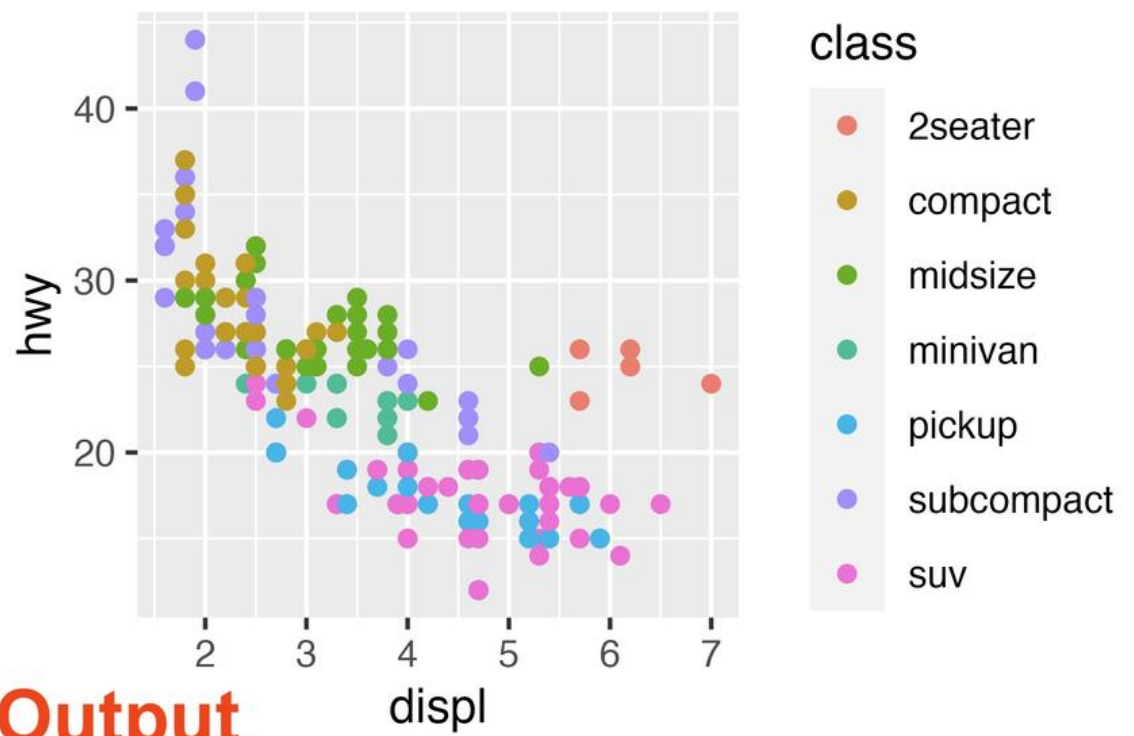
## Environments

Name	Type	Len...	Size	Value
mpg_plot	gg	9	29.1...	List of 9

## Console

```
> library(ggplot2)
> mpg_plot ← ggplot(mpg, aes(x = displ, y = hwy)) +
+   geom_point(aes(colour = class))
>
> mpg_plot
>
```

## Output

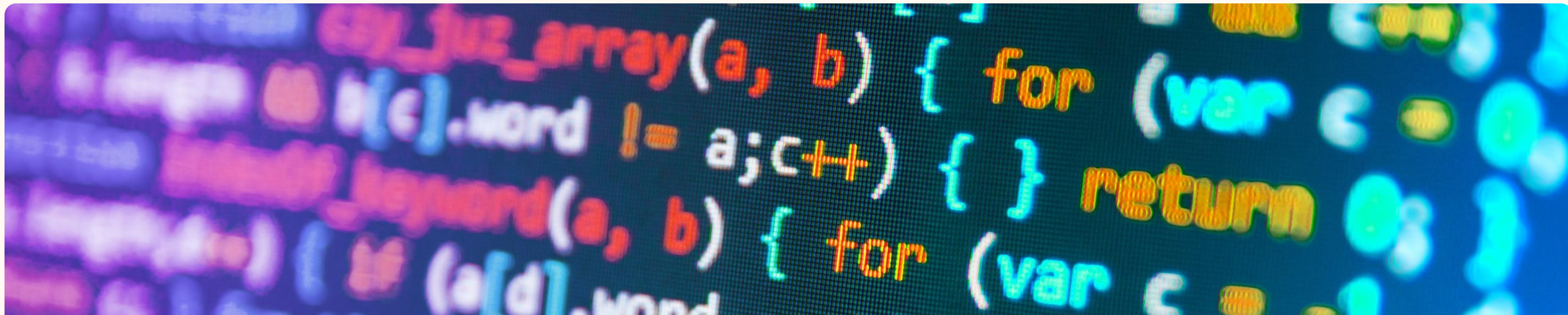




# Meet the Dataset

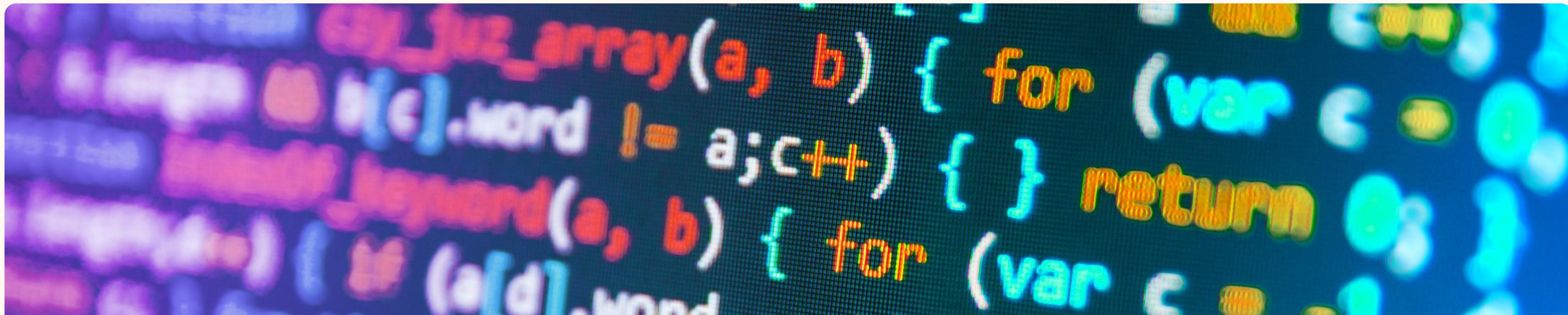
## Perceptions of Police (simulated)

- Vignette condition (positive/negative)
  - Procedural justice
  - Legitimacy
  - Perceived discrimination
  - Cooperation intentions
  - Demographics
-



# The R Workflow

- Load data
  - Explore
  - Describe
  - Test
  - Visualize
  - Save + document
-



# R Resources

- Check this link for some resources:
  - Other resources:
    - Posit Primers (interactive tutorials)
    - R for Data Science (free online book)
    - Tidyverse cheatsheets (data + visualization)
    - UCLA IDRE R guides (stats help)
-



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**Thank You!**

**Questions?**

