

Intro to Data Visualisation II

Lab 3 - Excel & Rstudio



Self-Assessment and Employability

- Assess your Excel skills
- Consider technical proficiencies needed for your career path
- Importance of data skills for employability



Data Analysis Exercise

- Open the collected data in Excel
- Calculate the mean of variables x, y, and z
- Practice basic data manipulation skills



Key Concepts in Research Methods

- Levels of measurement and types of data
- Measures of Central Tendency
- Measures of Variability



Note

These concepts are crucial for understanding research methods, even without advanced math skills.



DataSkills Refreshers

Available resources:

- 1. Types of Data
- 2. Central Tendency and Variability
- 3. Calculating measures by hand
- 4. Visualization cheat sheet



Note

These resources are designed to support you throughout your studies.



Introduction to R, RStudio, and ggplot2

- Powerful tools for data visualization
- You'll become proficient with these tools over time



Literate Coding

- Blending narrative and code 'chunks'
- Creating dynamic documents with:
 - Words
 - Calculations
 - Pictures
 - And more!



RStudioServer

- Access through your browser
- No downloads required
- Capable of serious calculations



Hands-on Exercise

- 1. Log in to RStudioServer
- 2. Upload the dataset
- 3. Load data into an active session
- 4. Upload a template document
- 5. Add interesting content with commentary
- 6. Render to HTML or PDF
- 7. Download and submit to DataSkills



Looking Ahead

- Next week: Open Science
- Following weeks: Mixed and Qualitative Research
- We'll return to R and RStudio later in the term



Additional Resources

- Introductory materials available for R and RStudio
- Practice using your RStudioServer login