R Programming Summer Bootcamp
Week 1: Getting Started with R and RStudio

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Welcome & Agenda

- Introduction to R and RStudio
- Navigating RStudio
- Basic Commands
- Writing and Running Scripts
- Q&A

What is R? What is RStudio?

- **R**: A language for statistical computing and graphics.
- **RStudio**: An Integrated Development Environment (IDE) for R.

Installing R and RStudio

- Download R: cran.r-project.org
- Download RStudio: posit.co/download/rstudio-desktop

Tour of RStudio

- Console
- Script Editor
- Environment
- Plots
- Packages

Console vs Script

- **Console**: Run quick commands.
- **Script**: Save and organize your work.

Your First Commands

```
2 + 2
5 * 3
(10 - 3) / 2
```

Creating Variables

```
x <- 5
y <- 10
z <- x + y
```

Creating a Vector

```
numbers <- c(1, 2, 3, 4, 5)
numbers
```

Saving Your Script

- Write code in the script editor.
- Save your script with `.R` extension.
- Use Ctrl + S (Windows) or Cmd + S (Mac).

Recap

- R and RStudio basics
- Console vs Scripts
- Basic commands and variable creation
- How to save your work

Homework (Optional)

- Run five arithmetic commands in the Console.
- Create three variables and combine them.
- Create and print a vector of five numbers.