

# 1. Introduction to R

Due Week 1

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F2025

## Readings

- Read the course syllabus (all parts of [this website](#))
- Recommended reading:
  - **FCSP** chapter 1, *or*
  - **PSDS**, chapter 5 *or*
  - **RDS**, introduction

## Data & Computational Work

The main purpose of this week's assignment is to get your computer ready for all the work in the class. This means, primarily, installing software.

### Install R on your computer

Begin by installing R (<http://cloud.r-project.org>). Choose the version appropriate for your computing platform:

- If you use macOS with an Apple Silicon processor (i.e. an M-series processor), then install [R for macOS's Apple Silicon build](#). This version does not work on older, Intel-based Macs.
- If you use macOS with an Intel processor, then install [R for macOS's Intel build](#).
- If you use Microsoft Windows, then install [R for Windows](#).
- If you use Linux, [choose your distribution](#) and install the R package for it.

## Install RStudio on your computer

- If you use macOS (whether Apple Silicon or Intel), [install this version of RStudio](#).
- If you use Windows, [install this version of RStudio](#).
- If you use Linux, [choose your distribution from the download page](#).

## Confirm things work

- R is really a great big calculator. Let's do some calculations!
  - Add 2 and 3 together
  - Multiply 4 by 6
  - Divide 10 by 5

## Submit: .R File (Optional)

In an .R file, write code to answer the following questions. Make sure your file is appropriately titled and headered.

*Note: You can submit this R file in Week 2, if you prefer.*

1. Create an object named `aardvark` that stores a 3 as a single number
2. Create a second object named `boomba` that stores a 6 as a single number
3. Create a third object named `centauri` that is the addition of `aardvark` and `boomba`
4. Create a fourth object named `diabolical` that is the multiplication `aardvark` and `boomba`
5. Create an object named `ebullient` that stores three numbers as a vector: 4,5,and 6
6. Create an object named `fastidious` that stores three numbers as a vector: 8,9, and 11
7. Add `ebullient` and `fastidious` together, and store it in an object named `george`
8. Find the mean (average) of `fastidious`, and store it in an object named `zoinks`

## Submit: PDF file

Answer the following questions and upload as a PDF to Blackboard.

1. What is your name and program of study at Syracuse?  
(*Optional: provide your pronouns, if you wish.*)
2. What is your prior experience with statistics, data analysis, R, and computer programming generally?
3. What are you hoping to get out of this class?

4. Please include a picture of yourself!
  - It can be anything – just make sure that you are the only person in the picture so I can clearly identify you.
5. What is the mean of the `fastidious` object from your .R assignment above?