

Intro to R

USC SPEC Lab Summer 2020



The goal: In this module, you will learn the basics of R--why it works, and how we use it. We will start with an overview of R for the social sciences. Then we go over what data looks like in R, how to perform basic operations on it, and how to save it on your computer. By the end, you should be familiar with vectors, objects, and arithmetic

1. Introductory Videos

[Introduction to R: The Big Picture](#)

[Introduction to Vectors, Objects, & Commands](#)

[Introduction to Working Directories](#)

- setting and getting working directories

2. Walk Through Work

Start Here! Intro to R

Calculations & Operations

Vectors

3. Group Work

The Swiss Stock Market Exercises

4. External Resources

- Download R from: <http://www.cran.r-project.org>
- Download Rstudio from: <https://www.rstudio.com/products/rstudio/download/>
- Outside Viewing: "001 How to download and install r"
(<http://www.twotutorials.com/>)
Also from Twotutorials: 008; 010; 013; 014; 015
- "Creating new variables" (<http://statmethods.net/management/variables.html>)
- "Data Types" (<http://statmethods.net/input/datatypes.html>)
- "Factors" (http://www.cookbook-r.com/Manipulating_data/)

- We also recommend the following exercises via Swirl:
- Install swirl (<http://swirlstats.com/students.html>) on R
- We recommend: “R Programming”: lessons 1 (Basic Building Blocks); 2 (Workspace and Files); 3 (Sequences of Numbers); 4 (Vectors); 6 (Subsetting Vectors); and 7 (Matrices and Data Frames).