

Lesson 2 Getting Started

Goals for Today

- Getting R and RStudio installed and functioning for everybody
- Discussing why we're using R vs. other programming languages (like Python)
- Some example analyses

Readings for Today

Required

- Peng, [R Programming for Data Science - Chapter 2, History and Overview of R](#)
- OpenIntro to Statistics, Sections 1.1 and 1.2
- Ziemann et al., [Gene name errors are widespread in the scientific literature](#), *Genome Biology* (2016) 17:177 DOI 10.1186/s13059-016-1044-7
- Alex Hern, [Covid: how Excel may have caused loss of 16,000 test results in England](#), *Guardian*, Oct. 2020

Optional

- Hugo Bowne-Anderson, [What Data Scientists Really Do, According to 35 Data Scientists](#), *Harvard Business Review*. 15 Aug. 2018
- Knuth, Donald E., [Computer programming as an art](#), *ACM Turing award lectures*. 2007.
- Thomas Herndon, Michael Ash and Robert Pollin, [Does high public debt consistently stifle economic growth? A critique of Reinhart and Rogoff](#), *Cambridge Journal of Economics* 2013, 1 of 23 (Sections 1 and 3)
- Cassidy, John, [The Reinhart and Rogoff Controversy: A Summing Up](#), *New Yorker*, 2013
(Note: this may be useful background reading for the paper above)

Important Links and Files

- [R: The R Project for Statistical Computing](#)
- [The Comprehensive R Archive Network \(CRAN\)](#)
- [R Studio](#)
- [Install R on Windows - YouTube Instructions](#)
- [Install R on Mac - YouTube Instructions](#)