

(Flash) Introduction to R

David John Baker @davidjohnbaker
@minerva_stat

MINERVA
STATISTICAL CONSULTING



Who Am I?

Researcher, Educator, Data Scientist

Course Objectives

Objectives/Syllabus

- I. Understand Basics of R/RStudio Environment and Basic Good Code Practice
- II. Be able to run basic commands using base R
 - A. Understand basic data types
 - B. Learn how to index data in R
 - C. Able to import and export data from R
- III. Be able to do simple data manipulations using the tidyverse
 - A. Be able to explain what is tidy data
 - B. Be able to explain the main five tidyverse verbs
 - C. Perform basic exploratory data analysis using the tidyverse
- IV. Modeling
 - A. Understand the basics of plotting with ggplot2 for data visualization
 - B. Understand the basics of running models and simple statistical tests in R

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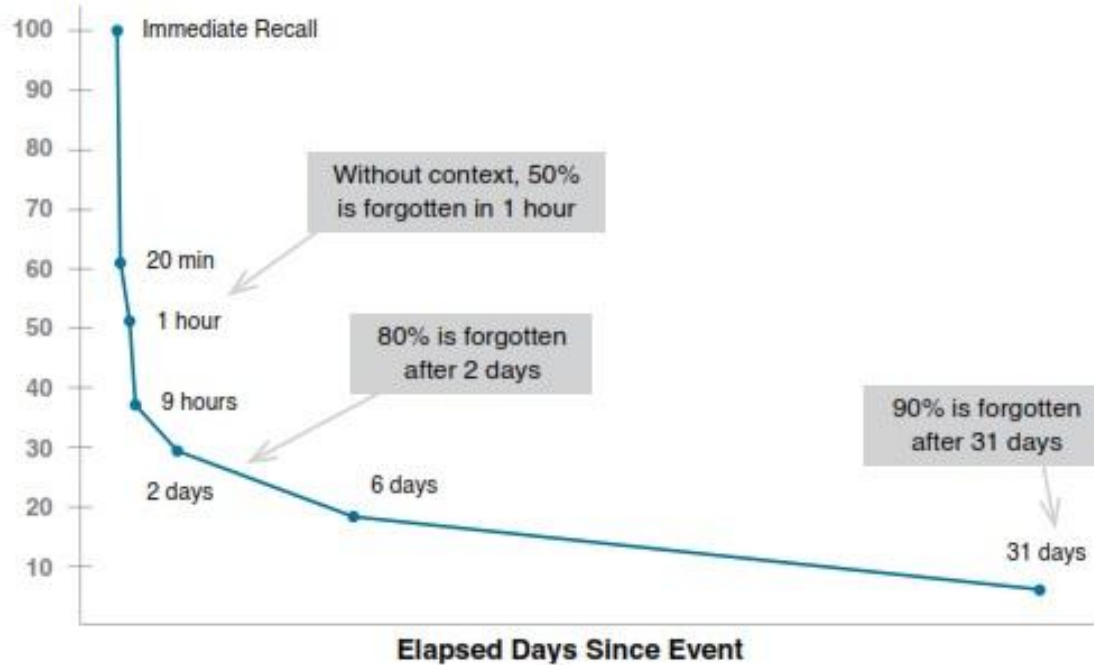
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Important teaching caveats

- This is not an exhaustive summary of basics in R
 - (see Advanced R <http://adv-r.had.co.nz/>)
- This IS meant to be hands on learning
- This course assumes ZERO prior programming experience and some familiarity with basic statistical concepts (mean, standard deviations, prediction, basic probability)
- This course assumes SOME familiarity with data and spreadsheets
 - (Google Sheets, LibreOffice Calc, Microsoft Excel)
- In order to be successful, just ask ask that you ask as many questions as possible and learn to love the process

The Forgetting Curve

Retention (%)



Forgetting Curve -- img via

<https://elearningbrothers.com/blog/how-to-make-sticky-elearning-content/>

Peer Introductions

