

ESRM 6990V: Advanced Seminar - Intro to R

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1 Web Books

1. Introduction to Data Science Part I - Data Wrangling and Visualization with R by *Rafael A. Irizarry*
2. Introduction to Data Science Part II - Statistics and Prediction Algorithms Through Case Studies by *Rafael A. Irizarry*
3. R for Data Science - Visualize, Model, Transform, Tidy and Import Data by *Hadley Wickham & Garret Grolemund*
4. Yet Again: R + Data Science by *Albert Rapp*
5. Happy Git and GitHub for the useR by *Jennifer Bryan*
6. R Programming for Data Science by *Roger D. Peng*

2 R Community

1. RWeekly.org

3 Publications

4 Outline

1. R Basics
2. Data Visualization
3. Data Wrangling
4. Productive Tools

5 Why ITDS?

This book is free and comprehensive for a broad R tasks of data analysis. For example, the book covers R programming (**basics of R**), data wrangling with **dplyr**, data visualization with **ggplot2**, file organization with **Unix/Linux shell**, version control with **Git/Github**, and reproducible document preparation with **Quarto** and **knitr**.

6 Schedule

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