

# Data Management

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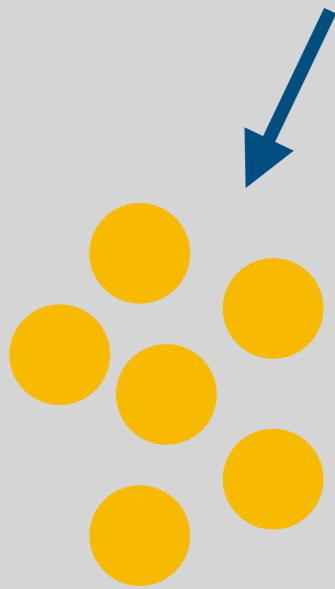
Spring 2019

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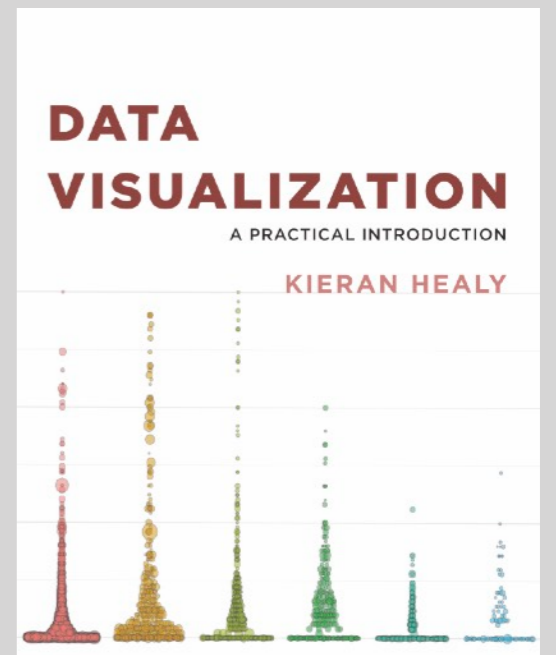
motivation

# What I wanted to happen

Intrepid  
Students

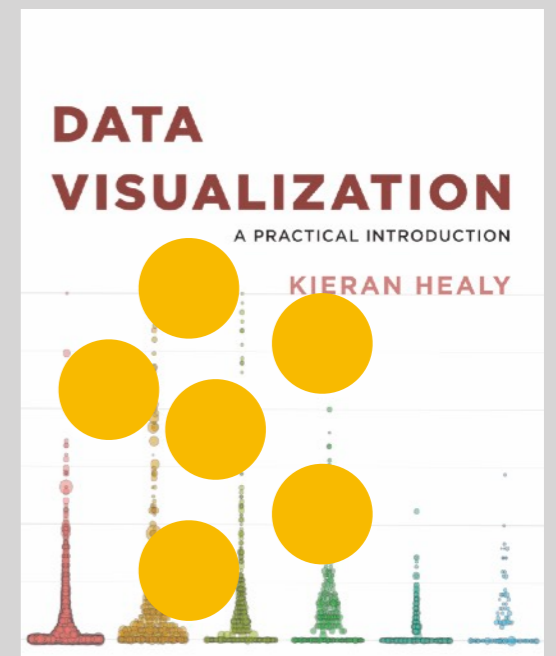


Dataviz  
Nirvana



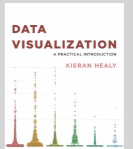
# What I wanted to happen

Dataviz  
Nirvana



# What happened

Dataviz  
Nirvana



Frustrated  
Students





Hence...

# The Plain Person's Guide

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## to Plain Text Social Science

**Kieran Healy**

This mini-seminar offers an opinionated but non-dogmatic overview of tools and techniques you can use when doing quantitative or mixed-methods social science research. To put it another way, we'll learn about ...

# The Plain Person's Guide

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to Plain Text  
Social Science

Kieran Healy

**THE BITS  
EVERYONE  
SKIPS**



# Potential Topics: Outside of R

- Why don't I have secure, incremental, automatic, off-site backups?
- How does my computer work, like, in general?
- What is the shell? Why do I need it?
- Why should I use plain-text tools?
- What are some handy Unix-y things I can do, specifically?
- How do I use Git and GitHub?
- How do I organize paper- or chapter-sized projects?
- What if my advisor wants to read papers in MS Word?

# Potential Topics: Inside of R

- How do I get my data into R? `readr`, `foreign`
- What's good name hygiene? `janitor`
- What's good code style? `lintr`
- How should I deal with factors and so on? `forcats`
- How do I clean data in R? What are some things to watch out for? `stringr`
- How do I manage missing data in R? `naniar`, `visdat`
- How do I reshape data? `tidyr`
- How do I manipulate, summarize, and extend my data? `dplyr`

# Tools

**R, R Studio**

**git, GitHub**

**bash, shell utilities**

# Install R, R Studio, git, and GitHub

<https://happygitwithr.com>