Curriculum Overview

Week 1

Day 1

- R: basics; atomic vectors; simple functions
- Data science: UN infant mortality data & Galton height data; simple linear regression, plotting results, adjusted R-squared
- Work order: `r-basics.pdf`, `r-atomic-vectors.pdf`, `r-intro-functions.pdf`, `linreg-undata.pdf`, `linreg-galton.pdf`

Day 2

- R: names, lists, data frames; subsetting; miscellaneous exercises
- Data science: Galton height data, States data, MCAS data, etc.; more linear regression, stepwise regression, corrplot
- Work order: `r-names-lists.pdf`, `r-subsetting.pdf`, `r-misc-problems.pdf`

Day 3

- R: attributes, factors, matrices
- Data science: simulated data about regressions
- Work order: `simulated-data-regressions.pdf`, `r-attributes-factors-matrices.pdf`

Day 4

- R: functional programming
- Data science: problems from Gelman and Hill
- Work order: `r-functional.pdf`, `r-functional-2.pdf`

Day 5

- R:
- Data science:

Week 2

Day 1

Day 2

Day 3

Day 4

Day 5

Week 3

Day 1

Day 2

Day 3

Day 4

Day 5

Week 4

Day 1

Day 2

Day 3

Day 4

Day 5

Week 5

Day 1

Day 2

Day 3

Day 4

Day 5

Week 6

Day 1

Day 2

- dplyr
- ggplot2
- memoise
- pryr?
- evaluate?
- GGally
- profvis
- knitr