		Readings	Lecture	Quiz	Assignment
Week 1					
T	27-Aug		Intro to the class, What is data, data structures		R and Rstudio refresher/ data structures
At Home		Broman and Woo (2017)	Collecting and recording data in a reproducible way, metadata		Making Data sheets for the field versus analysis
Week 2					
T	3-Sep	Lowndes et al. 2017 (Nature Eco Evo)	What is reproducible research and why is it important?	1	Tools for reproducible research (Github)
At Home		R4DS Ch4, Ch6	Reproducible scripts and workflow/importing data		Set up your file structure and make a script
Week 3					
T	10-Sep	Healy Ch 1, R4DS Ch 3	What makes a good visual?	2	Practice with ggplot
At Home		Wilke Ch 1-5	Visuals part 2		More ggplot
Week 4					
T	17-Sep	R4DS Ch 5, Ch 11	Data Wrangling part 1 (group_by, filter, select, summarise, mutate)	3	Practice with dplyr
At Home		R4DS Ch 12, 18	Data Wrangling part 2 (tidyr - pivots, separate, unite)		Practice with tidyr
Week 5					
T	24-Sep	R4DS Ch 13	Relational data	4	Practice different types of joins
At Home		R4DS Ch 16	Dates and times (lubridate)		Practice with dates and times
Week 6					
T	1-Oct	R4DS 27,29	Intro to Rmarkdown	5	Practice with Rmarkdown
At Home			Rmarkdown part II		Practice with Rmarkdown
Week 7					
T	8-Oct	Wilke Ch 15, Healy Ch 7	Working with spatial data and making maps	6	Make a map/ Good plot/Bad plot lab Directions
At Home			Working with spatial data and making maps part II		
Week 8					
T	15-Oct	R4DS Ch 14,15	Working with strings and regex	7	Working with words
At Home			Fun advanced plotting (gganimate, etc)		

T	22-Oct	R4DS 19	Functional programing	8	Final project proposal due/write a function
At Home			Working with factors		
Week 9					
T	29-Oct		**Goodplot/Badplot presentations**	9	
At Home			TidyTuesday Plot		
Week 10					
T	5-Nov		Election Day - No class Go Vote		Work on independent project
At Home			TidyTuesday Plot		
Week 11					
T	12-Nov	Mastering Shiny Ch1	Intro Shiny apps	10	Shiny apps
At Home			TidyTuesday Plot		
Week 12					
T	19-Nov		How to ask for help (googling, stack overflow, and Reprex)	11	Make a reprex
At Home			TidyTuesday Plot		
T	26-Nov		Work on Independent Project	12	No in person class, Thanksgiving week
At Home			TidyTuesday Plot		
Week 13					
T	3-Dec	R4DS Ch 21	Iterative data (for loops and map functions)	13	Practice loops, etc
At Home			TidyTuesday Plot		
Week 14					
T	10-Dec		Models part 1 and 2 (many models with broom) - Final presentations (5 students)	14	practice with lots of models
At Home			TidyTuesday Plot		
Week 15					
T	17-Dec		**Final project presentations (10 students)**	15	**Final project presentations**