		Readings	Homeworks always due Tuesday at 1pm		
		Readings	Lecture	Quiz	Lab
Week 1					
Т	25-Jan		Intro to the class, What is data, data		R and Rstudio refresher/ data
	23-Jail		structures		structures
R	27-Jan		Collecting and recording data in a		Making Data sheets for the field
		Broman and Woo (2017)	reproducible way, metadata		versus analysis
Week 2					
Т	1-Feb	Lowndes et al. 2017 (Nature	What is reproducible research and why is it		Tools for reproducible research
		Eco Evo)	important?		(Github)
R	3-Feb	R4DS Ch4, Ch6	Reproducible scripts and		Set up your file structure and make a
			workflow/importing data	1	script
Week 3			. , ,		·
Т	8-Feb	Healy Ch 1, R4DS Ch 3	What makes a good visual?		Practice with ggplot
R	10-Feb	Wilke Ch 1-5	Visuals part 2		More ggplot
Week 4					
	15-Feb		Data Wrangling part 1 (group_by, filter,		Practice with dplyr
Т		R4DS Ch 5, Ch 11	select, summarise, mutate)		
	17-Feb		Data Wrangling part 2 (tidyr - pivots,	2	
R		R4DS Ch 12	separate, unite)		Practice with tidyr
Week 5					
T	22-Feb	R4DS Ch 13	Relational data		Practice different types of joins
R	24-Feb	R4DS Ch 16	Dates and times (lubridate)		Practice with dates and times
Week 6					
T	1-Mar	R4DS 27,29	Intro to Rmarkdown		Practice with Rmarkdown
R	3-Mar	,	Rmarkdown part II	3	Practice with Rmarkdown
Week 7	3 11101		Timarka o tri pare ii		r actice with randingswin
WCCK 7					Make a map/ final project proposal
Т	8-Mar	Wilke Ch 15, Healy Ch 7	Working with spatial data and making maps		due
		Trince on 15, meany on 7	Working with spatial data and making maps		duc
R	10-Mar		part II		Good plot/Bad plot lab
Week 8			partii		
T T	15-Mar		Fun advanced plotting (gganimate, etc)		Goodplot/Badplot presentations
		R4DS 18,19		4	
R	17-Mar	10,13	Functional programing	4	Learn to write a function

Т	22-Mar	No class - Spring Break			
R	24-Mar	No class - Spring Break			
Week 9					
Т	29-Mar	ON ZOOM	Intro to group R package presentations		Work on group project (select and present a package)
R	31-Mar	Cesar Chavez Day No class			
Week 10					
Т	5-Apr		How to ask for help (googling, stack overflow, and Reprex)		Make a reprex
R	7-Apr	Mastering Shiny Ch1	Intro Shiny apps	5	Shiny apps
Week 11					
Т	12-Apr		Work on group project		Work on group project
R	14-Apr		Present group projects		Present group projects
Week 12					
Т	19-Apr	R4DS Ch 14	Strings and regular expressions		Working with words
R	21-Apr	R4DS Ch 15	Working with factors	6	Practice with factors
Week 13					
Т	26-Apr	R4DS Ch 21	Iterative data (for loops and map functions)		Practice loops, etc
R	28-Apr		Models Part 1 (stats, Imer)		simple lms and lmer
Week 14					
Т	3-May		Models part 2 (many models with broom)		practice with lots of models
R	5-May		Work on Final project	7	Work on Final project
Week 15					
T	10-May		Final project presentations		Final project presentations
R	12-May		Final project presentations		Final project presentations