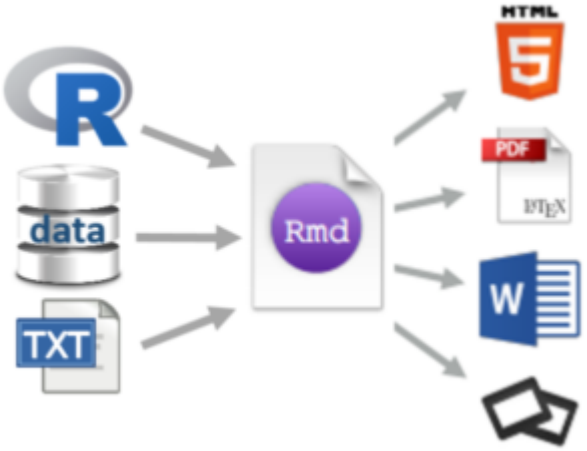
reproducible research

ME497 / ME597 Reproducible Research. An introductory course for the R novice by Richard Layton at Rose-Hulman Institute of Technology.

- About the course for a quick introduction
- Syllabus for the course of study, policies, and procedures

- Course index for class content organized by topic
- Getting help for links I've found useful



calendar

week	day	agenda / slides (p. text)	exercises	due
0	R	Course introduction (p. ix–xxv)		
	F	Framework for reproducible reports (p. 423–426)		Install R & RSt
1	M	Workflow, managing files, & naming things		Setup Git & Gi
	T	Learn R by doing and Graph basics (p. 1-12)	3.2.4, 3.3.1	Setup project 1
	R	Graph basics (p. 13-21)	3.5.1, 3.6.1	
	F	R code basics (p. 37-41)	4.4	Bring potential
2	M	Collaborating via GitHub		
	T	Discuss reading What does research reproducibility mean?. Project feedback.		Reading respons
	R	Data basics: filter(), arrange() (p. 43-51)	5.2.4, 5.3.1	
	F	Data basics: select(), mutate() (p. 51-58)	5.4.1, 5.5.2	
3	M	R Markdown basics		
	T	Data basics: summarize()		
	R	R code basics: tibble()		
	F	Data input with readr		
4	M	Formatting docx documents		
	T	Discuss reading Shining light into black boxes		Reading respons
	R	More on graphs		
	F	More on graphs		
5	M	Version control: revert to a prior version		
	T	Project 2 startup		Project 1 report
	R	Work on your project and catch up on exercises (I'm at a conference)		Project 2 startu
	F	Work on your project and catch up on exercises (I'm at a conference)		
6	M	Version control: conflicts		

week	day	agenda / slides (p. text)	exercises	due
	T	Discuss reading Ten simple rules for reproducible computational research		Reading respons
break	R			
break	F			
7	M	Topics in reproducible research		
	T	Tidy data: spread(), gather()		
	R	Tidy data: separate(), pull()		
	F			
8	M	Topics in reproducible research		
	T	Discuss reading Reproducible research can still be wrong		Reading respons
	R	Data joins		
	F	Data joins		Project 2 progr
9	M	Topics in reproducible research		
	T	Factors		
	R	Vectors		
	F	Lists		
10	M	Topics in reproducible research		
	T	Discuss reading Reproducible research: a dissenting opinion		Reading respons
	R			
	F			Project 2 report

about

- My data visualization course
- My data display blog
- My music blog
