IDEAS R Data Clinic syllabus

Ana Bento and Reni Kaul

Aug 18- 19 8am-5pm

Friday

8am-9am: What is R lecture

9am-9:10am: Break

9:10-11:00pm: Data types

Vectors

Matrices

Factors

Dataframes

Lists

Exercises

11:00-12:00pm: Writing, saving and sourcing a script

12:00-1:15pm: Lunch

1:15-3:00p: Functions

Functions

Loops

Control Statements

Exercises

3:00-3:15: Break

3:15pm- 5:00pm: Data manipulation

Exercises

Saturday

8:00-8:30am: Recap script and exchange

8:30-9:15am: Scramble functions exercise

9:15am: Break

9:25am:12:15pm: Data visualization

basic

gg

plottly

animated plots

exercise collaborative coding

12:15-1:30pm: Lunch (pizza provided)

1:30-3:00pm: M7– Simulations

Simulationg data in R

Exercise incorporating all skills

3:00pm: Break

3:15-5:00pm

Simulationg data in R- Continuation

Wrap up