R Bootcamp for Urban and Social Scientists

Durango Building 3.214

Outline:

**Day 1: Wed, Aug 17, 2022**

First half: 10:00am-10:50am

* Why R programming?
* Setting up a programing system
  + Git + GitHub overview
  + Accepting & Cloning a Repository
  + Write, Commit and Push progress

Second half: 10:00am-10:50am

* R basics
  + Object oriented programming overview
  + Syntax & Indexing
  + Object creation and manipulation
  + Functions and Packages
* R programing demo

**Day 2: Thr, Aug 18, 2022**

First half: 10:00am-10:50am

* Loading data
* The Base R framework for data wrangling
  + Filtering/Indexing
  + Variable creation
  + Summarizing a dataset
* The data.table way
  + data.frames vs. data.tables
  + Filtering/Indexing
  + Variable creation
  + Operation by a third variable

Second half: 10:00am-10:50am

* Intro to Data visualization