

Working with data and displaying data interactively

A short course for StratCom, Omaha, NE

Spring 2019

Instructor: Dr. Mahbubul Majumder Office: DSC 238
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Lecture time: TBD

Office Hours: After class or by appointment

Course web page: <http://mamajumder.github.io/StratCom>

Text books: Notes and various resources will be provided during lectures.

Recommended books:

1. Modern Data Science with R by Baumer et. al.
2. Dynamic Documents with R and Knitr by Yihui Xie

Course outline (approximate): There will be five sessions. Each session will be for two hours.

| Session | Chapter Description | Date |
|---------|------------------------------------------------------------------|--------------|
| 1 | Introduction to data science and reproducible report using R. | Feb 6, 2019 |
| 2 | Gathering and preparing data for display | Feb 13, 2019 |
| 3 | Effective display of data and creating interactive visualization | Feb 20, 2019 |
| 4 | How to display spatial data | Feb 27, 2019 |
| 5 | Creating data dashboard for executives | Mar 6, 219 |

Practical Assignments: There will be five practical data display assignments throughout the course.

Course outcomes: At the end of the course, participants will create a data dashboard.