Review

Files, Modules and
Data Manipulation

Format

- Online Quiz
  - Meaning open book, but all answers will be checked for plagiarism. Only submit your own work. No direct copying of code online or from your friends.
  - If submissions are too similar they will be investigated.
- Length: 75 minutes from 5:30 to 6:45 Wed. March 25th
  - If you are sick please email me for a remediation time for exam.
- 15 questions
- A questionbank of multiple-choice/ true-false questions
- Understanding and explaining code
- Writing code/functions

Topics

- File Input/Output
- Modules: Random, Datetime, CSV
- Data management: Pandas
- Look through the available demos/slides
- Look through class and graded assignments

Files I/O

- Python can be used to read and write all kinds of text files
- Modes
- Syntax:

```
myfile = open("test.txt", "w")
OR
with open("test.txt", "w") as myfile:
```

- Terms:
  - File, file system, directory, mode, path, text file, RAM, non-volatile, handle

Links: 1, 2, 3, 4, 5, 6

Modules

- Python can be used to read and write all kinds of text files
- Syntax:

    import <module>

- Terms:
    - File, file system, directory, mode, path, text file, scope
- Modules:
    - csv, random, datetime, math

Links: 1, 2, 3, 4, 5, 6

Data Management

- Python can be used to read and write all kinds of text files
- Syntax:

```
pd.read_csv('text.csv')
```

- Terms:
  - Dataframe, series, csv files, reading/writing from files
- Pandas
  - Basic functions, dictionaries, header, rows

Links: 1, 2, 3, 4, 5