

Data Visualization in Python

with Yuhang and Michael

Data Viz in Python - Matplotlib

- Python 2D plotting library
- Produces publication quality figures with just a few lines of code
- Generates standard plots like histograms, bar charts, scatterplots, and line charts.
- Full control of line styles, font properties, axes properties via an object oriented interface
- <https://matplotlib.org/>
- <https://matplotlib.org/gallery/index.html>

Data Viz in Python - Demos

Data - Historical Hourly Weather Data 2012-2017

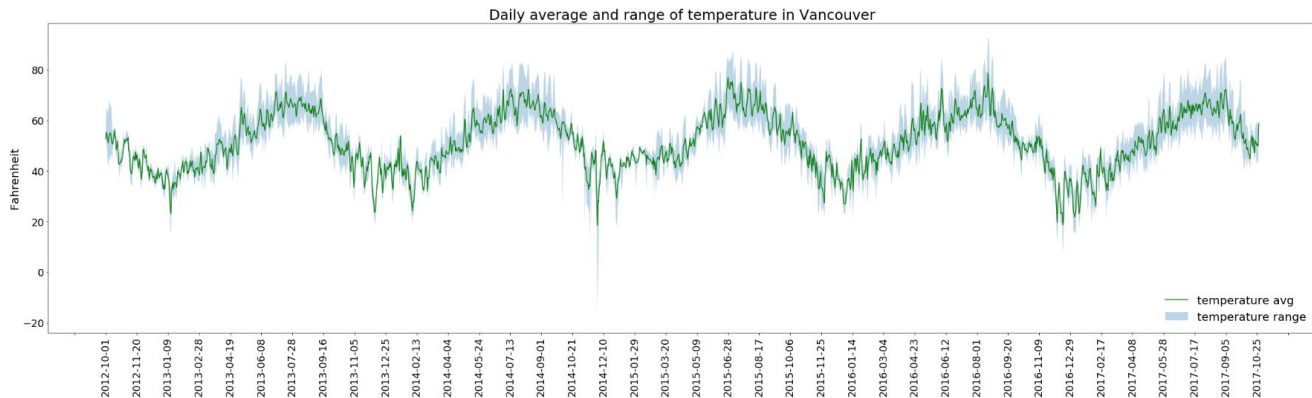
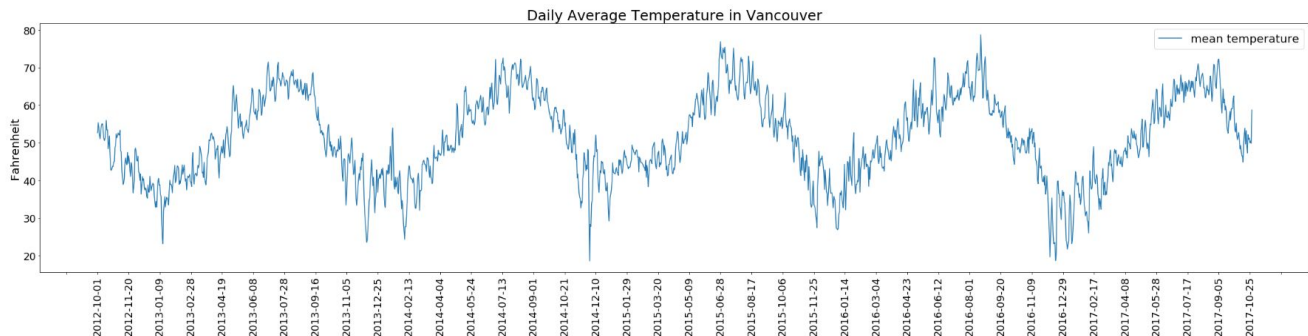
Data Manipulation - Transform raw data into viable visualization format

Line and Area Chart - Daily temperature range over time

Map Chart - Average temperature change by location (mplleaflet)

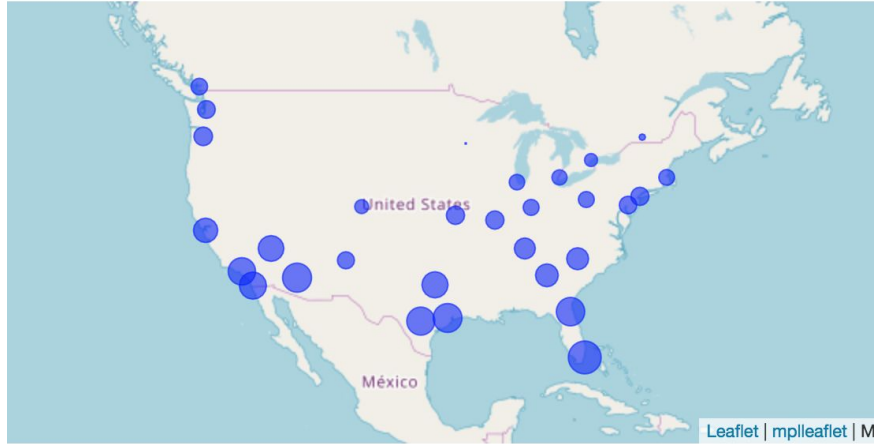
Time for questions at the end of each demo

Data Viz in Python - Line and Area Chart Demo

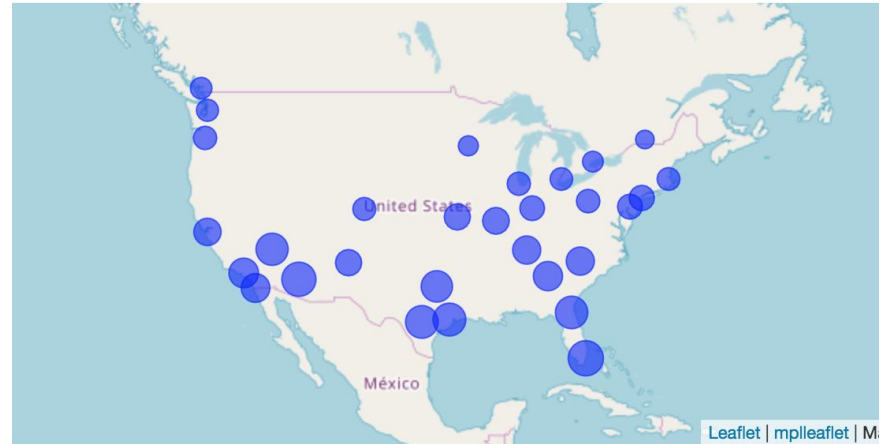


Data Viz in Python - Map Chart Demo

Average Temperature 2012



Average Temperature 2017



Thank you