

README.md



# Introduction to Pandas and Matplotlib

[pandas](#) is a powerful, open source Python library for data analysis, manipulation, and visualization. [matplotlib](#) is a comprehensive library for creating static, animated, and interactive visualizations in Python. The goal of the following Jupyter notebooks is to give you some concrete examples for getting started with pandas and matplotlib.

## Jupyter Notebooks

- [DataFrames and Series](#)
- [Sorting, Filtering and Applying](#)
- [Data Cleaning and Preparation](#)
- [Data Aggregation](#)
- [Data Visualization](#)

## Practice Problems

- [Problem 1 - Solution](#)
- [Problem 2 - Solution](#)

## Homework (due Sept 11)

- [Stanford Open Police Dataset](#)
- [US Baby Names](#)

## Datasets

Filename	Description	Source
yob1880.csv -- yob2018.csv	frequency of baby names from 1880 through 2018	<a href="#">SSA</a>

Filename	Description	Source
<a href="#">police_ri.csv</a>	Data on vehicle and pedestrian stops from law enforcement departments across Rhode Island	<a href="#">Stanford Open Policing Project</a>
<a href="#">sales.csv</a>	Monthly Sales Data of sell of electronics equipment across USA in 2019	<a href="#">Kaggle</a>
<a href="#">Fremont.csv</a>	Fremont bridge bicycle counter	<a href="#">City of Seattle Open Data portal</a>
<a href="#">drinks.csv</a>	Alcohol consumption by country	<a href="#">FiveThirtyEight</a>
<a href="#">imdb_1000.csv</a>	Top rated movies from IMDb	<a href="#">IMDb</a>
<a href="#">titanic.csv</a>	Famous Titanic dataset from Kaggle	<a href="#">Kaggle</a>
<a href="#">ufo.csv</a>	Reports of UFO sightings from 1930-2000 (the truth is out there)	<a href="#">National UFO Reporting Center</a>
<a href="#">chipotleorders.csv</a>	Online orders from the Chipotle restaurant chain ( <a href="#">link</a> to The Upshot article)	<a href="#">TheUpshot</a>
<a href="#">advertising.csv</a>	Sales info in 200 different markets, along with advertising budgets for three different media: TV, radio, and newspaper	<a href="#">An Introduction to Statistical Learning</a>
<a href="#">tips.csv</a>	Restaurant tipping	<a href="#">Python for Data Analysis</a>