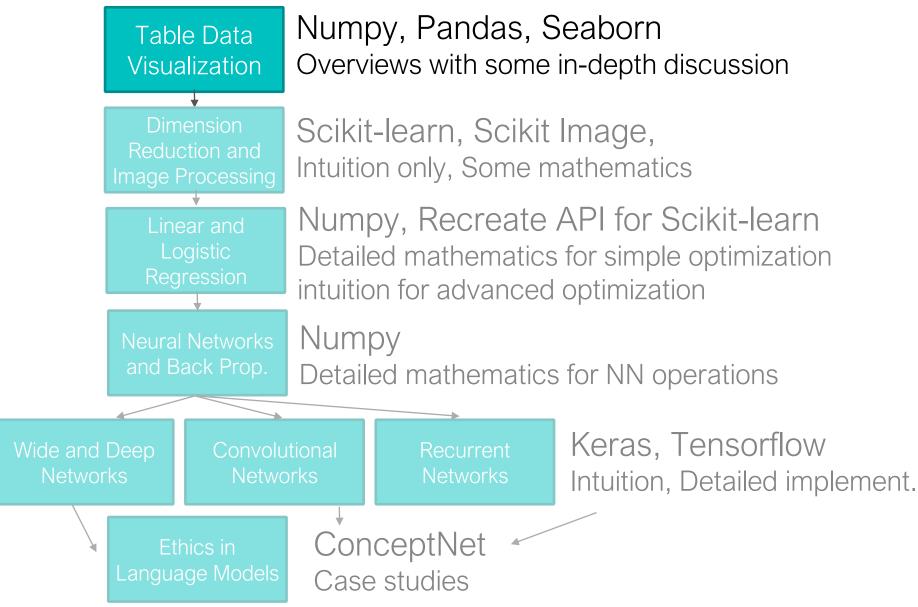
Lecture Notes for **Machine Learning in Python**



Class Logistics and Agenda

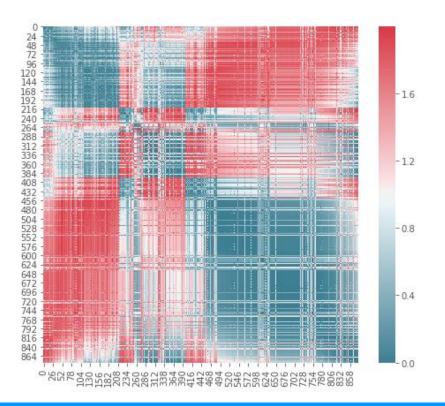
- Logistics:
 - Office Hours Zoom
- Agenda:
 - Finish Visualization Demo
 - Town Hall Lab One
- Next Time:
 - Dimensionality Reduction
 - PCA
 - Sampling
 - Images

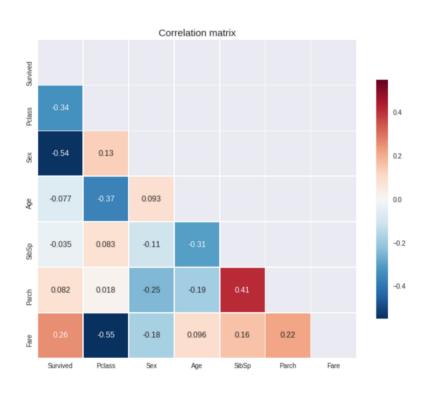
Class Overview, by topic



What is the difference in these plots?

	Passengerld	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Embarked	2	3	male	Q	S
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	S	0	1	1	0	1
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th	female	38.0	1	0	PC 17599	71.2833	С	0	0	0	0	0
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	S	0	1	0	0	1





Let's look at some graphs

Demo

 You tell me what conclusions we are getting from these graphs

- Histogram
- . KDE
- HeatMaps and Correlation
- Scatter and Scatter Matrix
- Box / Violin / Swarm

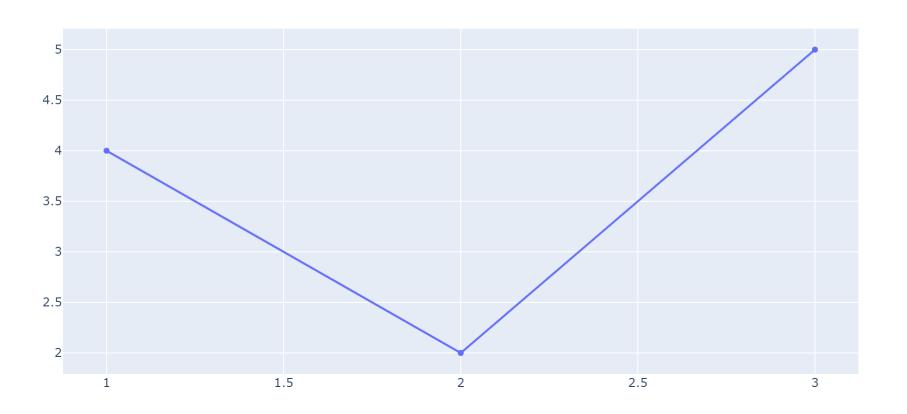
03.Data Visualization.ipynb



Interactive Plot

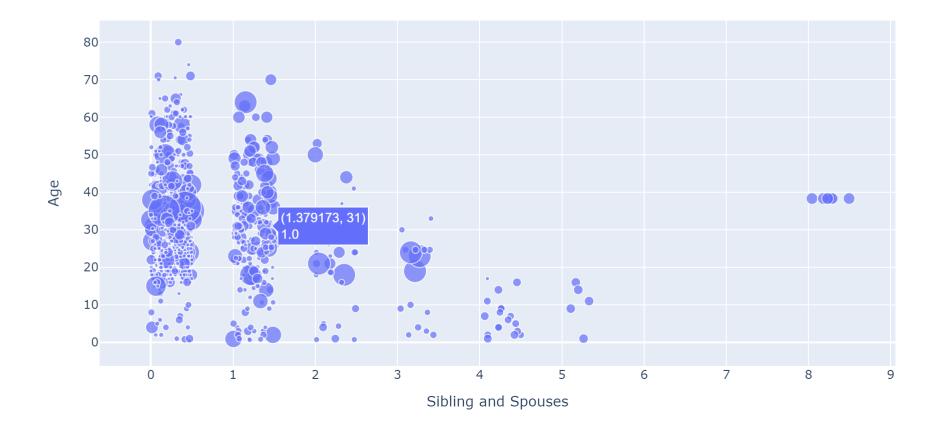
hello world





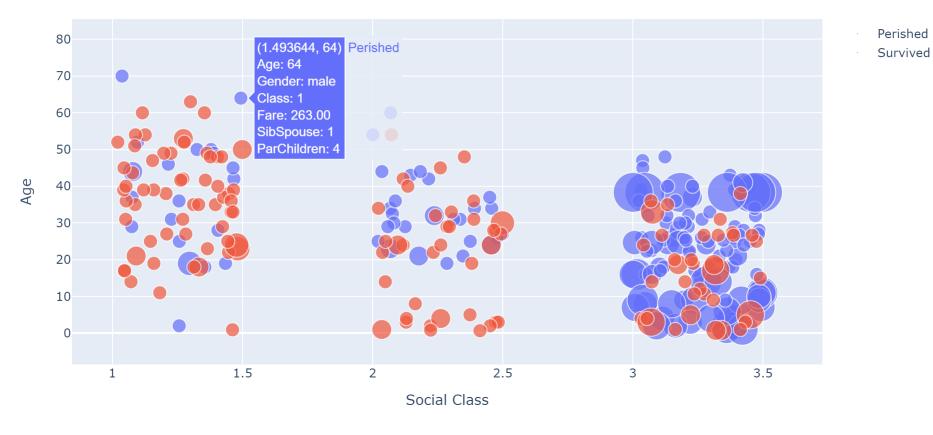
Interactive Plot

Age and Family Size (Marker Size==Fare)

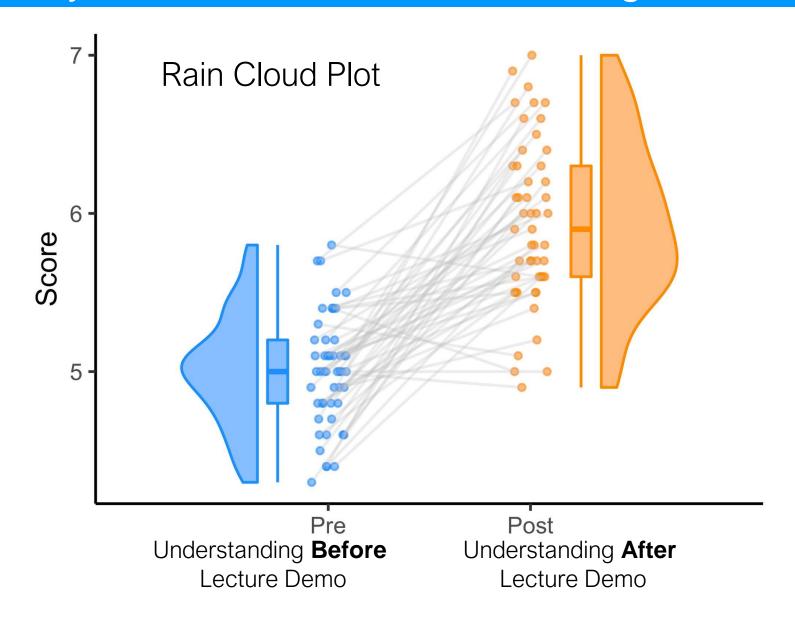


Interactive Plot

Age and Class Scatter Plot, Size = number of siblings and spouses



Now you have visualization building blocks



Lab One: Town Hall

