Numpy and Pandas Cheat Sheet

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Common Imports import numpy as np import pandas ps pd import matplotlib.pyplot as plt import seaborn as sns	max() Maximum min() Minumum mean() Mean (average) median() Median sum() Sum (total)	<pre>df['col']</pre>
Vectorized Operations xs + ysElement-wise addition xs + zAdding a scalar xs & ysBitwise (boolean) and	Accessing Data in a Series s.iloc[i]Get element by position s.loc[x]Get element by index s.valuesGet element by array	DataFrame Summarization df.describe()Stats about each column df.head(n)First n rows df.tail(n)List of column names
xs ysbitwise (boolean) or xsBitwise (boolean) not xs < ys	Plotting for Series s.hist()	Axis Argument df.mean(axis=0) df.mean(axis=1) df.mean(axis=1)
Subtraction (-), multiplication (*), division (/), exponentiation (**), and other comparison operators ($<=$, $>$, $>=$, $==$, $!=$) work similarly.	Apply Functions s.apply(value -> value)returns a Series df.applymap(value -> value) .returns a DataFrame	dimean(axis='columns'nrean of each column mean of each row
matplotlib plotting plt.hist(xs)	<pre>df.apply(series -> value)returns a Series df.apply(series -> series)returns a DataFrame</pre>	Plotting for DataFrames df.plot()Line plot with one line per column