

- ▶ Python and Software Engineering Best Practices (P-7)

- ▶ Python and Software Engineering Best Practices (P-8)

- ▶ Python and Software Engineering Best Practices (P-9)

- ▶ Python and Software Engineering Best Practices (P-10)

- ▶ DS specific libraries (P-1)

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- ▼ DS specific libraries (P-3)

**Sample Code:**  
**Matplotlib**

Code Challenge

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Submission 42

```

Sample Code: Matplotlib | Sample Code: Matplotlib | ST101 Courseware | Forsk Labs
X = random(500)
Y = randn(500)
plt.scatter(X,Y)
plt.show()

#HISTOGRAM
incomes = np.random.normal(27000, 15000, 10000)
plt.hist(incomes, 50)
plt.show()

#Box & Whisker Plot

uniformSkewed = np.random.rand(100) * 100 - 40
high_outliers = np.random.rand(10) * 50 + 100
low_outliers = np.random.rand(10) * -50 - 100
data = np.concatenate((uniformSkewed, high_outliers, low_o
plt.boxplot(data)
plt.show()

"""
This is Useful for visualizing the spread & skew of data.
The red line represents the median of the data

```