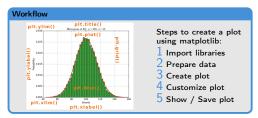
Exploring complex systems using computational tools Matplotlib Cheat Sheet

Matplotlib

Matplotlib (matplotlib.org) is a Python 2D plotting library which produces publication quality figures in a variety of hard-copy formats and interactive environments across platforms.



1 Import libraries

```
>>> import numpy as np
>>> import matplotlib.mlab as mlab
>>> import matplotlib.pyplot as plt
```

2 Prepare data

```
>>> mu, sigma = 100, 15
>>> x = mu + sigma*np.random.randn(10000)
```

3 Create plot

4 Customize plot

5 Show / Save plot

```
>>> plt.savefi('histogram.png')
>>> plt.show()
```