MatPlotLib

for visualizing the data
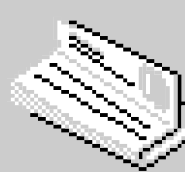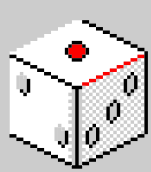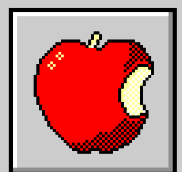
11:11PM

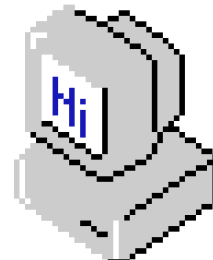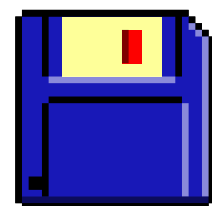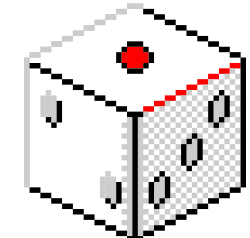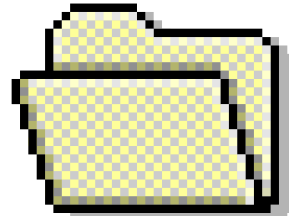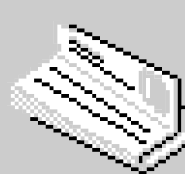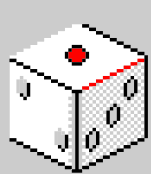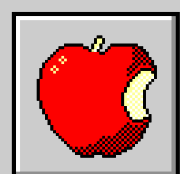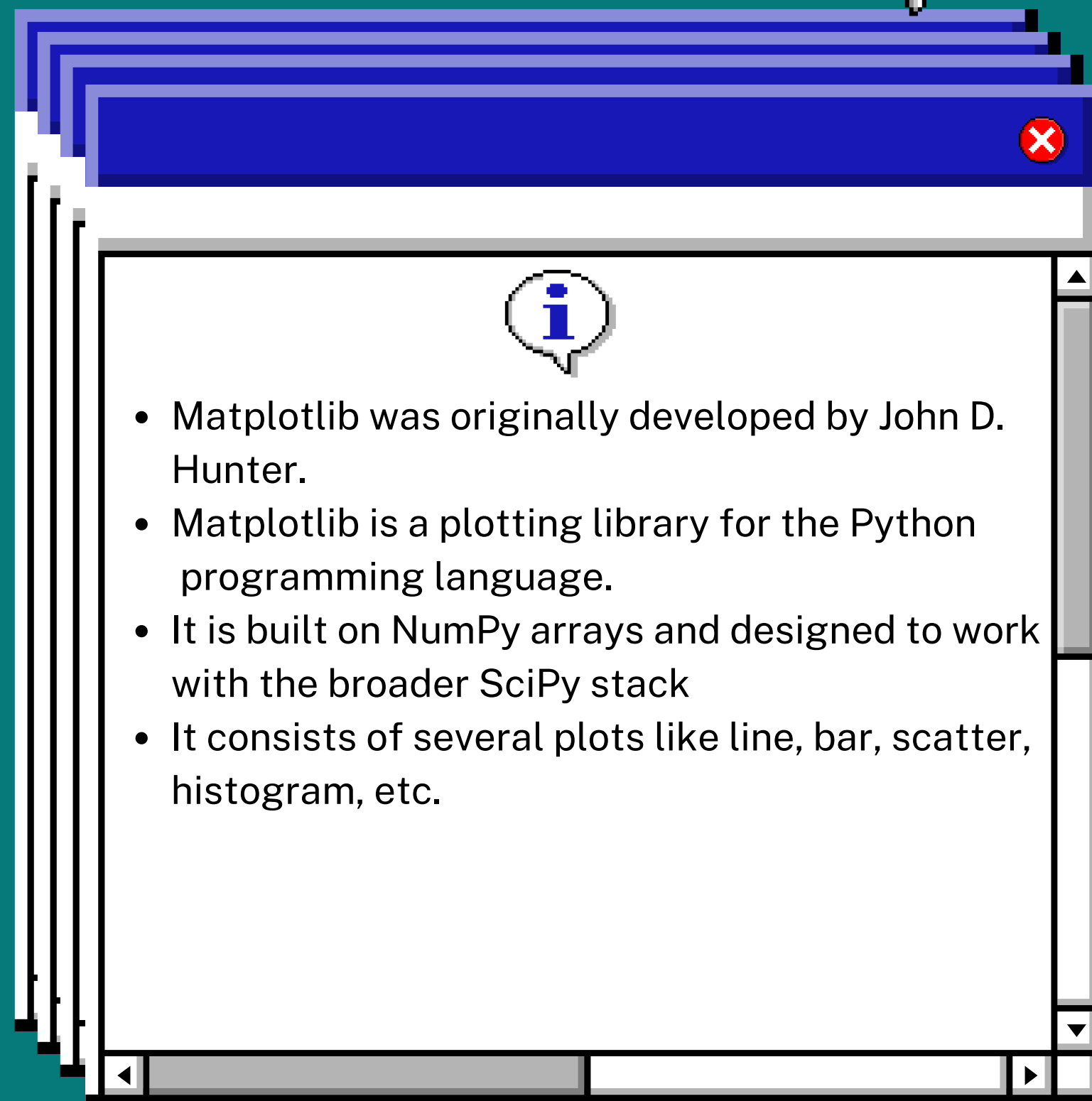## Topics Covered

Intro

plots

code demo

wrap up

Start

Agenda

What is Matplotlib?

- Matplotlib was originally developed by John D. Hunter.
- Matplotlib is a plotting library for the Python programming language.
- It is built on NumPy arrays and designed to work with the broader SciPy stack
- It consists of several plots like line, bar, scatter, histogram, etc.
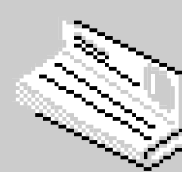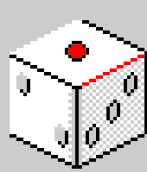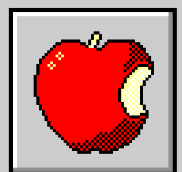
classes

Pyplot

Pyplot provides functions that interact with the figure i.e. creates a figure, decorates the plot with labels, and creates a plotting area in a figure.

Figure

- Figure class is the top-level container that contains one or more axes.
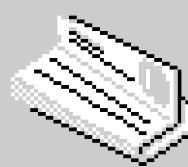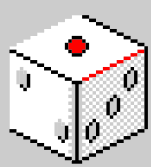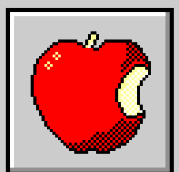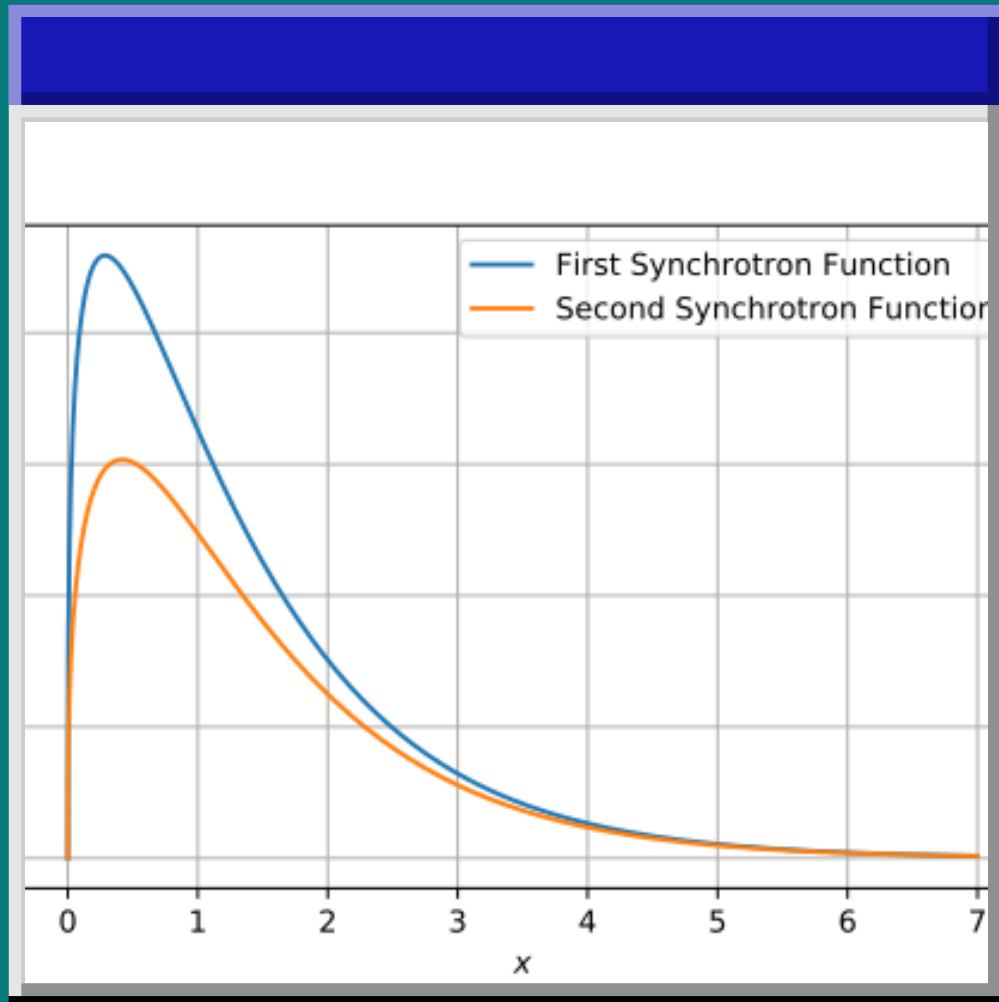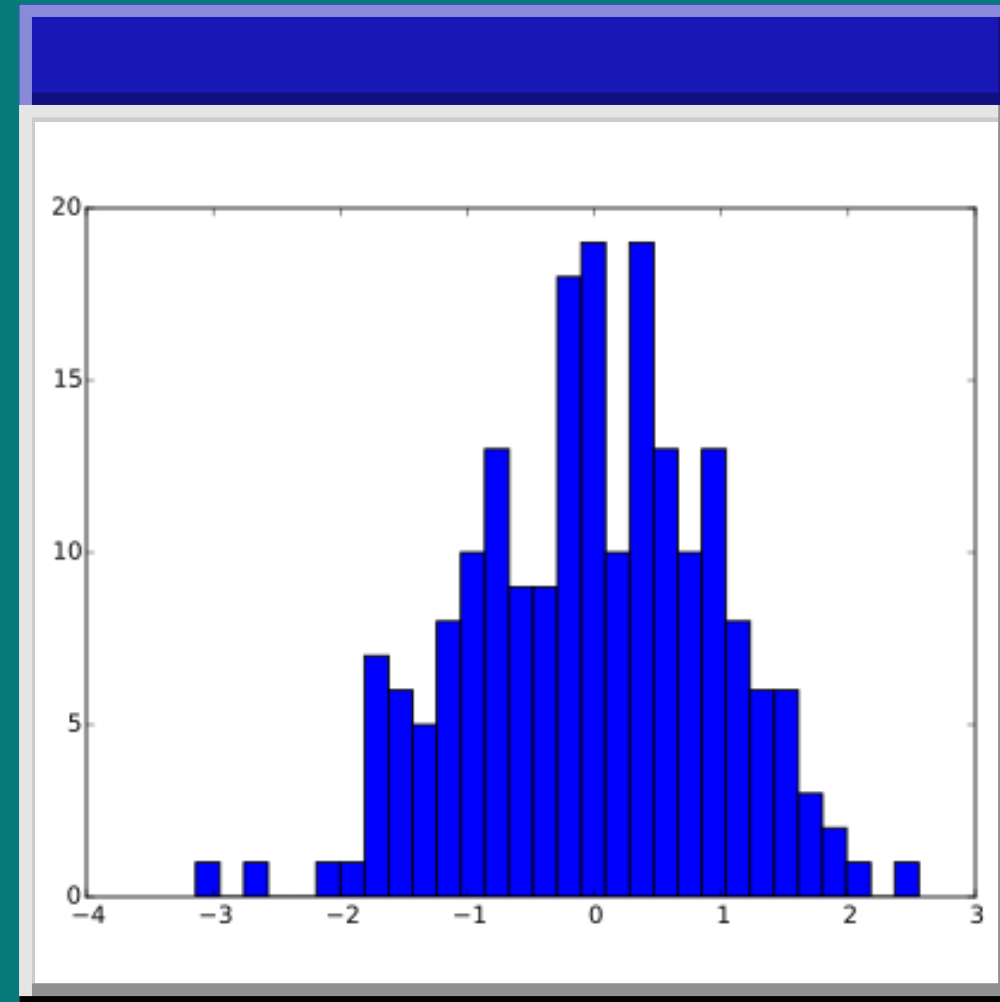- It is the overall window or page on which everything is drawn.

Axes

- Axis used for creating sub-plots
- The axes() function creates the axes object.
- A given figure may contain many axes.

Plots

Line plot
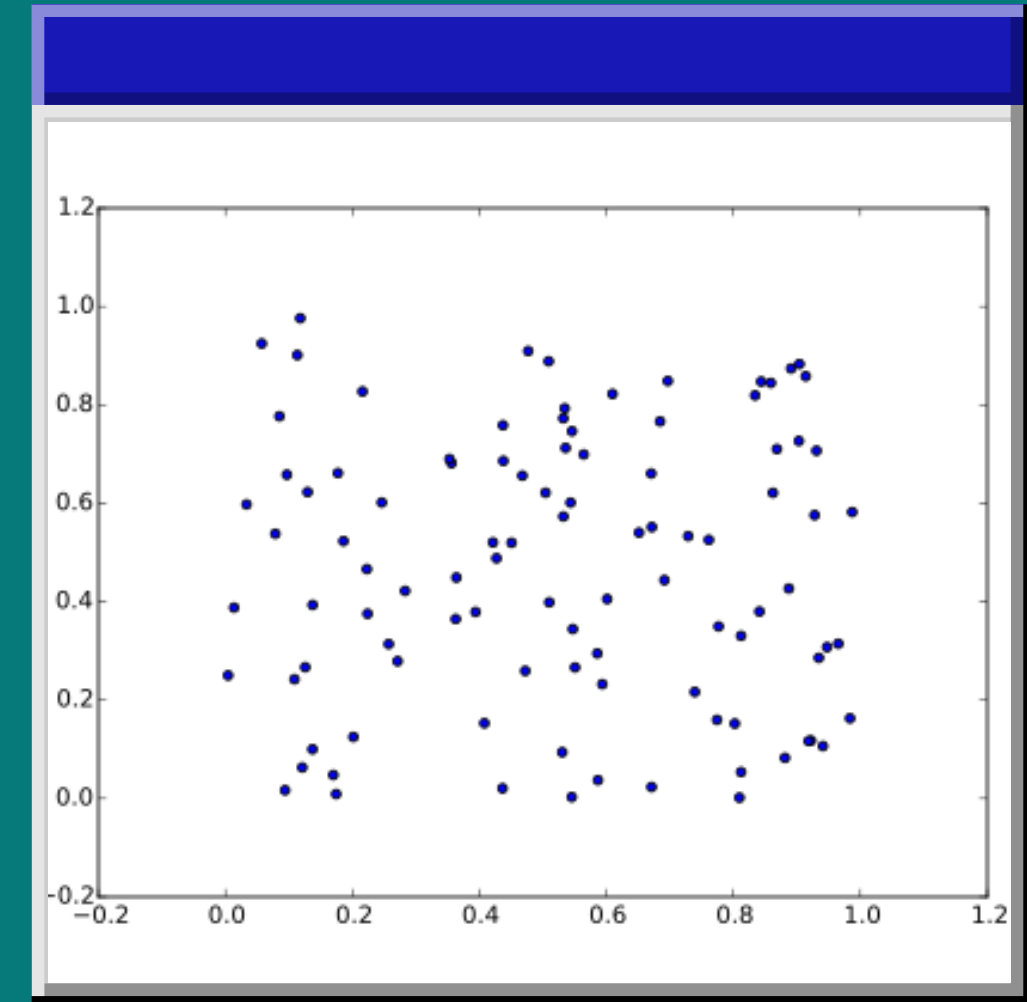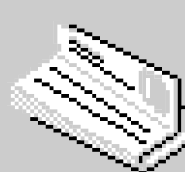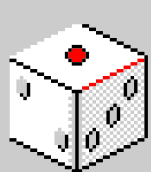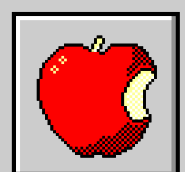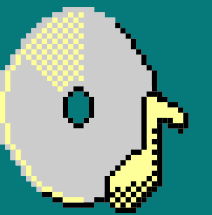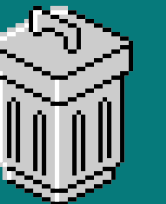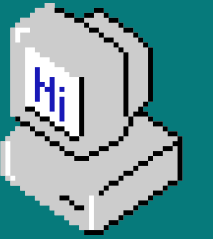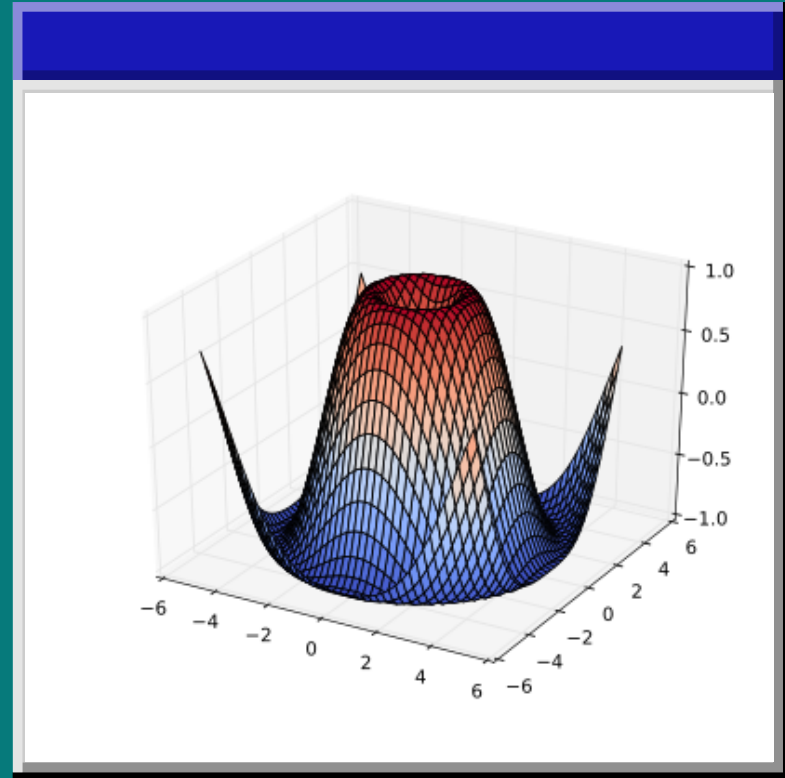

Histogram
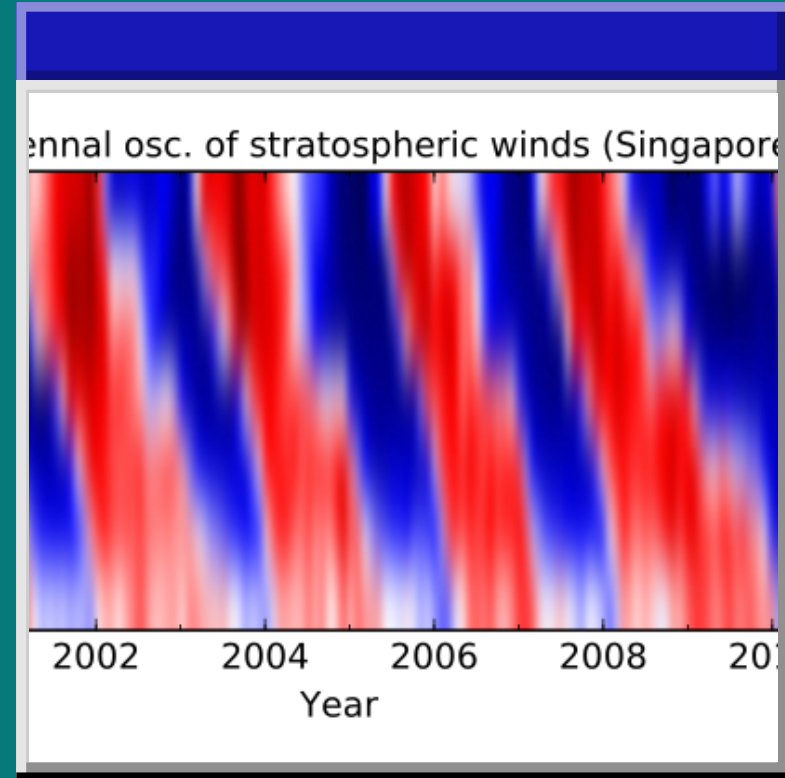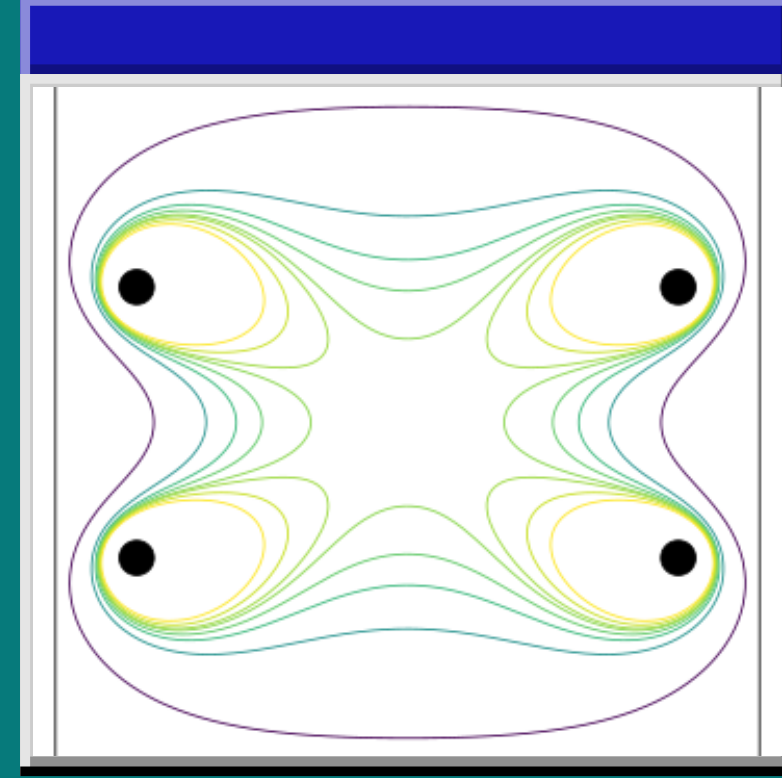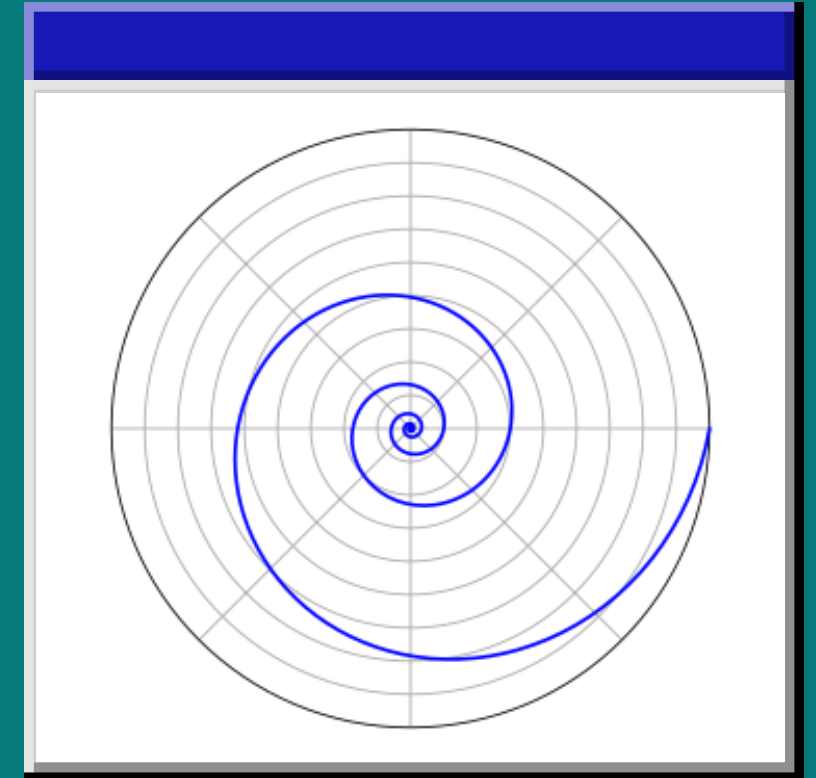

Scatter plot

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Plots

3D plot

Image plot
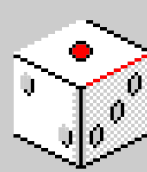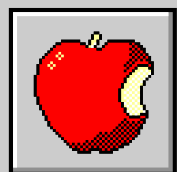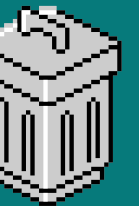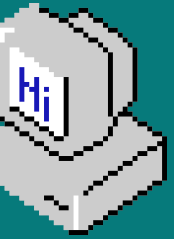

Contour plot

Polar plot

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Code Link:
https://tinyurl.com/matplotlib-uh

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Thank you!