# Important Note!

An important note regarding saving and displaying matplotlib figures during this course.

WE'LL COVER THE FOLLOWING

- Saving figures

## Saving figures #

To save a figure to a file we use the `savefig` method in the `Figure` class:

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

x = np.linspace(0, 2, 100)
y = x ** 2
fig = plt.figure(figsize=(10, 5))
ax1 = fig.add_axes([0.1, 0.1, 0.8, 0.8])
ax1.plot(x, y, 'b')
ax1.set_xlabel('x')
ax1.set_ylabel('y')
ax1.set_title('Example figure');

fig.savefig('output/out.png') # saving in the output directory
```

### Note

Throughout this course, we will be using the `fig.savefig('output/out.png')` command to save the figure in Educative's **output folder** so we can view the graphs in the output window. For simplicity, sometimes this command will be hidden from you.

In the next lesson, we will learn about plotting multiple curves.