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# === cons_sin.ipynb ===
#http://setosa.io/ev/sine-and-cosine/

#%%
%matplotlib notebook

#%%
# Import Numpy for calculations and matplotlib for charting
import numpy as np
import matplotlib.pyplot as plt

#%%
# The `np.arange()`, `np.sin()`, and `np.cos()` are all being
# used in order to create the lists for the application's charts

# Create our x_axis list
x_axis = np.arange(0, 6, 0.1)

#%%
# Creates a list based on the sin of our x_axis values
sin = np.sin(x_axis)

#%%
# Creates a list based on the cos of our x_axis values
cos = np.cos(x_axis)

#%%
# In order to chart multiple lines on the same chart, it is as simple as
# calling `plt.plot()` two times and providing PyPlot with different values

# Plot both of these lines so that they will appear on our final chart
plt.plot(x_axis, sin)
plt.plot(x_axis, cos)

plt.show()

```