

# ExampleNicePythonFigure

January 12, 2017

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In [2]: import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline

In [3]: # parameters for plotting

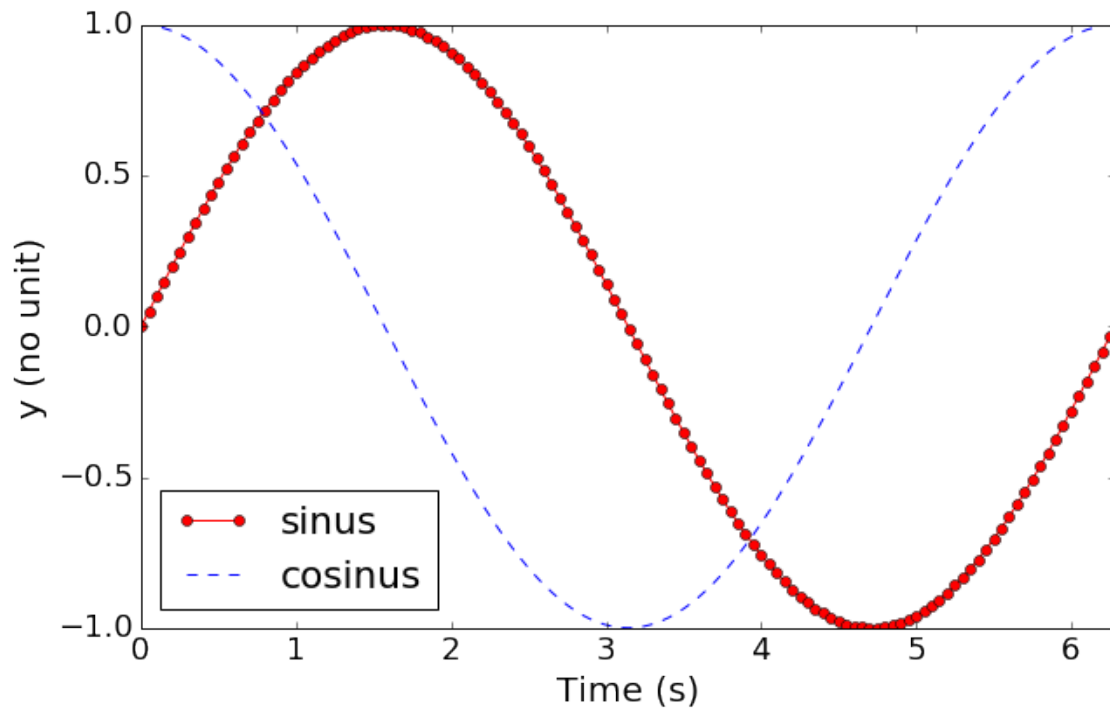
# aspect ration with the golden number looks good
phi = 1.618

# parameters for the size and font
szFig = 10
ftSze = 20
lnWdth = 2

In [6]: array_time = np.arange(0, 2*np.pi, 0.05)
y_sinus = np.sin(array_time)
y_cosinus = np.cos(array_time)

# set the size properties
plt.figure(figsize=(szFig,szFig/phi))
plt.rcParams.update({'font.size': ftSze-2})
# plotting
plt.plot(array_time, y_sinus, 'o-', color='r', label='sin')
plt.plot(array_time, y_cosinus, '--', color='b', label='cos')
# legend, labels etc
plt.legend(loc=3)
plt.xlim(0, 2*np.pi)
plt.ylim(-1, 1)
plt.xlabel('Time (s)',fontsize=ftSze)
plt.ylabel('y (no unit)',fontsize=ftSze)

# save the figure
name = 'PSDAttenuationSlush.png'
plt.savefig(name)
```



In [ ]: