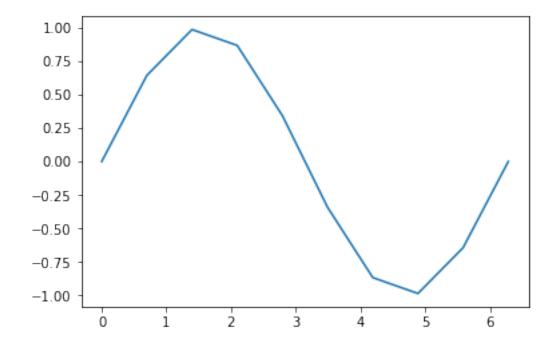
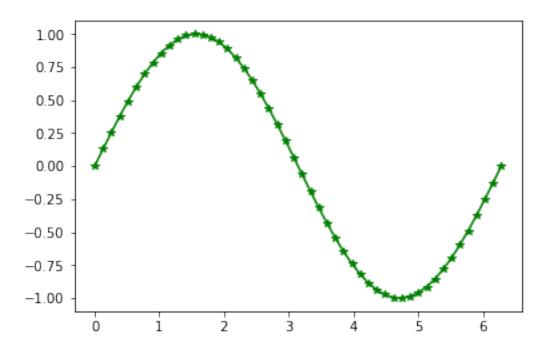
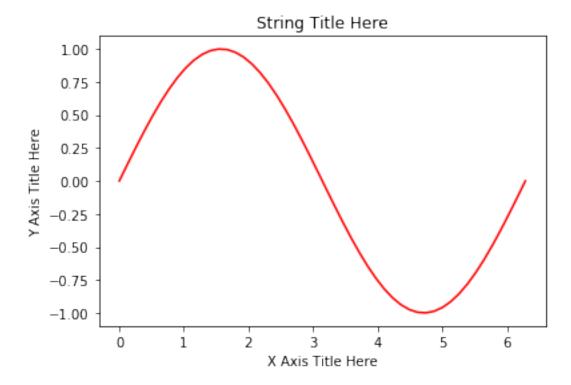
## Day2pm

June 12, 2018

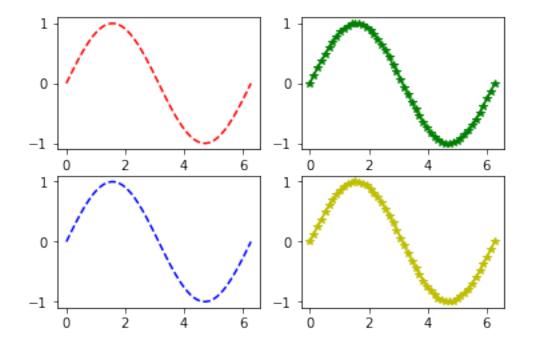


```
In [10]: plt.plot(x,y,'g*-')
Out[10]: [<matplotlib.lines.Line2D at 0x7f0b54ee8b38>]
```

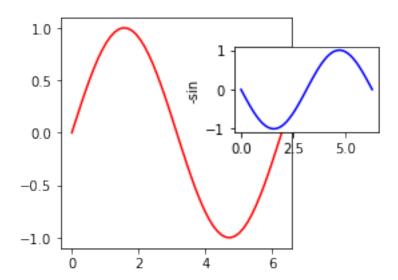


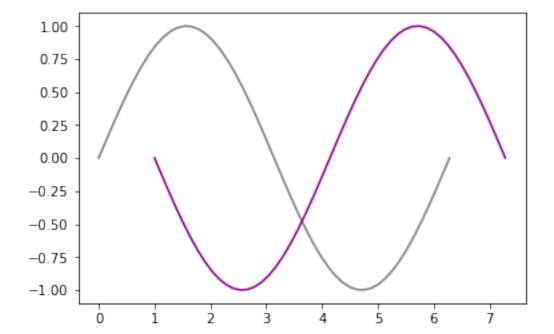


Out[15]: [<matplotlib.lines.Line2D at 0x7f0b54e770f0>]

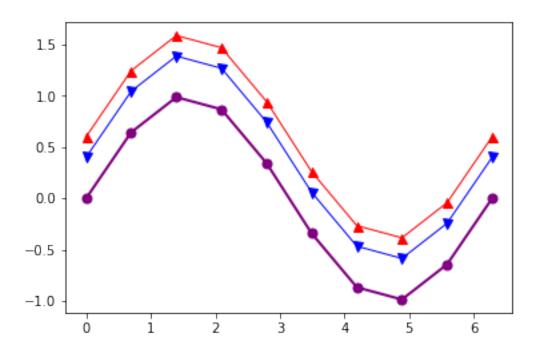


```
In [37]: fig = plt.figure()
    fig1 = fig.add_axes([0.1,0.1,0.8,0.8])
    fig2 = fig.add_axes([0.7,0.5,0.5,0.3])
    fig1.plot(x,y,'r')
    fig2.plot(x,-y,'b')
    fig2.set_ylabel("-sin")
    fig.set_size_inches(3,3)
    fig.savefig("twosines.png", dpi=600)
```



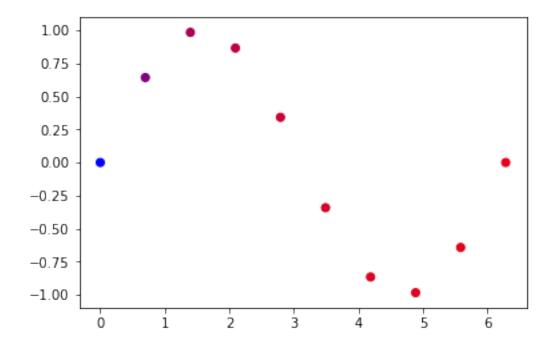


Out[82]: [<matplotlib.lines.Line2D at 0x7f0b53767f98>]



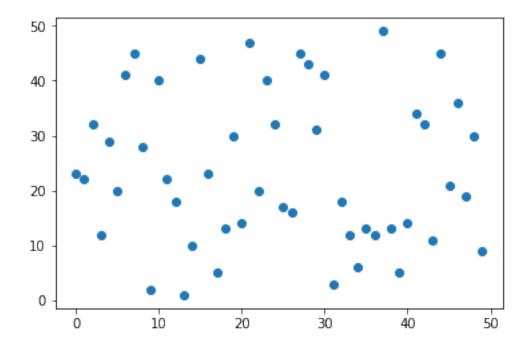
In [86]: #plt.plot(x,y+0.2,color=, lw=3, ls="-", marker="\*", markersize=7)plt.scatter(x,y,c=[matplotlib.colors.rgb2hex((1-1/(i+1),0,1/(i+1))) for i in range(10)]

Out[86]: <matplotlib.collections.PathCollection at 0x7f0b53aa4208>



In [89]: plt.scatter(x,y)

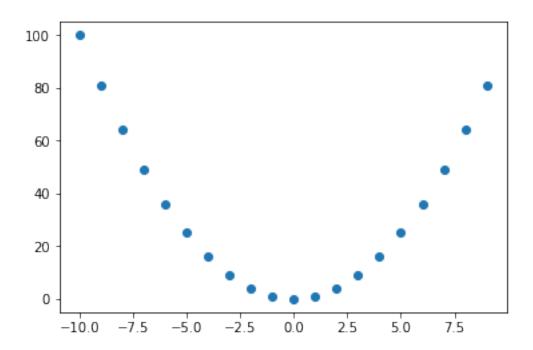
Out[89]: <matplotlib.collections.PathCollection at 0x7f0b53cf6208>



In [97]: 
$$x = np.arange(-10,10)$$
  
 $y = x**2$ 

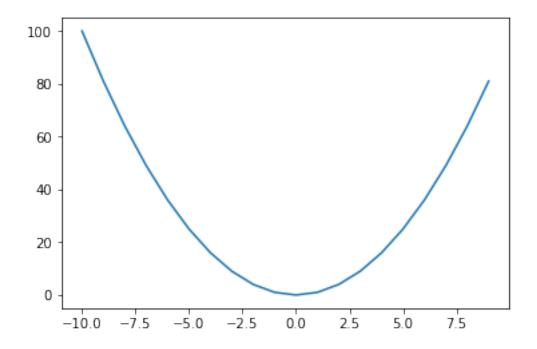
In [98]: plt.scatter(x,y)

Out[98]: <matplotlib.collections.PathCollection at 0x7f0b534fd080>

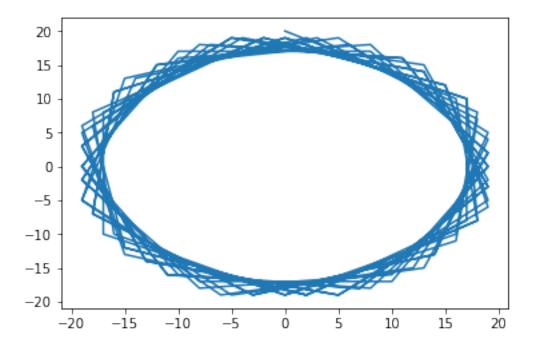


In [92]: plt.plot(x,y)

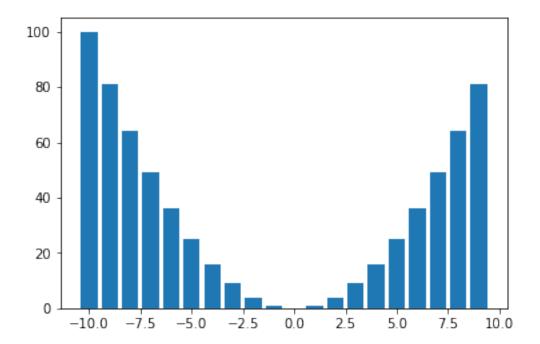
Out[92]: [<matplotlib.lines.Line2D at 0x7f0b53ef6978>]

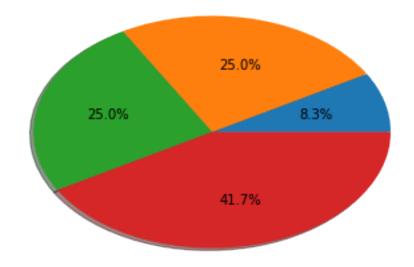


Out[95]: [<matplotlib.lines.Line2D at 0x7f0b53645b38>]



Out[100]: <BarContainer object of 20 artists>





In [108]: 
$$x1 = [20,22]$$
  
 $y1 = [40,44]$ 

plt.ylim([30,50])
plt.xlim([20,22])
plt.plot(x1,y1)

Out[108]: [<matplotlib.lines.Line2D at 0x7f0b5341e128>]

