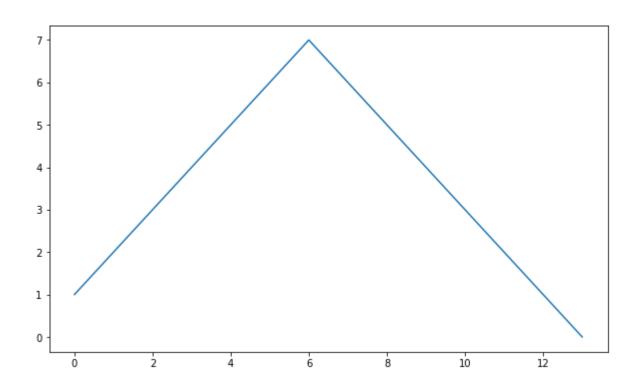
matplotlib 2

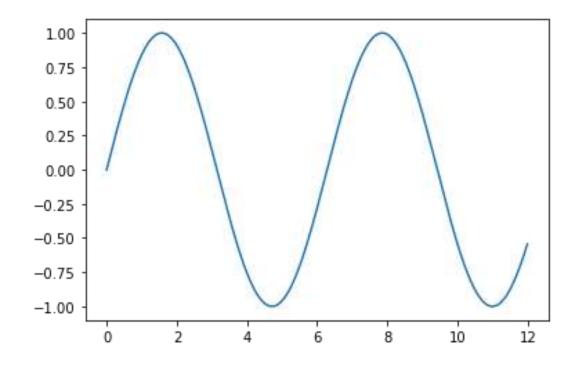
- > import matplotlib.pyplot as plt
- > %matplotlib inline
- > import numpy as np

- plt.figure(figsize=(10,6))
- > plt.plot([1,2,3,4,5,6,7,6,5,4,3,2,1,0])
- > plt.show()

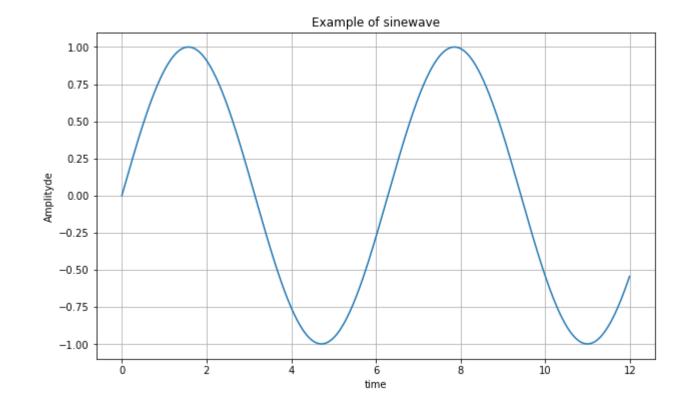
figsize: 차트그림(figure)의 크기 (inch)



- > t = np.arange(0,12,0.01)
- \rightarrow y = np.sin(t)
- > plt.plot(t,y)
- > plt.show

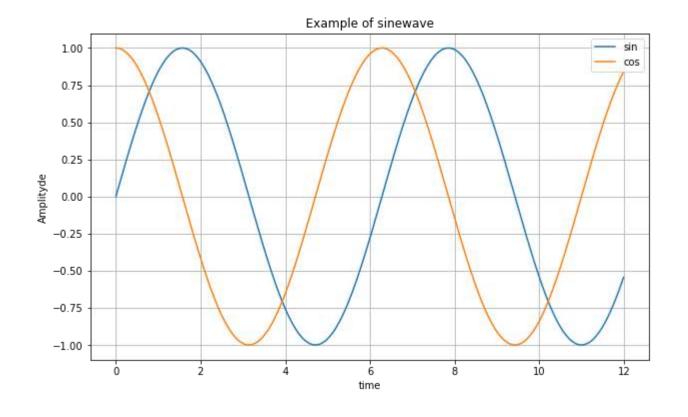


- plt.figure(figsize=(10,6))
- > plt.plot(t,y)
- > plt.grid()
- > plt.xlabel('time')
- plt.ylabel('Amplityde')
- plt.title('Example of sinewave')
- > plt.show()

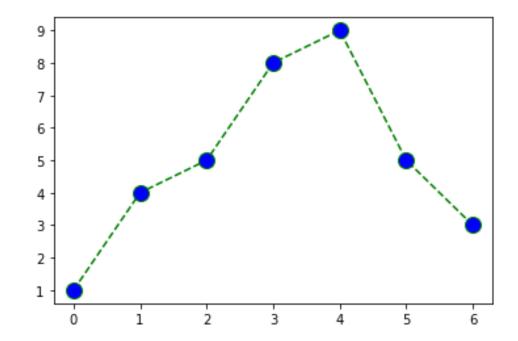


#legend() 범례

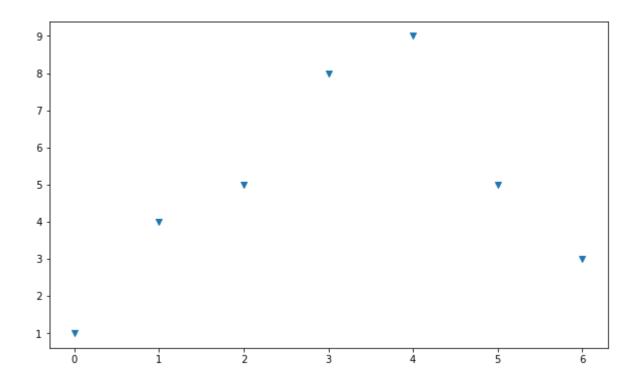
- plt.figure(figsize=(10,6))
- plt.plot(t,y,label='sin')
- plt.plot(t,np.cos(t),label='cos')
- > plt.grid()
- > plt.legend()
- > plt.xlabel('time')
- plt.ylabel('Amplityde')
- > plt.title('Example of sinewave')
- > plt.show()



- > t = [0,1,2,3,4,5,6]
- > y = [1,4,5,8,9,5,3]
- ▶ plt.plot(t, y, color='g', linestyle='--', marker='o', markerfacecolor='b', markersize=12)
- plt.figure(figsize=(10,6))
- > plt.show()

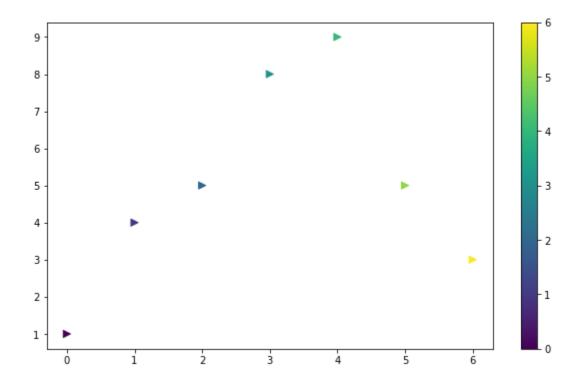


- plt.figure(figsize=(10,6))
- plt.scatter(t, y, marker='v')
- > plt.show()



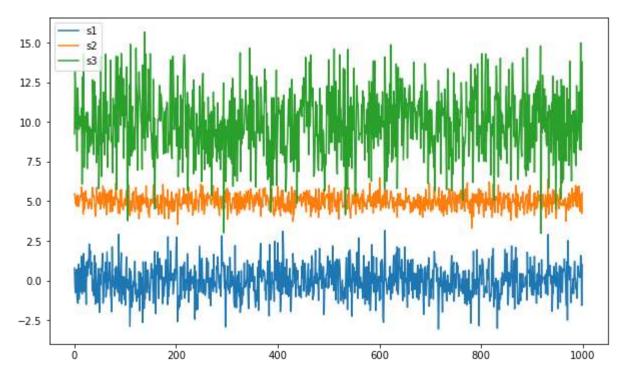
colormap: x축값 t에 따라 색상을 바꿈 # s: 마커 크기

- > colormap=t
- plt.figure(figsize=(10,6))
- plt.scatter(t, y, s=50, c=colormap, marker='>')
- > plt.colorbar()
- > plt.show()



normal(평균, 표준편차)

- > s1 = np.random.normal(0, 1, size=1000)
- \gt s2 = np.random.normal(5, 0.5, size=1000)
- > s3 = np.random.normal(10, 2, size=1000)
- > plt.figure(figsize=(10,6))
- > plt.plot(s1, label='s1')
- > plt.plot(s2, label='s2')
- > plt.plot(s3, label='s3')
- > plt.legend()
- > plt.show



- plt.figure(figsize=(10,6))
- plt.boxplot((s1,s2,s3))
- > plt.grid()
- > plt.show()

