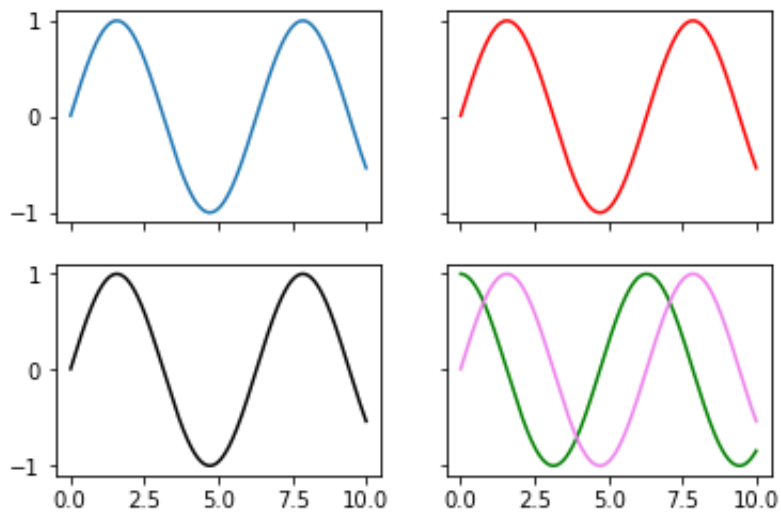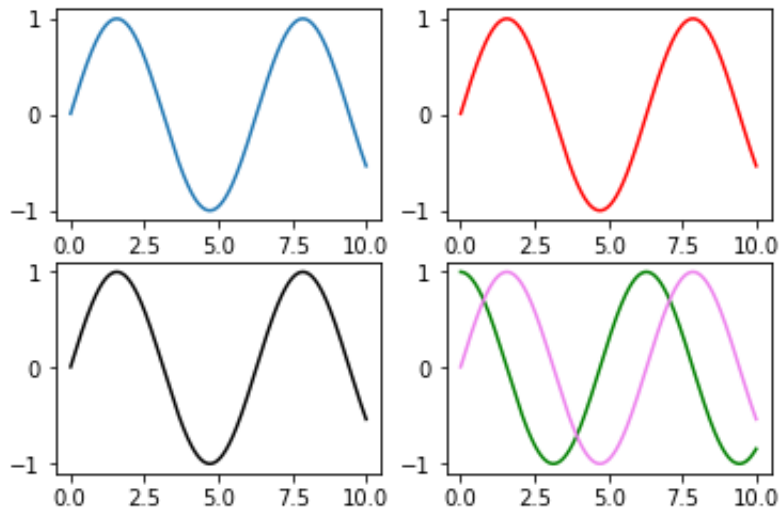```
In [4]:   %matplotlib inline
          import matplotlib
          import matplotlib.pyplot as plt
```

```
In [9]:   # new style method 2; use an axes array
          import math
          x = [xi/100. for xi in range(1,1000)]
          y = [math.sin(xi) for xi in x]
          z = [math.cos(xi) for xi in x]

          fig, axs = plt.subplots(2, 2, sharex=True, sharey=True)
          axs[0, 0].plot(x,y)
          axs[0, 1].plot(x,y,'r')
          axs[1, 0].plot(x,y,'k')
          axs[1, 1].plot(x,z,color='green')
          axs[1, 1].plot(x,y,color='violet')
          plt.show()
```

In [12]:
```python
# new style method 1; unpack the axes
fig, ((ax1, ax2), (ax3, ax4)) = plt.subplots(2, 2, sharex=False, sharey=F
ax1.plot(x,y)
ax2.plot(x,y,'r')
ax3.plot(x,y,'k')
ax4.plot(x,z,color='green')
ax4.plot(x,y,color='violet')
plt.show()
```


In [ ]: