

In [1]:

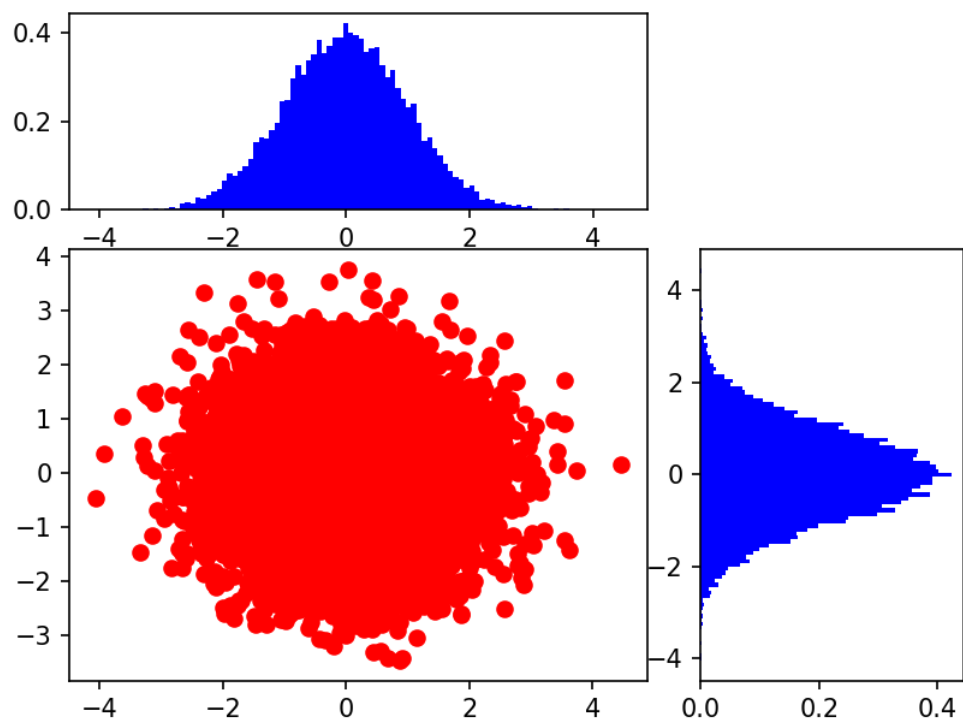
```
%matplotlib notebook  
import matplotlib.pyplot as plt  
import numpy as np  
import matplotlib.gridspec as gridspec
```

In [2]:

```
plt.figure()
gspec=gridspec.GridSpec(3,3)

top_histogram=plt.subplot(gspec[0,0:2])#0~3까지 사용
side_histogram=plt.subplot(gspec[1:,0:2])
lower_right=plt.subplot(gspec[1:,2:])

Y=np.random.normal(loc=0, scale=1, size=10000)
X=np.random.normal(loc=0, scale=1, size=10000)
top_histogram.hist(X,bins=100,color='blue',density=True)
side_histogram.scatter(X,Y,color='red')
lower_right.hist(X,bins=100,orientation='horizontal',color='blue',
                 ,density=True)
```



Out[2]:

```
(array([0.00117376, 0.00117376, 0.          , 0.          , 0.00117376,
        0.          , 0.          , 0.          , 0.00234751, 0.00469503,
        0.00234751, 0.00469503, 0.00234751, 0.00469503, 0.00586878,
        0.00469503, 0.01525884, 0.01878011, 0.01408508, 0.02934392,
        0.02464889, 0.0352127 , 0.04225524, 0.04695027, 0.06573038,
        0.08333673, 0.07746795, 0.08803176, 0.09859557, 0.11502816,
        0.15258838, 0.16315219, 0.16197843, 0.18075854, 0.19836489,
        0.24531517, 0.25001019, 0.29696046, 0.32747814, 0.30635052,
        0.33804195, 0.35095327, 0.38616598, 0.3556483 , 0.37090714,
        0.39086101, 0.39086101, 0.42255244, 0.40142482, 0.39672979,
        0.38733973, 0.35799582, 0.36503836, 0.36738587, 0.32747814,
        0.30165549, 0.31574057, 0.27583284, 0.25118395, 0.2335776 ,
        0.24062014, 0.19601738, 0.15728341, 0.16432595, 0.14085081,
        0.12324446, 0.10563811, 0.08803176, 0.07394668, 0.07042541,
        0.05047154, 0.05516657, 0.04108149, 0.02230138, 0.02582265,
        0.02230138, 0.01525884, 0.01878011, 0.01173757, 0.00939005,
        0.01173757, 0.00586878, 0.00939005, 0.00352127, 0.00234751,
        0.00117376, 0.          , 0.00352127, 0.          , 0.00352127,
        0.00117376, 0.00117376, 0.          , 0.          , 0.          ,
        0.          , 0.          , 0.          , 0.          , 0.00117376])),
array([-4.05987236, -3.97467584, -3.88947931, -3.80428279, -3.71908626,
       -3.63388973, -3.54869321, -3.46349668, -3.37830015, -3.29310363,
       -3.2079071 , -3.12271057, -3.03751405, -2.95231752, -2.86712099,
       -2.78192447, -2.69672794, -2.61153141, -2.52633489, -2.44113836,
       -2.35594183, -2.27074531, -2.18554878, -2.10035225, -2.01515573,
       -1.9299592 , -1.84476267, -1.75956615, -1.67436962, -1.58917309,
       -1.50397657, -1.41878004, -1.33358351, -1.24838699, -1.16319046,
       -1.07799393, -0.99279741, -0.90760088, -0.82240436, -0.73720783,
       -0.6520113 , -0.56681478, -0.48161825, -0.39642172, -0.3112252 ,
       -0.22602867, -0.14083214, -0.05563562,  0.02956091,  0.11475744,
        0.19995396,  0.28515049,  0.37034702,  0.45554354,  0.54074007,
        0.6259366 ,  0.71113312,  0.79632965,  0.88152618,  0.9667227 ,
        1.05191923,  1.13711576,  1.22231228,  1.30750881,  1.39270534,
        1.47790186,  1.56309839,  1.64829492,  1.73349144,  1.81868797,
        1.9038845 ,  1.98908102,  2.07427755,  2.15947407,  2.2446706 ,
        2.32986713,  2.41506365,  2.50026018,  2.58545671,  2.67065323,
        2.75584976,  2.84104629,  2.92624281,  3.01143934,  3.09663587,
        3.18183239,  3.26702892,  3.35222545,  3.43742197,  3.5226185 ,
        3.60781503,  3.69301155,  3.77820808,  3.86340461,  3.94860113,
        4.03379766,  4.11899419,  4.20419071,  4.28938724,  4.37458377,
        4.45978029])),
<a list of 100 Patch objects>)
```

In [ ]:

In [ ]: