In [8]:
```python
import numpy as np
import pandas as pd
from numpy.random import randn

from scipy import stats

import matplotlib as mpl
import matplotlib.pyplot as plt
import seaborn as sns
```
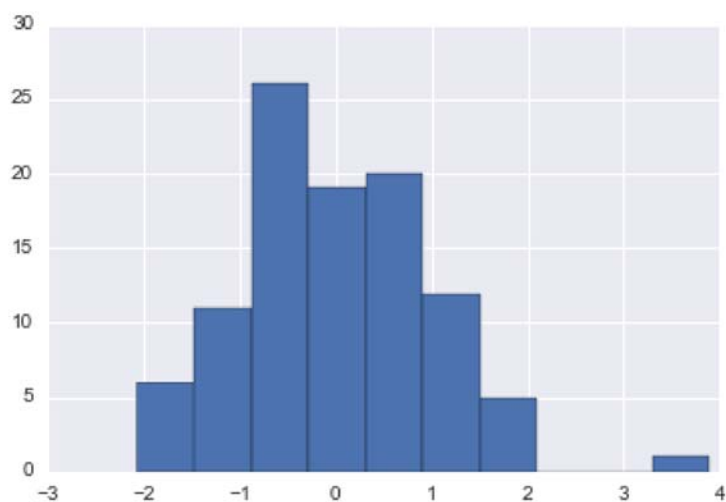
In [3]:
```python
%matplotlib inline
```

In [9]:
```python
dataset1 = randn(100)
```

In [10]:
```python
plt.hist(dataset1)
```
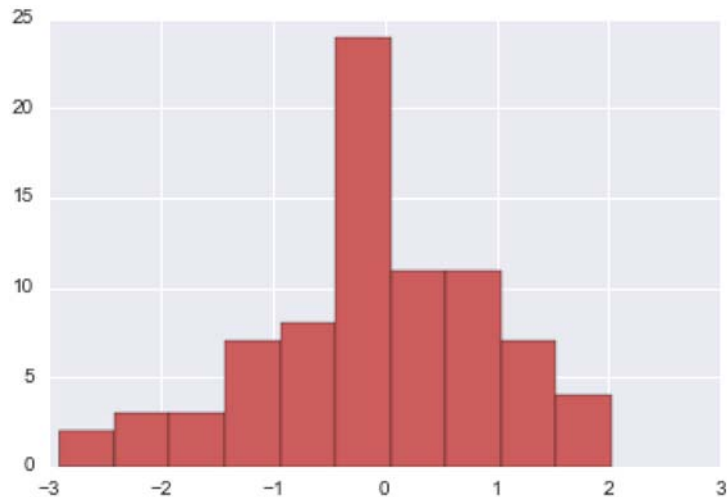
Out[10]:
```
(array([  6.,  11.,  26.,  19.,  20.,  12.,   5.,   0.,   0.,   1.]),
 array([-2.07688328, -1.47995646, -0.88302964, -0.28610282,  0.310824  ,
         0.90775082,  1.50467764,  2.10160447,  2.69853129,  3.29545811,
         3.89238493]),
 <a list of 10 Patch objects>)
```

```
In [11]: dataset2 = randn(80)

         plt.hist(dataset2, color='indianred')
```

```
Out[11]: (array([  2.,    3.,    3.,    7.,    8.,   24.,   11.,   11.,    7.,    4.]),
          array([-2.91296295, -2.41883363, -1.9247043 , -1.43057498, -0.93644565,
                 -0.44231633,  0.051813  ,  0.54594233,  1.04007165,  1.53420098,
                  2.0283303 ]),
          <a list of 10 Patch objects>)
```



```
In [12]: plt.hist(dataset1,normed=True,color='indianred',alpha=0.5,bins=20)
         plt.hist(dataset2,normed=True,alpha=0.5,bins=20)
```

```
Out[12]: (array([ 0.10118808,  0.        ,  0.05059404,  0.10118808,  0.15178213,
                  0.        ,  0.10118808,  0.25297021,  0.20237617,  0.20237617,
                  0.75891064,  0.45534638,  0.25297021,  0.30356425,  0.3541583 ,
                  0.20237617,  0.10118808,  0.25297021,  0.        ,  0.20237617]),
          array([-2.91296295, -2.66589829, -2.41883363, -2.17176896, -1.9247043 ,
                 -1.67763964, -1.43057498, -1.18351031, -0.93644565, -0.68938099,
                 -0.44231633, -0.19525166,  0.051813  ,  0.29887766,  0.54594233,
                  0.79300699,  1.04007165,  1.28713631,  1.53420098,  1.78126564,
                  2.0283303 ]),
          <a list of 20 Patch objects>)
```
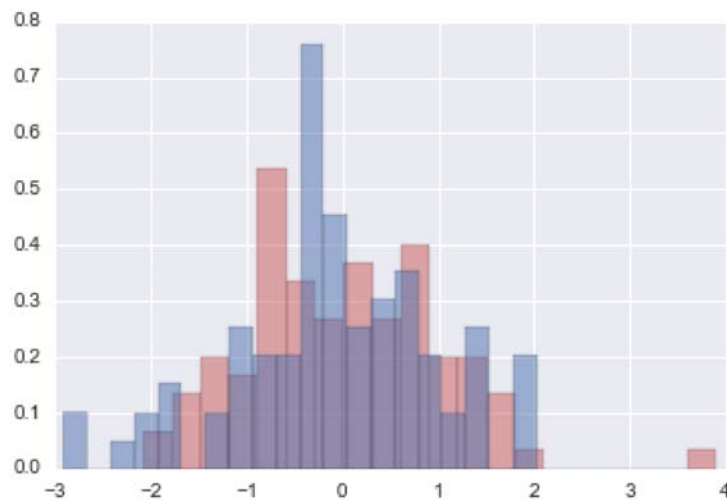
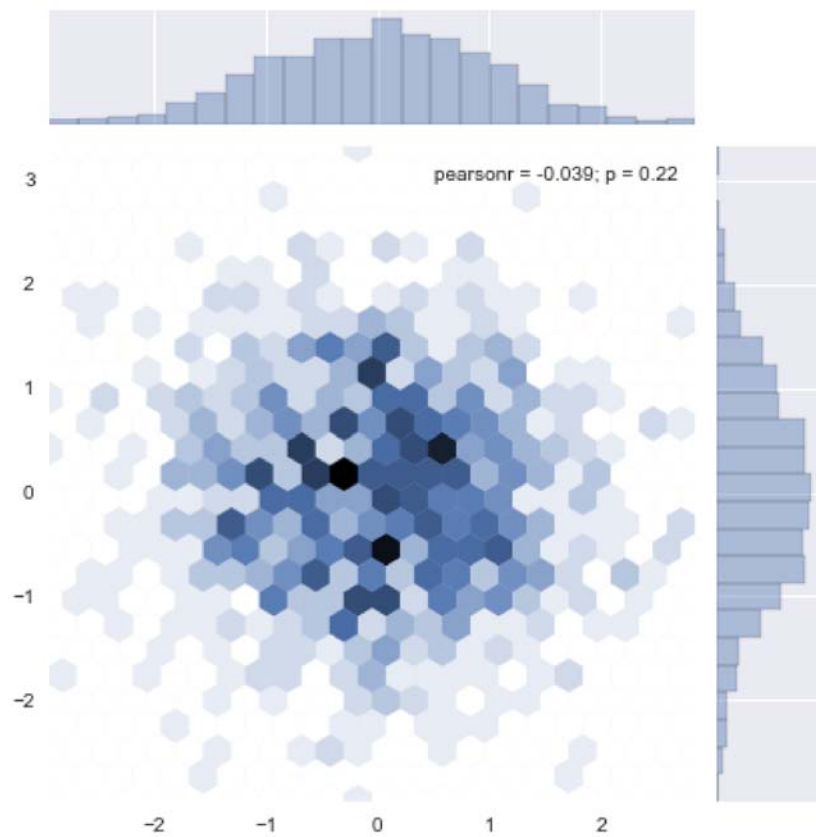In [13]: `data1 = randn(1000)`
          `data2 = randn(1000)`

In [14]: `sns.jointplot(data1,data2)`

Out[14]: `<seaborn.axisgrid.JointGrid at 0xb056cf8>`
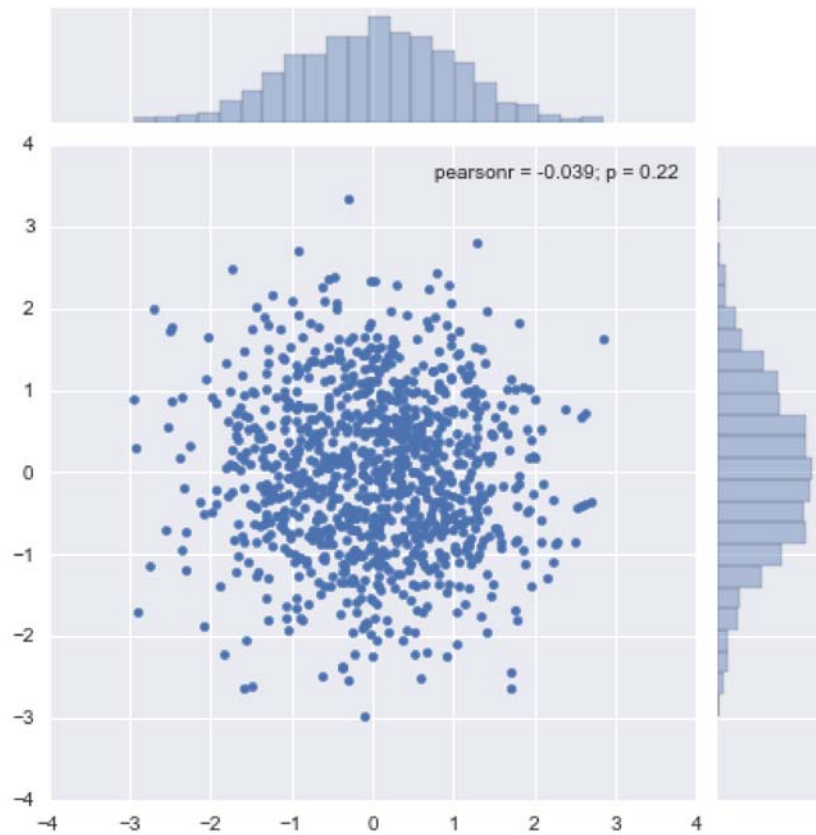
In [15]: `sns.jointplot(data1, data2, kind='hex')`

Out[15]: `<seaborn.axisgrid.JointGrid at 0xb3ae4e0>`

In [ ]: