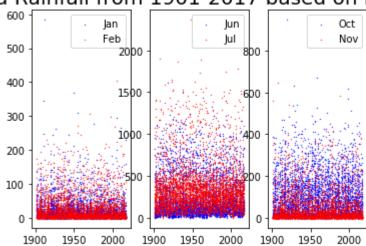
Scatter Plot

```
import matplotlib.pyplot as plt
import numpy as np
from pylab import *
df.columns
     Index(['SUBDIVISION', 'YEAR', 'JAN', 'FEB', 'MAR', 'APR', 'MAY', 'JUN', 'JUL',
            'AUG', 'SEP', 'OCT', 'NOV', 'DEC', 'ANNUAL', 'JF', 'MAM', 'JJAS',
            'OND'],
           dtype='object')
subplot(1,3,1)
plt.scatter(df.YEAR,df.JAN,c='b',s=0.1,label='Jan')
plt.scatter(df.YEAR,df.FEB,c='R',s=0.1,label='Feb')
plt.legend()
subplot(1,3,2)
plt.title('India Rainfall from 1901-2017 based on months', fontsize=20)
plt.scatter(df.YEAR,df.JUN,c='b',s=0.1,label='Jun')
plt.scatter(df.YEAR,df.JUL,c='R',s=0.1,label='Jul')
plt.legend()
subplot(1,3,3)
plt.scatter(df.YEAR,df.OCT,c='b',s=0.1,label='Oct')
plt.scatter(df.YEAR,df.NOV,c='R',s=0.1,label='Nov')
plt.legend()
С→
```

<matplotlib.legend.Legend at 0x7f077c6f0630>

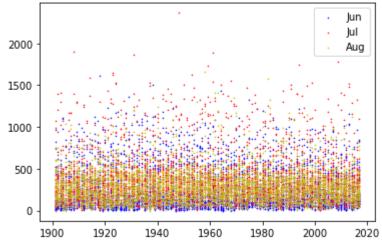
India Rainfall from 1901-2017 based on months



```
plt.title('India Rainfall from 1901-2017 based on months', fontsize=20)
plt.scatter(df.YEAR,df.JUN,c='b',s=0.3,label='Jun')
plt.scatter(df.YEAR,df.JUL,c='R',s=0.3,label='Jul')
plt.scatter(df.YEAR,df.AUG,c='y',s=0.3,label='Aug')
plt.legend()
```

C→ <matplotlib.legend.Legend at 0x7f077c638fd0>

India Rainfall from 1901-2017 based on months

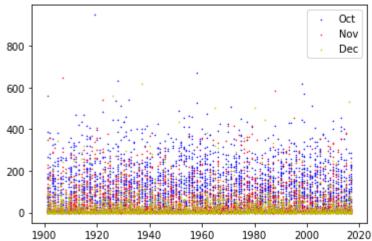


```
plt.title('India Rainfall from 1901-2017 based on months', fontsize=20)
plt.scatter(df.YEAR,df.OCT,c='b',s=0.3,label='Oct')
plt.scatter(df.YEAR,df.NOV,c='R',s=0.3,label='Nov')
plt.scatter(df.YEAR,df.DEC,c='y',s=0.3,label='Dec')
plt.legend()
```

 \Box

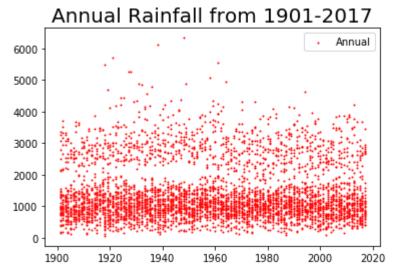
<matplotlib.legend.Legend at 0x7f077ae22dd8>

India Rainfall from 1901-2017 based on months



plt.title('Annual Rainfall from 1901-2017', fontsize=20)
plt.scatter(df.YEAR,df.ANNUAL,c='r',s=1,label='Annual')
plt.legend()

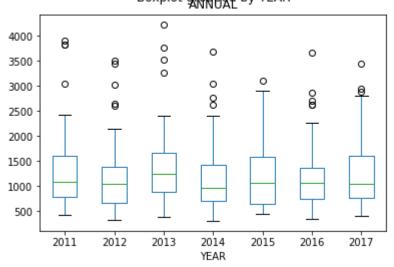
<matplotlib.legend.Legend at 0x7f077ad75c50>



- Box Plot

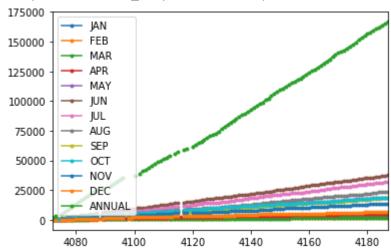
df3=df[df['YEAR']>2010]
df3.boxplot(by ='YEAR', column =['ANNUAL'], grid = False)

С→



- Line Plot

C→ <matplotlib.axes._subplots.AxesSubplot at 0x7f077abd6048>



C→ <matplotlib.axes._subplots.AxesSubplot at 0x7f077aacacc0>

