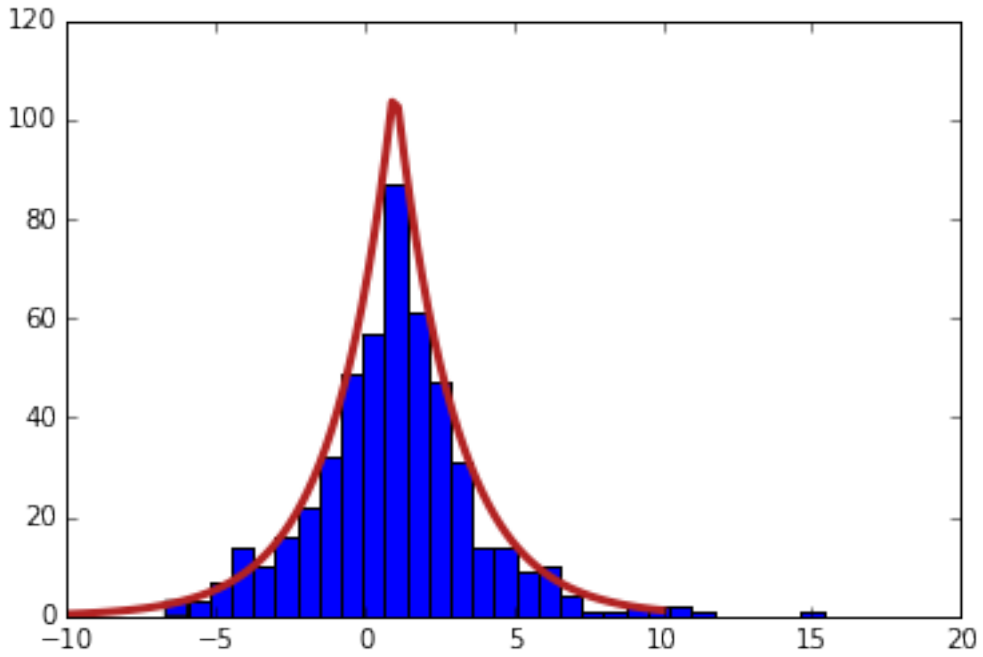
5.1

June 1, 2016

In [2]:
```
import numpy as np
import matplotlib.pyplot as plt
% matplotlib inline
```

In [3]:
```
def Finv(x, mu, b):
    return mu - b * np.sign(x - .5)*np.log(1 - 2*np.absolute(x - .5))
def Fpdf(x, mu, b):
    return 1/(2*b)*np.exp(-np.absolute(x-mu)/b)
```

In [15]:
```
samples = Finv(np.random.random(500), 1, 2)
numbins = 30
plt.hist(samples, numbins)
xs = np.linspace(-10, 10, 100)
plt.plot(xs, Fpdf(xs, 1, 2)*((26*len(samples))/numbins), color="firebrick", linewidth=3)
plt.show()
```



In [ ]: