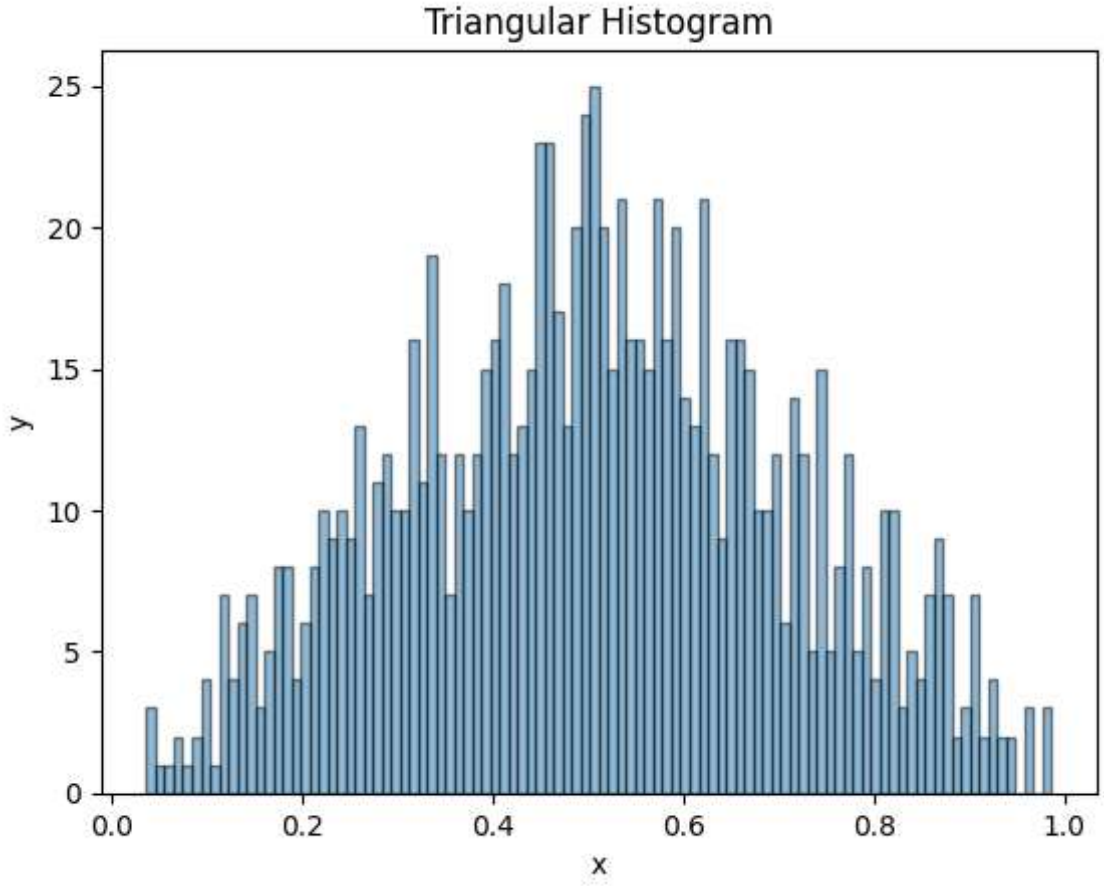
## Triangular Histogram

In [ ]:
```
#imports for numpy and matplotlib usage
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
```

In [ ]:
```
#set n to 1000 for 1000 random numbers between 0 and 1
n = 1000

#Creates triangular random between 0 and 1
#The size is n and the mode is 0.5 allowing it to peak in the middle
x = np.random.triangular(0.0, 0.5,1.0, size=n)

#plotting for histogram, idea from professor
#bins set to 100 for the 100 bins, inspired from:https://stackoverflow.com/question
plt.hist(x, bins = 100,alpha = 0.5, edgecolor = 'black')

# labeling x axis as x
plt.xlabel('x')

#labeling y axis as y
plt.ylabel('y')

#titling the histogram as Triangular Histogram
plt.title('Triangular Histogram')
```

Out[ ]:
```
Text(0.5, 1.0, 'Triangular Histogram')
```


Triangular Histogram
25
20
15
10
5
0
y
0.0
0.2
0.4
0.6
0.8
1.0
x