

Triangular Histogram

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In [ ]: #imports for numpy and matplotlib usage
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
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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 Histogram
plt.title('Triangular Histogram')
```

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

Triangular Histogram

