ses9prompt

January 30, 2024

0.1 Import Matplotlib and numpy

[17]:
```
import matplotlib.pyplot as plt
import numpy as np
```

0.2 Use numpy to pull 1000 random numbers distributed uniformly between [0, 1]

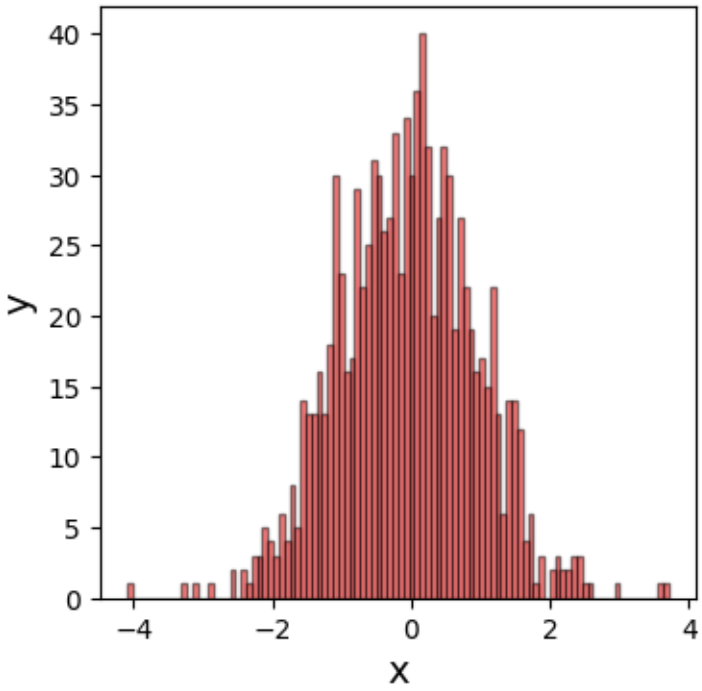
x = np.random.rand(1000)

0.3 Histogram the random numbers into 100 bins, and plot the histogram with labeled axes.

[18]:
```
f, ax = plt.subplots(1, 1, figsize = (4, 4))

ax.hist(x, facecolor = "red", bins = 100, edgecolor = "black", alpha = 0.5)
ax.set_xlabel("x", fontsize = 14)
ax.set_ylabel("y", fontsize = 14)

plt.savefig("ses9prompt.png", bbox_inches = "tight", dpi = 400)
```



0.3.1 ACCORDING TO THE NUMPY API, numpy.random.rand(x) RETURNS AN x AMOUNT OF RANDOM VALUES BETWEEN 0 AND 1.