

ses10prompt

January 30, 2024

0.1 Import Matplotlib and numpy

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

0.2 Pull 1000 random numbers from numpy.random.exponential(scale, size)

```
[3]: x = np.random.exponential(scale = 1, size = 1000)
```

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

```
[4]: 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("ses10prompt.png", bbox_inches = "tight", dpi = 400)
```

