matplotlib_example

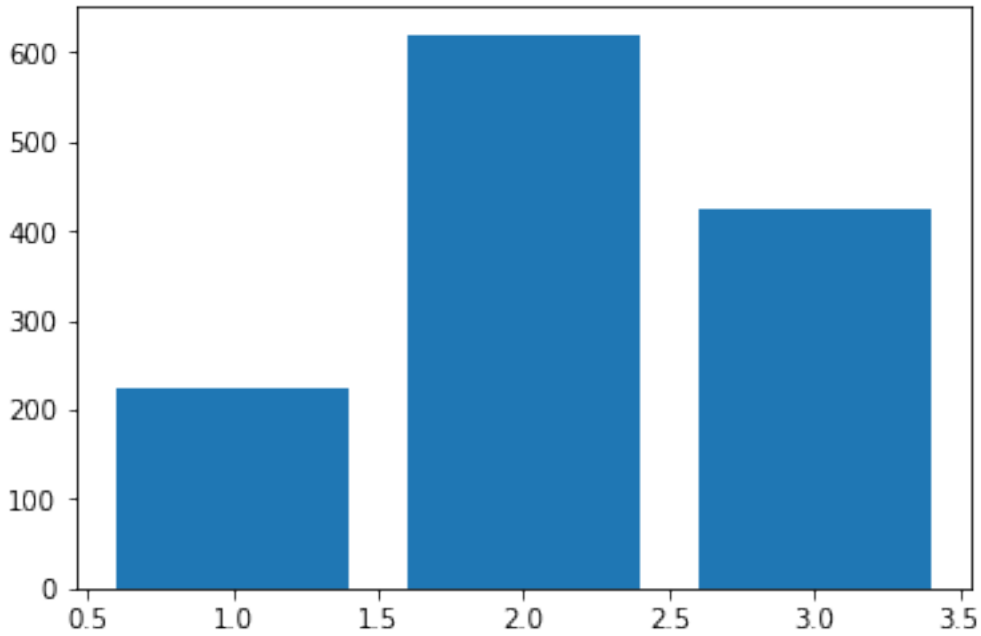
October 19, 2017

1 Creating a Bar Chart Using Matplotlib

```
In [1]: import matplotlib.pyplot as plt
        % matplotlib inline
```

There are two required arguments in pyplot's `bar` function: the x-coordinates of the bars, and the heights of the bars.

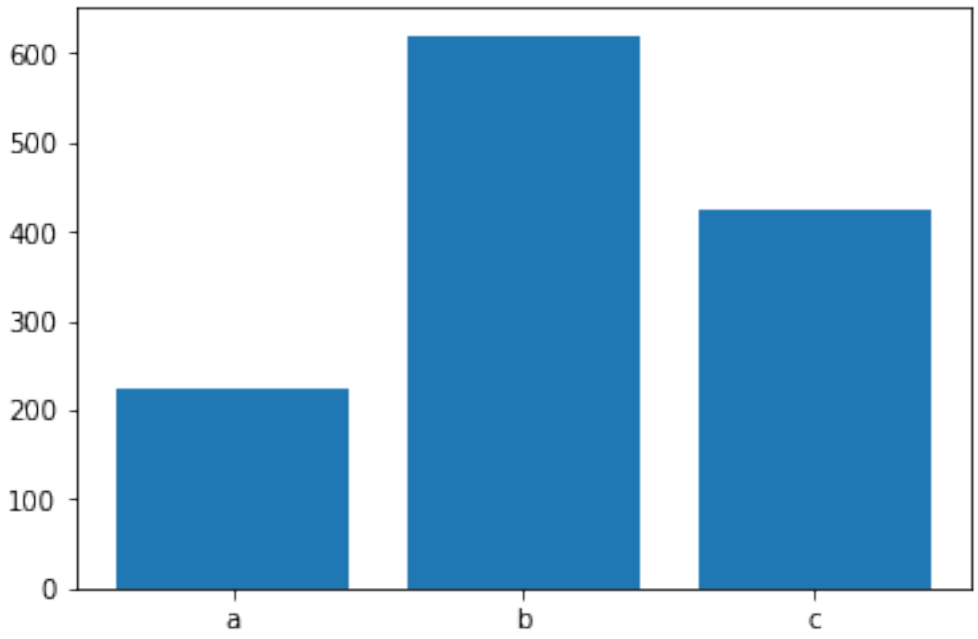
```
In [2]: plt.bar([1, 2, 3], [224, 620, 425]);
```



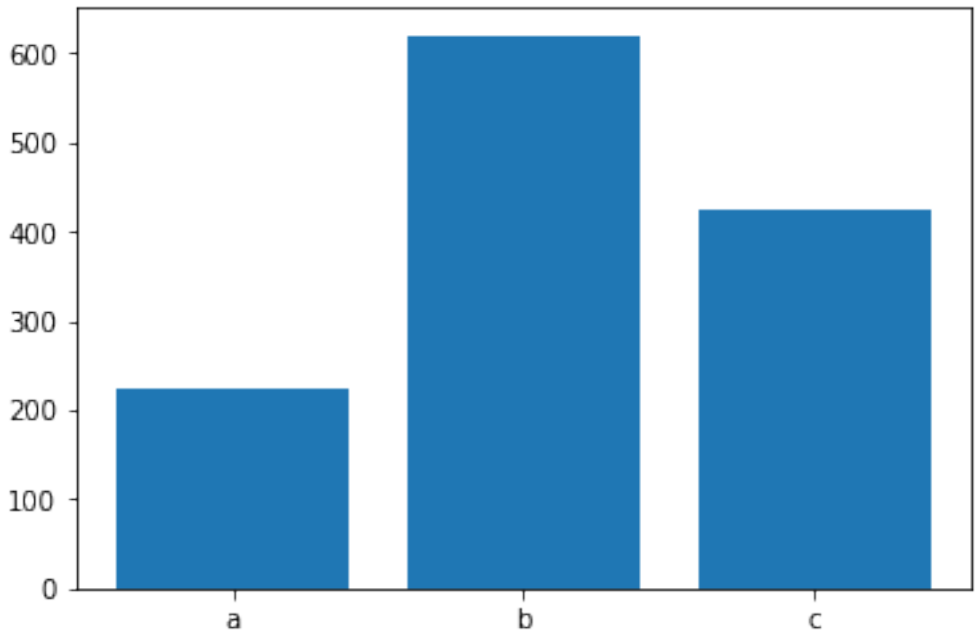
You can specify the x tick labels using pyplot's `xticks` function, or by specifying another parameter in the `bar` function. The two cells below accomplish the same thing.

```
In [3]: # plot bars
        plt.bar([1, 2, 3], [224, 620, 425])
```

```
# specify x coordinates of tick labels and their labels
plt.xticks([1, 2, 3], ['a', 'b', 'c']);
```

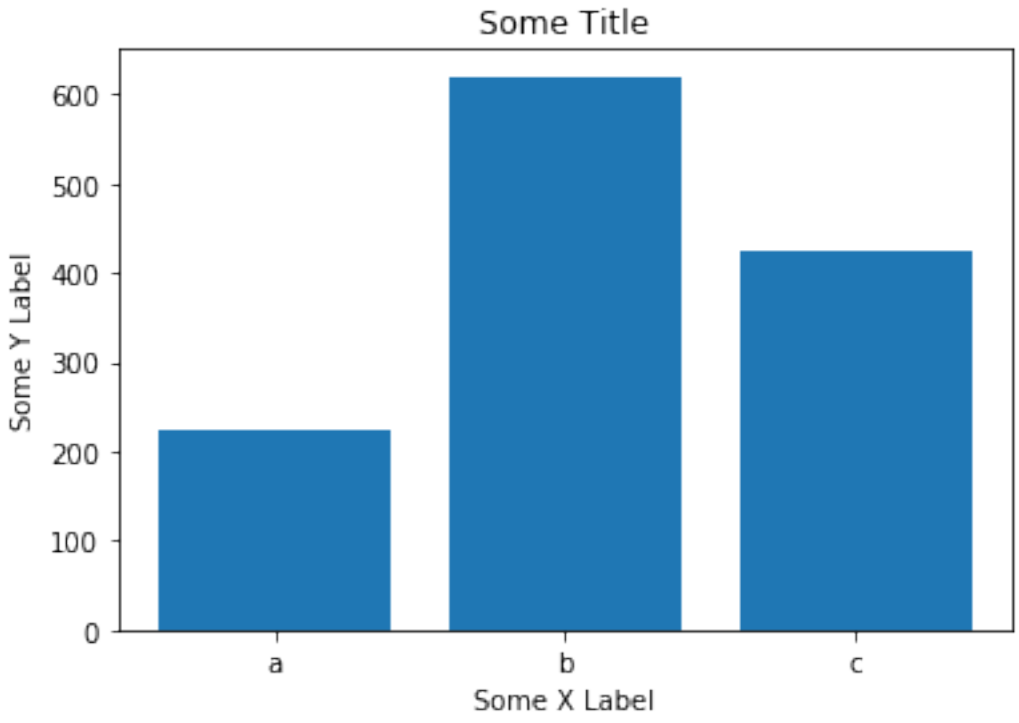


In [4]:
```
# plot bars with x tick labels
plt.bar([1, 2, 3], [224, 620, 425], tick_label=['a', 'b', 'c']);
```



Set the title and label axes like this.

```
In [5]: plt.bar([1, 2, 3], [224, 620, 425], tick_label=['a', 'b', 'c'])
        plt.title('Some Title')
        plt.xlabel('Some X Label')
        plt.ylabel('Some Y Label');
```




```
In [ ]:
```