





INTRO TO PYTHON FOR DATA SCIENCE

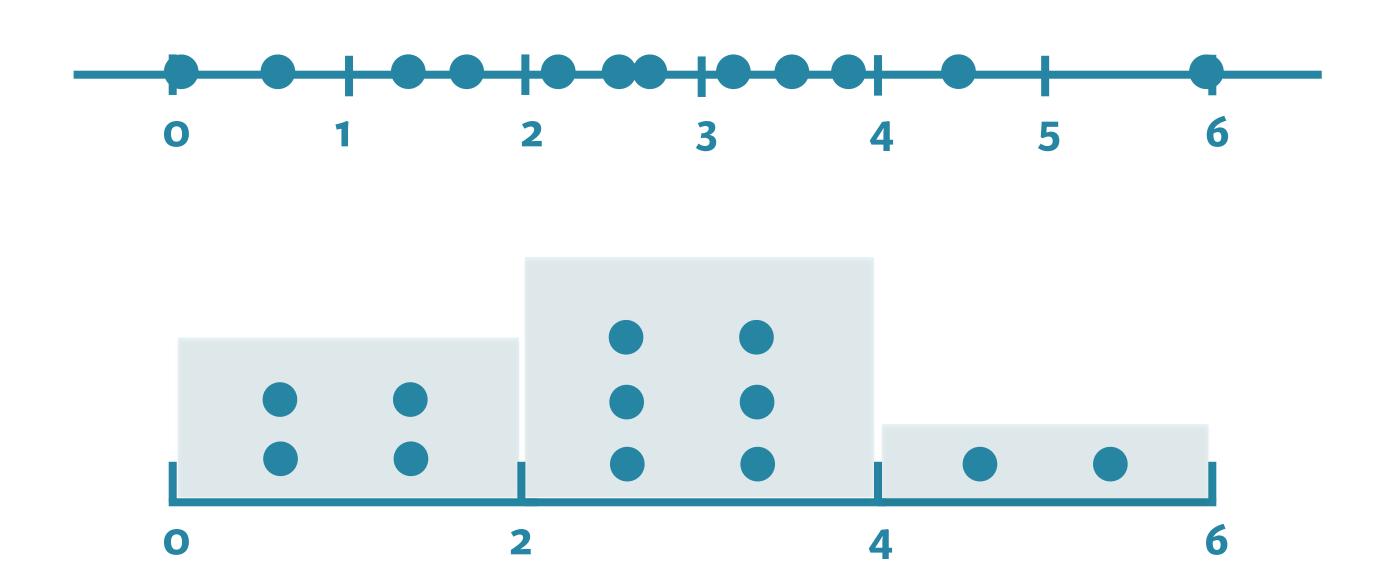
Histograms





Histogram

- Explore dataset
- Get idea about distribution







Matplotlib

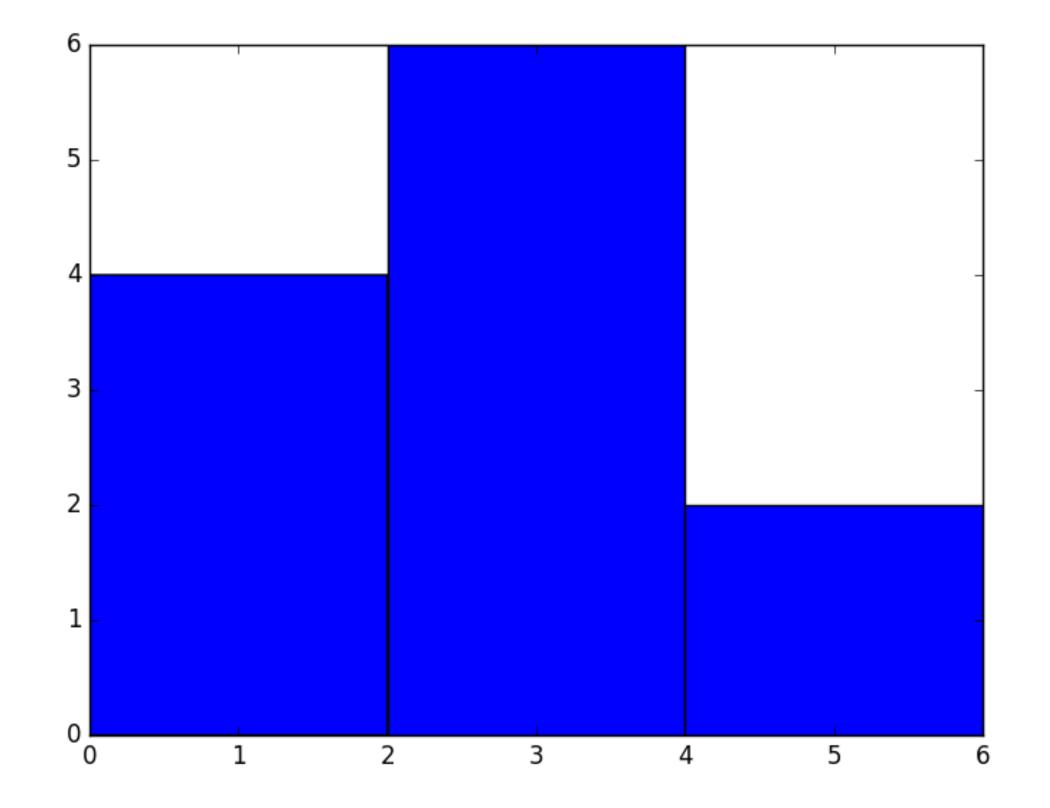
```
In [1]: import matplotlib.pyplot as plt
In [2]: help(plt.hist)
  Help on function hist in module matplotlib.pyplot:
  hist(x, bins=10, range=None, normed=False, weights=None,
  cumulative=False, bottom=None, histtype='bar', align='mid',
  orientation='vertical', rwidth=None, log=False, color=None,
  label=None, stacked=False, hold=None, data=None, **kwargs)
      Plot a histogram.
      Compute and draw the histogram of *x*. The return value is a
      tuple (*n*, *bins*, *patches*) or ([*n0*, *n1*, ...],
      *bins*, [*patches0*, *patches1*,...]) if the input contains
      multiple data.
  • • •
```





Matplotlib example

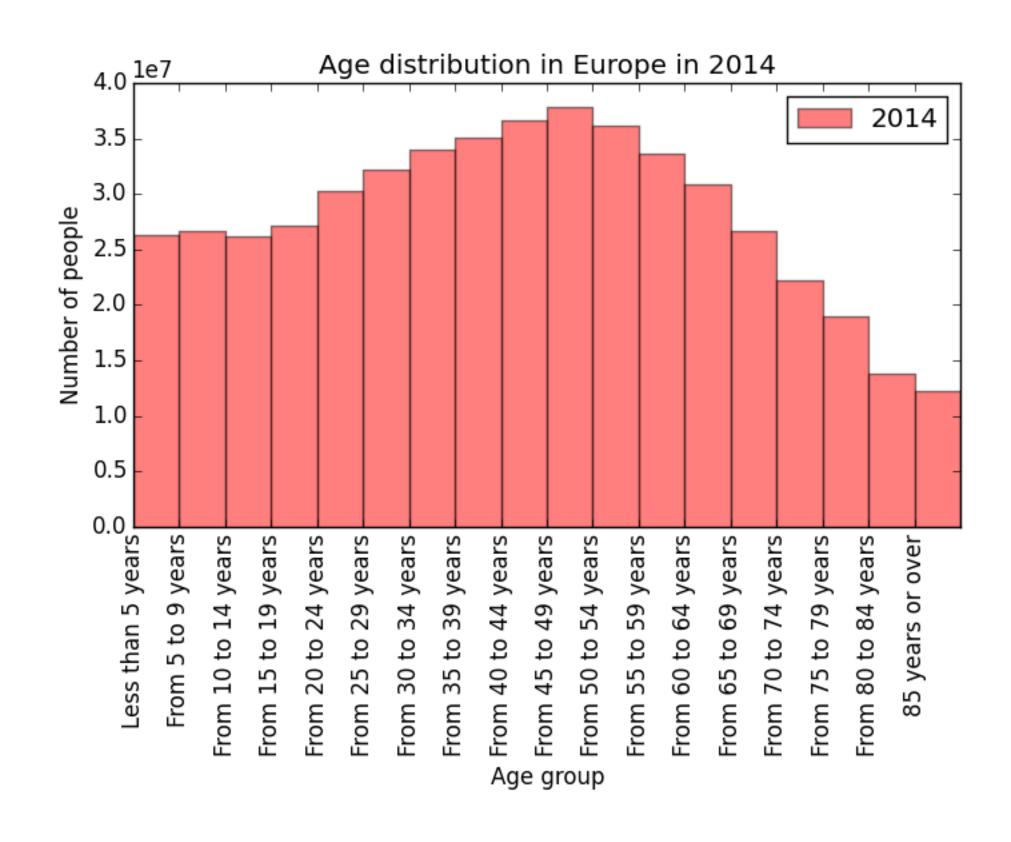
```
In [3]: values = [0,0.6,1.4,1.6,2.2,2.5,2.6,3.2,3.5,3.9,4.2,6]
In [4]: plt.hist(values, bins = 3)
In [5]: plt.show()
```

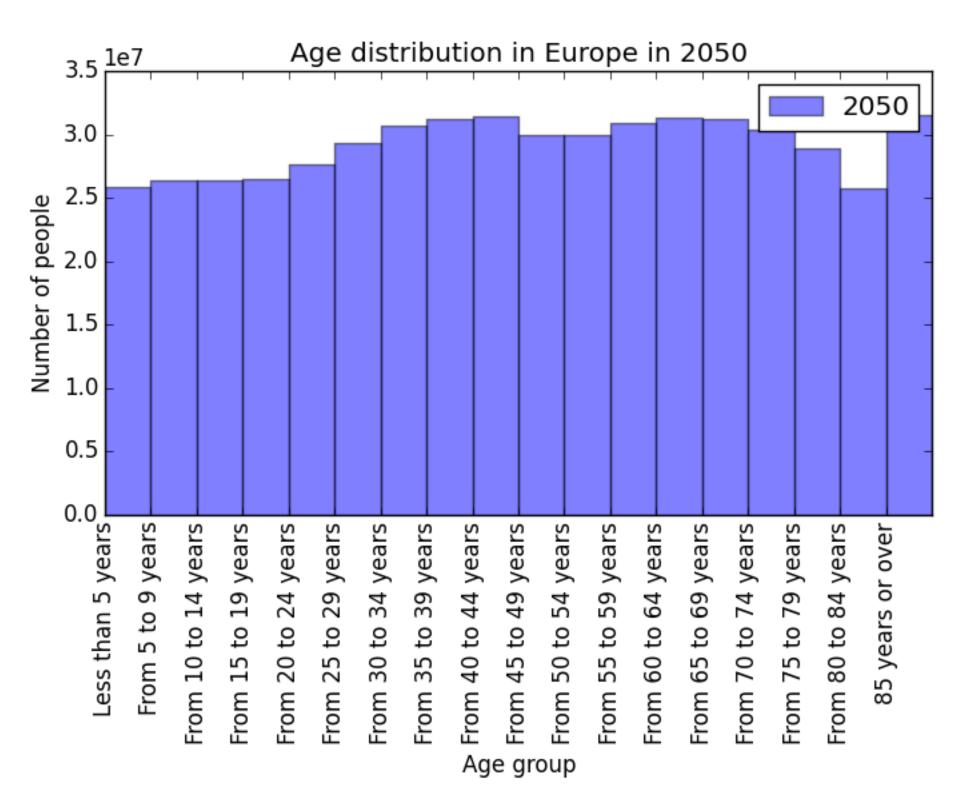






Age Distribution











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Let's practice!