Mean / Median

Mean = Average	**np.average***(array)*
Median	**np.median***(array)*
Mode	**stats.**mode*(array)*

Mean = Average
Median = Center of a dataset
Mode = Most common value in a dataset
-> (**from** *scipy* **import** *stats*)

Range

min	np.**amin**(data)
max	np.**amax**(data)
range	max - min

Variance

```
# Variance
-> Tells us how spread out the
Data is
# Variance in numpy
variance = np.var(dataset)
# Build Variance from ground up
example
grades = [88, 82, 85, 84, 90]
mean = np.mea n(g rades)
# When calcul ating these
variables, square the differ -
ence.
differ enc e_one = (88 - mean)
** 2
differ enc e_two = (82 - mean)
** 2
differ enc e_three = (85 - mean)
** 2
differ enc e_four = (84 - mean)
** 2
differ enc e_five = (90 - mean)
** 2
differ enc e_sum = differ enc -
e_one + ... + differ enc e_five
variance = differ enc e_sum / 5
```

Standard Deviation

```
# Standard Deviation in numpy
dataset = [4, 8, 15, 16, 23, 42]
standa rd_ dev iation =
np.std(dataset)
```

Histogram

```
# Specify the Bin-Range
bin_range = (max_value -
min_value + 1) / bins
# Histogram
times_hist = np.his togram(data,
range = (0, 24), bins = 4)
```


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