| Mean / Median |  |
| :---: | :---: |
| Mean = Average | np.average(array) |
| Median | np.median(array) |
| Mode | stats.mode(array) |
| Mean = Average <br> Median = Center of a dataset <br> Mode = Most common value in a dataset <br> -> (from scipy import stats) |  |
| Range |  |
| min np.amin(data) |  |
| $\max$ np.amax(data) |  |
| range m | min |

## Variance

## \# Variance

-> Tells us how spread out the Data is
\# Variance in numpy
variance $=n p . \operatorname{var}($ dataset $)$
\# Build Variance from ground up example
grades $=[88,82,85,84,90]$
mean $=$ np.mean (grades)
\# When calculating these
variables, square the difference.
difference_one $=(88-$ mean $)$ **
2
difference_two = (82 - mean) **
2
difference_three $=(85-$ mean $)$
** 2
difference_four = (84 - mean) ** 2
difference_five = (90 - mean) ** 2
difference_sum = difference_one + ... + difference_five variance = difference_sum / 5

```
Standard Deviation
# Standard Deviation in numpy
dataset = [4, 8, 15, 16, 23, 42]
standard_deviation = np. std(d-
ataset)
```


## Histogram

```
# Specify the Bin-Range
```


# Specify the Bin-Range

bin_range = (max_value - min_v-
bin_range = (max_value - min_v-
alue + 1) / bins
alue + 1) / bins

# Histogram

# Histogram

times_hist = np.histogram(data,
times_hist = np.histogram(data,
range = (0, 24), bins = 4)

```
range = (0, 24), bins = 4)
```



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