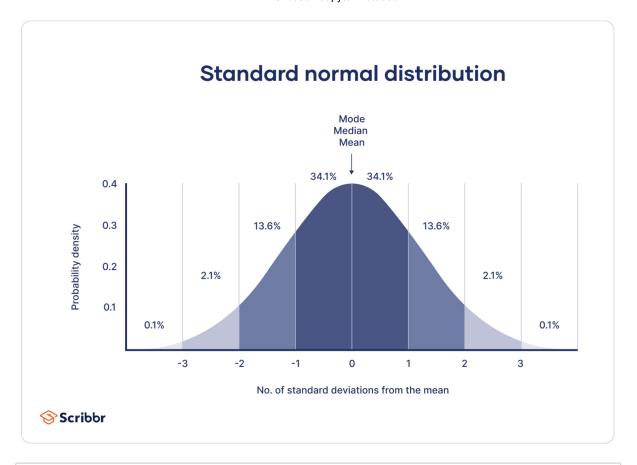
```
In [ ]: Variable or data type
        1- qualilative -- categorical
            1 - nominal
            2- ordinal -- Humam life cycle,
        2- quantative -- Numerical
            1- discreate
            2- Continuous -- 12.5,167.5
In [ ]: Sample -- small data
        Population --- full data
        Sampling -- collection of sample results
In [ ]: Range
        highest value
        lowest values
        range = highest value - lowest value
In [1]: | 1st = [37,45,66,77,12,34,56,79]
        max_value = max(lst)
        print(max_value)
        min_value = min(lst)
        print(min_value)
        range = max_value - min_value
        range
        79
        12
Out[1]: 67
```



```
In []: Mean - x

Standard deviation

Empiricial Rule
Rule 1
pr[mu-sigma <=x <=mu+sigma] ~ 68%
Rule2
pr[mu-2sigma <=x <=mu+2sigma] ~ 95%

Rule3
pr[mu-3sigma <=x <=mu+3sigma] ~ 99.7%</pre>
```