

In []: - Variables **or** Data types
- Normal distribution

Variables or Data types

In []: 1- Qualitative(categorical) data

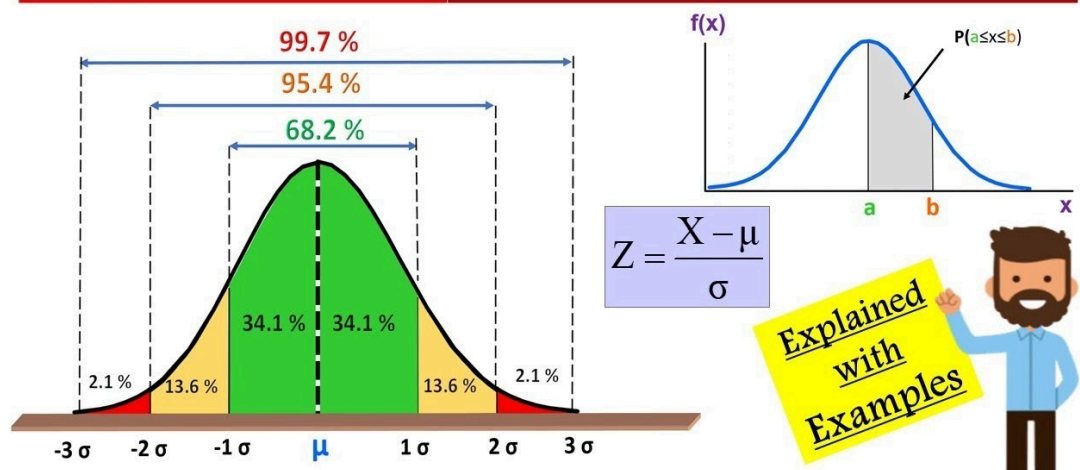
- 1- Nominal Data
 - Categories **with** no inherent order **or** ranking
 - examples - Blood group(A,B,AB,O) hair color(black, brown) , Gender(M,F)
- 2- Ordinal data
 - Categories that have a natural order **or** ranking
 - exaples - Human life cycle(Born-->child-->adult-->midage-->old age),

2- Qunatative(numerical) data

- 1- discreate Data
 - countable whole number ---> often repretensing "How Many"
 - examples- cricket match,No of children **in** your family
- 2- continuous Data
 - can take any value **from** the range
 - examples - heights, weight, temperature

Standard Normal Distribution

Normal Distribution



In []: A special Bell-shaped probability distribution **with** mean = 0 And sigma(standard deviation)

- Properties(empirical rules)
 - 1- About **68%** of data falls within **1** standrad deviation of the mean
 - 2- About **95%** of data falls within **2** standrad deviation
 - 3- About **99%** of data falls within **3** standrad deviation