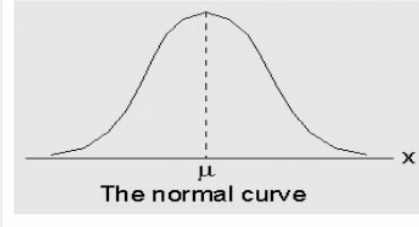


Equation of the normal distribution

$$f(x) = \frac{1}{\sigma\sqrt{2\pi}} e^{-\frac{(x-\mu)^2}{2\sigma^2}}$$



The curve is bell shaped and symmetrical about the mean.
The mean, the median and the mode are equal.
The center of the curve is determined by the value of μ .
The spread of the curve is determined by the value of σ .

Three Sigma Rules

The area between $\mu-\sigma$ and $\mu+\sigma$ is 67%
The area between $\mu-2\sigma$ and $\mu+2\sigma$ is 95%
The area between $\mu-3\sigma$ and $\mu+3\sigma$ is 99.7%

The "Z" transformation

$$Z = \frac{X_i - \mu}{\sigma}$$

The Z transformation standardize any normal distribution to a different normal distribution where $\mu = 0$ and $\sigma^2 = 1$.

C

By **Richard Bekhazi**
(RichardBekhazi)

Not published yet.
Last updated 15th March, 2015.
Page 1 of 1.

Sponsored by **Readability-Score.com**
Measure your website readability!
<https://readability-score.com>