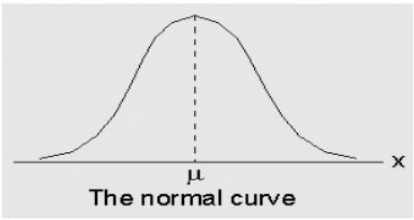
Equation of the normal distribution

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



The normal curve

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.

The "Z" transformation

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

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

Three Sigma Rules

The area between μ-σ and μ+σ is 67%
The area between μ-2σ and μ+2σ is 95%
The area between μ-3σ and μ+3σ is 99.7%

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