ESTANDARIZAR

Media(x) = M
Media(constante) = constante
Media (a x) = a M
Media (x + y) = Mx + My

Varianza(x) = V = sigma **2
Varianza (constante) = 0
Varianza (a x) = a**2 V
Varianza(x + constante) = Varianza(x) = V

z = (x – M)/ sigma

Media(z) = Media ((x-M)/sigma) =
Media(x/sigma) – Media(M/sigma) =
1/sigma x Media(x) – 1/sigma x Media(M) =
1/sigma x M – 1/sigma x M = 0

Varianza(z) = Varianza ((x-M)/sigma) =
1/sigma**2 x Varianza(x-M) =
1/V x Varianza(x) = 1/V x V = 1

ESCALAR

$t = x - MIN / (MAX-MIN)$

$min(t) = min(x) - MIN / RANGO = (MIN - MIN) / RANGO = 0 \rightarrow$ mínimo en 0

$max(t) = max(x) - MIN / RANGO = (MAX - MIN) / RANGO = 1 \rightarrow$ máximo en 1