

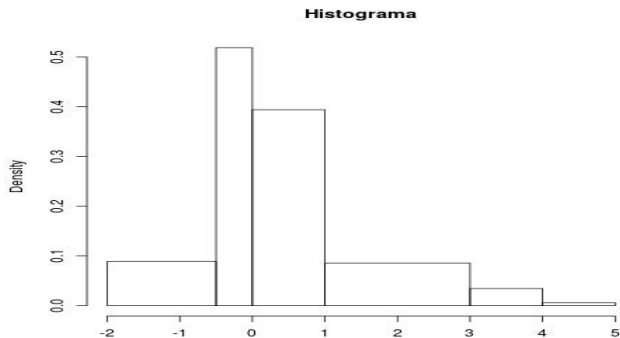
Medidas de resumen

- n datos: x_1, x_2, \dots, x_n
- datos ordenados $x_{(1)} \leq x_{(2)} \leq \dots \leq x_{(n)}$ - en R: `sort(datos)`

<code>mean(datos)</code>	\bar{x}
<code>median(datos)</code>	\tilde{x}
<code>quantile(datos, alfa)</code>	$x_{([n\alpha])}$
<code>quantile(datos,0.25)</code>	Q_1 primer cuartil
<code>quantile(datos,0.75)</code>	Q_3 tercer cuartil
<code>min(datos), max(datos)</code>	$x_{(1)}, x_{(n)}$
<code>mean(datos,trim = alfa)</code>	$\bar{x}_\alpha = \{x_{([n\alpha])} + \dots + x_{(n-[n\alpha])}\} / (n - 2[n\alpha])$
<code>var(datos)</code>	$s^2 = \sum (x_i - \bar{x})^2 / (n - 1)$
<code>sd(datos)</code>	$\sqrt{s^2}$
<code>IQR(datos)</code>	$d_I = Q_3 - Q_1$
<code>mad(datos)</code>	mediana($ x_i - \tilde{x} $)

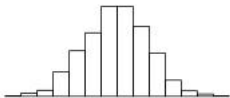
Histograma: Area=Frecuencia Relativa - en R hist(datos)

int.:	$[-2, -0.5)$	$[-0.5, 0)$	$[0, 1)$	$[1, 3)$	$[3, 4)$	$[4, 5)$
frec.:	174	337	512	223	45	8
fre. rel.:	$174/n$	$337/n$	$512/n$	$223/n$	$45/n$	$8/n$

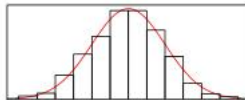


Histogramas- Media & Mediana

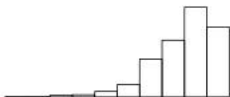
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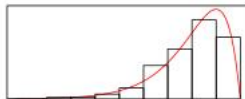
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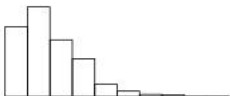
Colas pesada a izquierda



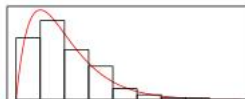
Colas pesada a izquierda



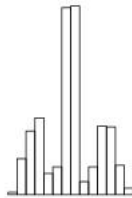
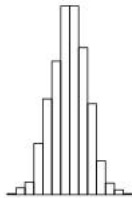
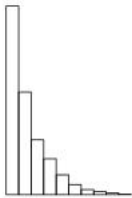
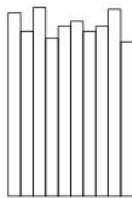
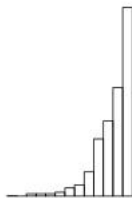
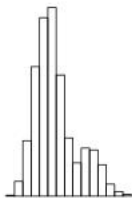
Colas pesada a Derecha



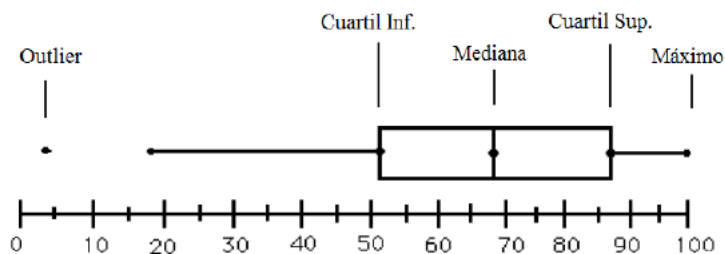
Colas pesada a Derecha



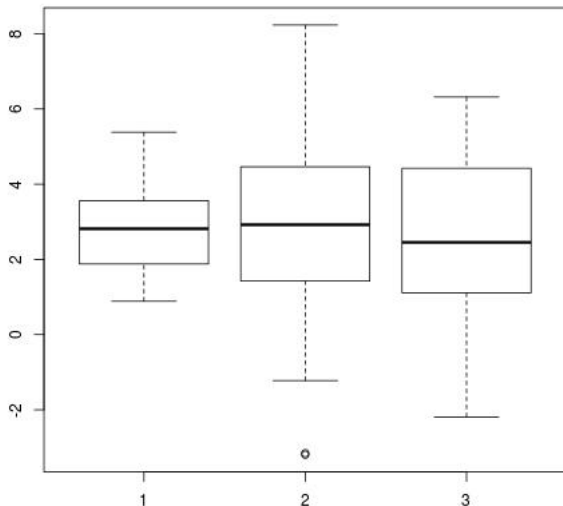
Histogramas - Moda: *pico*



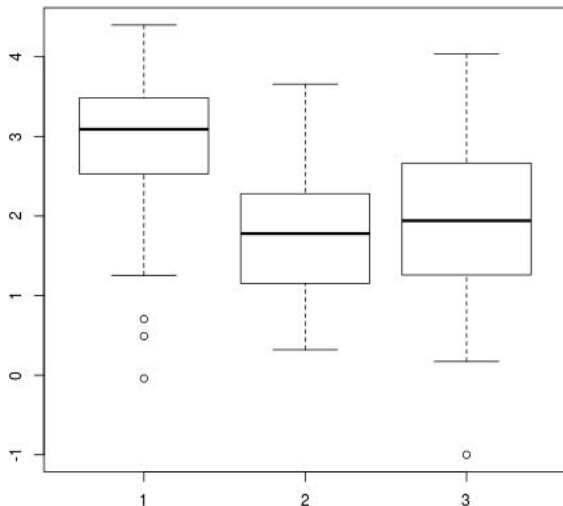
Boxplot - en R boxplot(datos)



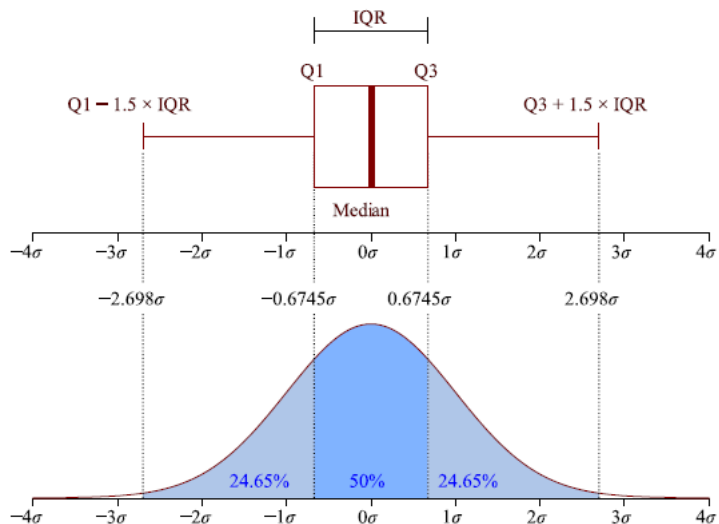
Boxplot - en R `boxplot(datos)`



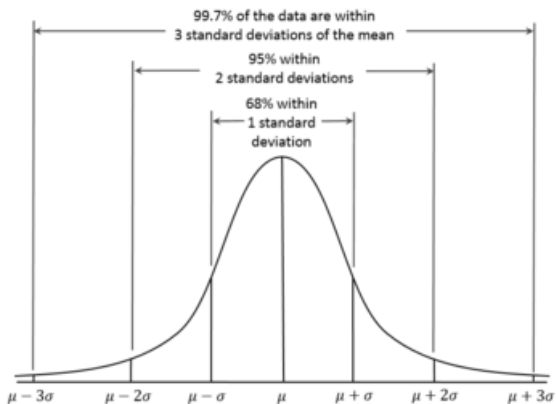
Boxplot - en R `boxplot(datos)`



Datos normales (Gracias Daniela!)

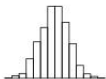


Regla Normal

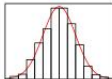


qqnorm(datos)

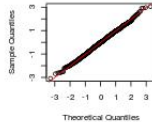
Acampanado



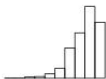
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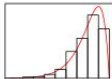
qqnorm



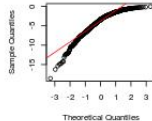
Colas pesada a Izquierda



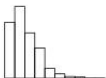
Colas pesada a Izquierda



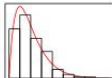
qqnorm



Colas pesada a Derecha



Colas pesada a Derecha



qqnorm

