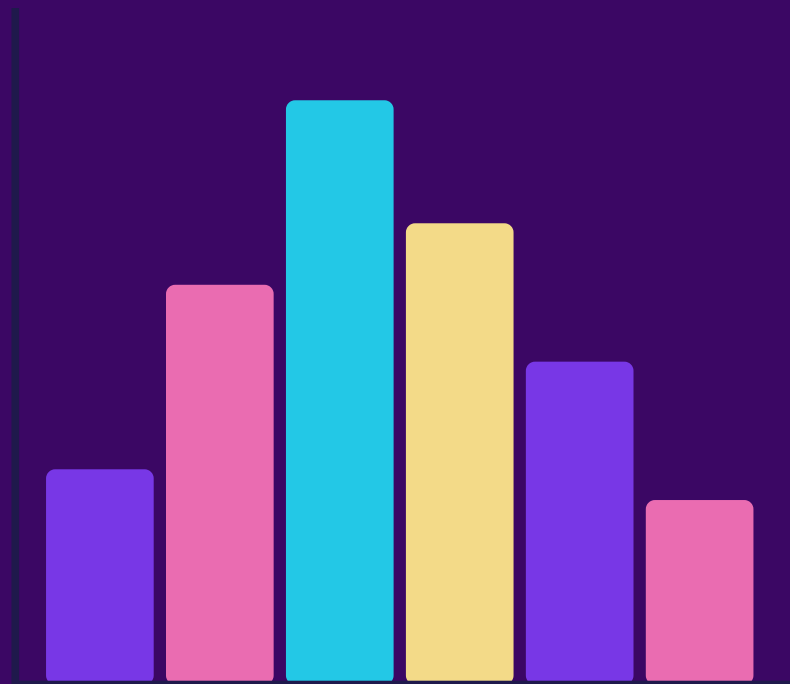


Statistics

**Class mark**

$$x_i = \frac{\text{upper} + \text{lower limit}}{2}$$

Mean: direct

$$\bar{x} = \frac{\sum f_i x_i}{\sum f_i}$$

Assumed mean,
 $d_i = x_i - a$

$$\bar{x} = a + \frac{\sum f_i d_i}{\sum f_i}$$

Step deviation,
 $u_i = \frac{x_i - a}{h}$

$$\bar{x} = a + \frac{\sum f_i u_i}{\sum f_i} \times h$$

Mode

$$l + \frac{f_1 - f_0}{2f_1 - f_0 - f_2} \times h$$

Median

$$l + \frac{\frac{n}{2} - cf}{f} \times h$$

Empirical relation

$$3 \text{ Median} = \text{Mode} + 2 \text{ Mean}$$