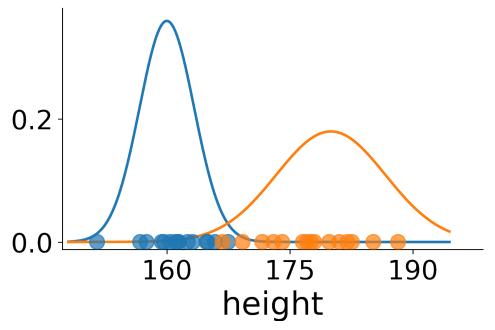
Expectation Maximization



How to estimate parameter θ ?

If sources t are known, easy:

$$p(x \mid t = 1, \theta) = \mathcal{N}(x \mid \mu_1, \sigma_1^2)$$

$$\mu_1 = \frac{\sum_{\text{blue } i} x_i}{\text{# of blue points}} \quad \sigma_1^2 = \frac{\sum_{\text{blue } i} (x_i - \mu_1)^2}{\text{# of blue points}}$$