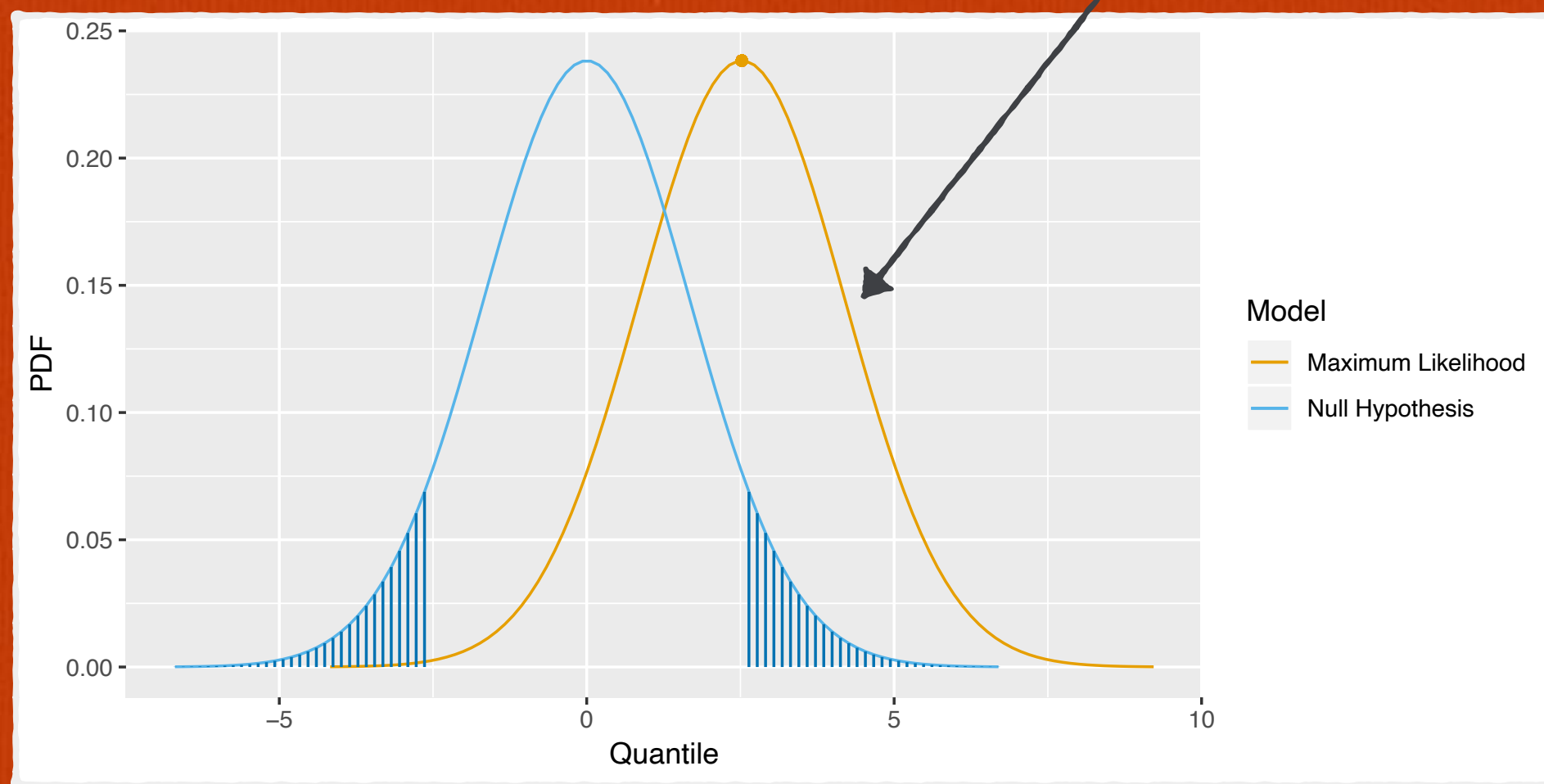


$$f(y | \mu_1 = \hat{\mu}, \sigma^2 = \hat{\sigma}^2)$$

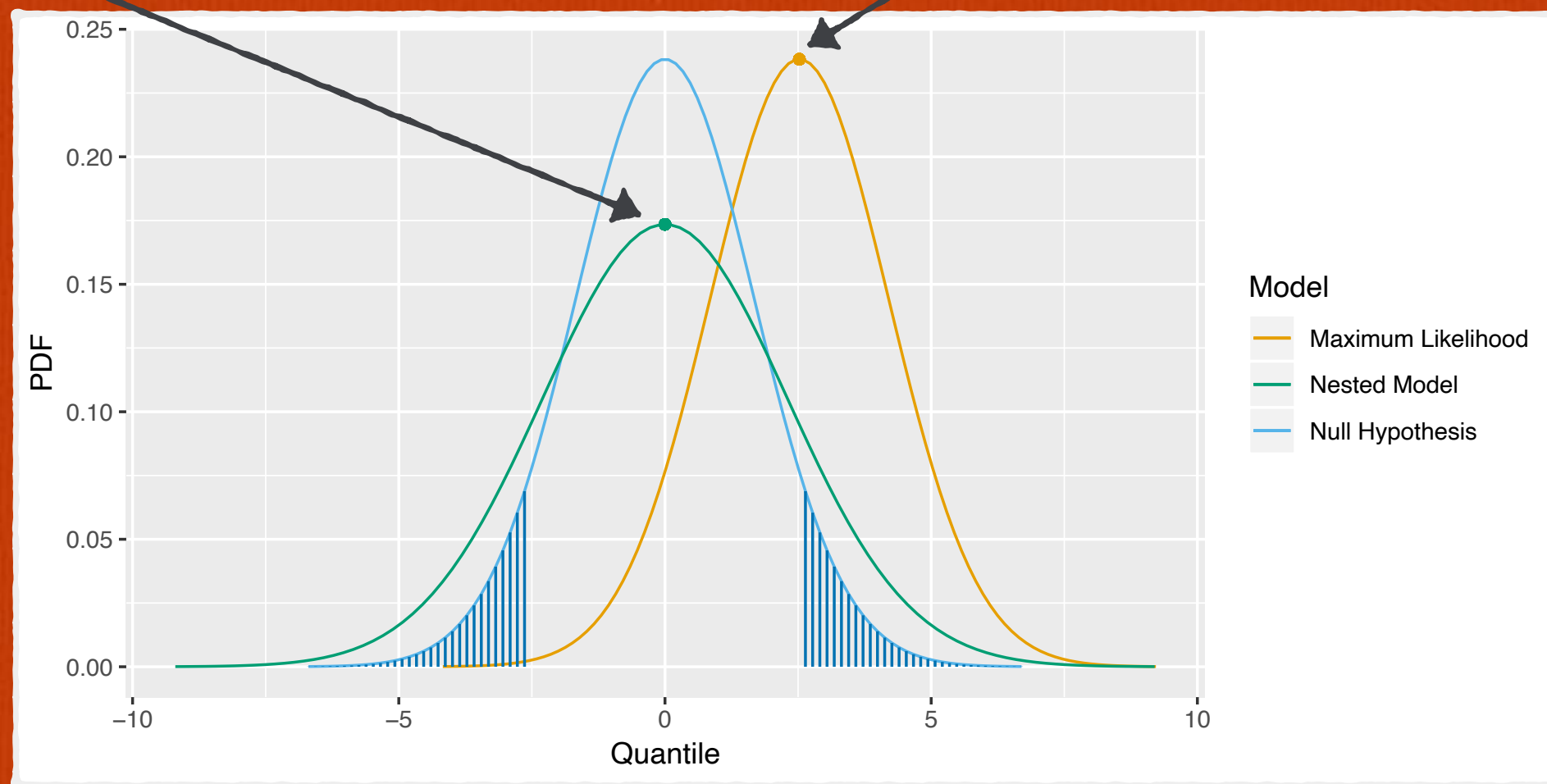


# Probability vs Likelihood

We can also calculate PDF values centered on the maximum likelihood estimate of the mean.

$$\mathcal{L}_0(\mu_0 = 0, \hat{\sigma}_0^2 = 5.26)$$

$$\mathcal{L}(\hat{\mu} = 2.52, \hat{\sigma}^2 = 2.83)$$



# Probability vs Likelihood

We can also calculate PDF values when one or more parameters is constrained to 0.