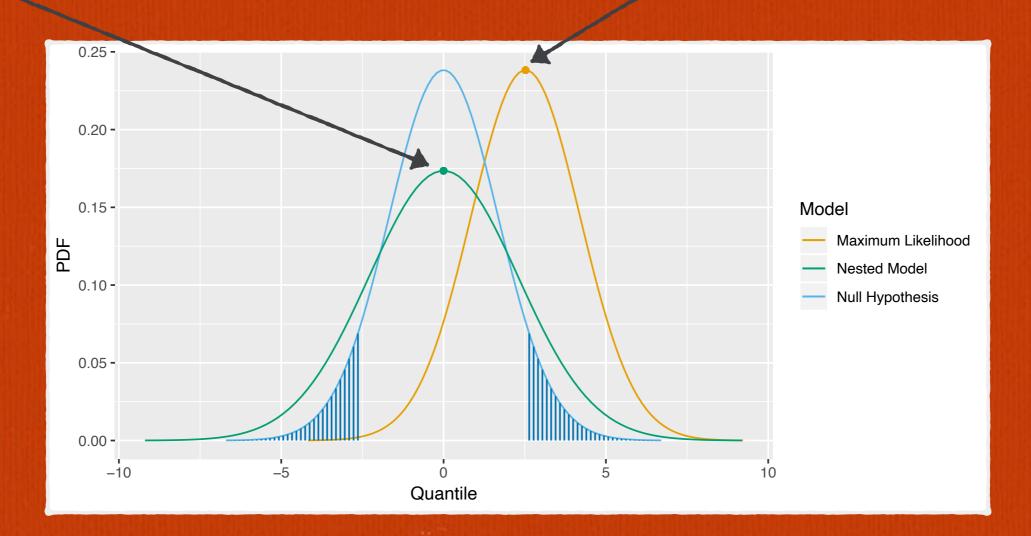
$$\mathcal{L}_0\left(\mu_0 = 0, \hat{\sigma}_0^2 = 5.26\right)$$

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

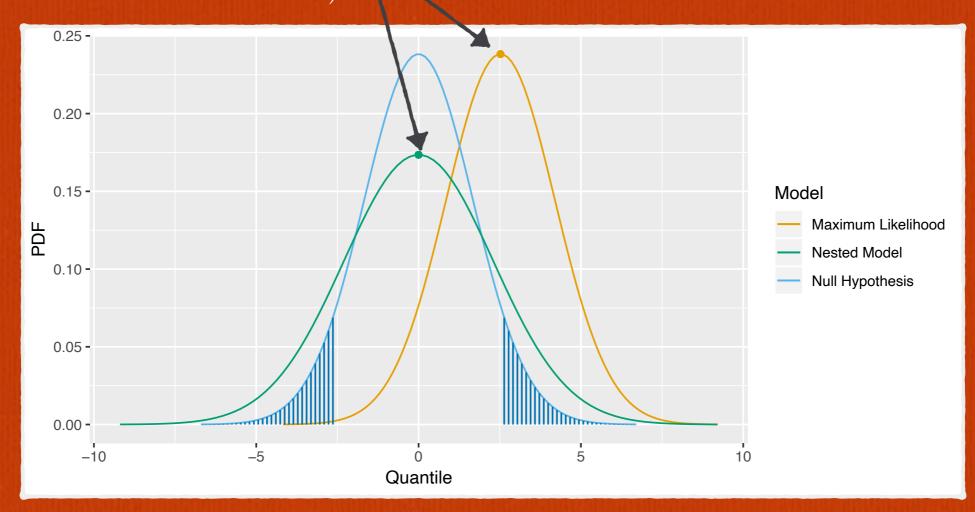


Probability vs Likelihood

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

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

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



Probability vs Likelihood

The likelihood ratio is a measure of the relative likelihood of two hypothesis