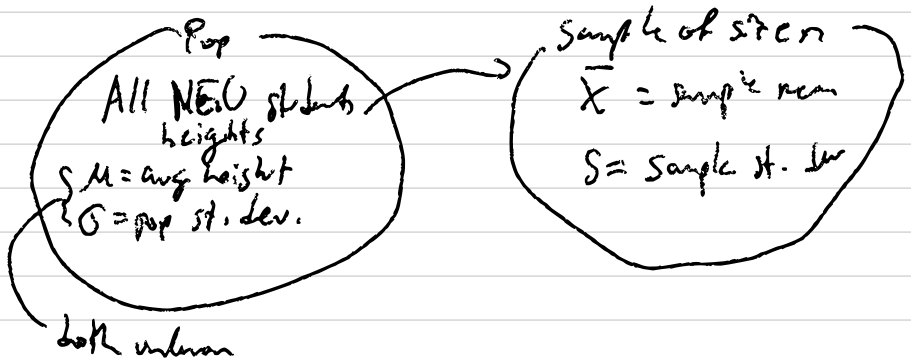


t-distribution

Used to find CI for μ when σ is unknown



Use point estimator, use S as our estimator for σ

$$S = \sqrt{\frac{\sum (Y_i - \bar{Y})^2}{n-1}}$$

$$\bar{X} \sim t\left(\mu, \frac{S}{\sqrt{n}}\right)$$