WE WANT TO FIND THE CONFIDENCE INTERVAL FOR TWO SAMPLE MEANS



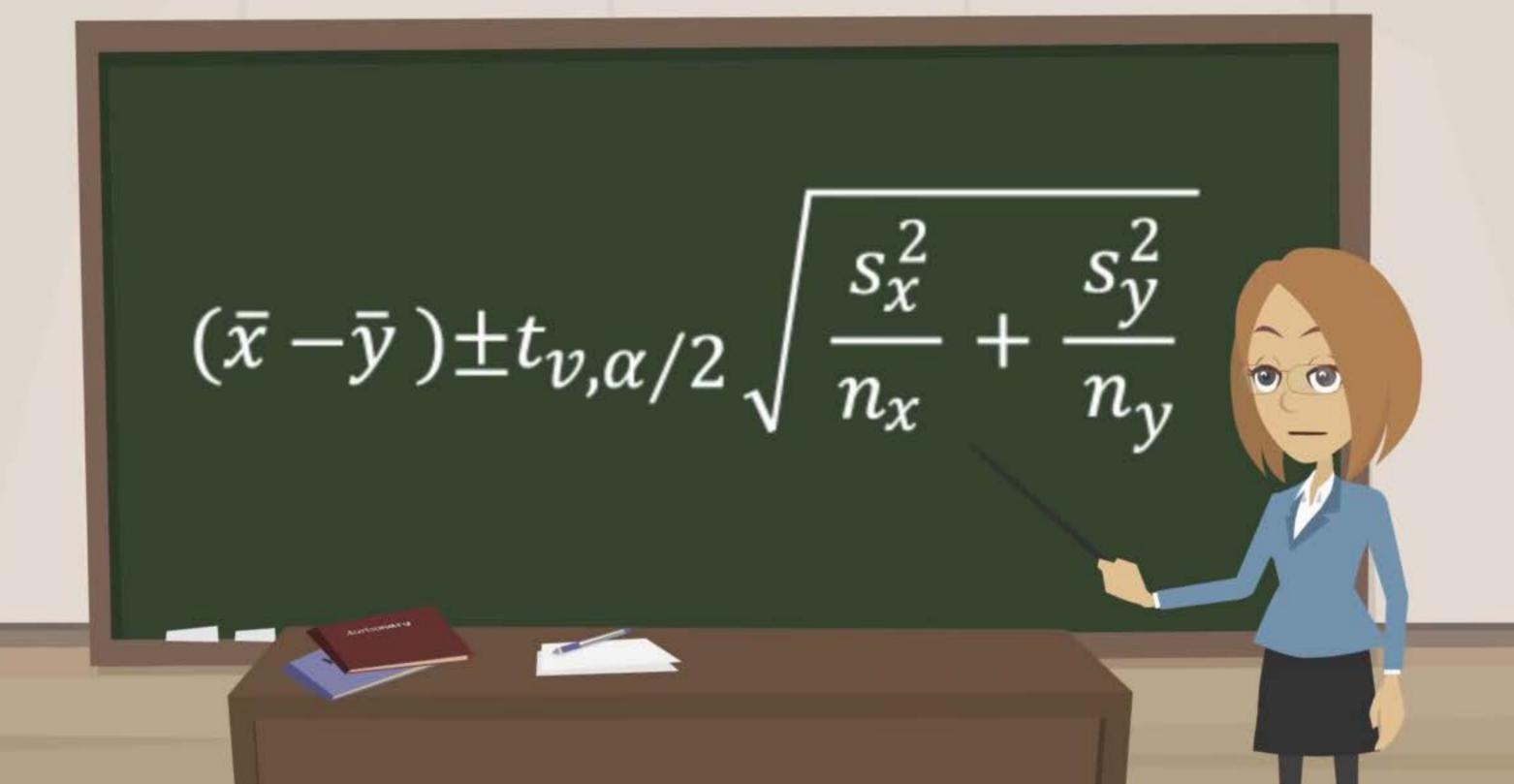
Independent



Variance unknown



Assumed to be different



$$v = \frac{\left(\frac{s_x^2}{n_x} + \frac{s_y^2}{n_y}\right)^2}{\left(\frac{s_x^2}{n_x}\right)^2 / (n_x - 1) + \left(\frac{s_y^2}{n_y}\right)^2 / (n_y - 1)}$$