This talk is a short tutorial on numerical methods for systems of nonlinear equations. I’ll begin with Newton’s method for scalar equations (ie the one from intro calc) and show how the method for systems is essentially the same. I will review convergence theory, implementation alternatives, and a few of the problems one encounters when one solves equations for a living.

Finally I will tell you why you should be a root-finder and discuss the career possibilities in this glamorous and economically secure field.