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The standard undergraduate course in complex variables has relatively little to say about complex polynomials - in some sense the "simplest" of all mappings. In particular nothing is mentioned about constructing examples polynomials which are one-to-one on a given domain, a problem routinely covered for the real case in a first semester calculus course. In this paper we show, using the Gaussian interpretation of zeroes of polynomials as locations of repulsive point forces, how such functions can be produced by strategic placement of the zero sets. This process requires only elementary knowledge of complex variables and multivariable calculus, and allows for easy and interesting examples of cubics, quartics, and some higher degree mappings. (Received June 13, 2007)