Need to figure out polynomials and splines. I'm limiting myself to uniform splines atm. Let's start with the Bernstein polynomials, which come from the binomial expansion of

$$1 = [x + (1 - x)]^n = \sum_{k=0}^{n} \binom{n}{k} x^n (1 - x)^{n-k} = \sum_{k=0}^{n} b_{k,n}(x).$$

A polynomial written in terms of the basis $b_{k,n}$ is a Bezier curve, and its coefficients are called control points.