

Bezier Curves

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Drawing using Bezier curves is very useful in applications for a variety of complex computer graphics, from Windows paint, to Adobe Acrobat. Bezier curves are also important as a curve fitting tool. This presentation will define Bezier curves, give several examples of them, and discuss their properties. I will approach Bezier curves by discussing the consequences of their polynomial representation. I will also discuss the geometric interpretation of Bezier curves by using the de Casteljau algorithm to show the meaning of control points and the convex hull property. I will look at examples for 1 to 4 control points as well as an example in curve fitting.