Geometry over the field with one element. An introduction

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In this talk we will expose a survey on the motivations that lead to the problem of defining a notion of geometry developed over a "field with one element". We will expose some of the folklore developed in Kapranov-Smirnov unpublished preprint, and proceed with the notion of algebraic variety proposed by C. Soule in 2004, including the refinement recently suggested by Connes and Consani.