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Introduction to Toric Geometry via Sage

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In recent years, toric geometry has played an ever larger role in physics due to its heavy use in string theory. Toric geometry is also an excellent starting point for students of algebraic geometry, as it offers concrete realizations of abstract notions. Computations in toric geometry can be quite tedious and require careful bookkeeping, making them natural targets for computer implementation. There are several free and commercial software projects providing support for toric geometry computations, including a recent toric framework by Volker Braun and the author for the free open-source software project Sage. This talk will be a quick introduction to toric geometry with examples presented using Sage.