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## A brief overview of tropical geometry

Tropical geometry emerged as a field on its own around 2000, and has known a tremendous development since then. It sits at the crossroad of various area of mathematics, such as combinatorics, algebraic geometry, symplectic geometry, and optimization to name a few. In this talk I will focus on tropical geometry as a bridge between combinatorics and algebraic geometry, and will discuss several examples of fruitful back and forth between them. Far from providing a one way road from one to the other, tropical methods intertwines these two domains of mathematics, allowing a mutual enlightenment.