Geneva

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ABSTRACT
Geneva is an interactive exploration of genetic algorithms as applied to sonification of tweets, which are scraped in real time and converted to music using sentiment analysis.

The work is in many ways a musical adaptation of and homage to Karl Sims' Genetic Images (1993); to facilitate the listener/user's simultaneous evaluation of multiple melodies, each chromosome is placed in a 3D space, allowing for different combinations to be heard depending on the player's location. In addition, the first-person controls allow for easy control and manipulation of both sonic (mute, solo) and genetic (select, reject, evolve) aspects of the population. Mutation and crossover algorithms, which affect pitch, rhythm, and timbre as well as the tweet content itself, are heavily influenced by John Biles' GenJam.

In addition to Web Audio API (timbre.js), Geneva makes use of WebGL (THREE.js) and the Twitter API.

WEB LINKS
Latest version: http://usdivad.com/geneva

ACKNOWLEDGMENTS
Many thanks to Dominique Star for her assistance with the conceptual development of the work.