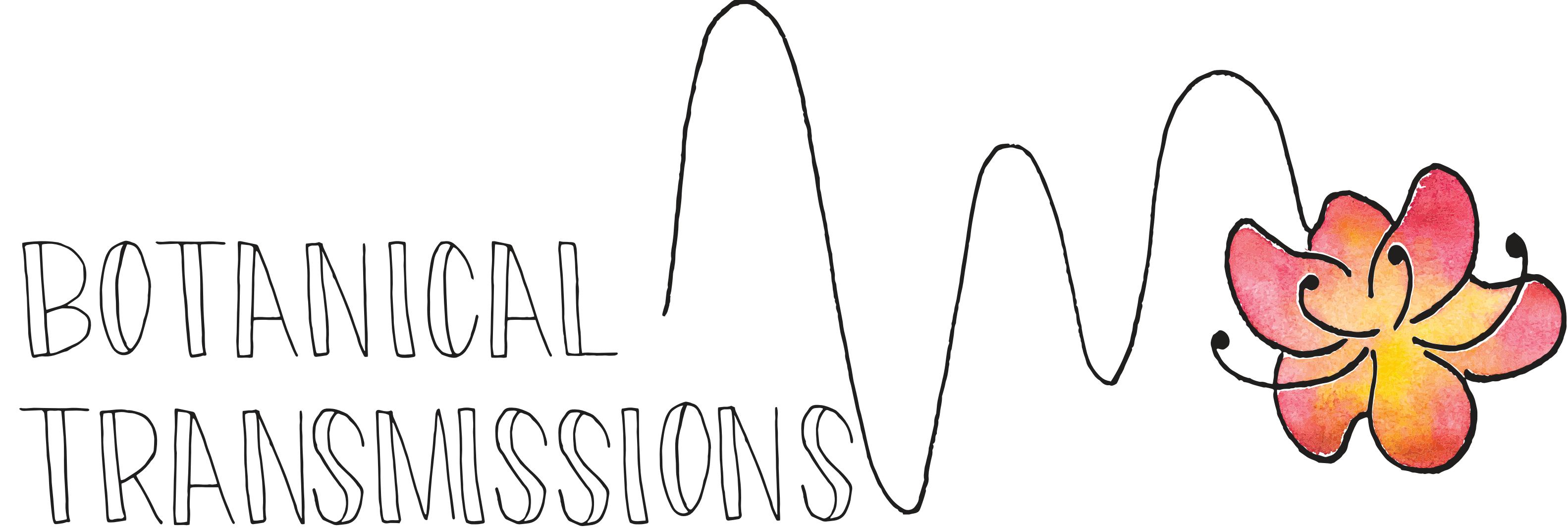


BOTANICAL TRANSMISSIONS



TANVI DHOND | NOAH LITVIN | CHRISTOPHER LOPEZ

Botanical Transmissions generates music by plants, for plants.

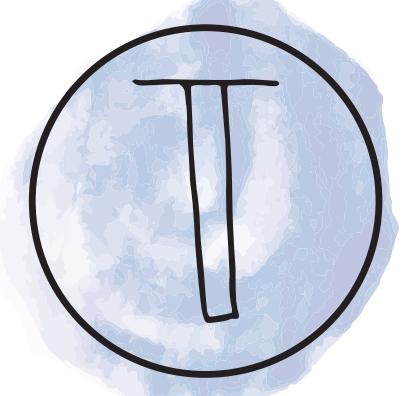
Freshkills Park, which was formerly the world's largest landfill, is undergoing a radical transformation. Once complete, this 2,200 acre park in Staten Island will have virtually erased its 150 million tons of solid waste with a massive ecological restoration project which is open to the public.

Inspired by studies indicating that music may impact plant growth, this project takes a plant-centered design approach to the park. As a sensory experiences primarily for plant life, this could serve as a symbolic repentence for human use of the area in the past.

Botanical Transmissions takes ecological data from an Arable Pulsepod and translates it into a musical composition. This is done with a genetic algorithm which automatically evolves five different traits based on the plants relative health after "listening" to different compositions.

This project intends to provoke conversation about the history of Freshkills Park, the Anthropocene, and how design might be used for more critical applications.

THE FIVE TRAITS OF A BOTANICAL COMPOSITION



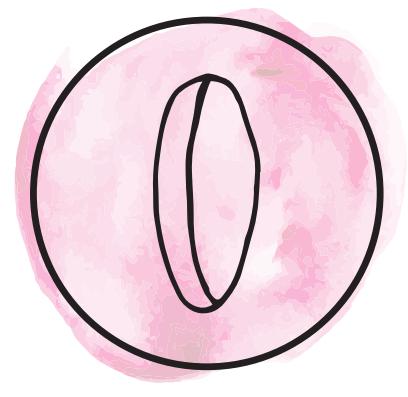
Tonic

The first note from which the scale is built



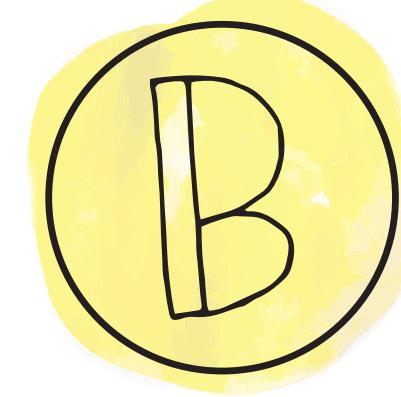
Scale

The series of notes used in the composition



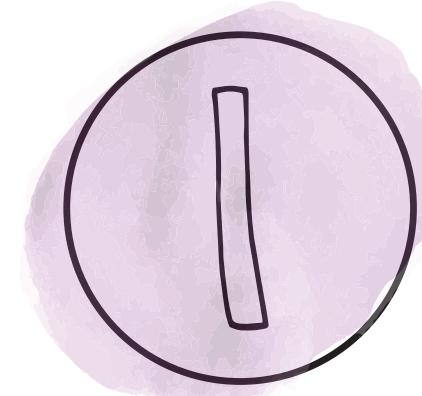
Octaves

The number of times the scale can repeat



BPM

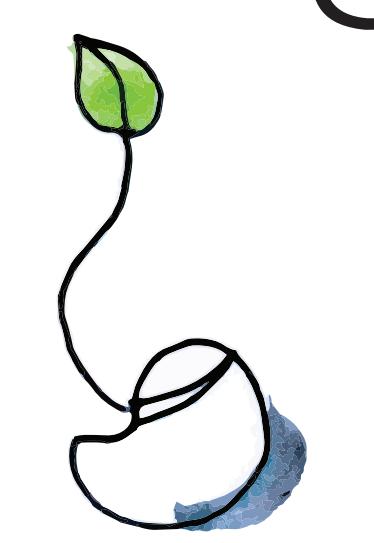
The tempo of the song, measured in beats per minute



Instrumentation

The virtual instruments used to render the composition into an audio file

GENETIC OPERATORS



SEED

