

WPI

HU 3910 – Mandelbrot

Dmytro Bogatov

Advisor: Professor Roshanak Bigonah

Department of Humanities and Arts

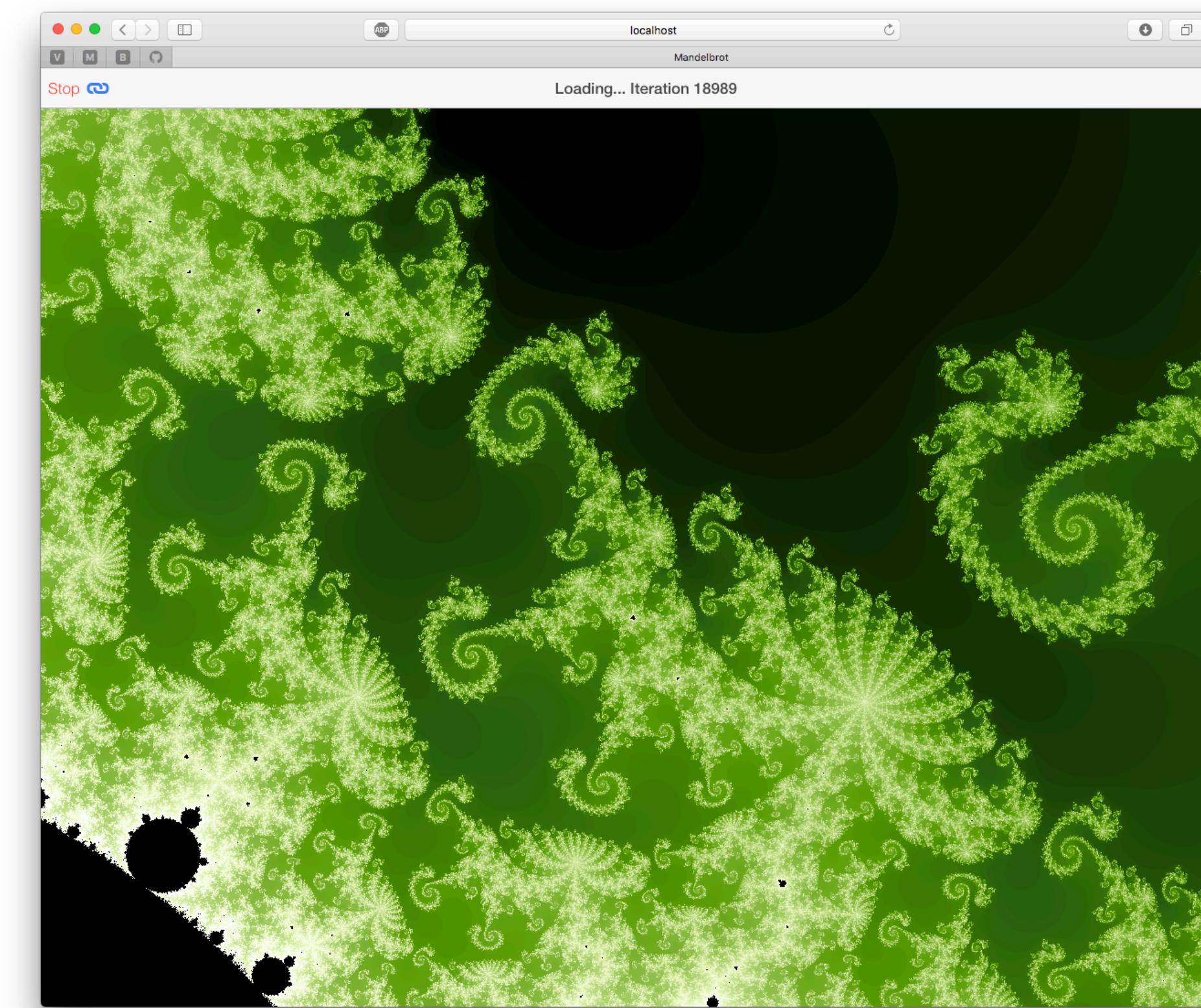
MOTIVATION

Intersection of Art, Mathematics and Computer Science

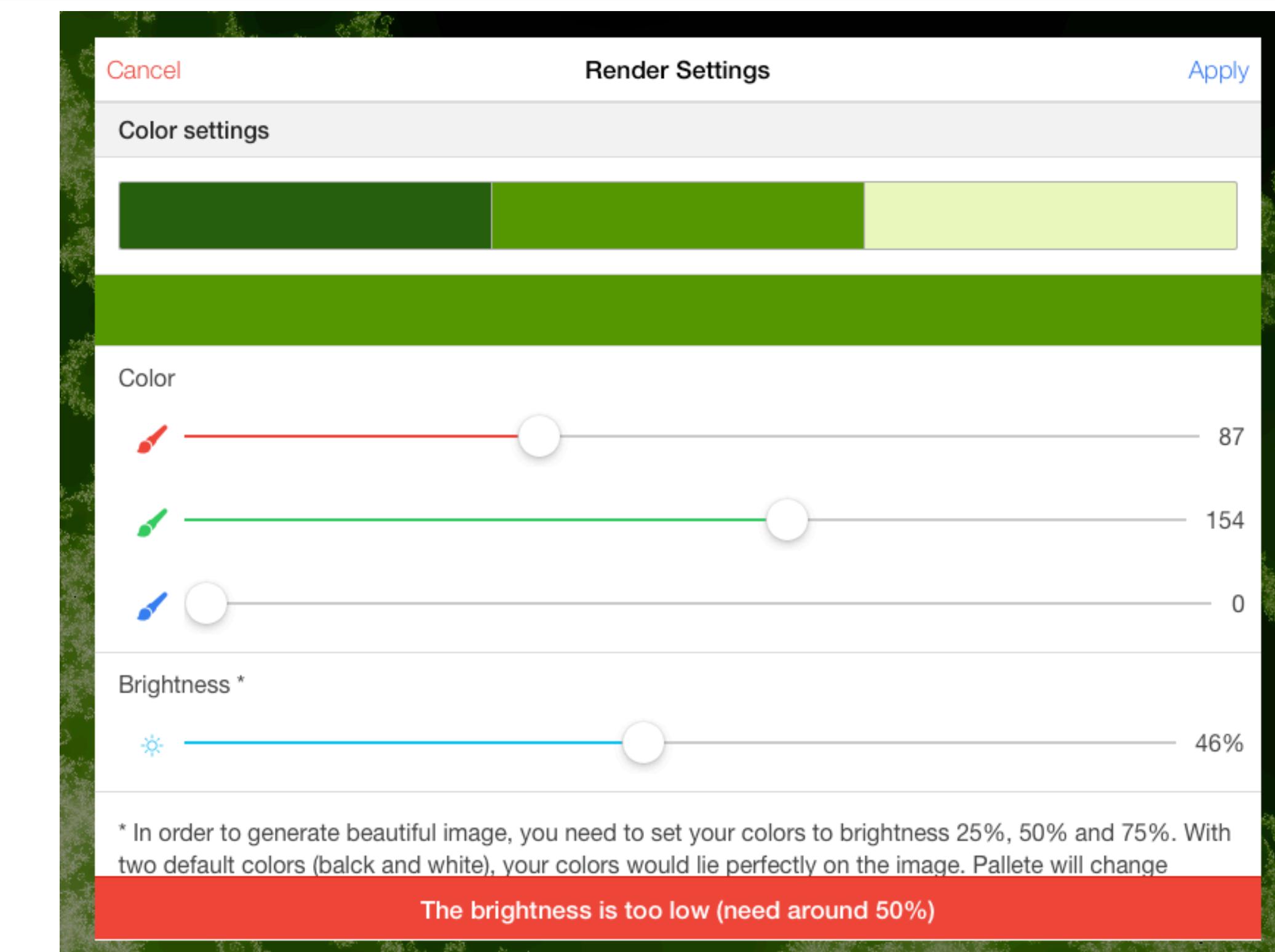
- The goal is to encourage students to work, research and develop on the intersection of disciplines.
- Fractals are generated according to mathematical formula.
- Tool is an ASP.NET server written in C# and TypeScript based front-end.
- The output is an exceptionally beautiful image.

$$z_{n+1} = z_n^2 + c$$

INTERFACE



SETTINGS



BEAUTIFUL PICTURES GENERATED BY THE TOOL

