Name of application: Fractals

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Semester: Spring 2021

Topic: Fractals

Basic math concept: Iterated Function Systems (IFS)

Parameters adjustable by user:

- **Tree:** 5 (type/variation, angle, branch length, line thickness, colour).
- **Koch:** 5 (type/variation, # of iterations, side length, line thickness, colour).
- **Barnsley fern:** 3 (type/variation, dots colour, iterating – continue/resume).
- **Sierpiński:** 4 (type/variation, # of iterations, side length, colour).
- **Common parameters:** 2 (width or height resolution).

Export format: .PNG for the image. .JSON for the project settings.

Max resolution supported for exports: 8k.

Used tools: Programmed using P5.js libraries (Processing-based language). Embed on HTML5. Source code editor used: Atom.

Needed to run the app: Web browser (recommended: Google Chrome).

Link: https://mural.uv.es/aglogal/Fractals-app/Fractals.html