**Recognizing Gravitational Effects on Fractal Tree Models – Rough Plan**

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1. **Question**

Are gravitational effects on trees simulated with fractal trees significant in changing tree recognition?

1. **Steps**

* Take base image of fractal tree with no gravitational effects applied to classify how similar real-world tree images are to it.
* Apply gravitational effects on fractal tree and produce set of unique fractal tree images.
* Compare set of fractal tree images to previously classified set of real-world tree images.
* Compare and conclude which gravitational factors altered tree recognition.

1. **Methods**

Base image of fractal is the famous Pythagoras Tree in its vertical position.



Create set of fractal trees using MATLAB script taken from previous research.

Using Tensorflow.js, compare fractal tree set to previously classified set of real-world images.

Compare and conclude which gravitational factors most altered tree recognition.