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**Color by Gene Mock-up**

**Description:** Color by Gene is an educational app used as a method to understand gene expression using fluorescent proteins, promoters, and terminators. The app allows users to create their own plasmids to test out a variety of gene combinations and draw on a petri dish with that resulting color. The drawings can be saved and later edited.

**Target Audience:** Middle and high schoolers in a classroom biology setting. Specifically targeted for use in the STEM Pathways synthetic biology outreach program.

**Considerations:** Balance computational difficulty, be accurate but simple about the biology. Need to add a tutorial/information? Info section. Output page & saved drawings page.

Cello algorithm , drag in different logic gates, see what the output is..

**GUI:**

