

Project Overview: Graphics Editor

Goal: Implemented a Microsoft Paint-like app

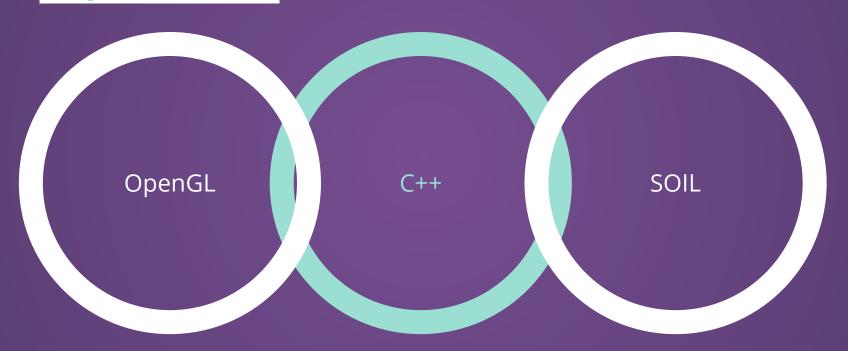
OpenGL-based graphical interface

Features:

- Free-hand draw using the Pencil tool
- Color Palette with 8 unique colors
- Shape resizing
- Selection animations
- Eraser tool



Graphics Editor Dependencies



Graphics Editor Dependencies

OpenGL

+ Cross-platform application programming interface (API) for rendering 2D & 3D vector graphics

C++

ISO standard programming language that allows for direct control over system memory

Useful for pointers

SOIL

Simple OpenGL Image Loader

- + Cross-platform image loader
- + Can read a variety of image formats:
 - + BMP
 - + JPEG
 - + PNG

Project Stats

4,037 lines

Of code added to the OpenGL boilerplate

14 commits

To achieve our MVP

10 classes

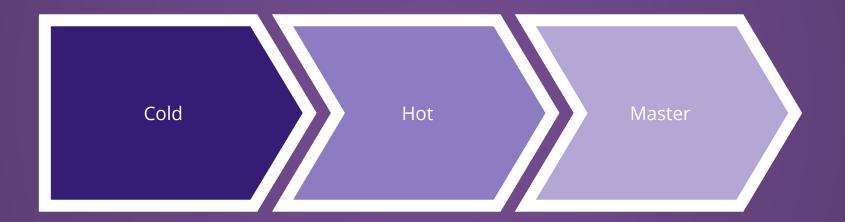
Custom to our graphics editor

WHAT WE LEARNED: VERSION CONTROL

In order to maintain code consistency across all of our devices, we had to use *Git* version control



VERSION CONTROL: GIT WORKFLOW



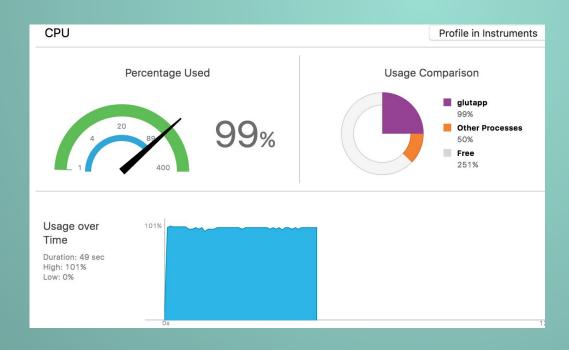
All code changes were first pushed to the cold branch.

Commits were then *peer-reviewed* and merged into the hot branch Finalized versions were pull requested into master



THINGS TO IMPROVE ON

- Runtime performance and memory management
- Sticker packs (emojis/faces)
- Custom whiteboard backgrounds



THANKS



~ANGELO'S ANGELS~



github repo:



/jonathanloganmoran/engr 165 final proj

CREDITS

OpenGL. Khronos Group, LLC

https://www.opengl.org/about/

SOIL Image Library. LoneSock

http://www.lonesock.net/soil.html

Special thanks to:

♦ Angelo <3333 for your help in office hours</p>

DESKI DEMO

Running on MacOS in Xcode 9.2

