## **OpenGI 3D Model**

## **Installation Guide:**

- Step 1: Open up the dist folder on the github
- Step 2: If you do not have Microsoft Visual C++ 2015 installed
  - -Click on vc redist.x64 and follow the steps to install it
- Step 3: Click on the 3D-Model-Generator.exe to run the application

## **User Manual**

# Main Terminal:

- start: Runs the main program
- quit: Quits out of the terminal

## Editor:

## Selection:

- -Click on a push button to select the side of the cube you would like to manipulate.
- -Bottom right push button is to select the whole entire cube to manipulate with tools.
- -Load Image will open a file browser to choose an image for that side of the cube.

# **Projection Drop Down Menu:**

- -None: Displays no extra projects to compare the sides with,
- -Left & Right: Displays projection of the left and right images to compare the top and bottom with them.
- -Top & Bottom: Displays Projection of the top and bottom images to compare the left, right, and back images with.

#### Tools:

- -Scroll Wheel: Zooms in and out
- -Hotkey 1. Pointer: Basic pointer
- -Hotkey 2: Rulers:
  - -Left Click: Adds Ruler Point
  - -Right Click: Remove Ruler Point
  - -Left Click Drag: Creates two points and creates a line in between them.
- -Hotkey 3: Eyedropper Tool (Currently not working)
- -Hotkey 4: Mover:
  - -Left Click Drag: Moves the image around
  - -Right Click: Rotates the image
- -Hotkey 0: Change Ruler Color
- -Hotkey -: Set output image color (Currently not working)
- -Hotkey =: Set nullify color (Currently not working)

### **Cube Preview:**

-Slider: Zooms image in and out

-Left Circle: Rotates the Y-axis of the cube -Middle Circle:Rotates the X-axis of the cube -Right Circle: Rotates the Z-axis of the cube

## Other Buttons:

- -Update:
  - -Will open up once all six images are loaded in
  - -Will update the current cube images and save them to a temporary directory
- -Weight: Change the weight of the selected side (Currently Not Working)
- -Preview:
  - -Will open up once the update button is pressed
  - -Will open up the 3D Model Preview

# **Preview Window:**

- -Preview: Creates the 3D Model
- -Export: Exports a .obj of the 3D model (Currently Not Working)
- -Filename: Input a filename for the export button.
- -Resolution Split: Set the resolution of the 3D model
- -Distance: Sets the distance between the vertical levels.