

2.9 Interactive Prototype



Drawability- This is the tool you are looking for. Designed for beginners. This website allows user to draw, erase, color and make 2D painting to 3D model. The brand-new feature – perspective will help beginners draw fantastic painting.

Project Description

In our website, we focus on helping beginners have a perspective of how things stack. So, we add our brand-new feature – perspective. User only need to create simple shapes and click the button; the website will generate a 3D space that includes all the 3D model from the shape created by user. Also, we also include some general functions for user to draw and color. We provide larger enough canvas for user to paint. It takes almost 70 percent of the screen.

Interface and Interactions

On the left hand, there are two tool bars. Top tool bar has some general drawing tools such as draw, erase, shape, text. In the expanded tool bar, there are some extra tools based on those general tools. The bottom tool bar provides several functions such as perspective and return. Also, there is a “clear all” button that will erase everything on the canvas. On the right hand, there are color boards and scroll bars for user to color.

Reading and reflection

We able to implement eraser, pen and interactions between pages. Our main idea of our interaction is to simplify all the process. Make drawing as simple as possible since our target users are beginners. The “perspective” function was not implemented since it requires a lot of time and code. I believe that was out of scope for now since it needs some algorithm to make 2D shape into 3D model.

Links

Github repository	https://github.com/CS160-Summer2022/p2-creativity-canvas-dliu49
Final video	https://youtu.be/wIMSErj9FRA