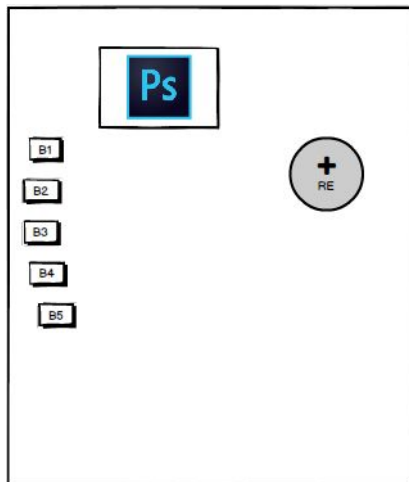


## Function Development

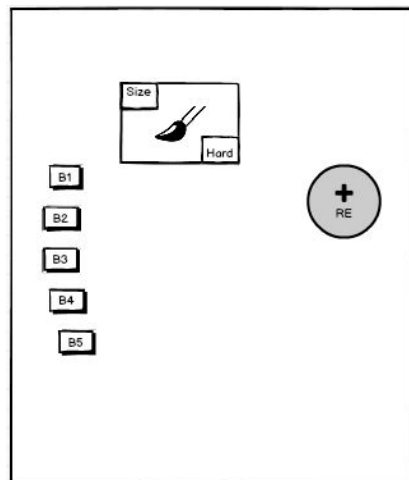
Graham Widmann

### Wireframe Storyboard



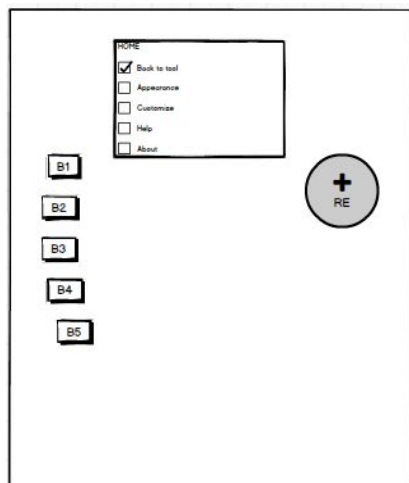
#### Splash Screen

This will be what appears when the device is first plugged in and receives power.



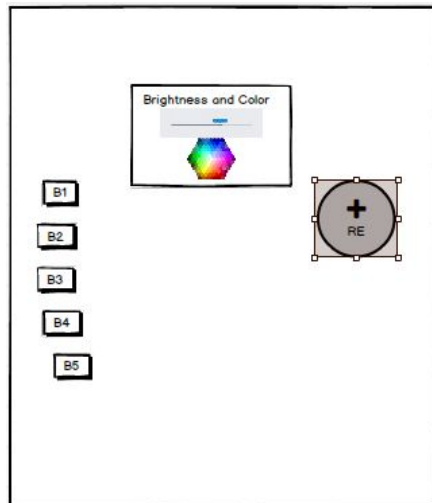
#### Home Screen

Right after the splash screen this screen will appear. It will allow the user to get right into using the device and its applications. Top left is the size of the brush and bottom right is the hardness of the brush. These will vary depending on the tool being used.



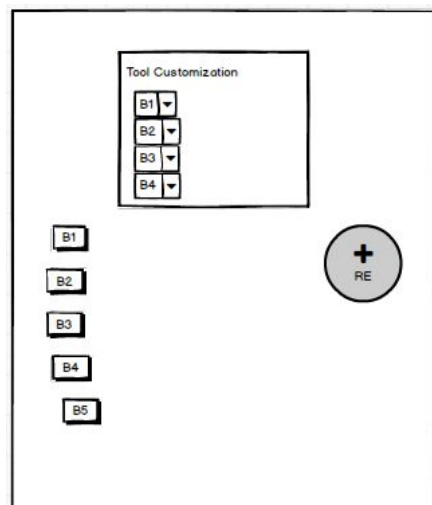
#### Function screen 1

This will appear as the menu screen and will allow the user to customize options of the device and its appearance.



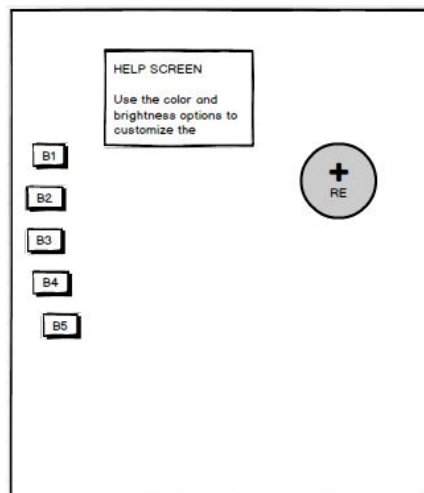
### Function screen 2

The appearance screen will allow the user to pick a variety of colors for the backlights and the brightness of the device depending on the environment around them.



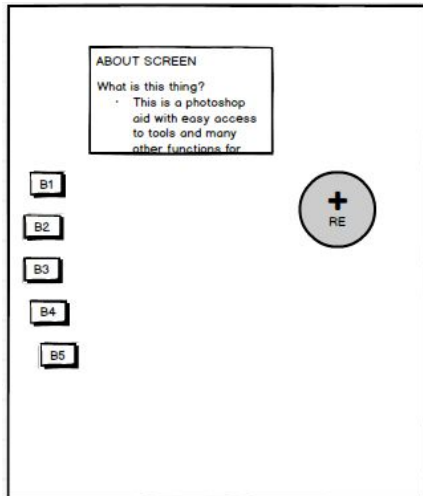
### Function screen 3

The Tool Customization screen will allow the user to customize what controls are being set to each button.



### Help Screen

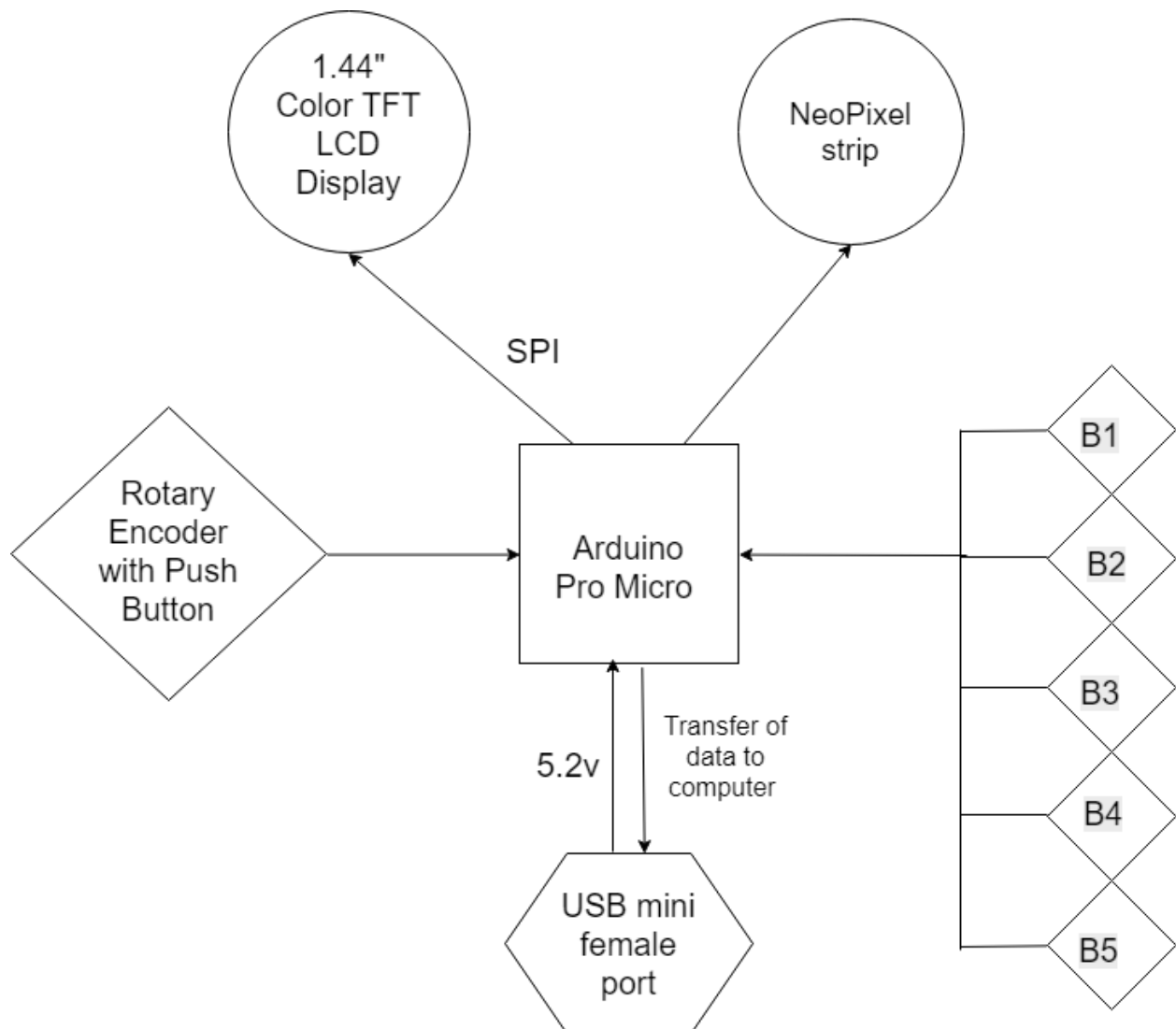
This will give information about the device and how to operate it.



### About screen

The about screen will have information about the device and how it operates. It will also have information on the designer.

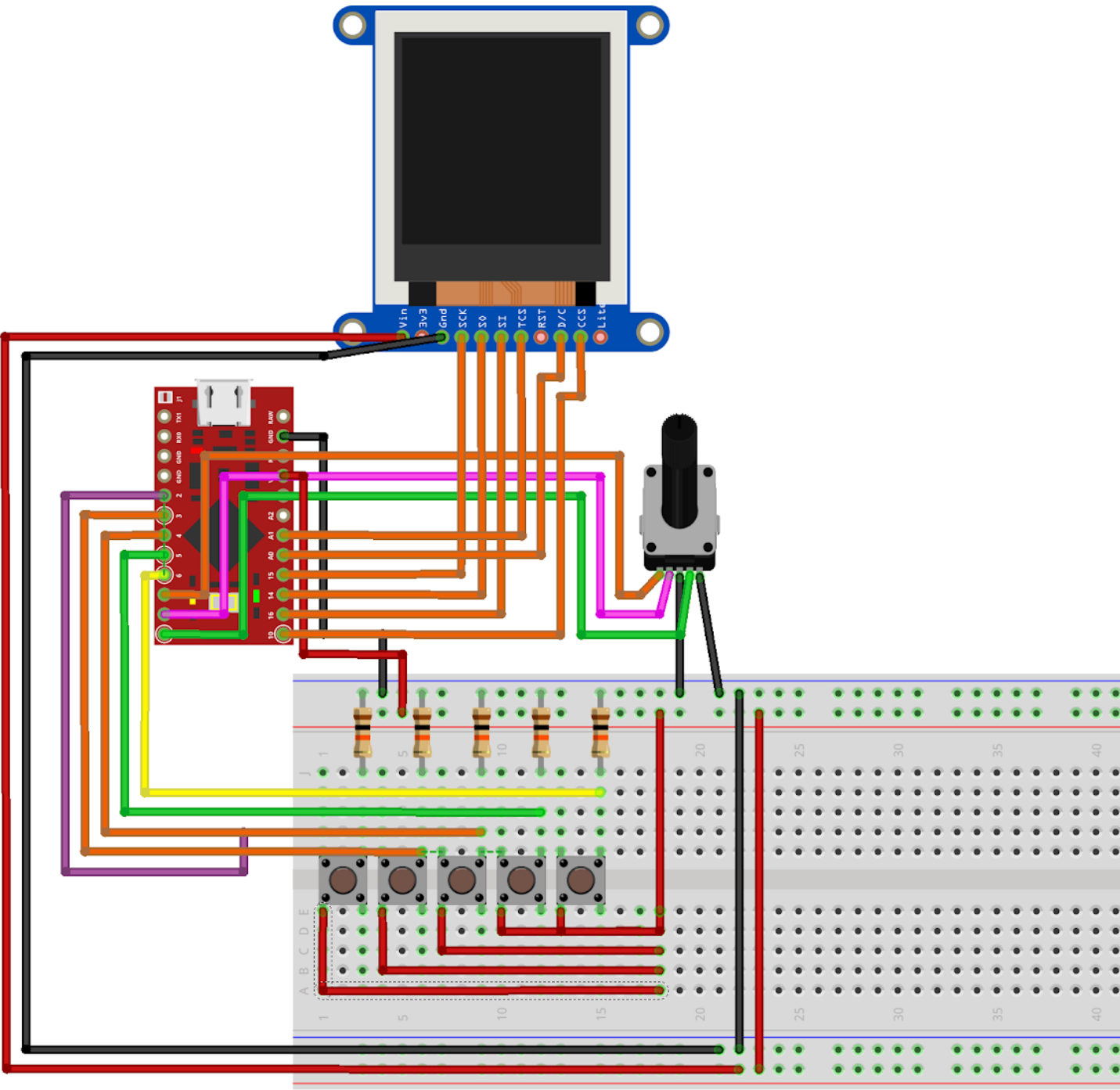
## Component Sketch



## Bill of materials

Name	Source	URL	Qty. bought	Qty. Used	Cost (\$)
Arduino Pro Micro	Amazon	<a href="https://goo.gl/iLcZLu">https://goo.gl/iLcZLu</a>	1	1	7.98
Push Buttons	Amazon	<a href="https://goo.gl/GPt8HP">https://goo.gl/GPt8HP</a>	140	5	9.99
Rotary Encoder	Amazon	<a href="https://goo.gl/AovCwu">https://goo.gl/AovCwu</a>	1	1	6.45
10k Resistors	Amazon	<a href="https://goo.gl/ZGPK4U">https://goo.gl/ZGPK4U</a>	100	7	6.43
1.44" Color TFT LCD Display with MicroSD Card breakout - ST7735R	Amazon	<a href="https://goo.gl/hdFoF1">https://goo.gl/hdFoF1</a>	1	1	18.29
Male Header pins	Amazon	<a href="https://goo.gl/6y4iy7">https://goo.gl/6y4iy7</a>	800	40	6.99
Female/ female jumper wires	Amazon	<a href="https://goo.gl/t5MnrA">https://goo.gl/t5MnrA</a>	120	40	6.98

Breadboard view



Electronic schematic view

