

DIANA SHAPLYKA

"COLOR ME"

DIGITAL COLORING BOOK PROJECT



STEP BY STEP PROCESS

STEP 1: DRAWING



Things to consider:

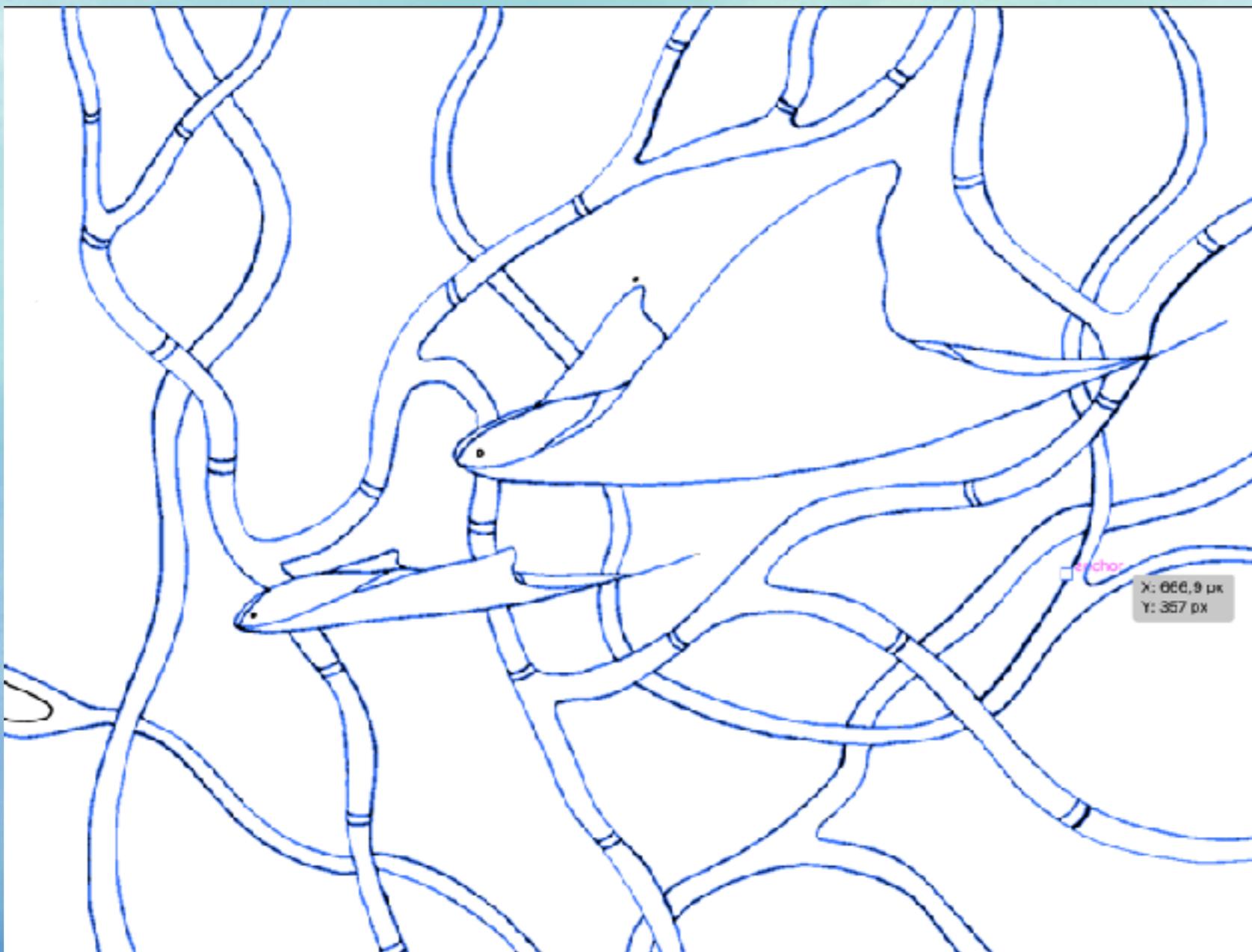
- The outlines of the drawing should be bold and even
- Try not to make a super detailed drawing, it will make it harder to convert the file correctly
- Make sure that all the segments of the drawing are closed (unfortunately, I forgot to do it in this project)

STEP 2: SCANNING + CONVERTING:

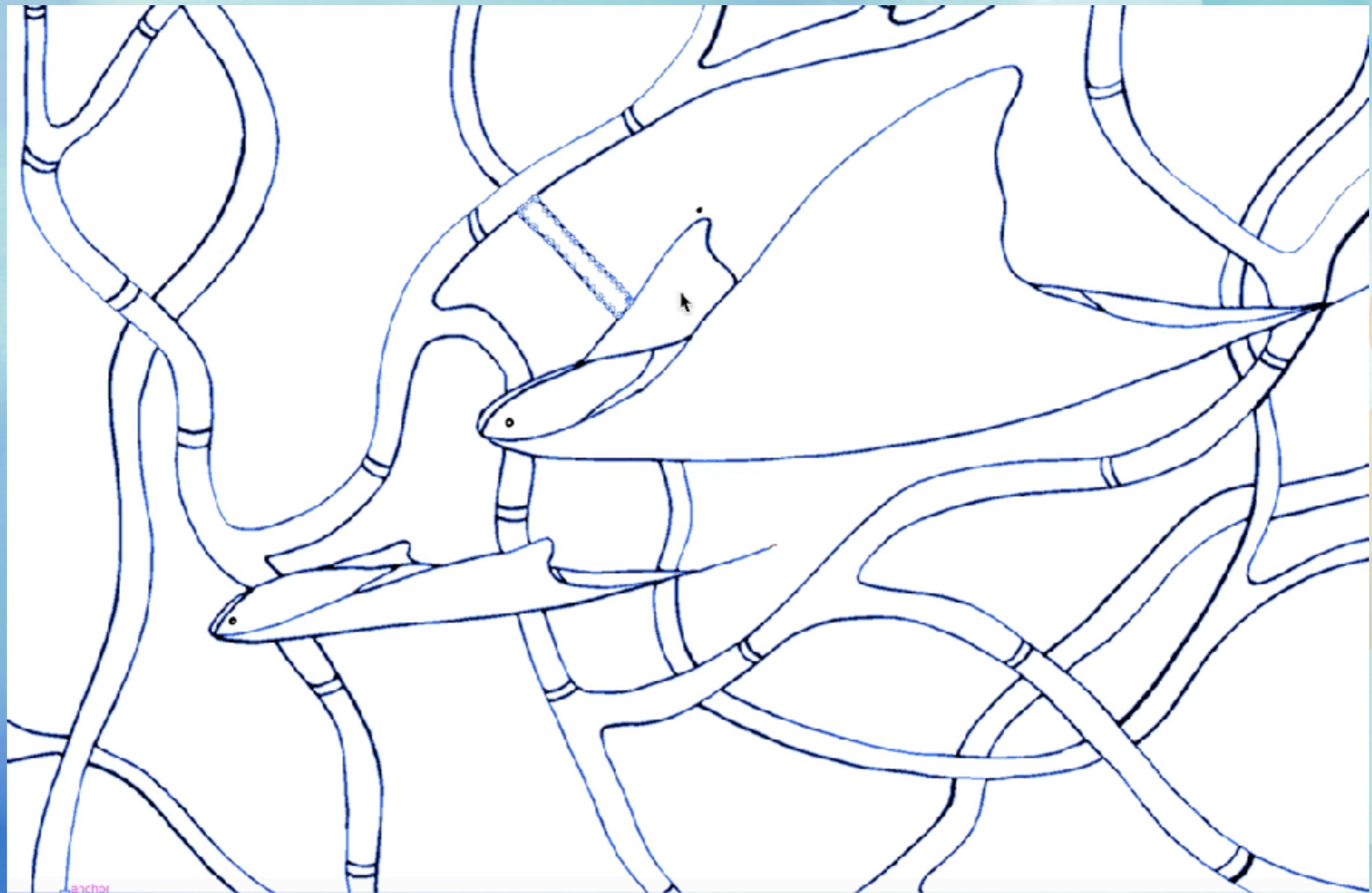
After you scanned the drawing, the next thing you want to do is to convert your .jpg/.png file into .svg file.

SVG (Scalable Vector Graphics) is vector graphics files format that enables two-dimensional images to be displayed in XML pages on the web.

The best way to do this is to upload your image into an Adobe Illustrator and use the command "Trace the image". The result should look like this:



Now, each segment is a separate path:



STEP 3: LET'S SEE THE CODE INSIDE .SVG

```
<path class="cls-34" d="M285.22,150.63l-.69.71a1.77,1.77,0,0,1-.64-.69c-.67-1.08-1.42-2.12-2.12-3.18s-1.53-2.42-2.27-3.65a3.78,3.78,0,0,1-.23-.6  
<path class="cls-22" d="M275.52,57.11.41.94a3.1,3.1,0,0,1-.09.69c-.34,1-.69,1.91-1.06,2.85a51.05,51.05,0,0,0-1.74,5.1,2.84,2.84,0,0,1-.35.6c-.51  
1.07.36-1.53a4.06,4.06,0,0,1,.08-.7c.52-1.72,1.06-3.44,1.6-5.15A1.86,1.86,0,0,1,237.55,229.73Z"/><path class="cls-36" d="M279.83,142.53l-.56.62c  
.49-1.73-.44-2.65a1.61,1.61,0,0,1,.09-1.18c.29-.53.13-1.17.4-1.7a2,2,0,0,1,0-1c.12-.53.31-1.06.39-1.6s.09-1.27.13-1.9q.1-37.45-.21C272.61,67.27  
3.74A4.26,4.26,0,0,1,268.87,111.81Z"/><path class="cls-38" d="M235.15,238.29c0,.55,0,1.11,0,1.66a7,7,0,0,1,1.14,1.89,1.89,0,0,1,.18,1.07,8.21,  
.41,1.6,11.87,11.87,0,0,1-.07-1.19c0-1.34.07-2.69.13-4A3.89,3.89,0,0,1,269.23,87.21Z"/><path class="cls-18" d="M177.52,152.91a3.71,3.71,0,0,0,.5  
d="M272.89,66.59c-.13.06-.26.12-.38.19-.09-.39-.18-.77-.26-1.16a1.28,1.28,0,0,1,.61-1.44l.62-.35a3.29,3.29,0,0,1-.29,1.31,2.29,2.29,0,0,0-.19,1.  
.09-3.47,0-5.21a2.12,2.12,0,0,1,.25.88c0,1,.09,2,.12,3A2.37,2.37,0,0,1,188.53,136.91Z"/><path class="cls-41" d="M230.33,273.84a13.78,13.78,0,0,1  
.4,1.85A6.36,6.36,0,0,1,269.7,83.32Z"/><path class="cls-7" d="M270.69,80.13l-.51-1a1.59,1.59,0,0,1,.09-.86l.52,1A1.65,1.65,0,0,1,270.69,80.13Z"/  
1.69A2.25,2.25,0,0,1,179.55,147.12Z"/><path class="cls-18" d="M178.13,154.19a2.83,2.83,0,0,1,.4-1.58A2.12,2.12,0,0,1,178.13,154.19Z"/><path clas  
.34,1.14A1.4,1.4,0,0,1,234.18,242.62Z"/><path class="cls-18" d="M178.6,151.94a3.46,3.46,0,0,1,.4-1.25A1.38,1.38,0,0,1,178.6,151.94Z"/><path clas  
3.1.25c-1.94,3.5-5.2,5.51-8.41,7.58l-.47.44a1.41,1.41,0,0,1-.61.15h-.32a29.21,29.21,0,0,1-2.4-1.88c-.18-.16-.32-.35-.48-.52a.91.91,0,0,1,.18-1c2  
6.65,7.4c-1.7,1.15-2.87,2.38-2.75,4.52A.69.69,0,0,1,100.24,227Z"/><path class="cls-46" d="M98.44,361.62a5.27,5.27,0,0,1,0,1.43c-.08.8-.15,1.59-  
.07.15-.15.29-.21.44-1.2.69-2.24,5.28-3.17.8-.42,1.21-.9,2.39-1.32,3.59a4.33,4.33,0,0,1-.36.62c-.92,0-.69-.54-.5-1.06a3.29,3.29,0,0,1,.1-.71c.22  
3.58,1.3-5.34s.73-3.6,1.12-5.39a26.06,26.06,0,0,0,.66-5.25.06,25.06,0,0,1,.38-3.09c.18-1.18.37-2.36.44-3.56a11.07,11.07,0,0,1,.44-2.35C99.35,359  
.06.47,78.43,78.43,0,0,0-.5,9.32c0,.8,0,1.6-.05,2.4a17.35,17.35,0,0,0,.23,3.01,17.43,17.43,0,0,1,.23,2.38c.06,1,.14,1.91.19,2.87.07,1.2.14,2.39  
6.93a25.42,25.42,0,0,1,.6-3.78c.19-1,.45-2,.73-3,.38-1.3.74-2.6,1.18-3.88s.82-2.58,1.23-3.87a5.63,5.63,0,0,1,.34-.89,13.8,13.8,0,0,1-2.67c.33-  
1.78-1.08-2.34-2.78-1.93-1.3.32-2.74-.24,.6-.69.53-1.11,1.57-2.28,1.21-.07-.47-.17-.94-.22-1.41-.09-.8-.13-1.59-.22-2.39a28.78,28.78,0,0,1-.14-  
.74A10.79,10.79,0,0,0,.59.75,.65,.78.78,0,0,0,.58,.65.6a1.91,1.91,0,0,0,.05-.48,41.86,41.86,0,0,0-.35-5A17.35,17.35,0,0,1,.59.44,56.31Z"/><path class  
.45,1.93.55,2.49,1.37,7.57,11,17.18,20.15,26.88,29.19C89.93,215.76,91,216.45,98.3,217.84Z"/><path class="cls-12" d="M95,289.38h.51c.15-.34.29-.3  
.12,2.78.42,4.11a2.09,2.09,0,0,1,.1,1.26c.38,3.18.06,6.38.17,9.56a8.18,8.18,0,0,0,.17,2.61,10.16,10.16,0,0,1,.12,2.13c0,5.8,0,11.6a18.65,18.65,0  
.1a1.56,1.56,0,0,1,0-1.32c-.09-.26-.1-.57,0-.57-.46-2.13.18-4.33-.36-6.46a2.5,2.5,0,0,1-.07-1.64,1.12,1.12,0,0,1,0-1v.08c-.46-1,.06-2.15-.41-3.1  
.39-.07c-.28-1-.57-2-.8-3a29.75,29.75,0,0,0-.9-3c-.56-1.65-1.19-3.29-1.6-4.93a22.25,22.25,0,0,1-.93-3.21c-.35-1.63-.79-3.24-1.21-4.06A5.39,5.39,  
7.66,9.62,9.62,0,0,1-.21-2.93,5.18,5.18,0,0,1,.14-.66,2.44,2.44,0,0,1,0-2.2.1,2.1,0,0,1-.16-.62c0-.59.08-1.17.13-1.76a105,105,0,0,1,0-14.41,3.47  
d="M48.89,144.75c0,.38.09.76.12,1.14a2.87,2.87,0,0,0,.54,1.5,9.29,9.29,0,0,1,1.08,4.77,66.49,66.49,0,0,0,.66,8.69c.08.37.17.74.26,1.11.27,1.05a7  
1.91.69,0,0,1,0-.49c.44-3.57.06-7.15.23-10.73,0-.64-.58-1.71.81-1.8,1.54,1.27.82,3.16,1.31,4.72a37.65,37.65,0,0,1,.07,5.72c-.12,1.9-.09,3.8-.  
1.22,5.67,5.67,0,0,1,.91,3.6,3.85,3.85,0,0,1-.27,1.42A1.24,1.24,0,0,1,51.35,78.72Z"/><path class="cls-50" d="M58.05,183.33a2.64,2.64,0,0,1-.72-.9  
.55-1.12,2.64,2.64,0,0,1,.22-.92c.61-1.64,1.19-3.29,1.91-4.89A5.5,0,0,1,76.27,432.74Z"/><path class="cls-49" d="M50.37,98.58c0,1.57,0,3.15,0,4.7  
class="cls-38" d="M96.65,223l-.65.6a1.46,1.46,0,0,1-.42-.19c-1-.81-1.9-1.64-2.84-2.46a1,1,0,0,1-.11-.21.55.55,0,0,1,.12-.24l.14-.14a.6.6,0,0,1,.  
.37-.3-.73-.45-1.1a11.36,11.36,0,0,1,.14-3.49A3.23,3.23,0,0,1,50.37,132.17Z"/><path class="cls-22" d="M98.320.08a3.31,3.31,0,0,1,.4,1.33,27.46,  
><path class="cls-18" d="M96.51,302.81a3.33,3.33,0,0,1,.43,1.53.30.55,0,0,1,0,3.45,1.43,1.43,0,0,1-.19-.42A28.91,28.91,0,0,1,96.51,302.81Z  
d="M37.49,9.13a3.35,3.35,0,0,1,.41,1.52c0,.69,0,1.37,0,2.06A8.53,8.53,0,0,1,37.49,9.13Z"/><path class="cls-32" d="M41.23,27.84a4.4,0,0,0-.5,1.19  
d="M96,295.13c0,.86,0,1.73,0,2.59a6.75,6.75,0,0,1-.36-2.6095.73,294.78,95.86,294.78,96,295.13Z"/><path class="cls-26" d="M96,299.45a3.21,3.21,0,  
d="M50.44,91.66a1.58,1.58,0,0,1,0,1.91A5.33,5.33,0,0,1,50.44,91.66Z"/><path class="cls-32" d="M38,14.88a2.94,2.94,0,0,1,.37,1.66A2.27,2.27,0,0,1
```

CRAZY, right?

After spending some time organising the code, it should look like this:

```
<path class="cls-4" d="M0,447.25a2.15,2.15,0,0,1,1.18.09,26,26,0,0,0,4.15,1.14,15,15,0,0,0,1.9.26c.48.05,1,.06,1.44.08a25,25,0,0,1,4.05.23,20.5,2.48-1.28-.45-2.54-1-3.78-1.5a27.15,27.15,0,0,1-4.07-2,1.64,1.64,0,0-1.38-.2v-1.92a2,2,0,0,1,.92.22,32,32,0,0,0,4,2.2A44.14,44.14,0,0,0,10,428.4.22.85a13.84,13.84,0,0,1-2.13.31c-.87.06-1.75.1-2.62.22a1.94,1.94,0,0,1-.72,0c-.94-.18-1.91,0-2.86-.13s-1.75-.14-2.63-.14a29.63,29.63,0,0,1,4,44" />

<path class="cls-5" d="M301.44,0c.09.47.17.94.28,1.41a3.4,3.4,0,0,1,.06,1.19c-.1.95-.17,1.9-.29,2.85a47.6,47.6,0,0,1-1.5.16,2.18,2.18,0,0,1-.16.4.65,1.05-2.23,2.1-4.47,3.26-6.65.19-.35.35-.72.52-1.08a10.72,10.72,0,0,1,.52-1.08c1.05-1.69,1.91-3.5,3.08-5.12a48.89,48.89,0,0,0,2.7-4.23c1.07-1.51a6.24,6.24,0,0,1,1.67.12c1.1.22,2.19.47,3.28.69,2.19.44,4.38.91,6.6,1.18.48.05,1,.16,1.41.26a13.71,13.71,0,0,1.9.24c.72.06,1.43.15,2.15.22,1.51" />

<path class="cls-6" d="M788.16,520.19a3.5,3.5,0,0,1-.62.37,18.61,18.61,0,0,1-4.15,1.09,4.19,4.19,0,0-.71.1,43.63,43.63,0,0,1-7.37.89c-1.92.11-3.51a6.24,6.24,0,0,1,1.67.12c1.1.22,2.19.47,3.28.69,2.19.44,4.38.91,6.6,1.18.48.05,1,.16,1.41.26a13.71,13.71,0,0,1.9.24c.72.06,1.43.15,2.15.22,1.51" />

<path class="cls-7" d="M59.44,56.31a2.19,2.19,0,0,1-.33-.88c-.23-1.26-.45-2.52-.69-3.77-.19-1-.4-2-.63-3s-.48-2-.74-3a31,31,0,0,0-1.47-4.29c-.18-4c.07-.48.15-.95.22-1.42h1.44a18.28,18.28,0,0,0-.4,5.22,36.61,36.61,0,0,0,.41,4c.07.47.18.94.27,1.41a9.25,9.25,0,0,1,48,11.84a24.48,24.48,0,0,0,.41" />

<path class="cls-8" d="M573.1,39.82a1.83,1.83,0,0,1,.21-.42c1.89-2.27,3.72-4.59,5.52-6.94l2.6-3.43c.39-.51.75-1.1.09-1.58,1.23-2.247-3.91,3.6-5.1.06,1.77-2.12,3.55-3.16,5.34a21.36,21.36,0,0,1-1.63,2.35c-1.69,2.22-3.42,4.41-5.09,6.64-1.06,1.4-2.22,2.7-3.39,4a2.72,2.72,0,0,1-.38.29Z" />

<path class="cls-5" d="M720,0a14,14,0,0,1.43,2.49c.69,1,1.38,2,2.05,3a17.24,17.24,0,0,1,1.29,2c.5,1,1.07,2,1.65,2.92a14.46,14.46,0,0,1,1.92c1.88-2.73-.61-2.15-1.48-4.21-2.18-6.32a2.14,2.14,0,0,0-.18-.44c-.85-1.45-1.35-3.05-2.05-4.58-1.12-2.47-2.21-4.94-3.39-7.38a11.87,11.87,0,0,1-.52-1.51" />

<path class="cls-7" d="M297.52,36.28a.86.86,0,0,1,.06-.23c.16-.27.34-.53.5-.81,1.22-2.23,2.63-4.36,3.85-6.6,1.11-2,2.27-4,3.39-6.05.34-.62.66-1.2.84,2.5.7,5.7,0,0,1-.38.88c-1,1.74-1.81,3.56-2.84,5.279303,29.32,302,31c-.48.03-1.07,1.58-1.57,2.4s-1,1.64-1.51,2.44a4.6,4.6,0,0,1-.91,1.10a297.59" />

<path class="cls-9" d="M246.72,596h-8.64a3.42,3.42,0,0,1-.89-1.2c-.21-1.18.3-1.74,1.48-1.87a14.39,14.39,0,0,0-4.1c1-1,2.12-.83,2.83.6,1.41,2.84" />

<path class="cls-10" d="M603.88,39a.33.33,0,0,1-.08.36c-.95.1-1-.59-1.11-1.24a2.55,2.55,0,0,1,.36-1.11,8,8,0,0,0,.54-2c-.46-2.56.35-5,1-7.36.76-3.15,4.54a2.82,2.82,0,0,0,.71,5.11,5.11,0,0,1,0,1.91,17.59,17.59,0,0,0-.34,2.61,17.47,17.47,0,0,1-.42,2.59q-.51,2.84-.93,5.68c-.08.55-.18,1.1-.1" />

<path class="cls-11" d="M246.72,596a.68.68,0,0,1,.1-.21c.61-.62,1.42-1.2-1.65s1.11-1.12,1.67-1.69a.52.52,0,0,0,.15-.18c0-.14.16-.32.11-.44a14,14,.14a6.08,6.08,0,0,1,.46.82q1.65,4.28,3.28,8.57a3.75,3.75,0,0,1,.16.68h-1a2.66,2.66,0,0,0-3.36.02" />

<path class="cls-12" d="M788.16,276.41a15.72,15.72,0,0,1-1.79,1.57c-.79.55-1.42,1.28-2.2,1.84s-1.55,1.13-2.35,1.67c-1.45,1-2.91,2-4.4,2.89-.4.25-.93a16.72,16.72,0,0,1.1.35-1c1.26-1.11,2.5-2.24,3.74-3.37a4.16,4.16,0,0,0,.73-.94c.07-.12.24-.18.37-.27Z" />
```

Now, we can clearly see the information inside each path. Organising the code will really help later in the process.

STEP 4: INSTALL THE REACT INTO YOUR COMPUTER AND THEN CREATE A REACT APP

There are several things you need to do prior React installation.

Firstly, install Homebrew.

Homebrew is an open-source package management system that simplifies the installation of software on Apple's macOS.

Secondly, install Node.js.

Node.js is an open-source, cross-platform, back-end, JavaScript runtime environment that executes JavaScript code outside a web browser.

Finally, install React.

React is an open-source, front-end, JavaScript library for building user interfaces or UI components.

When the installation of the React is completed, use the command line to create a React App:

```
Desktop — -bash — 80x24
Last login: Sat Dec 12 22:18:30 on ttys000
[Dianas-MacBook-Pro:~ diana$ cd Desktop
Dianas-MacBook-Pro:Desktop diana$ npx ceate-react-app my-app
```

```
Success! Created mu-app at /Users/diana/Desktop/ZOOM/mu-app
Inside that directory, you can run several commands:

  npm start
    Starts the development server.

  npm run build
    Bundles the app into static files for production.

  npm test
    Starts the test runner.

  npm run eject
    Removes this tool and copies build dependencies, configuration files
    and scripts into the app directory. If you do this, you can't go back!

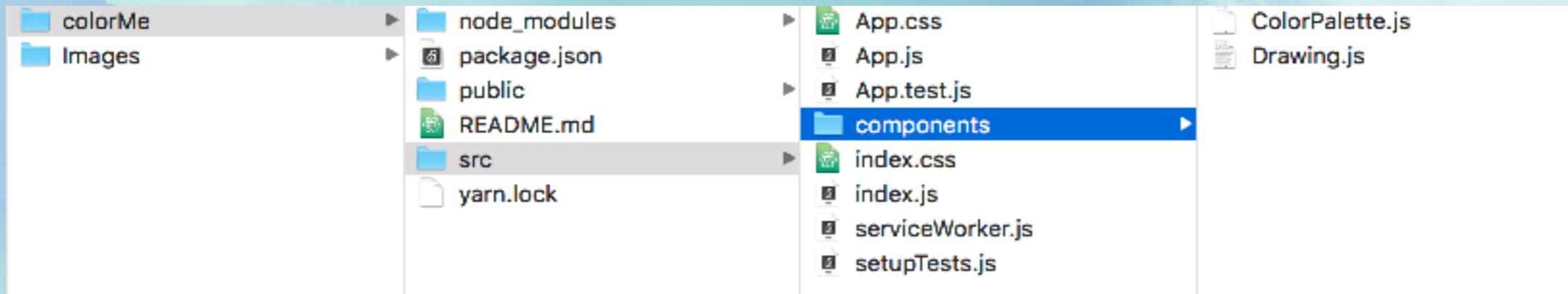
We suggest that you begin by typing:

  cd mu-app
  npm start

Happy hacking!
Dianas-MacBook-Pro:ZOOM diana$
```

At the end you should receive this message:

In the provided directory, the folder with your app should appear. The folder will contain the following files:



This is the folder of my project that already contains all the files needed to run the app.

The ‘components’ folder is where all the “ingredients” of your app should be stored. In my case, I have a drawing and a color palette files.

App.js file works as a “container” for all other components of the project.

App.css file is used for styling your app.

Let's code!

STEP 5: CONVERT DRAWING.SVG INTO DRAWING.JS + ADD FUNCTIONALITY TO THE APP.JS

After converting the file, add “import React from ‘react’” at the top of the code. Then, import Drawing.js into the App.js.

Next step is adding functionality to the App.js file. We are going to use **useState** to create an array with the same number of elements as there are path in your .SVG file. My drawing has 184 paths. **setFillColors** will have a value of “white”.

This array is a very important element of the code because it will track all the colors you apply, and which paths you’ve applied them to.

Since the goal is to have multiple colors, we will use **setCurrentColor** function that will allow for the **currentColor** to update.

Add a function that takes an index, makes a copy of the current **fillColors** array, and applies the **currentColor** to that index in the array copy. This will change the string at that index from the previous color “white” to whichever colour you choose. For now, let’s have “blue”.

Pass the **fillColors** array and **onFillColor** function down to the Drawing components as props so that the image can access both.

That's how the code will look like at the end:

```
App.js

1 import React, { useState } from 'react'
2 import './App.css'
3 import Drawing from './components/Drawing'
4 import ColorPalette from './components/ColorPalette'
5
6 const App = () => {
7   const [fillColors, setFillColors] = useState(Array(184).fill('white'))
8   const [currentColor, setCurrentColor] = useState('blue')
9
10  const onFillColor = (i) => {
11    let newFillColors = fillColors.slice(0)
12    newFillColors[i] = currentColor
13    setFillColors(newFillColors)
14  }
15
16  return (
17    <div className="App">
18      <div className= "Drawing">
19        <Drawing fillColors={fillColors} onFill={onFillColor} />
20      </div>
21      <ColorPalette currentColor={currentColor} changeColor={setCurrentColor}/>
22    </div>
23  )
24}
25
26 export default App
27
```

STEP 6: PASS THE FUNCTIONALITY AS PROPS INTO THE DRAWING.JS COMPONENT

Now, we are going to work with each path separately.

Insert this code into each path:

```
onClick={() => this.props.onFill(0)} fill={this.props.fillColors[0]} fill-rule="evenodd"
```

onClick event listener will trigger **onFill**, taking in that particular index as its argument. This will update the Drawing colors array.

this.props.onFill makes the image know which color belongs in that path.

A value of "evenodd" determines the inside of a point on the canvas by drawing a line from the area in question through the entire shape in any direction

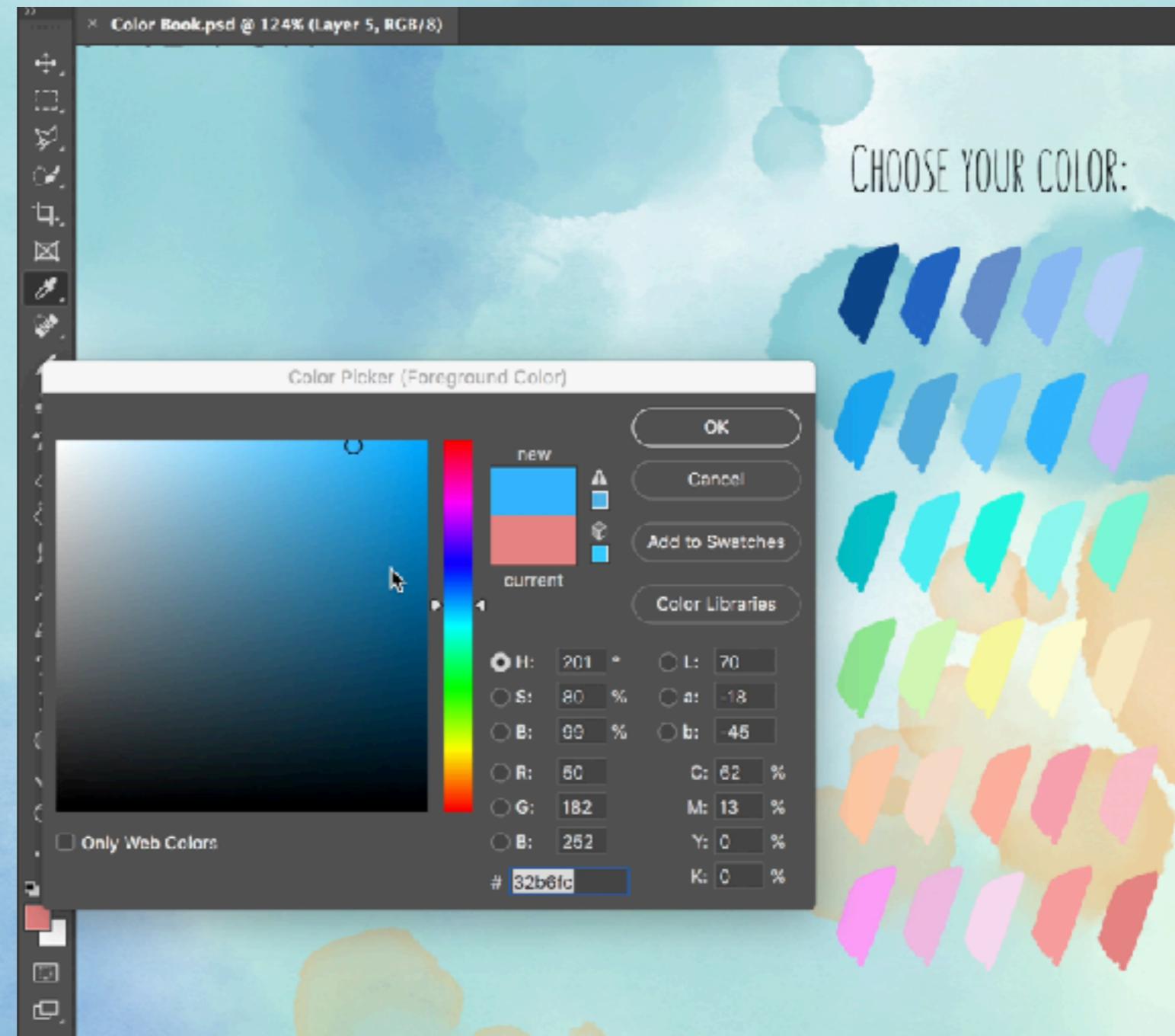
TIPS:

- Make sure you manually add index numbers in order.
- When the drawing is quite detailed and has many paths, it's quite easy to make a mistake while you adding the piece of code to each path, so it's a good practice if you regularly keep checking how your app looks like by using 'npm start'.

```
4     render () {
5       return (
6
7         <svg id="Layer_1" data-name="Layer 1" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 788.16 596.16" >
8           <title>df</title>
9           <g id="Layer_1-2" data-name="Layer 1-2">
10
11          <path onClick={() => this.props.onFill(0)} fill={this.props.fillColors[0]} fill-rule="evenodd" d="M395.93,405.28a.65.65,0,
1.74,30.42,30.42,0,0,1,2.13-2.27c1.67-1.62,3.29-3.27,4.8-5a16.44,16.44,0,0,1,1.81-1.92,63.56,63.56,0,0,0,4.46-4.68,26.58,26.
2.63a42.86,42.86,0,0,1,5.13-1.19c1.66-.25,3.31-.58,5-.84.95-.14,1.86-.44,2.81-.58,2-.28,4-.64,5.91-1a15.28,15.28,0,0,1,2.13-
.48,3.29-.69.71-.13,1.41-.27,2.11-.44a53,53,0,0,0,6.68-1.89l.23-.07c1.61-.48,3.18-1.08,4.73-1.71.82-.34,1.62-.71,2.44-1a72.8
2.62,17,17,0,0,1-1.59-4.25,17.33,17.33,0,0,0,-.66-2A.61.61,0,0,0,.667,242a9.1,9.1,0,0,0-1.3.62,51.63,51.63,0,0,1-5.5,2.92c-1.7
2.44.79-3.61,1.31s-2.55.94-3.81,1.43c-.82.32-1.65.63-2.46,1-2.16.85-4.28,1.77-6.46,2.56-.82.31-1.68.52-2.49.85s-1.5.55-2.25.
3.29.68,4.16,4.16,0,0,1-1.16.26,22.26,22.26,0,0,0-3.54.64c-.7.15-1.4.3-2.12.39a17.23,17.23,0,0,0-2.36.35c-2.17.58-4.4.83-6.5
1.1.16-1.66.22-1.59.17-3.18.32-4.78.44-2.15.16-4.3.41-6.45.51-.64,0-1.28.12-1.91.17s-1.12.13-1.68.13c-2,0-4,.15-6,.27-1.68.1
.45.49,3.59,3.59,0,0,0,.12.94c.16.7.39,1.39.5,2.1a13.71,29.71,0,0,0,.92,3.72c.25.84.46,1.69.65,2.55a60.94,60.94,0,0,1,1.36,6
.06,2.88,0a23.76,23.76,0,0,0,2.39-.13,10.07,10.07,0,0,1,2.39-.13,3.21,3.21,0,0,0,1.19-.13,25.76,25.76,0,0,0,3-.87c.6-.23,1.2
1.69.47-2.46.93a49.78,49.78,0,0,1-5.42,1.91c-1,.26-2,.61-3,.84a25.61,25.61,0,0,0-2.91,1.11c-.22.08-.46.13-.69.19a16.4,16.4,
.58,2.78,73.71,73.71,0,0,0,.17,7.43c.08,1.35.12,2.71.17,4.07a53.84,53.84,0,0,0,.82,8.11c.49,2.59,1.08,5.16,1.73,7.72a12.85,1
12
13          <path onClick={() => this.props.onFill(1)} fill={this.props.fillColors[1]} fill-rule="evenodd" d="M675.1,238.36c-1.08.5-2.
1.15-1.09-2.31-1.62-3.47-.4-.87-.79-1.75-1.1-2.65a23.18,23.18,0,0,1-1-3.46,3.8,3.8,0,0,0-.49-1.34c-.07-.11-.26-.16-.38-.25a5
14
15          <path onClick={() => this.props.onFill(2)} fill={this.props.fillColors[2]} fill-rule="evenodd" d="M418.2,397.74a11.45,11.45,
16
17          <path onClick={() => this.props.onFill(3)} fill={this.props.fillColors[3]} fill-rule="evenodd" d="M479.46,355.5a43.44,43.4
.37,10,10,0,0,0,2.09-.53,7.5,7.5,0,0,1,1.6-.46,26.23,26.23,0,0,0,3.27-.75,26.21,26.21,0,0,1,3.28-.7c.71-.07,1.43-.18,2.13-.3
.08,19.07,19.07,0,0,1,2.61-.37c1-.11,1.9-.28,2.86-.33,1.68-.09,3.33-.37,5-.61.27,0,.44-.49.28-.78-.43-.77-.87-1.53-1.28-2.3
4.29.47,7.36,7.36,0,0,0-1,.1,23.89,23.89,0,0,1-2.38.33c-.87.06-1.72.31-2.61.34a12,12,0,0,0-1.89.32c-.47.09-.93.2-1.4.28-.87.
5.54.5.62-.41.29-.96.71.1.2.1.671-.72.61-.1.27.1.22.2.75.2.42.4.2.77-.72.22-.46.44-.7.65a27.12.27.12.0.0.0.2.28.2.15.0.62.0
```

STEP 7: LET'S CREATE A COLOR PALETTE

Firstly, we need to add an array with different colors. You can write them by name or you can use HEX code. I created my palette in Photoshop and then, used the tool called eyedropper to find the HEX code of each color.



After you added all the colors to your code, in the 'return' section of the code, map through the colors array and create a 'div' for each with the onClick event to change the currentColor to whichever color was clicked.

Add some styling with .css to show which color is selected and to style the palette itself.

The final version of this code will look like this:

```
Drawing.js | ColorPalette.js
1 import React from 'react';
2
3 export default function ColorPalette(props) {
4
5     const colors = ['#13478b', '#2468c3', '#6591cc', '#8cb9f4', '#b8d3f6', '#1da7f0', '#53acdc', '#71cbfb', '#32b6fc', '#cbb8f7',
6     '#06c1c7', '#4aeeef3', '#23f8e3', '#8ff7ed', '#7bf8d5', '#90e691', '#d0f8b6', '#faf79c', '#fcfb0', '#f9e9c3', '#ffc9a5',
7     '#f8dbc7', '#fdb29d', '#fba2b1', '#fbc0ca', '#fd9ef8', '#eebbe1', '#f9d9f1', '#fb9e9e', '#e98585' ]
8
9     return(
10         <div className="color-palette">
11             {colors.map(color => {
12                 const activeClass = props.currentColor === color ? "color-swatch-active" : "";
13                 return (
14                     <div onClick={() => {props.changeColor(color)}}>
15                         <div className={`color-swatch ${activeClass}`} style={{backgroundColor: color}}></div>
16                     </div>
17                 )
18             })}
19         </div>
20     )
21 }
22
```

Then, import ColorPalette.js into App.js

STEP 8: DEPLOYMENT

To crate a website link for my project I used Heroku platform.

To make it all work, go through the following steps:

1. Install Heroku CLI (Command Line Interface)
2. Clone the app source code from GitHub repository
3. Create an app on Heroku.
4. Deploy your code by typing 'git push heroku main'

HERE'S THE LINK TO THE WEBSITE:

[HTTPS://SECRET-HARBOR-84237.herokuapp.com](https://SECRET-HARBOR-84237.herokuapp.com)

Happy coloring! :)

WHAT DIDN'T WORK?

Problem: not all of the segments of the ColorMe project can be colored.

Solution: the cause of this problem is open paths. In order to color the segment, the path of the segment should be closed. To solve this problem I have to draw the frame for my drawing.

IMPROVEMENTS

- * Add a button "Clean" to remove all the coloring
- * Add a white color to the palette
- * Add a title
- * Maybe add a picture of the brush to the cursor
- * Add a function that will navigate to the color that was used when you touch the colored segment.
- * Add a sound every time you fill a segment with the color
- * Add a button to turn on/off background music
- * Add more drawings to color
- * Create a gallery out of all the drawings
- * Add a button to download the picture you've colored as .jpg file

FUTURE IMPLEMENTATION

In the future I would love to create a personalised digital coloring book; and improve/add all the aspects described in the previous slide.



THANK YOU!

