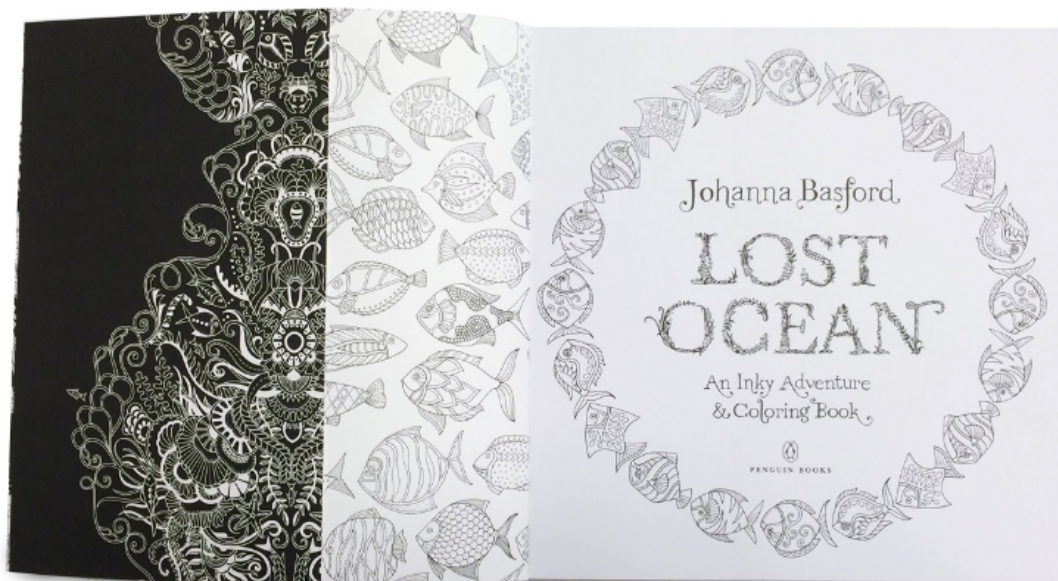


Auto-Coloring book

Nov 22, 2015

```
In[1]:= Clear["Global`*"]  
SetDirectory[NotebookDirectory[]];
```

Book

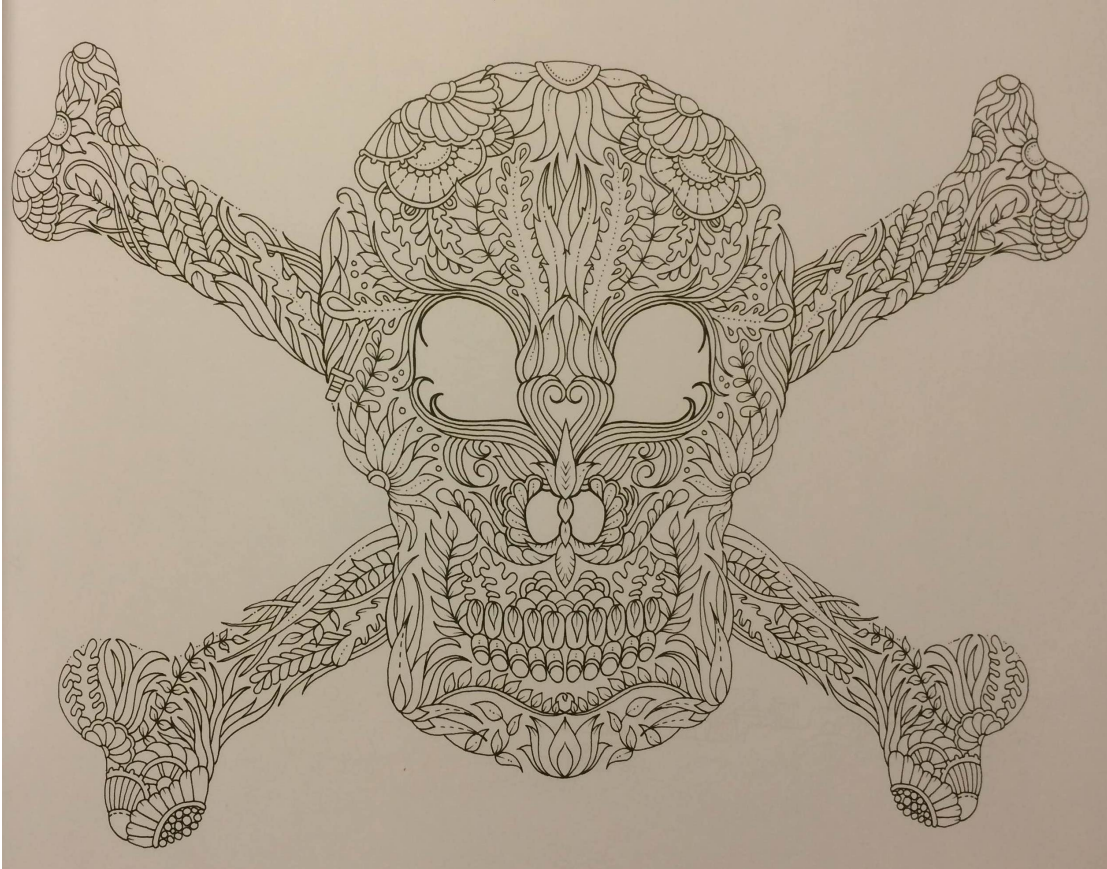


https://www.amazon.com/Lost-Ocean-Adventure-Coloring-Adults/dp/0143108999/ref=pd_bx-gy_14_img_3

Skull and Crossbones

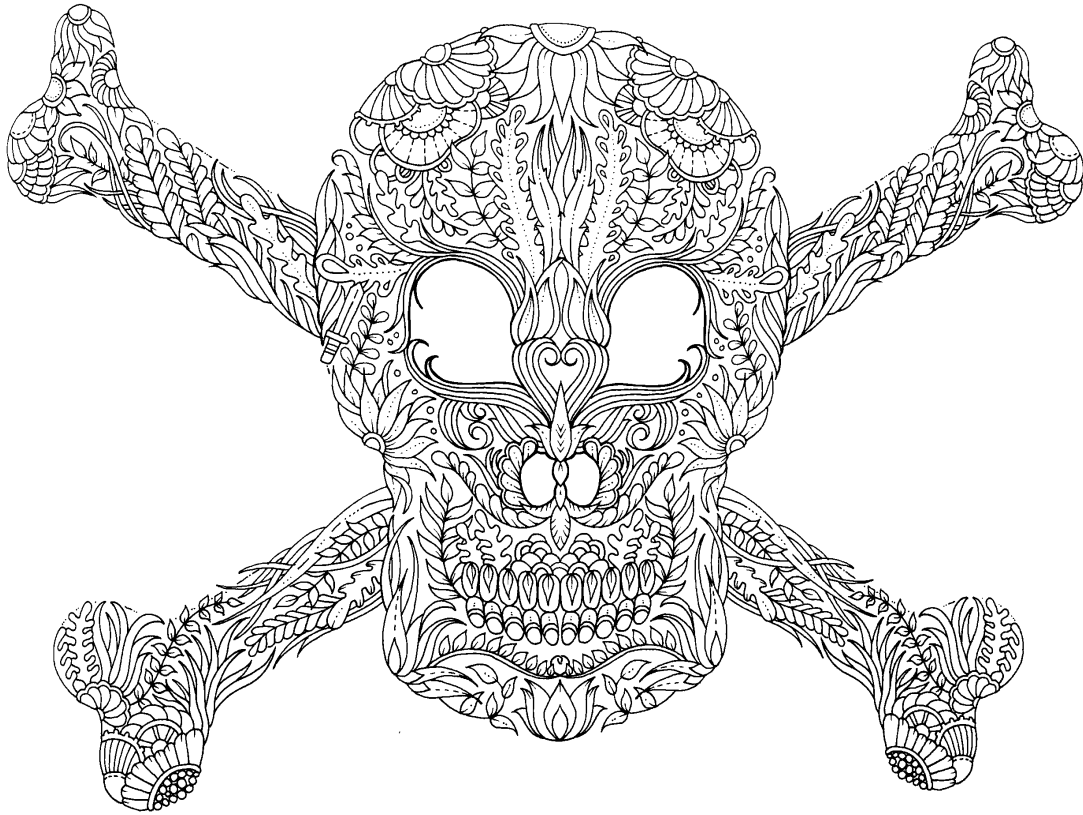
```
In[3]:= im = Import["coloringbook/IMG_3848.JPG"]
```

```
Out[3]=
```



```
In[4]:= im2 = Binarize[im]
```

```
Out[4]=
```



```
In[5]:= ImageMultiply[Binarize@im, Colorize@ImageForestingComponents[im]]
```

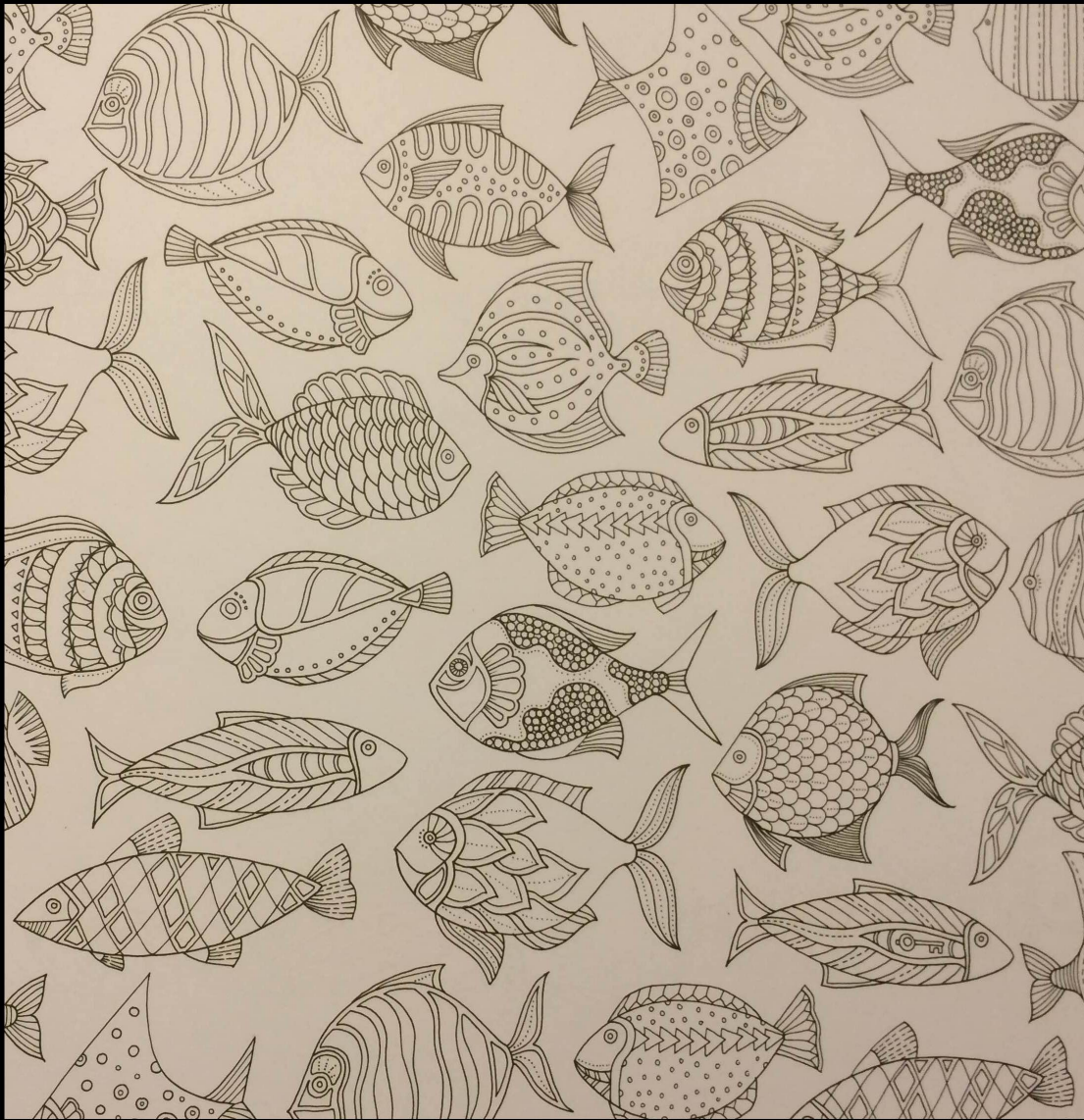
Out[5]=



Fish

```
In[6]:= im = Import["coloringbook/IMG_3849.JPG"]
```

```
Out[6]=
```



In[7]:= `im2 = Binarize[im]`

Out[7]=



```
In[8]:= ImageMultiply[Binarize@im, Colorize@ImageForestingComponents[im]]
```

```
Out[8]=
```



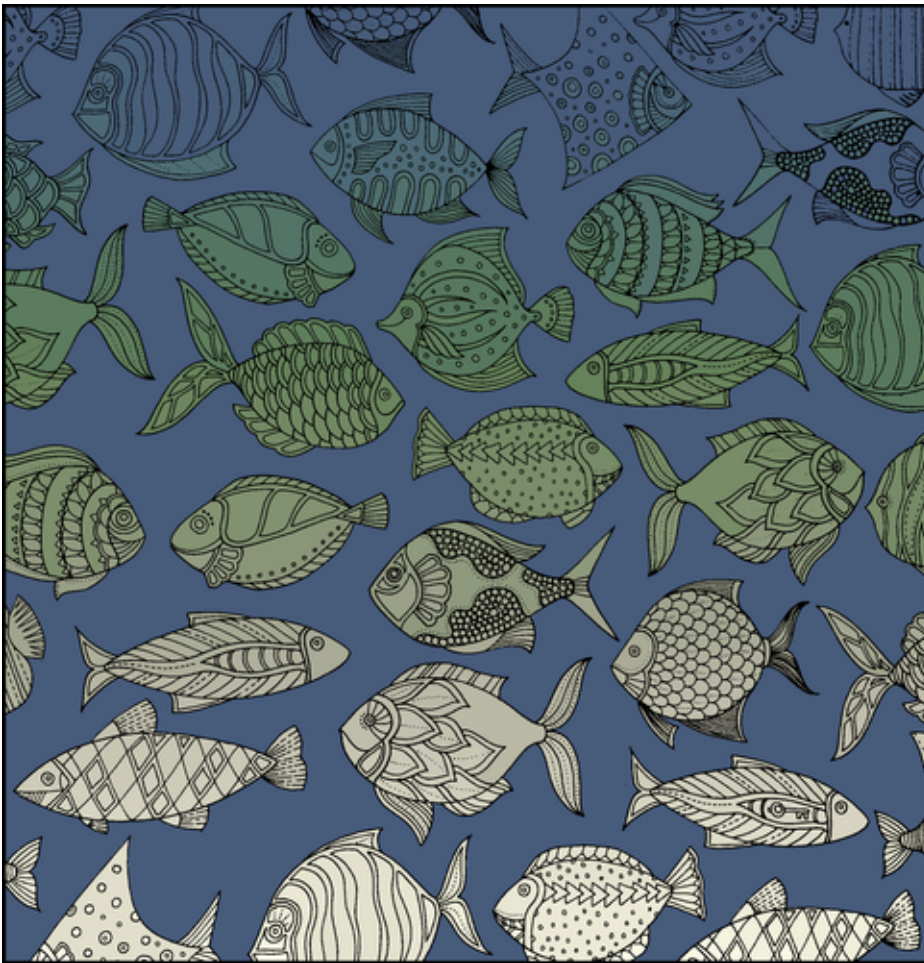
```
In[9]:= (*Export["coloring-book-fish.jpg",%]*)
```

All color schemes

```
In[10]:= size = 1000;
im = Import["coloringbook/IMG_3849.JPG"];
b = Binarize@im;
f = ImageForestingComponents[im];
save = False;
colors = ColorData["Gradients"];
```

```
In[16]:= t0 = Now;  
For[i = 1, i ≤ Length@colors, i++,  
  c = colors[[i]];  
  Print[c];  
  pic = ImageMultiply[b, Colorize[f, ColorFunction → c]];  
  Print[Thumbnail[pic, 500]];  
  If[save, Export["out/coloring-book-fish-" <> s <> ".jpg", pic, ImageSize → 1000]]  
]  
t1 = Now;  
Print["Colorings per second:", (t1 - t0) / Length[colors]]
```

AlpineColors



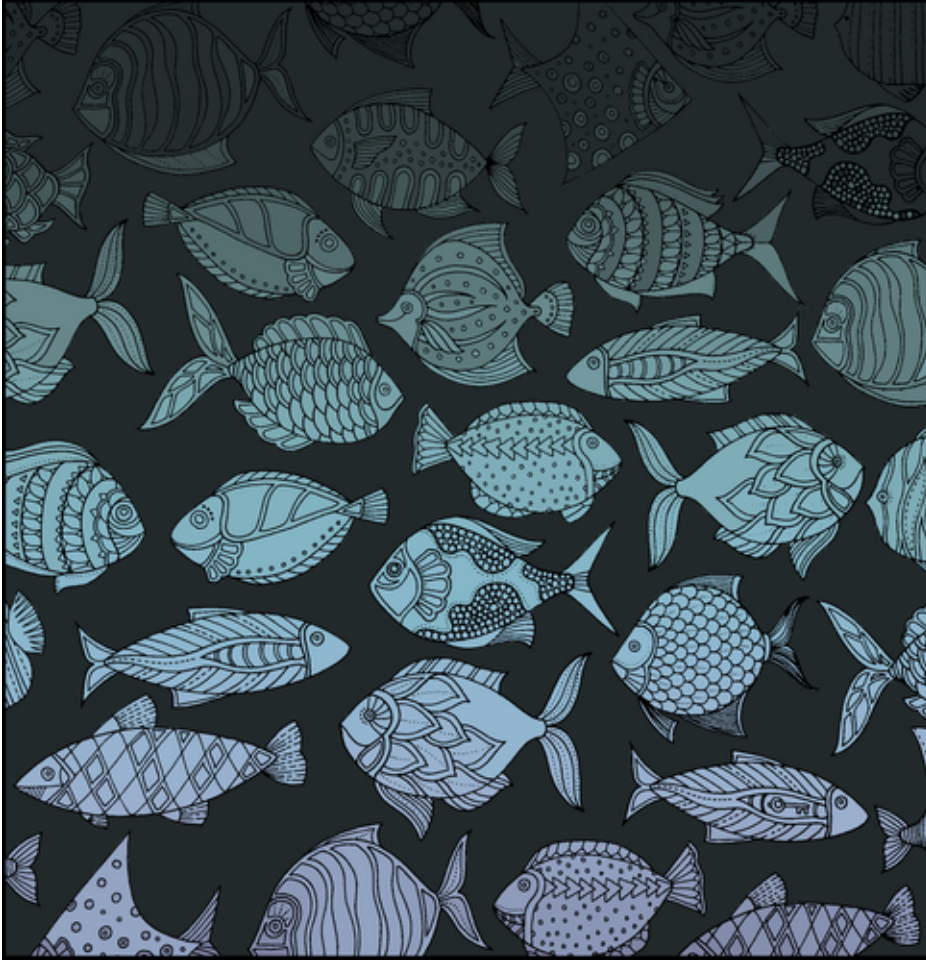
Aquamarine



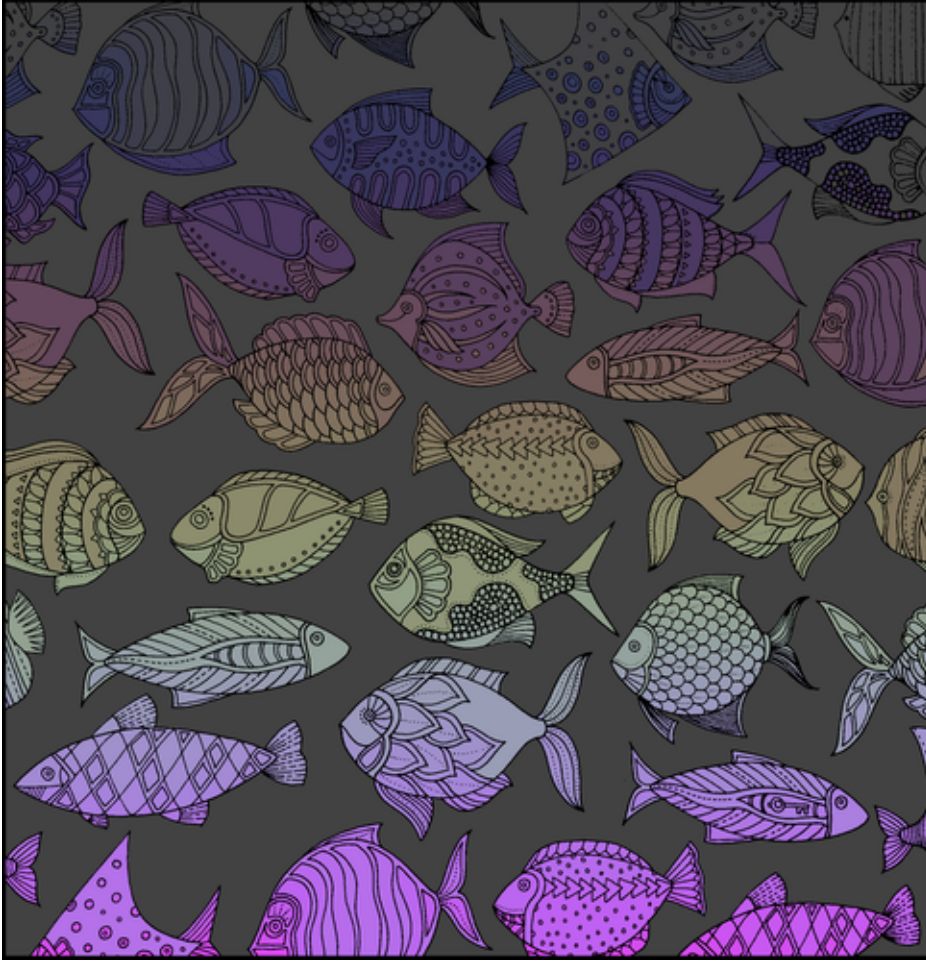
ArmyColors



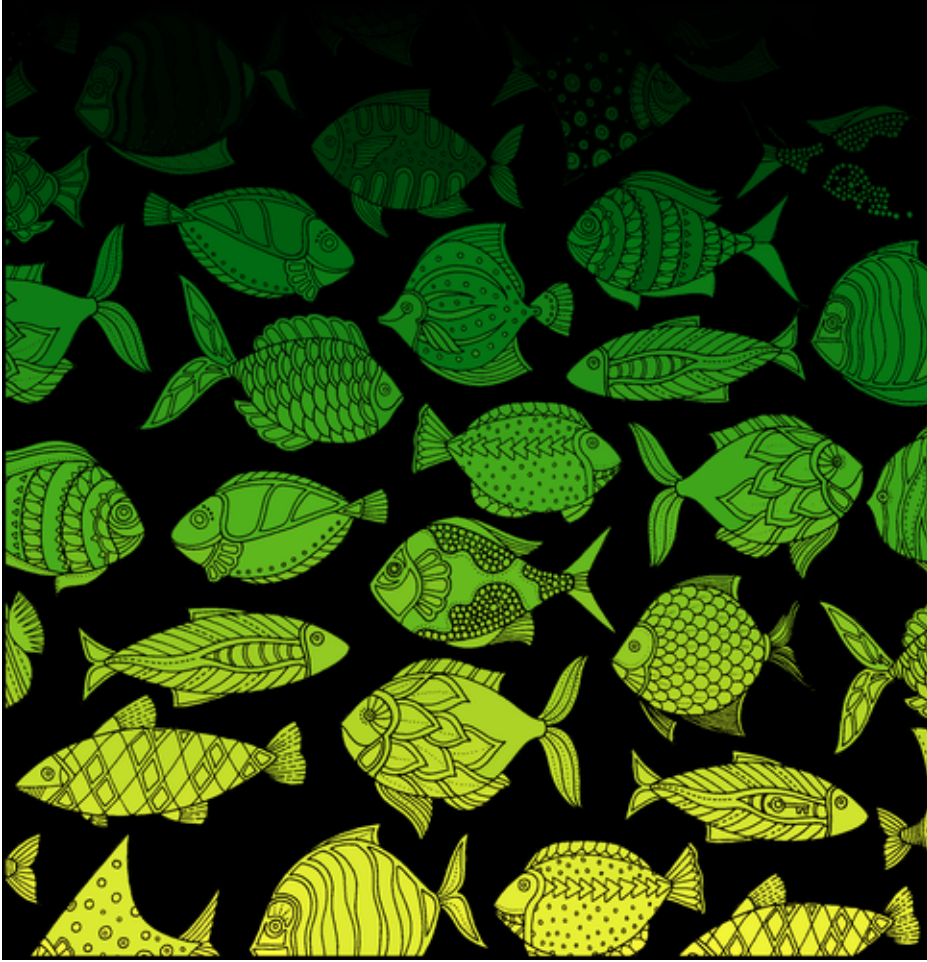
AtlanticColors



AuroraColors



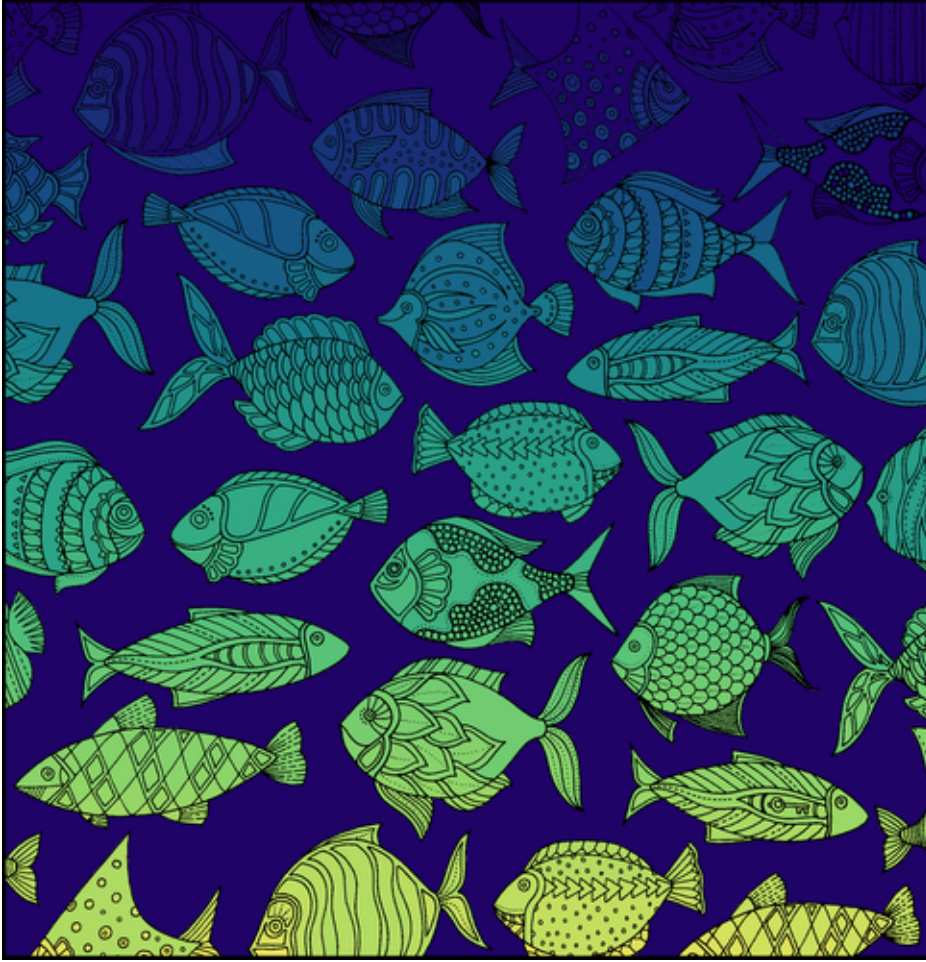
AvocadoColors



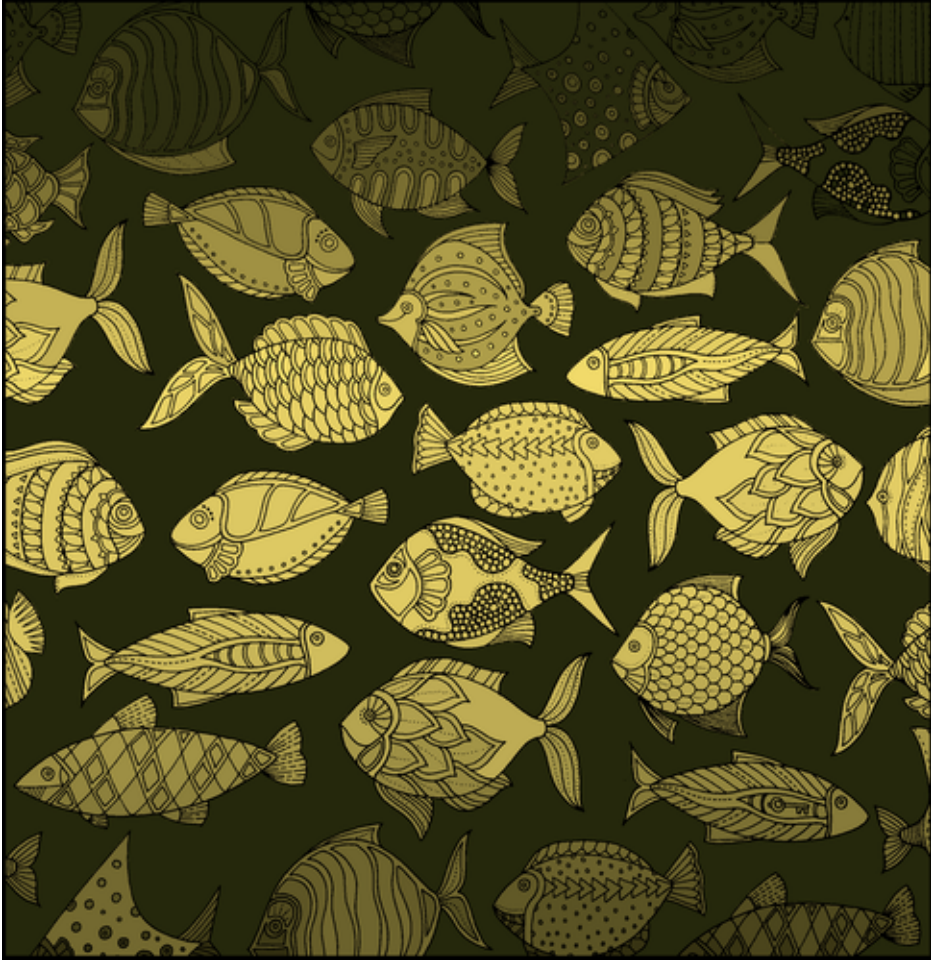
BeachColors



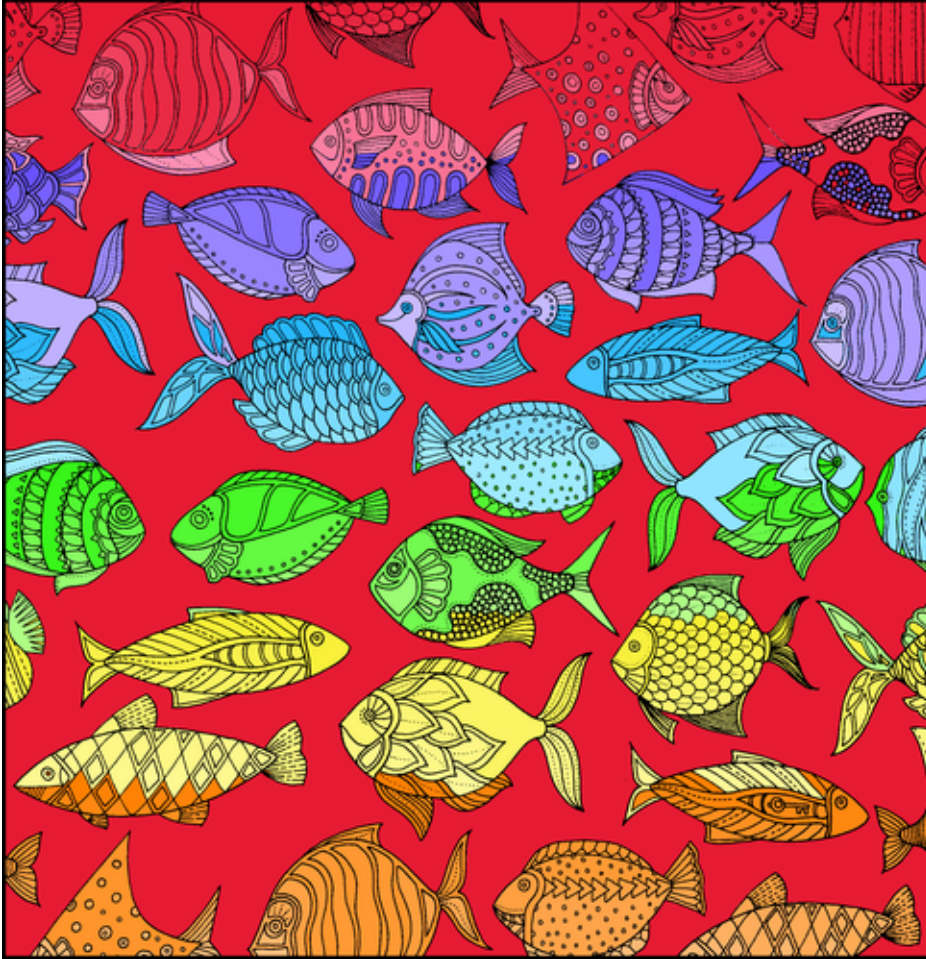
BlueGreenYellow



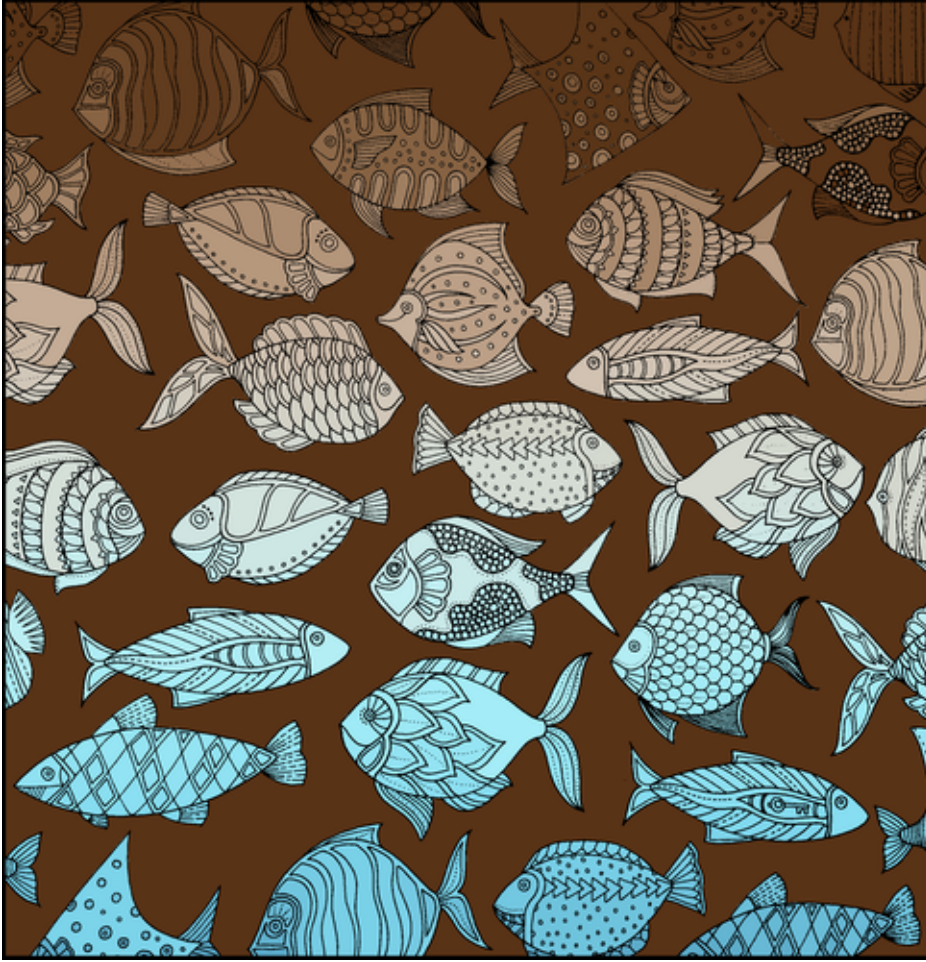
BrassTones



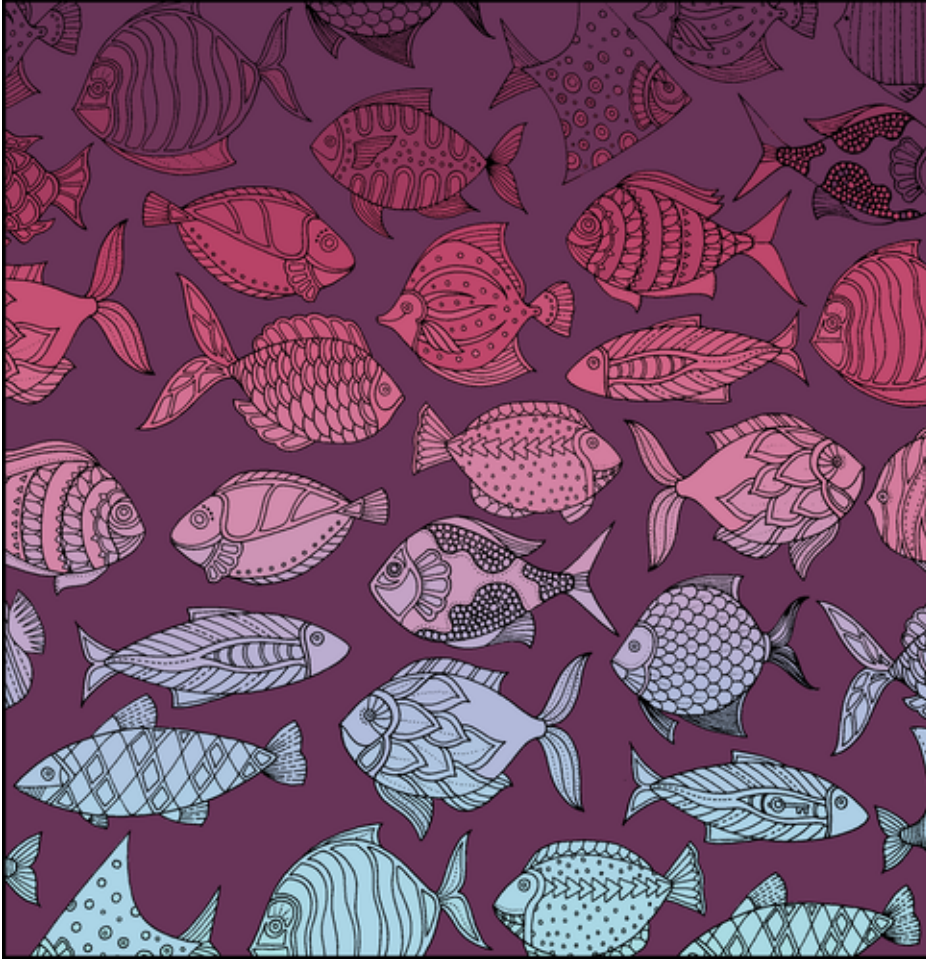
BrightBands



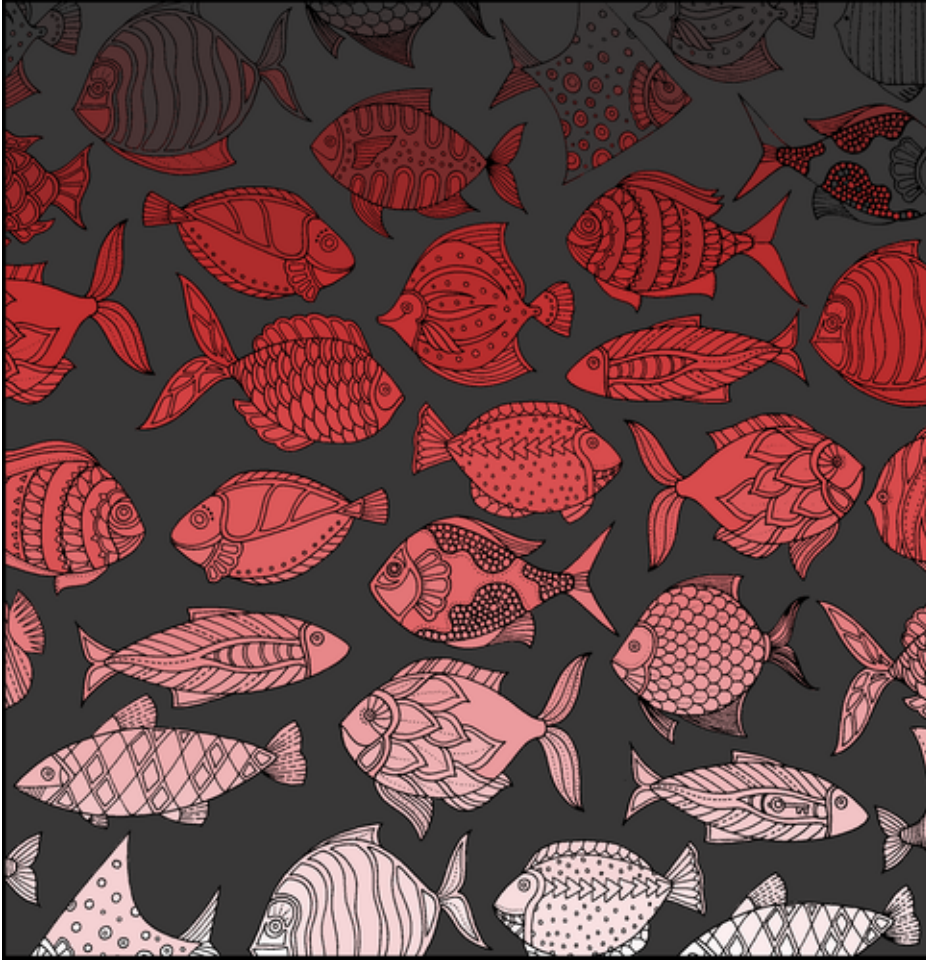
BrownCyanTones



CandyColors



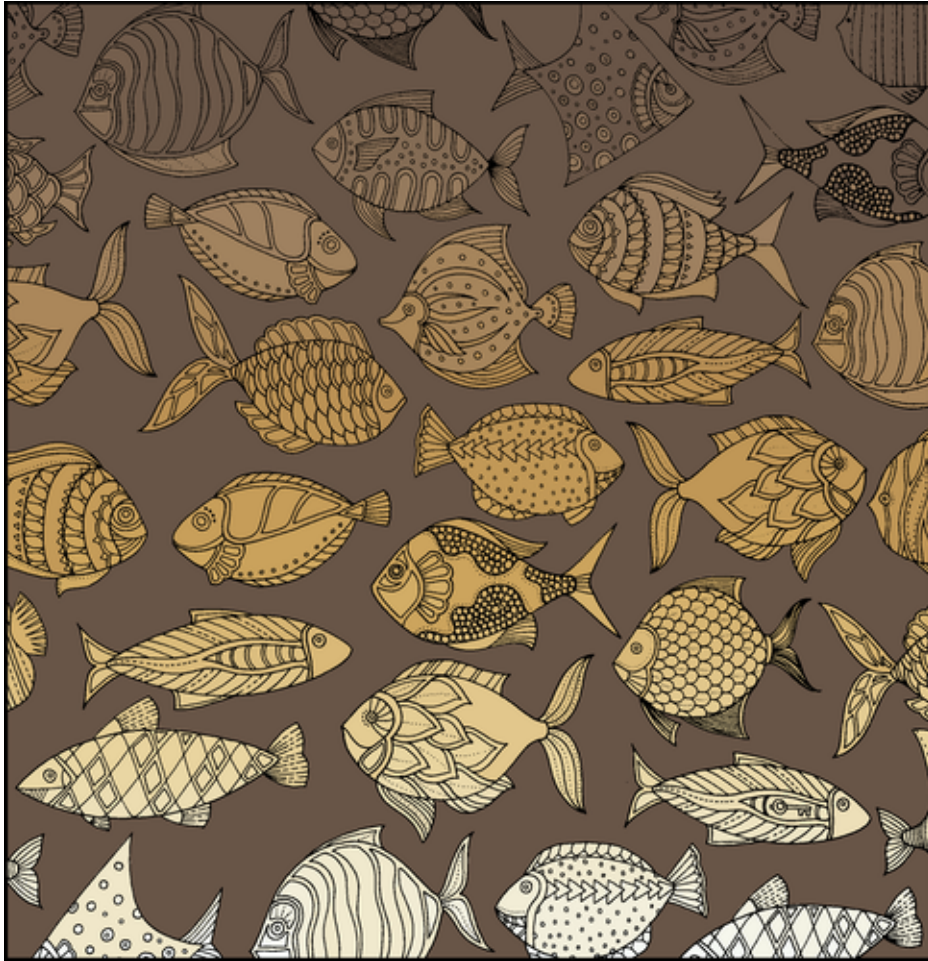
CherryTones



CMYKColors



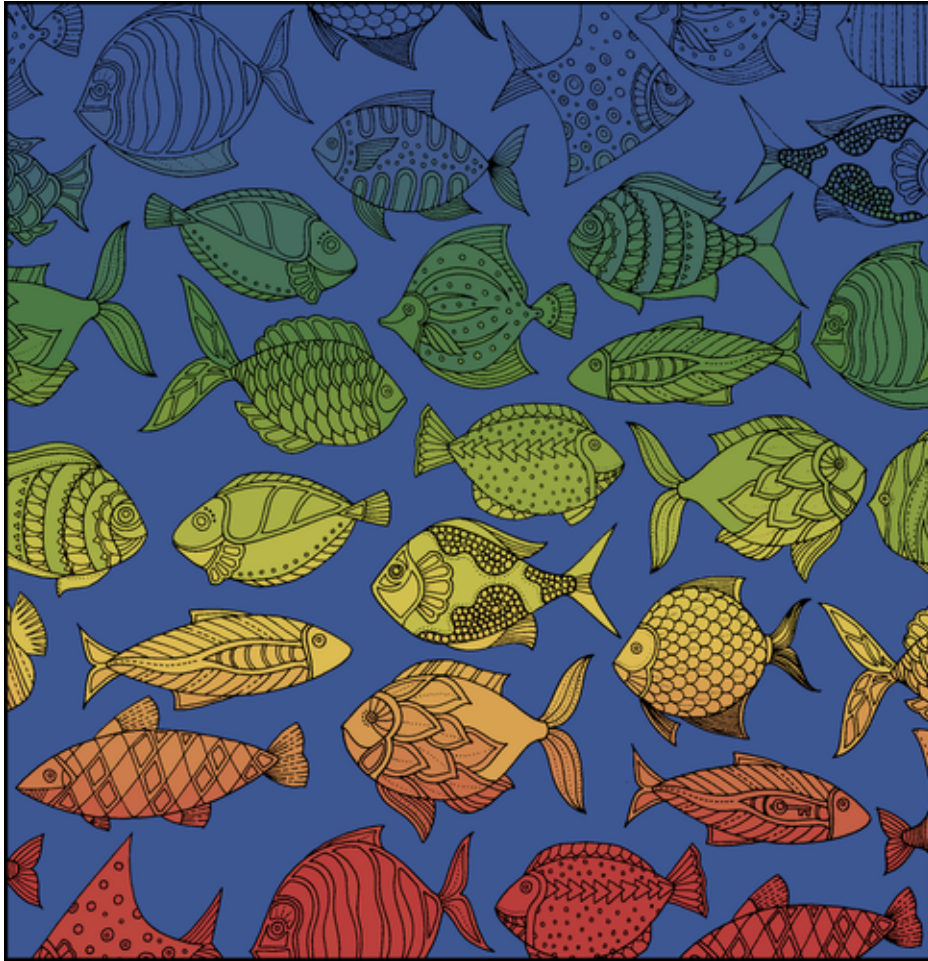
CoffeeTones



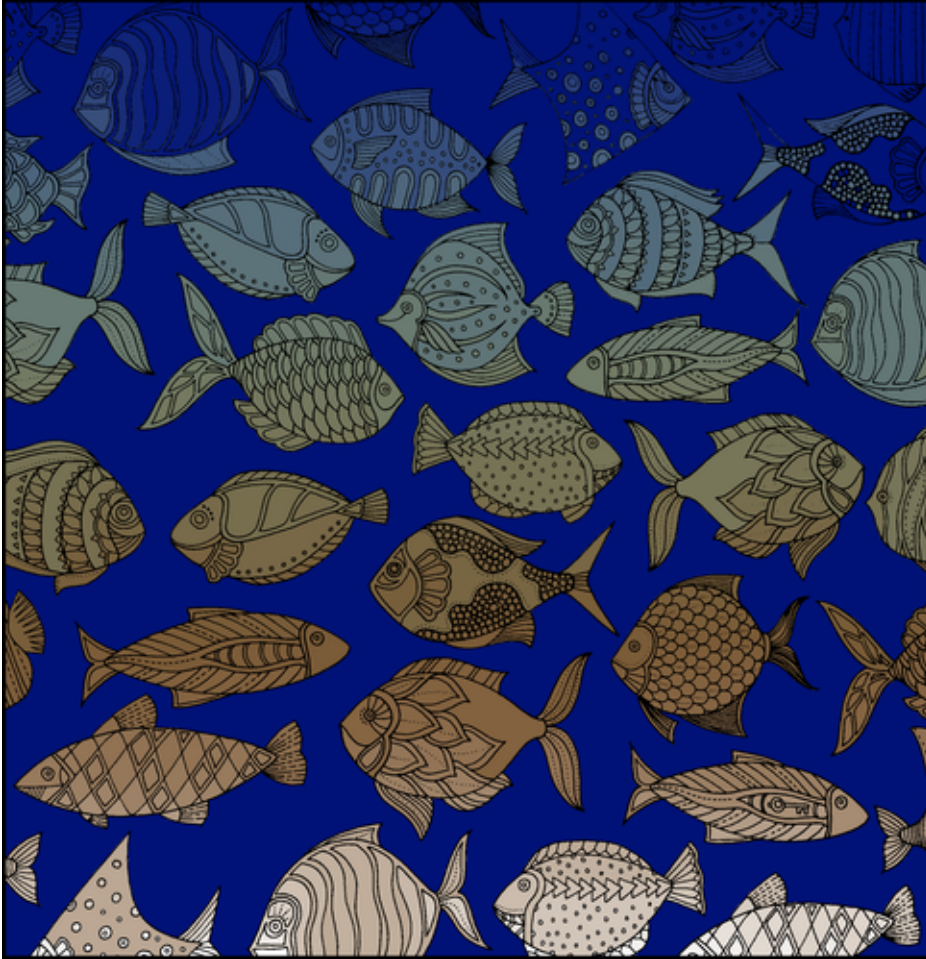
DarkBands



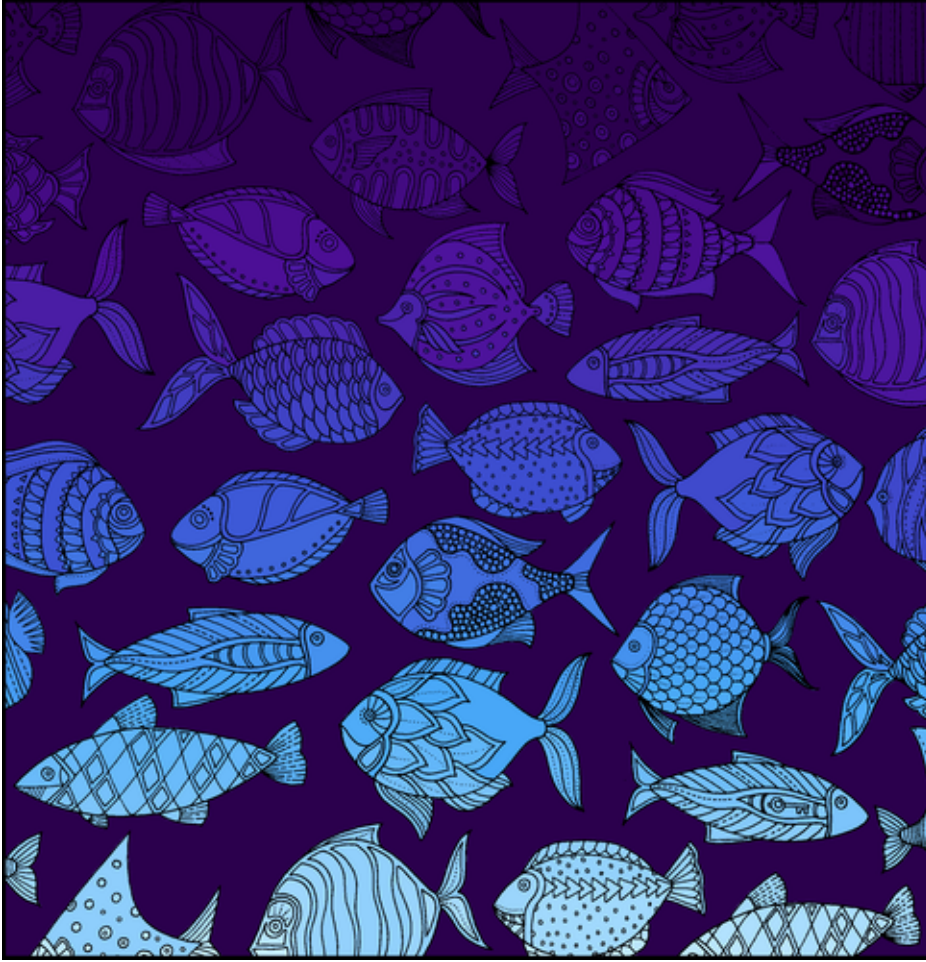
DarkRainbow



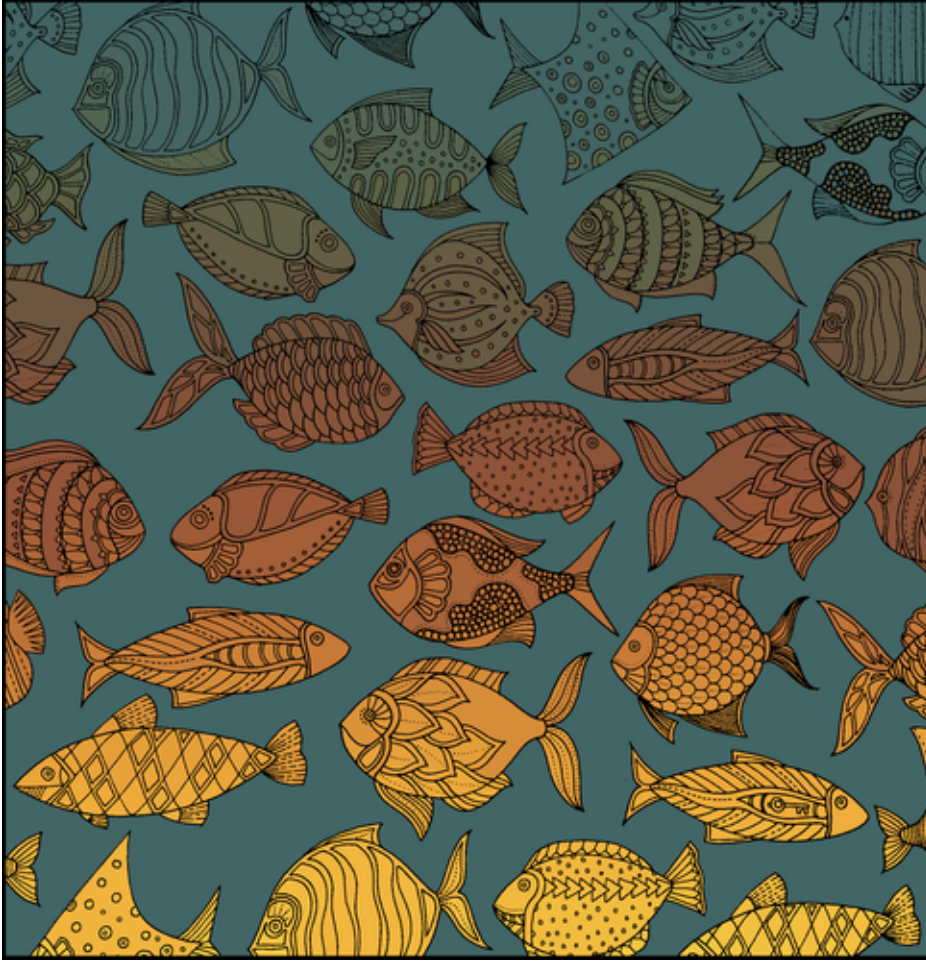
DarkTerrain



DeepSeaColors



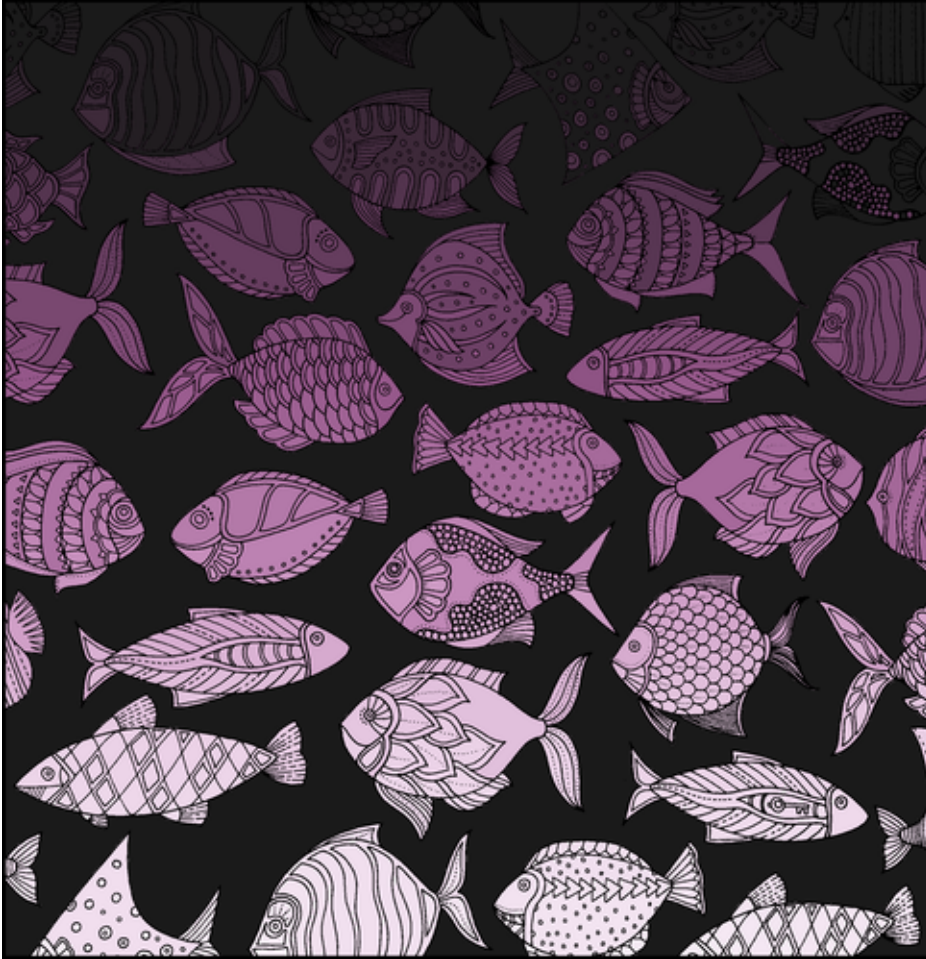
FallColors



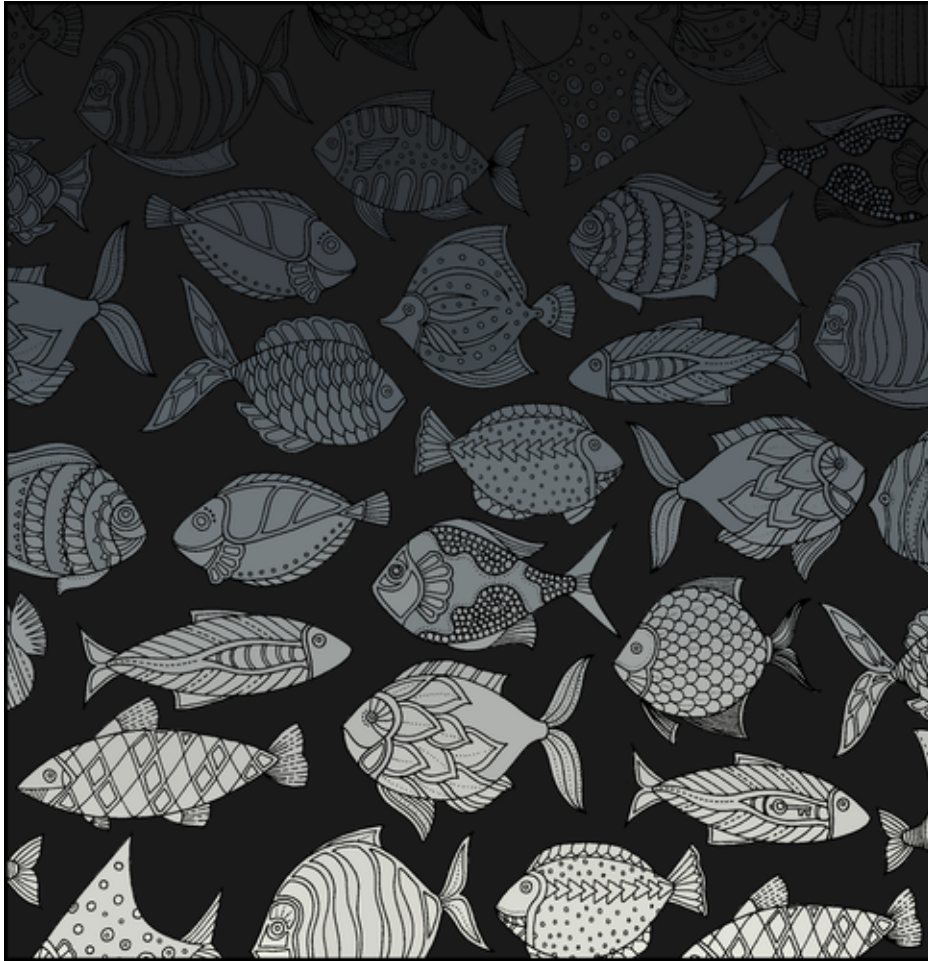
FruitPunchColors



FuchsiaTones



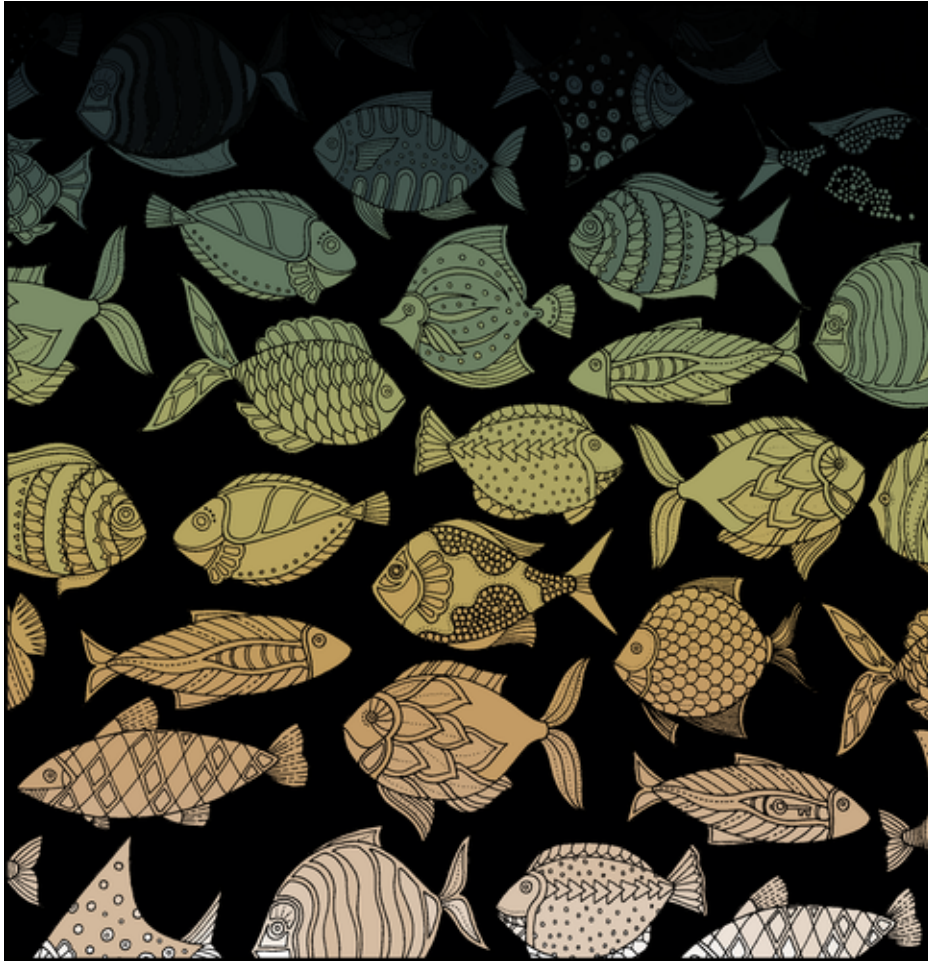
GrayTones



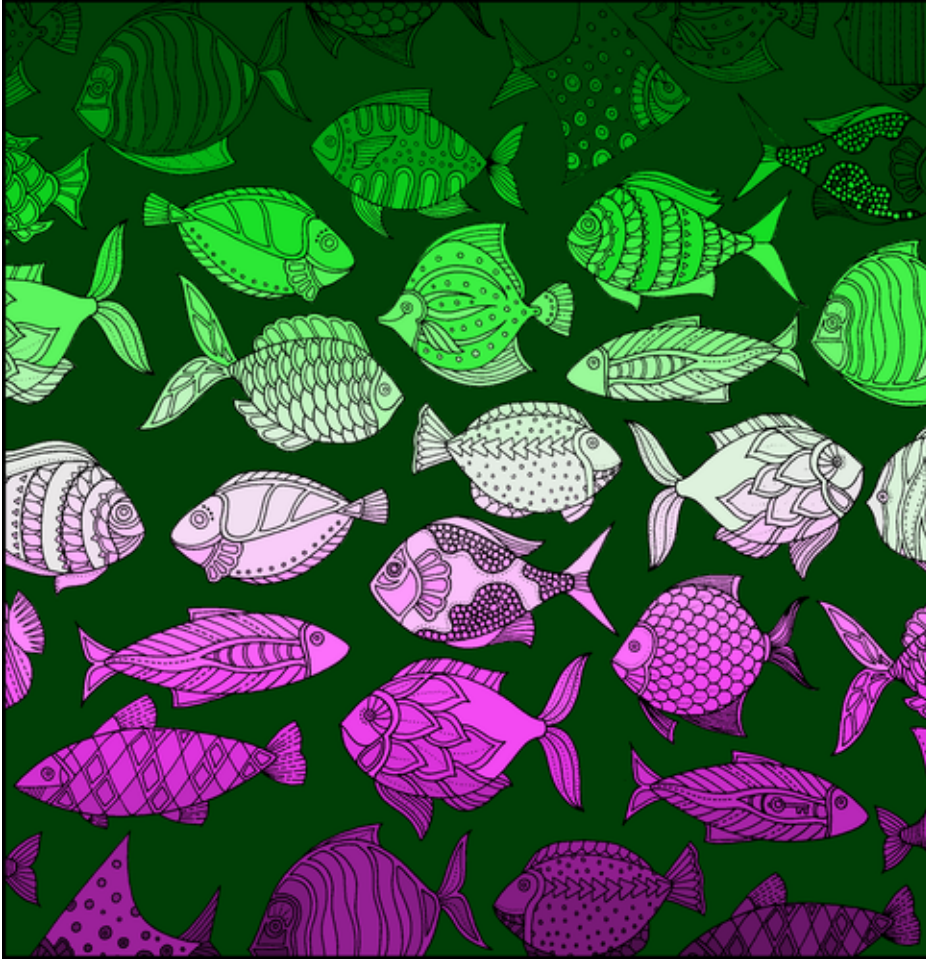
GrayYellowTones



GreenBrownTerrain



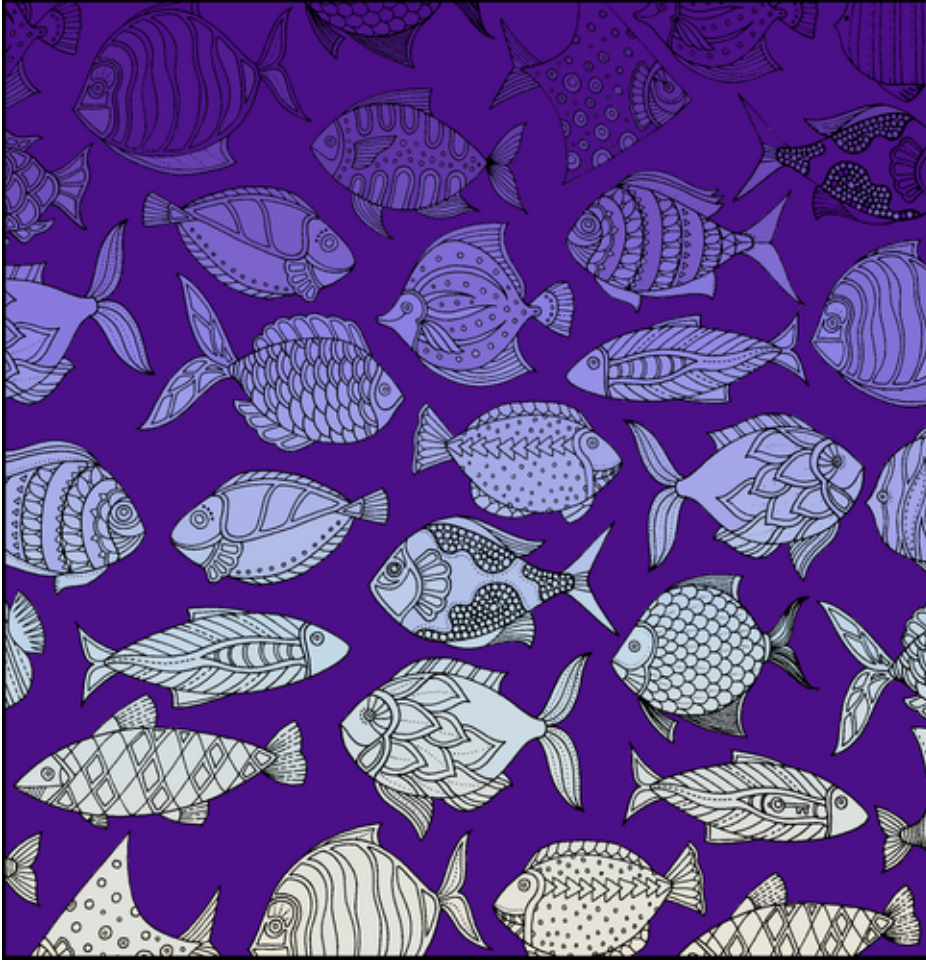
GreenPinkTones



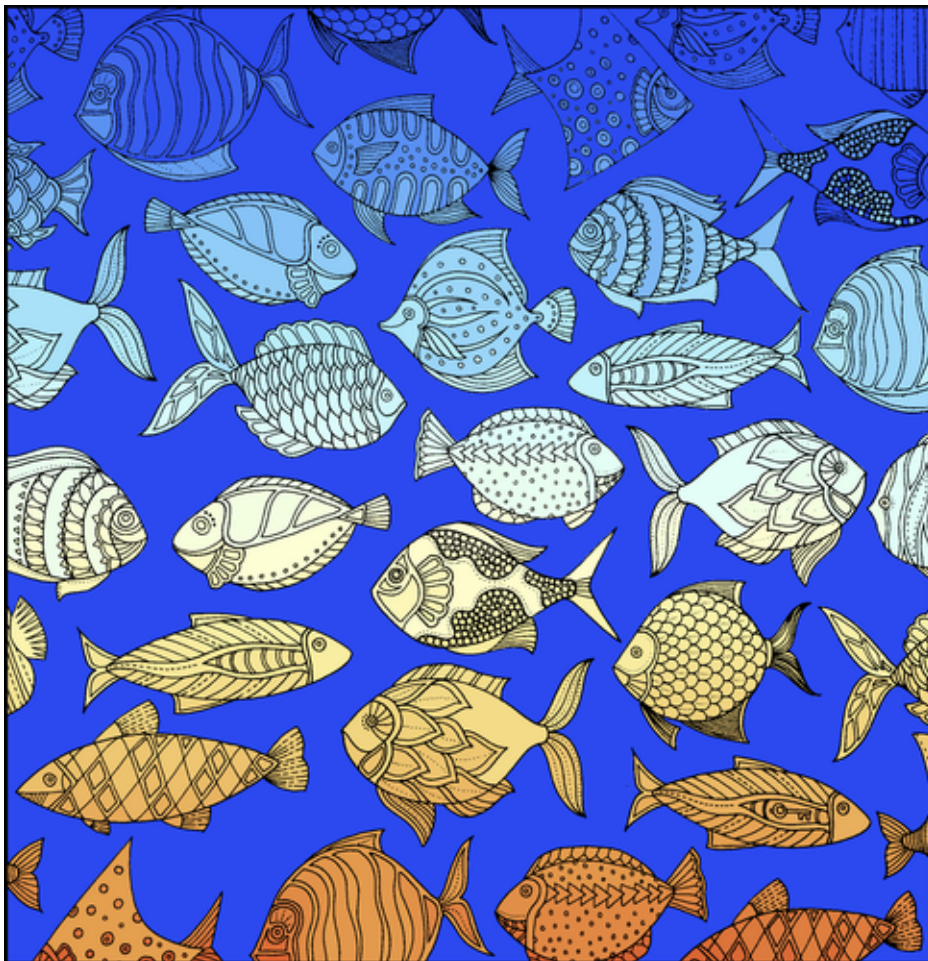
IslandColors



LakeColors



LightTemperatureMap



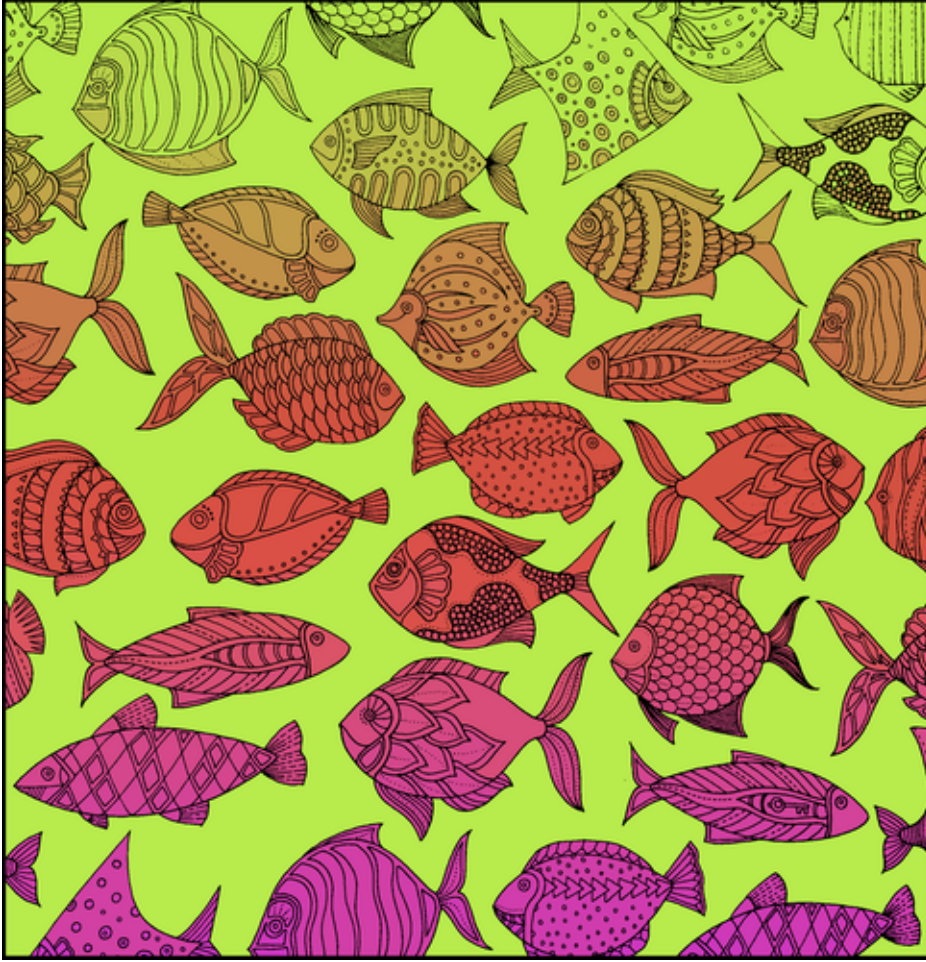
LightTerrain



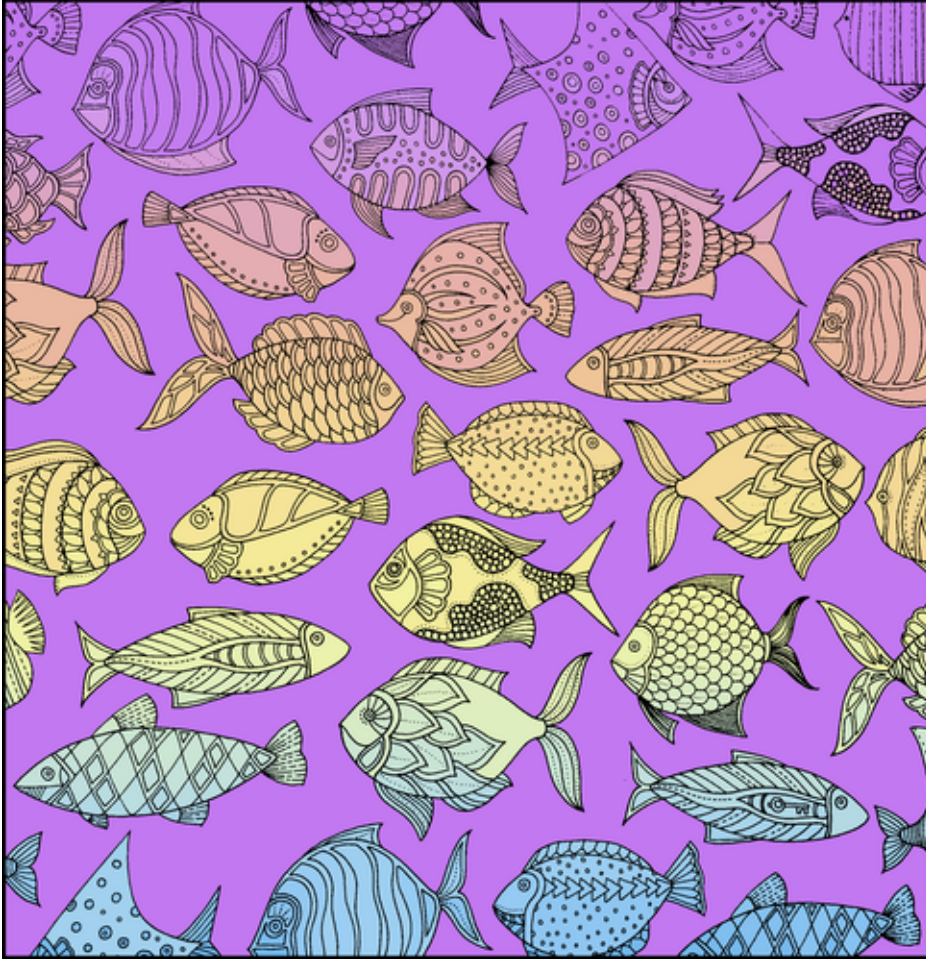
MintColors



NeonColors



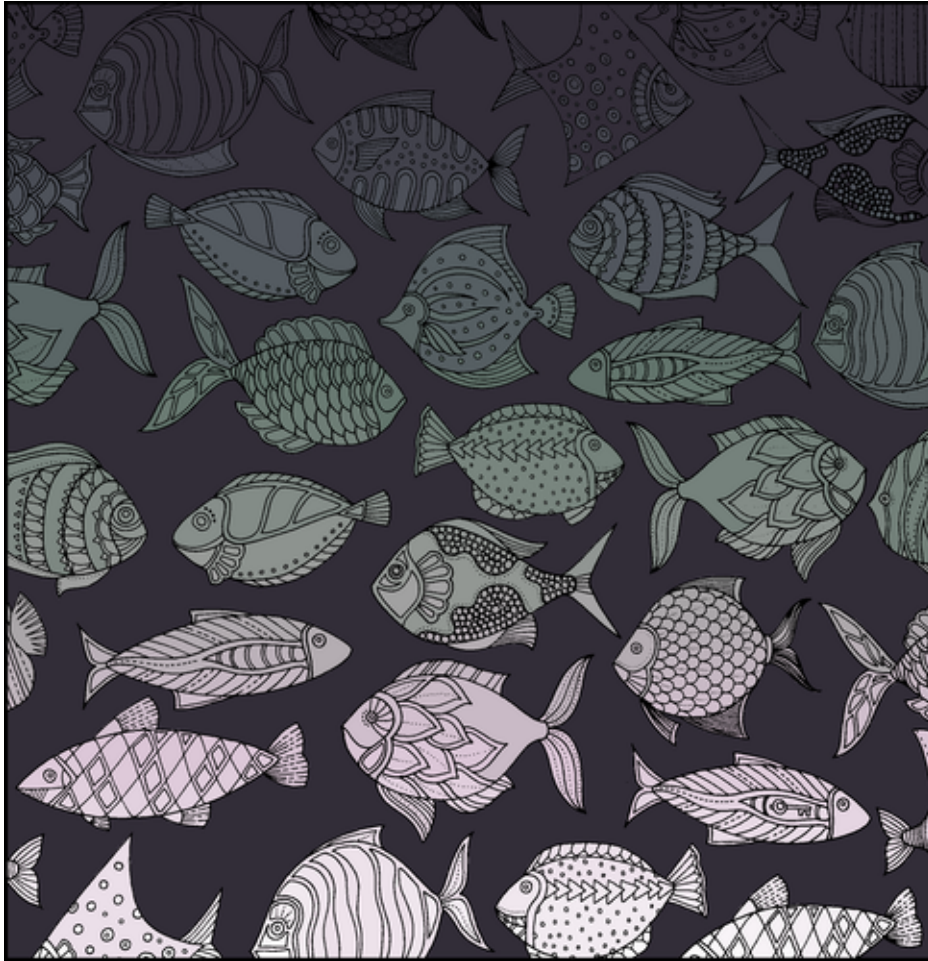
Pastel



PearlColors



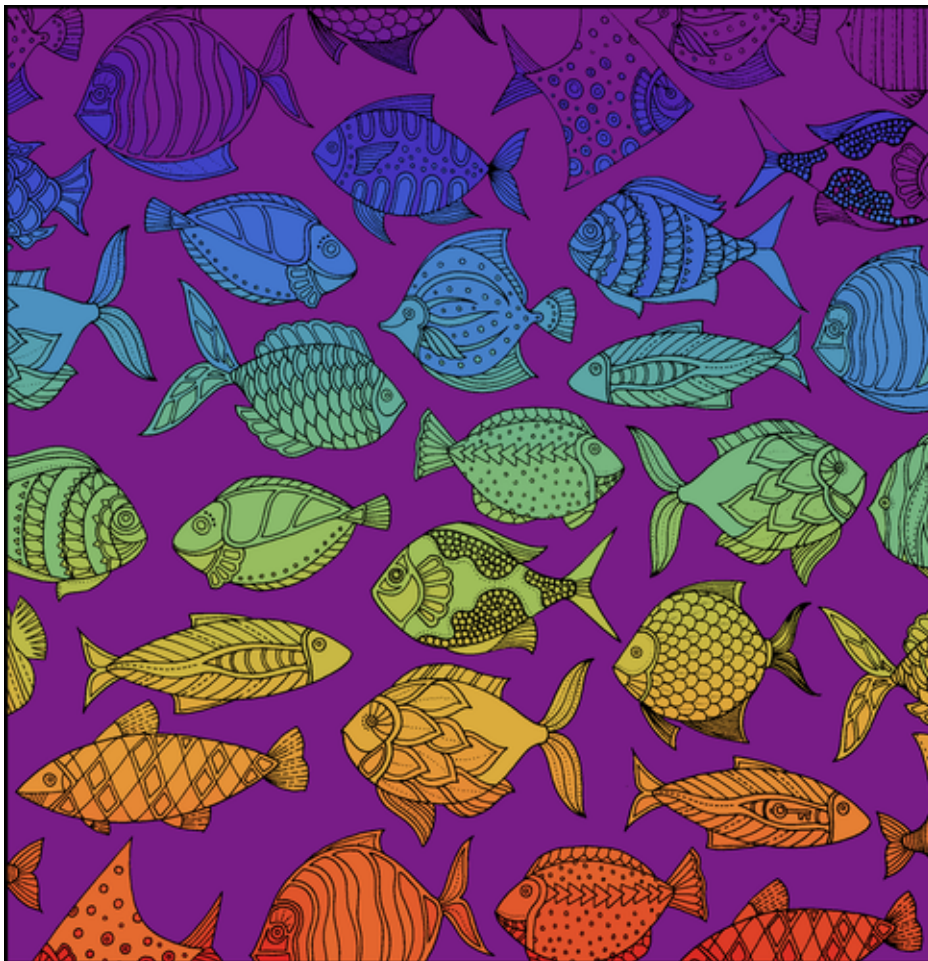
PigeonTones



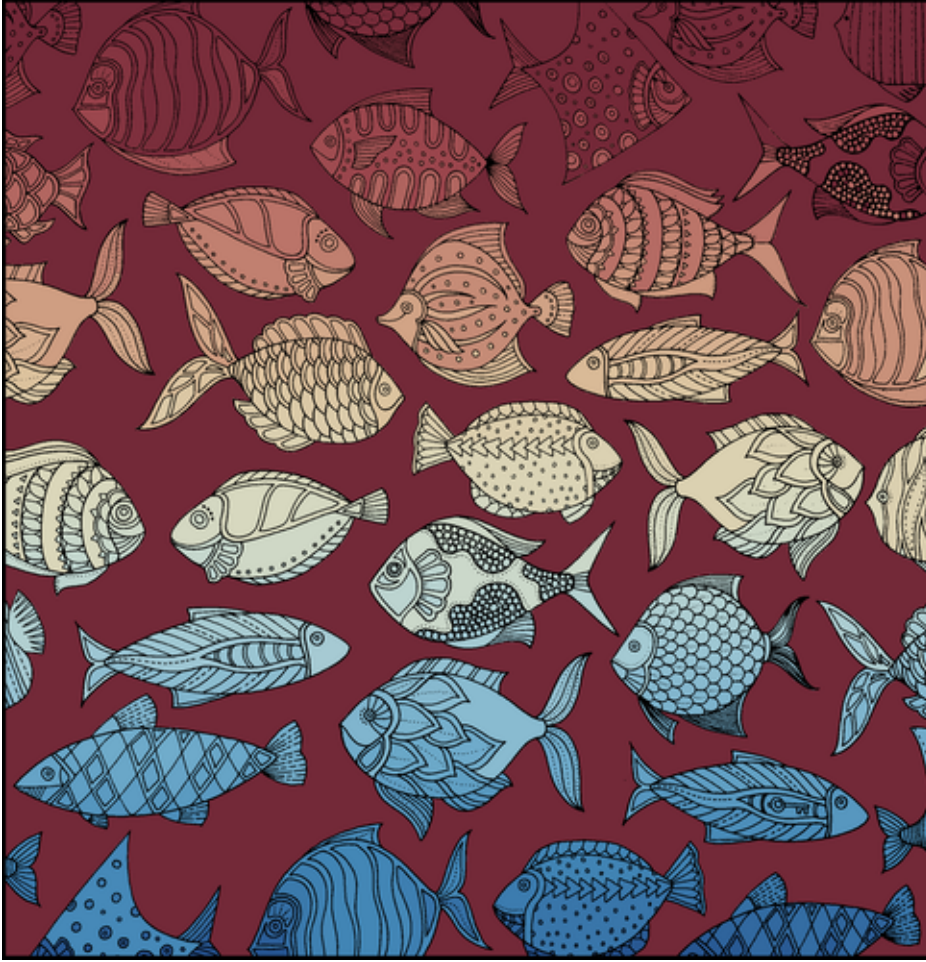
PlumColors



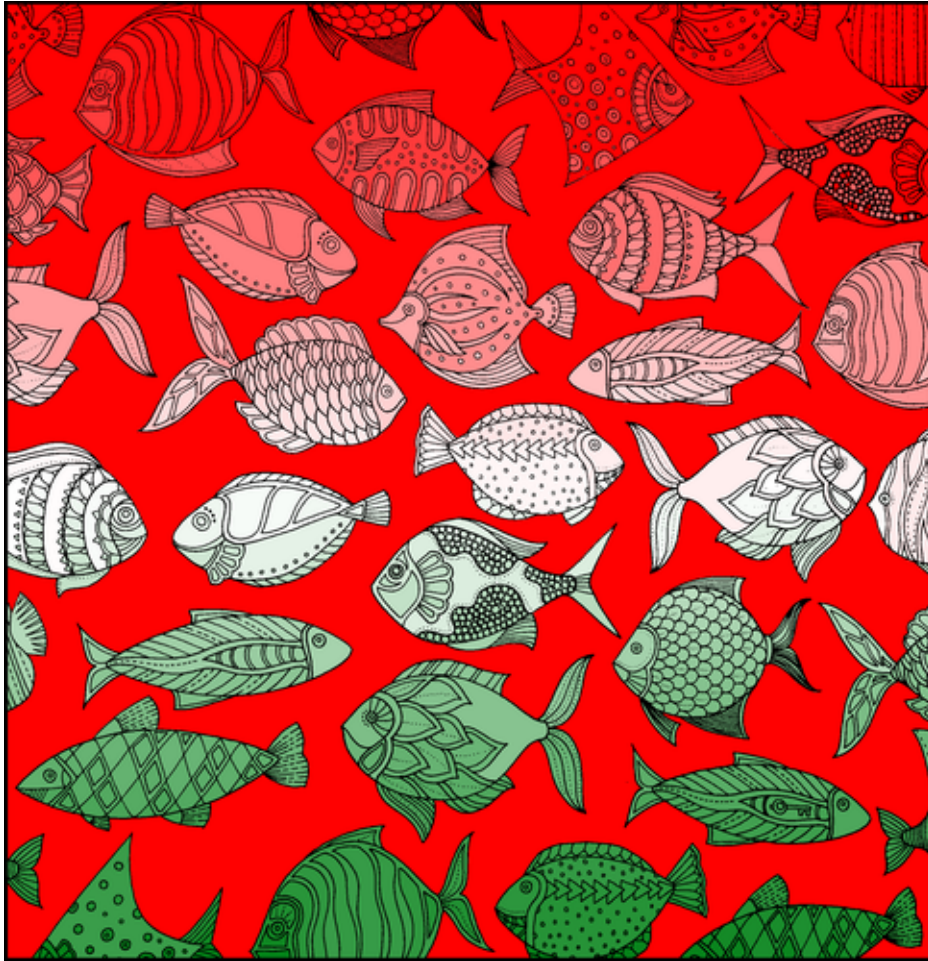
Rainbow



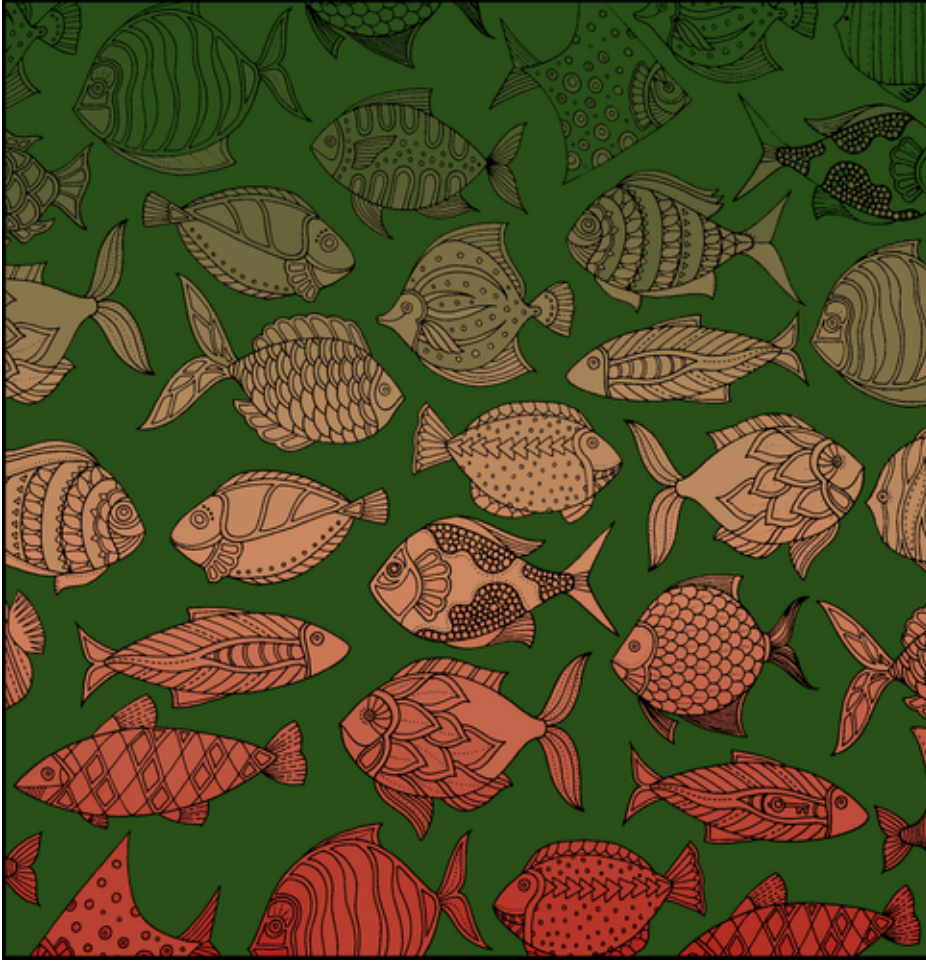
RedBlueTones



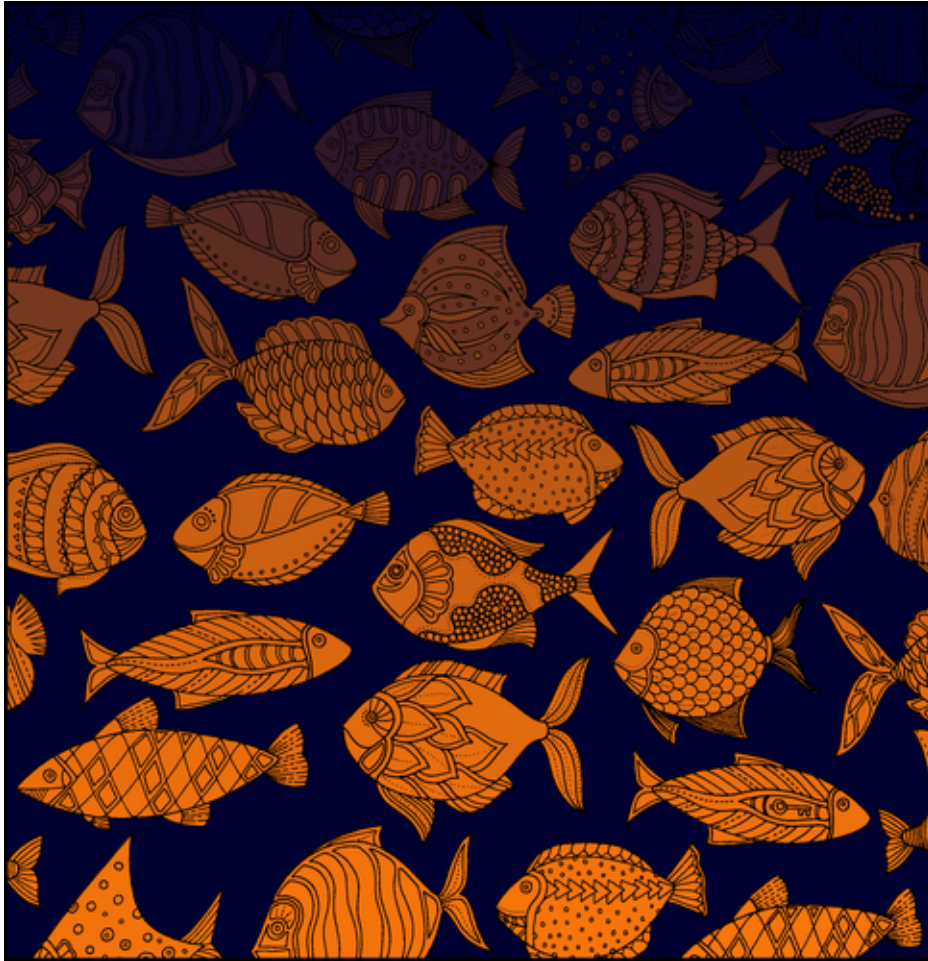
RedGreenSplit



RoseColors



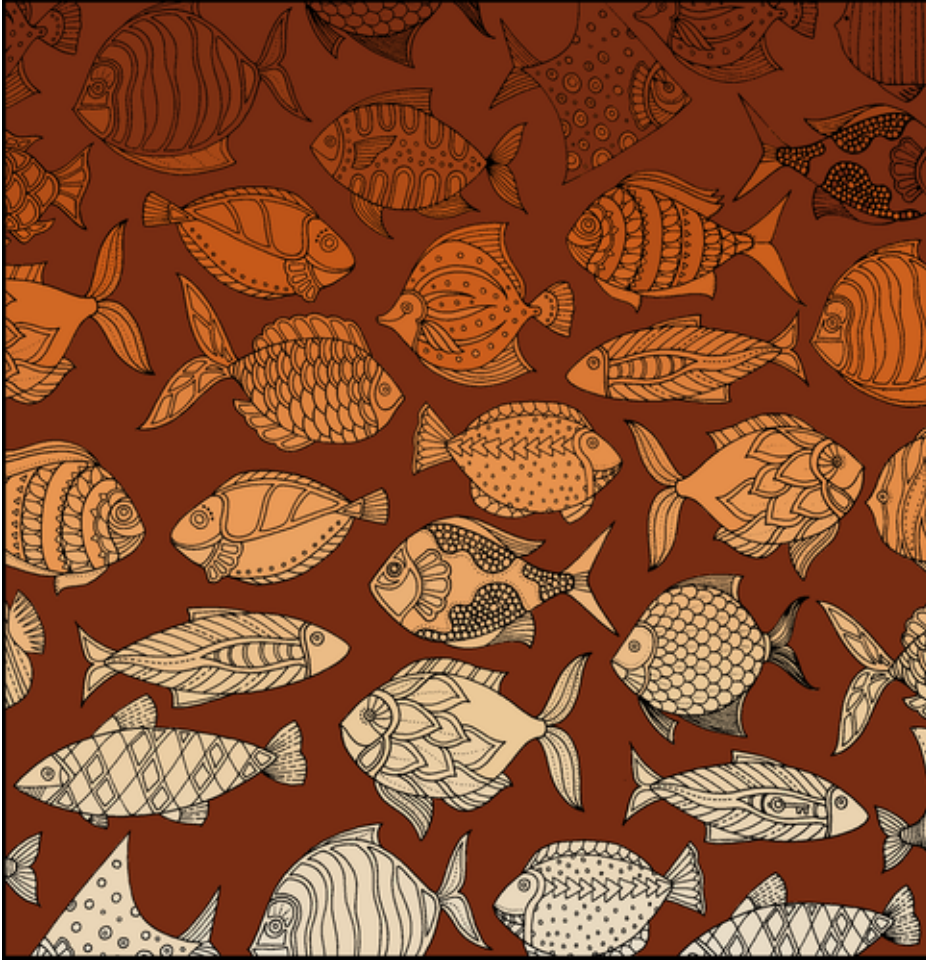
RustTones



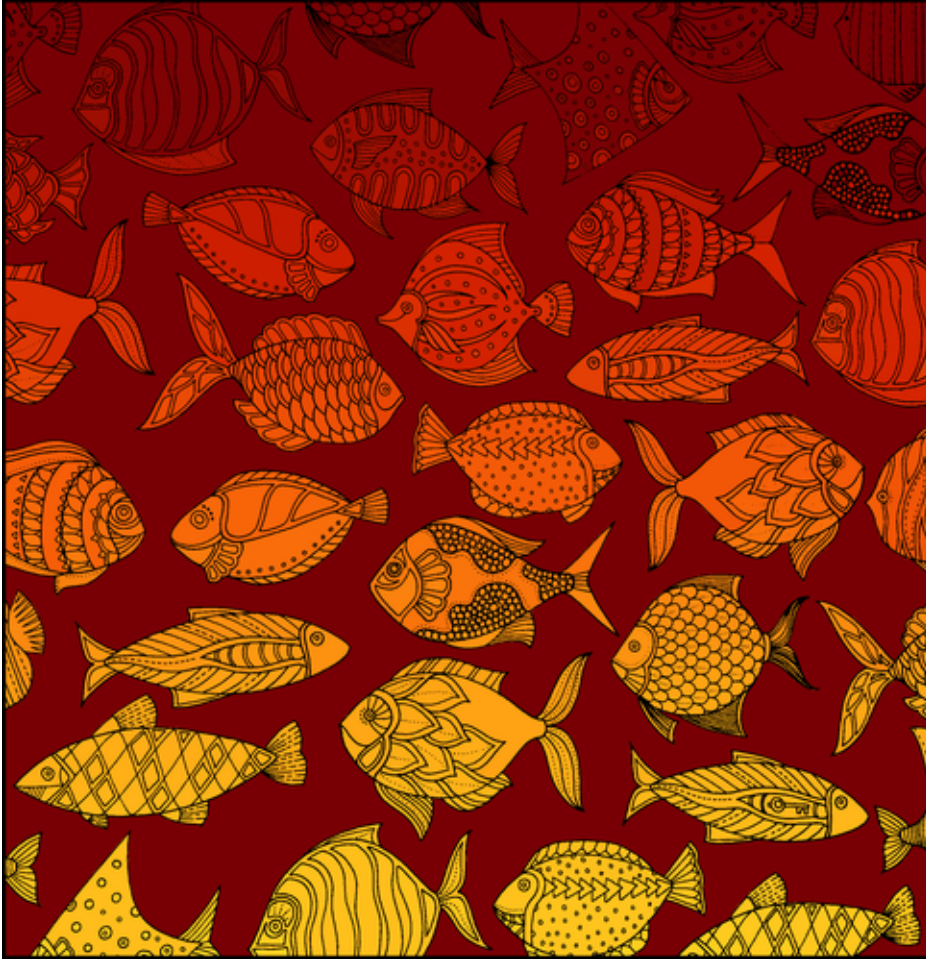
SandyTerrain



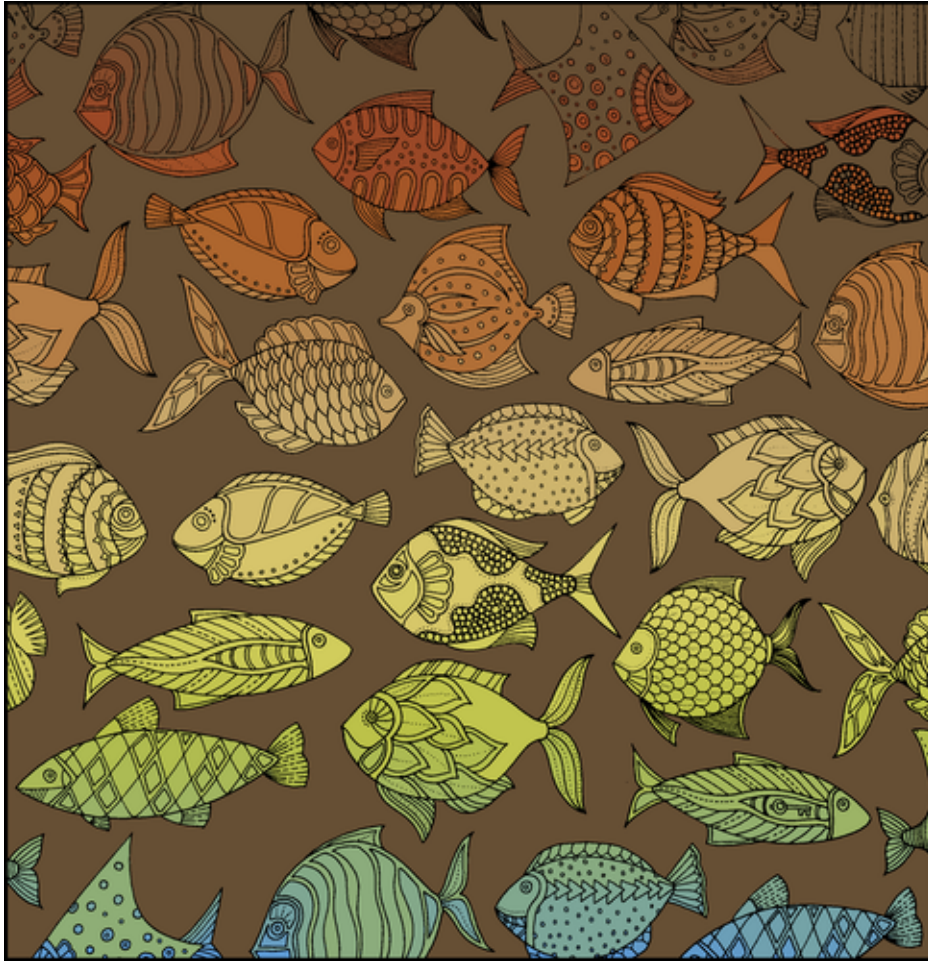
SiennaTones



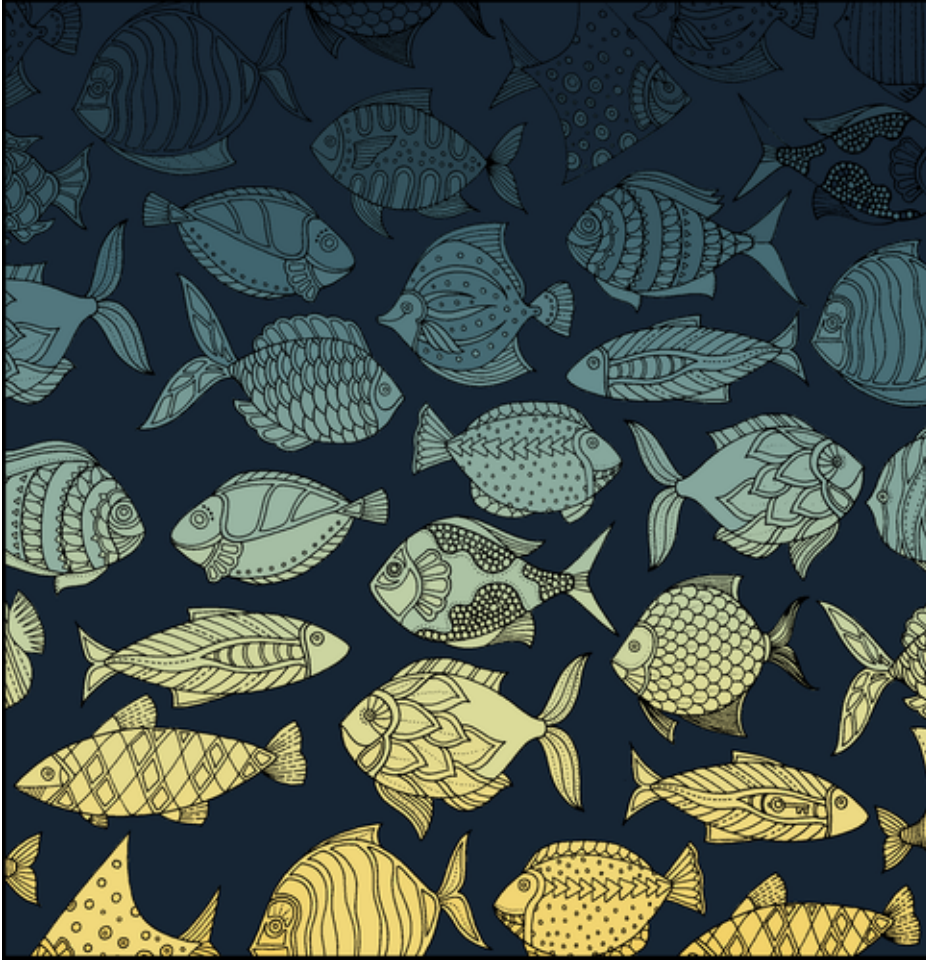
SolarColors



SouthwestColors



StarryNightColors



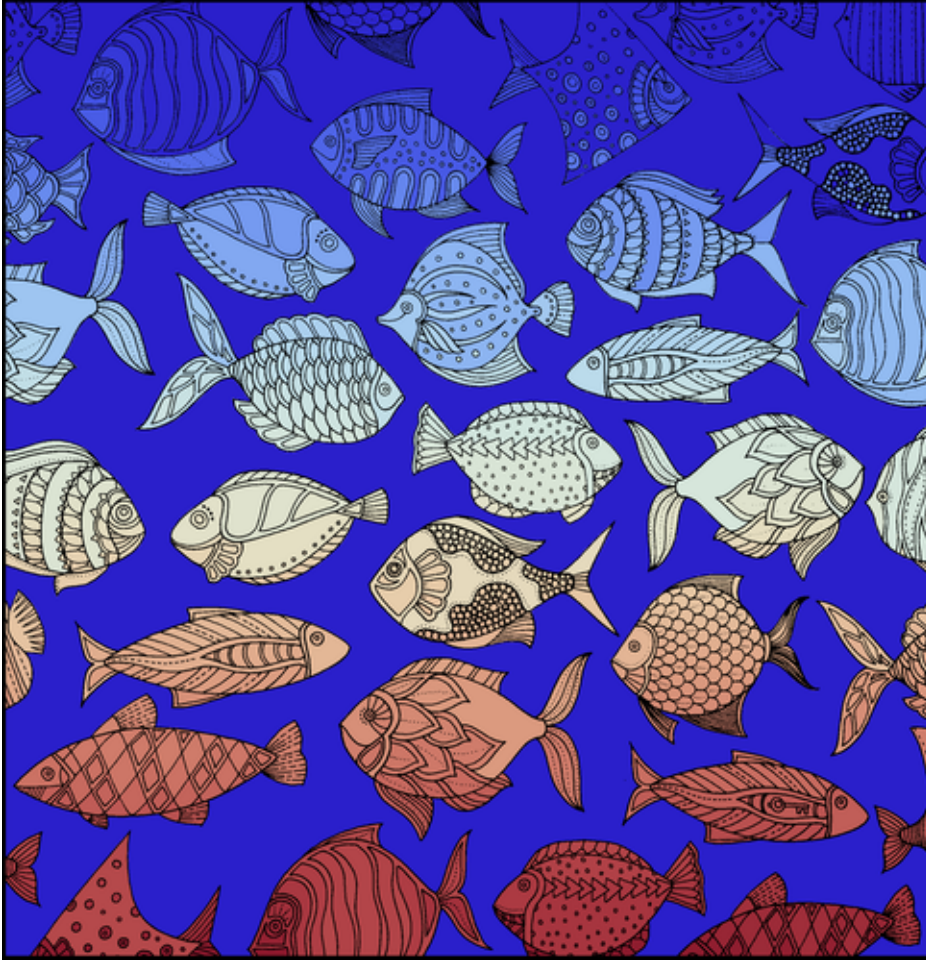
SunsetColors



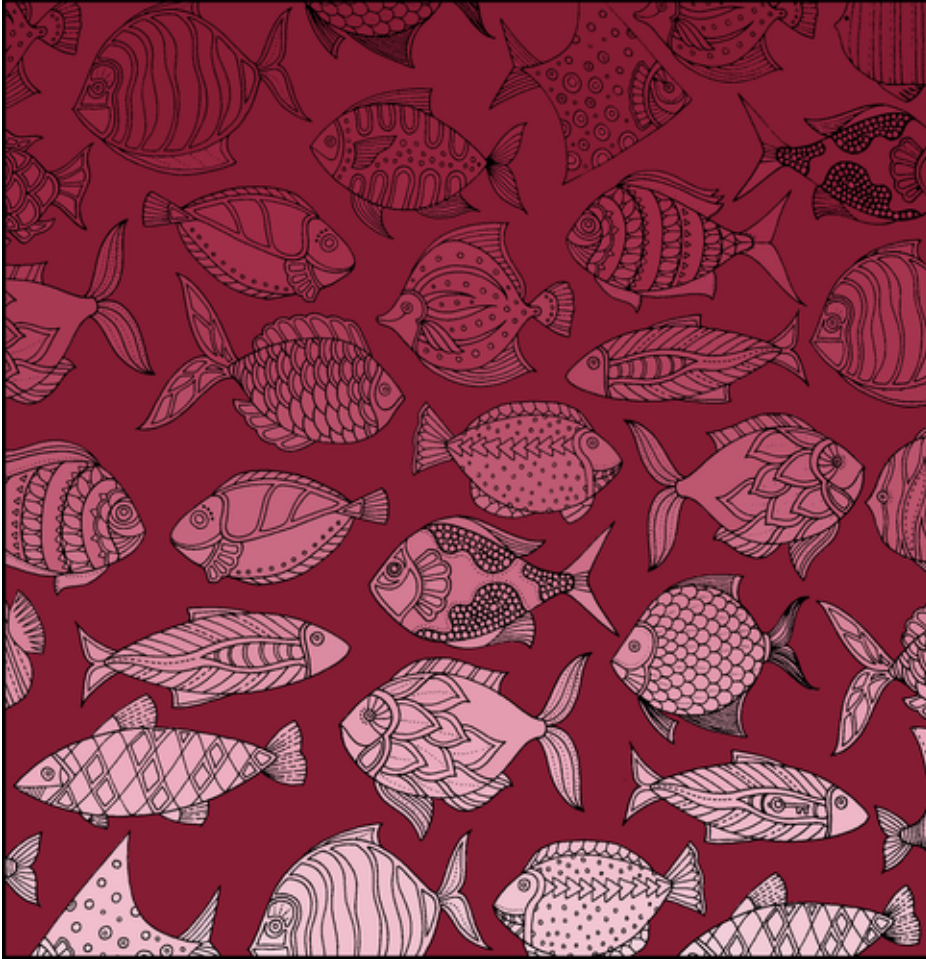
TemperatureMap



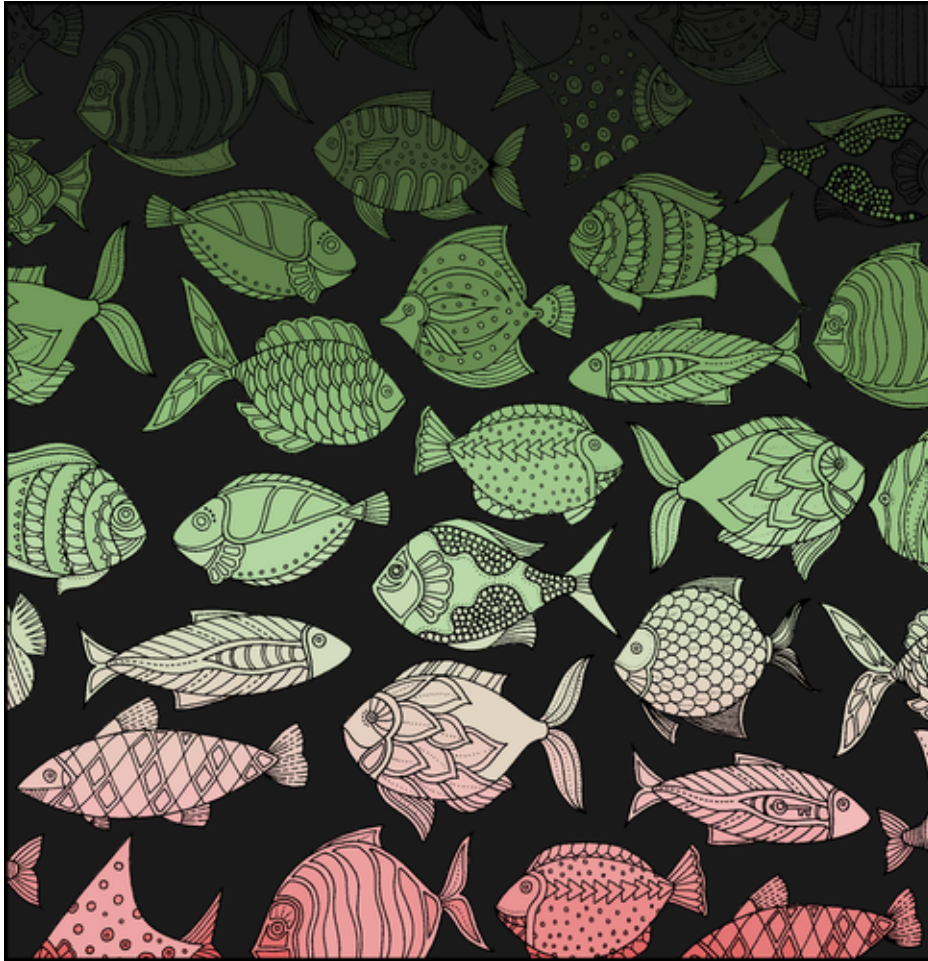
ThermometerColors



ValentineTones



WatermelonColors



Colorings per second: 0.20773 min