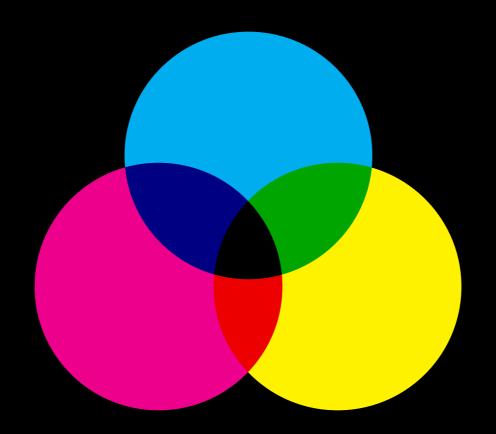
Interactive Design

Working with Color





Cyan Magenta Yellow Black

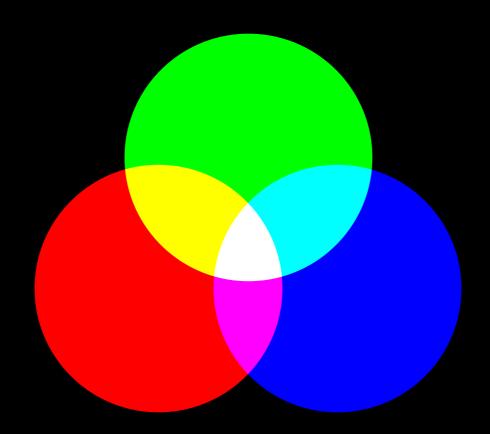


Used to represent all colors in print.

Screens are different.

Mixing Colorwith Fight

Red Green Blue



Used to represent all colors on screen.





1 bit: 2 colors



2 bit: 4 colors



4 bit: 16 colors



8 bit : 256 colors



32 bit: 16,777,216 colors

Most monitors are "True Color" with an alpha channel.

So what?

This defines what we can expect from a screen and how we describe it to the computer.

Color in the browser

- RGB or RGBa rgba(0, 0, 0, 1)
- HEX Values #000000
- HSL or HSLa hsl(0, 0, 0, 1)

rgba(x, x, x, y)

x is a number from 0 to 255 y is a number from 0.0 to 1.0

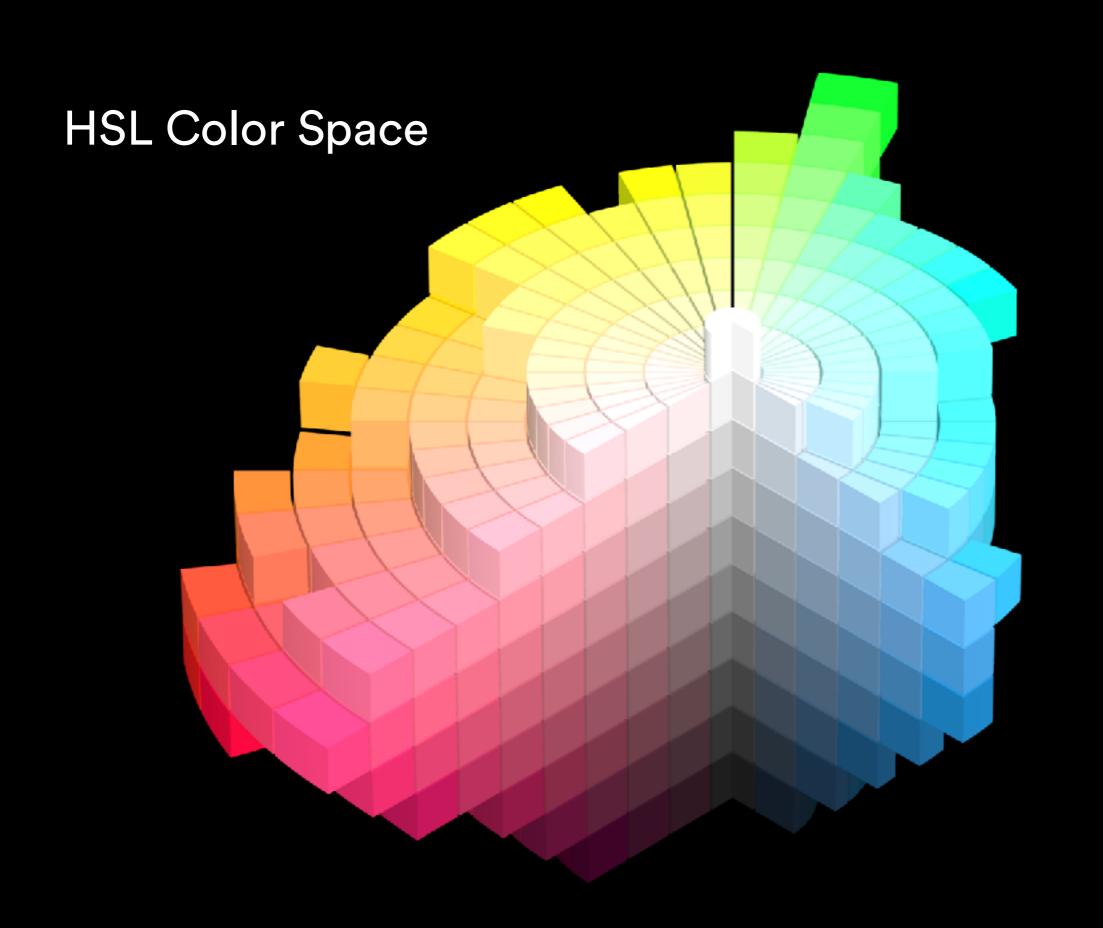


Hexadecimal notation

The values use ranges from 0-9 and A-F
0 being the lowest value and F being the highest

Saturation Hue hsla(x, y, y, z)

x is a value from 0 to 360
y is percentage from 0 to 100
z is a number from 0.0 to 1.0



Named Colors

tomato

Difficult to work with due to their imprecision.

i.e. "dark grey" is lighter than "grey" and "lime" and "limegreen" are different colors.

Where can we use color?

Color

SVG Fill

Background Color

Box Shadow

Border

Text Shadow

What's Possible?

Gradients

```
linear-gradient(to left, #000000, #FFFFFF)
radial-gradient(circle, #000000, #FFFFFF)
```

Filters

blur(px) grayscale(%) brightness(%) hue-rotate(deg) contrast(%) invert(%) drop-shadow(hopacity(%) shadow v-shadow saturate(%) blur color)

sepia(%)

Media Queries

```
@media (color) { ... }
@media (min-color: 4) { ... }
@media (color-index: 256) { ... }
@media (monochrome) { ... }
```

Next Time

- Read Chapters 1-3 of JavaScript & jQuery
- Keep working
- Have a nice spring break