



Design *for* Developers

GitHub repo: github.com/sdras/design-for-developers

twitter: @sarah_edo



Section 2: Color

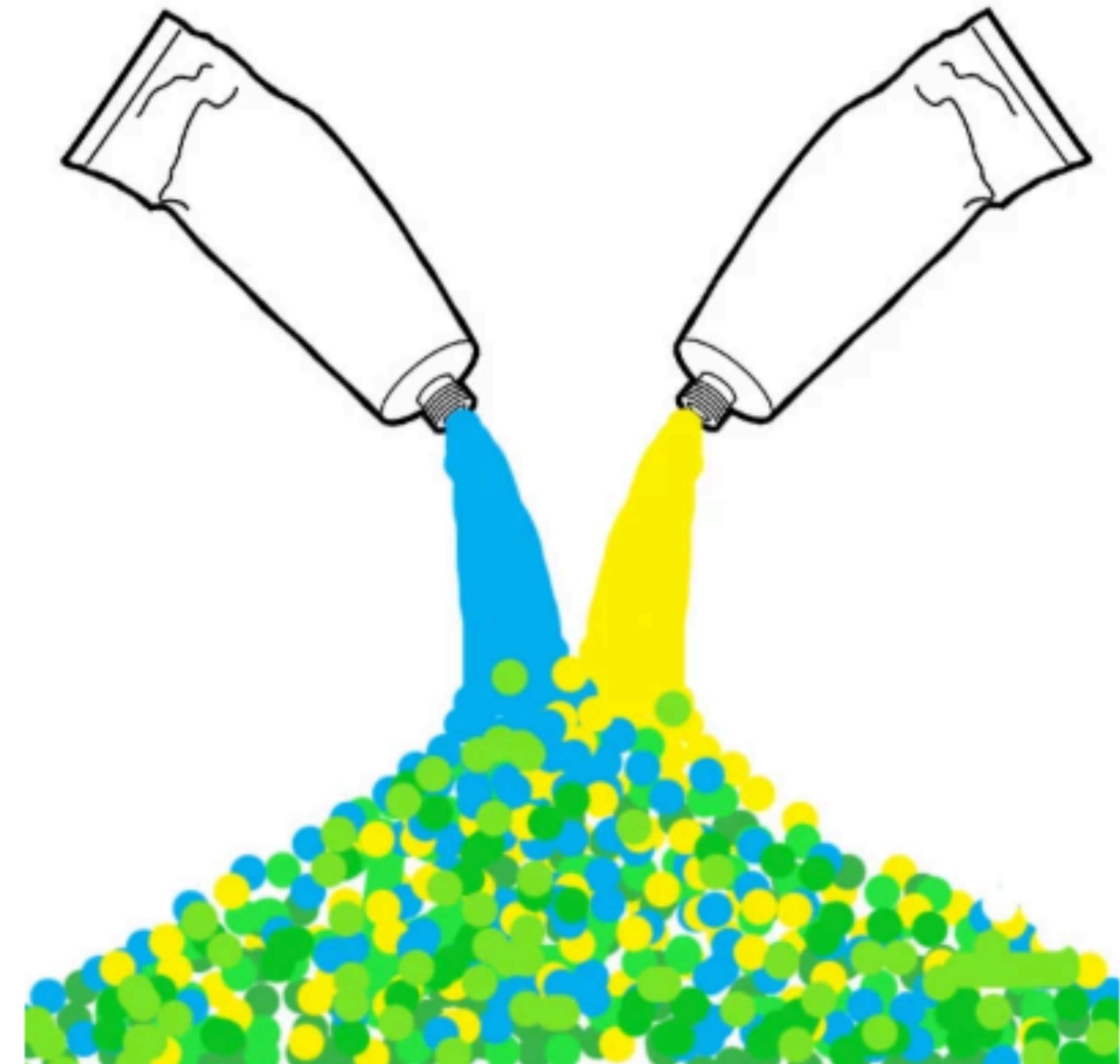
Github repo: github.com/sdras/design-for-developers



Color Modes

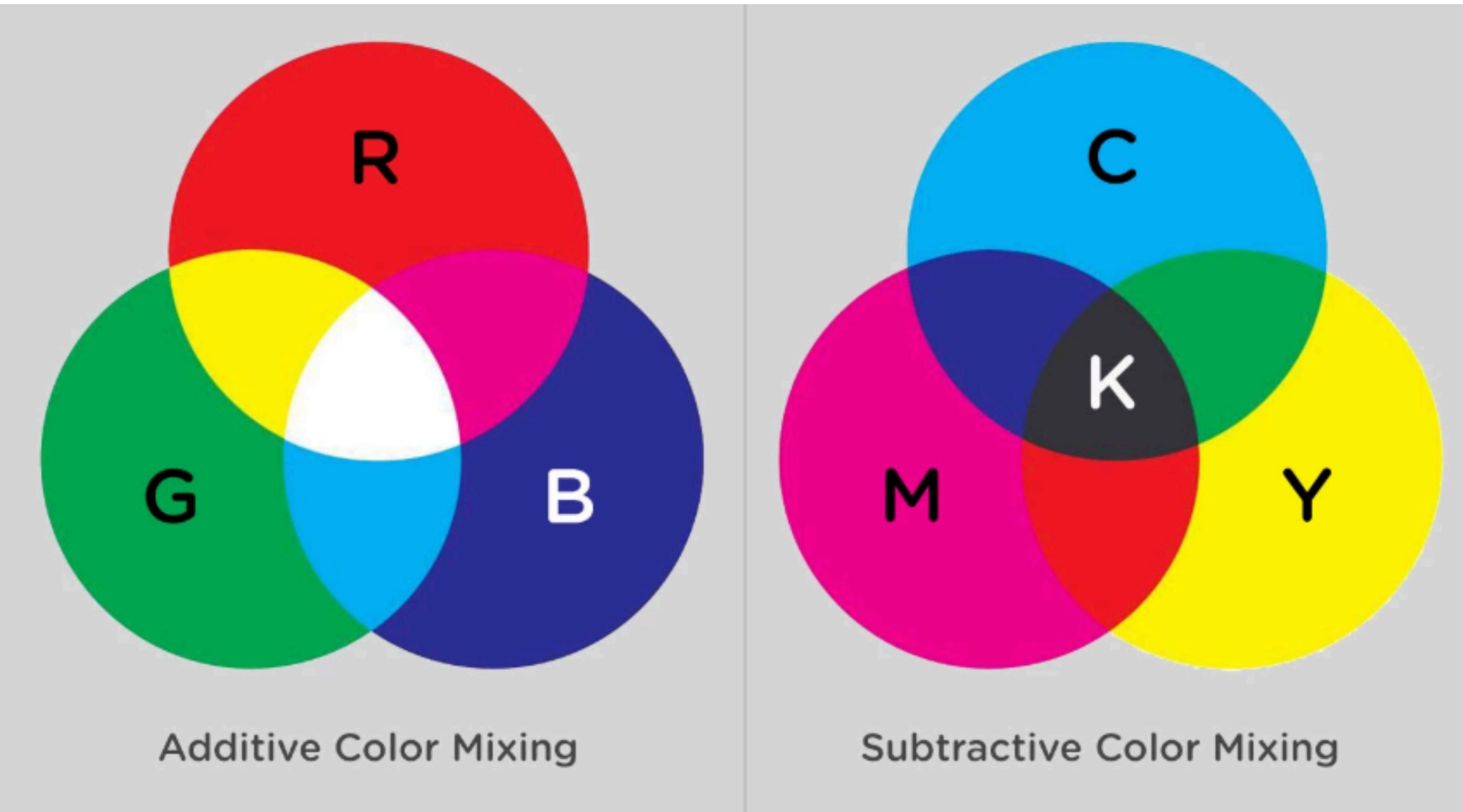
COLOR

Color Mixing



COLOR

Color Modes



COLOR

Color Mixing



COLOR

Types of Combinations



Monochromatic

The monochromatic or monotone color scheme uses variations of shades of a single color, such as red, dark red, and pink. Clean, elegant, balanced.



Complementary

The complementary color scheme uses colors that are opposite each other, such as blue and orange. Contrasts cool against warm colors.



Analogous

The analogous or related color scheme uses colors and their shades that are next to each other, such as red and violet. Richer, more variety than monotone scheme.

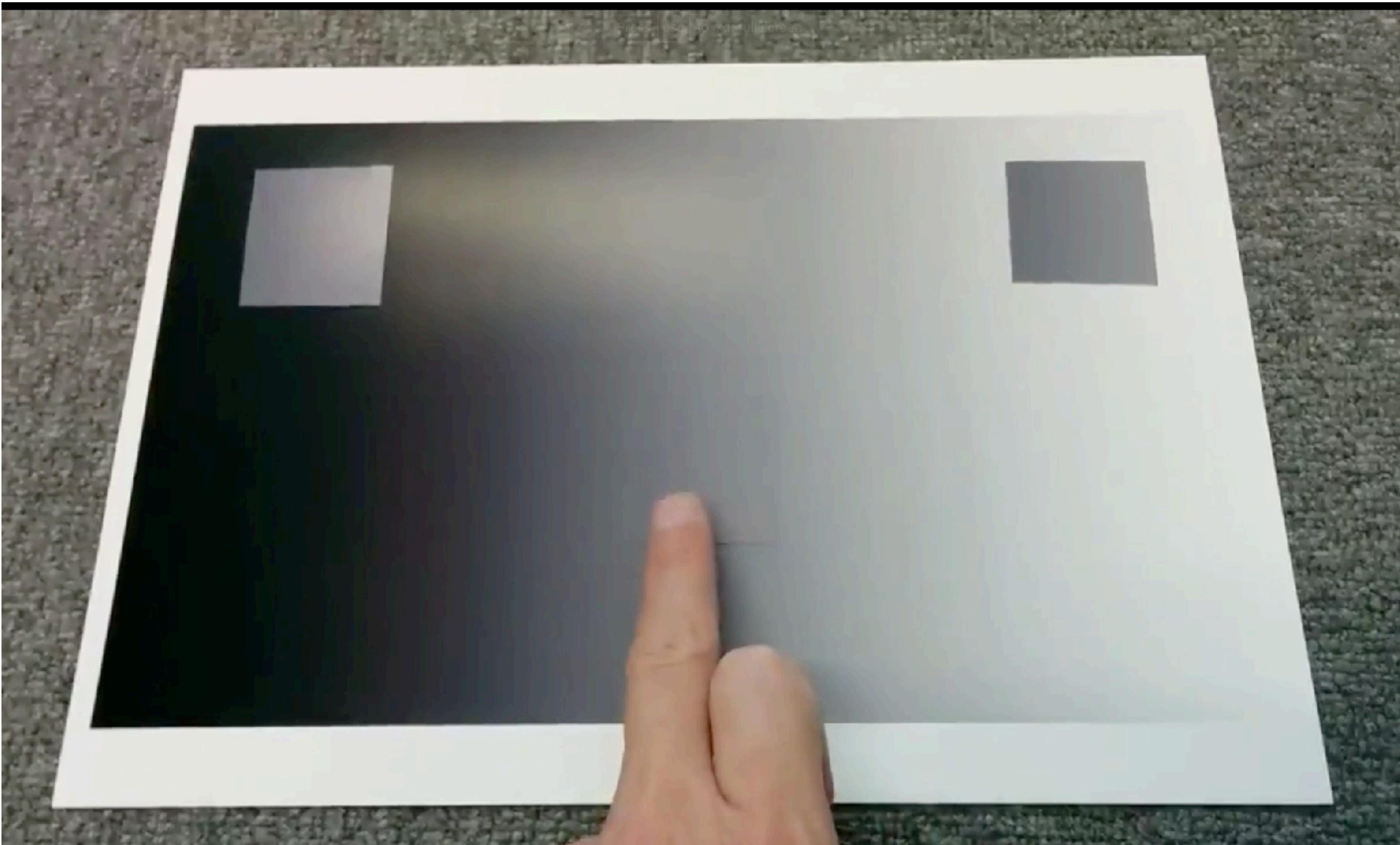


Triadic

The triadic color scheme uses three colors that are equally spaced around the wheel, such as red, blue, and yellow. Vibrant, rich, harmonious.

COLOR

A color is only a color in relation to another color



AAA

9.51

Contrast

Contrast is the difference in luminance or color that makes an object (or its representation in an image or display) distinguishable. In visual perception of the real world, contrast is determined by the difference in the color and brightness of the object and other objects within the same field of view. Because the human visual system is more sensitive to contrast than absolute luminance, we can perceive the world similarly regardless of the huge changes in illumination over the day or from place to place. The maximum contrast of an image is the contrast ratio or dynamic range.

Foreground
#AACCCF
Hue 216° Saturation 100% Lightness 83%

Background
#222233
Hue 240° Saturation 20% Lightness 17%



See how your visitors are really using your website.
ads via Carbon

Text on a background image a11y check

Colorable

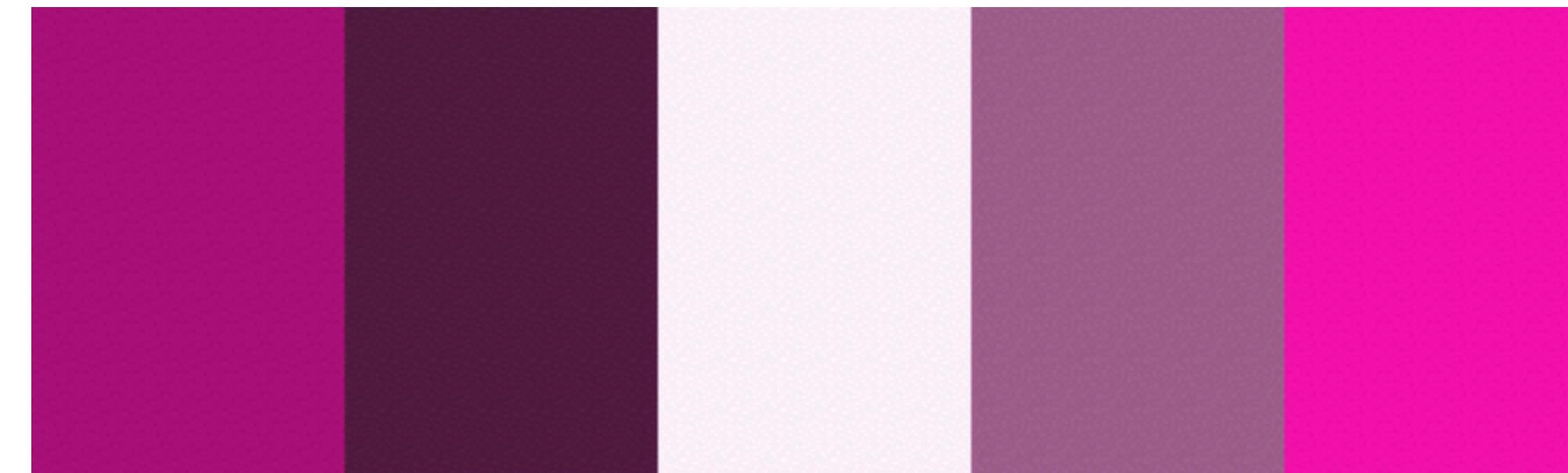
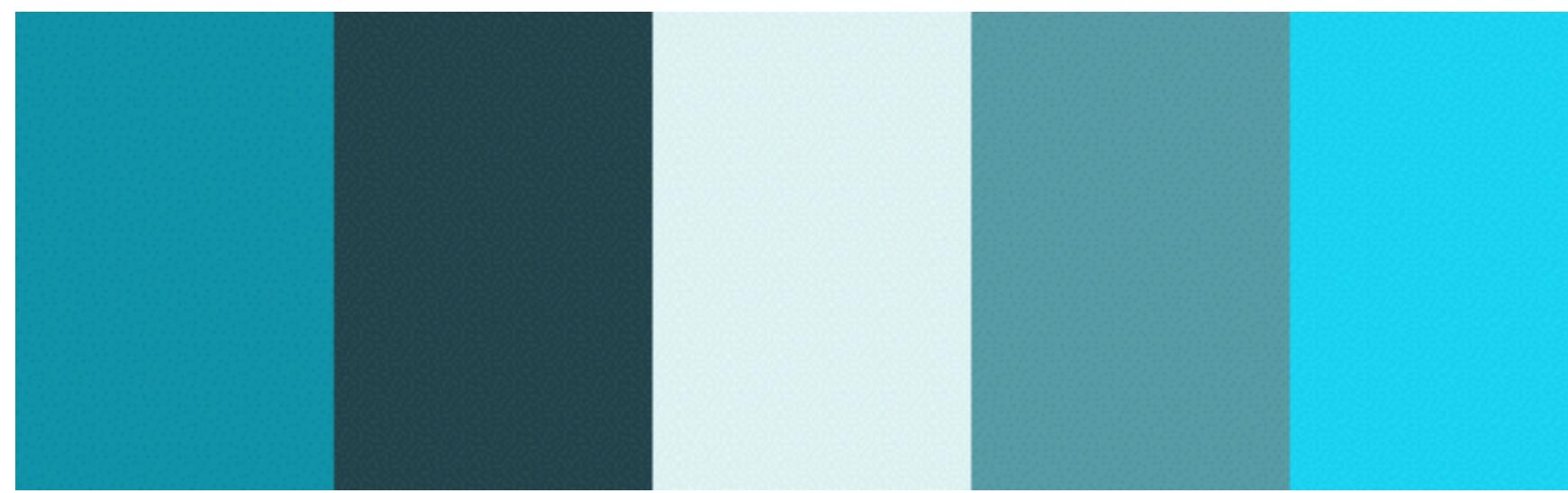
Contrast-A

Accessible Colors

COLOR

Types of Combinations

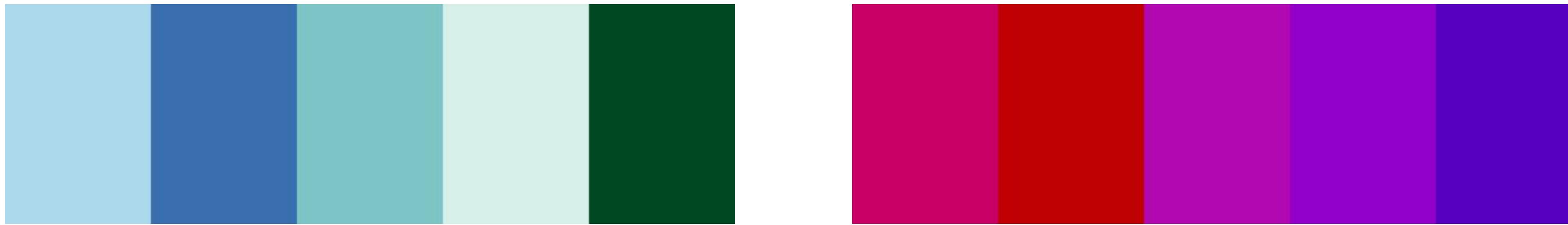
MONOCHROMATIC

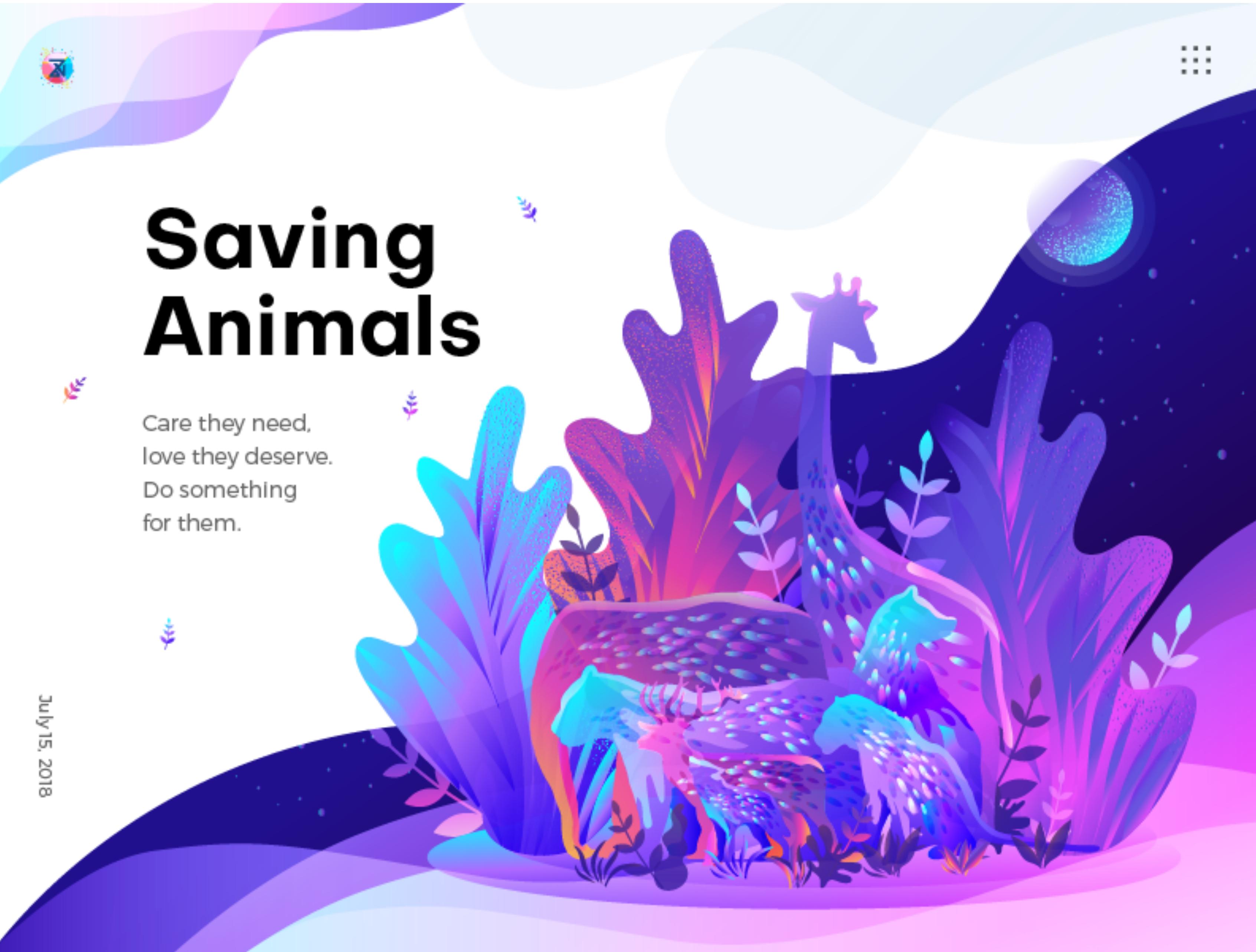


COLOR

Types of Combinations

ANALOGOUS





Saving Animals

Care they need,
love they deserve.
Do something
for them.

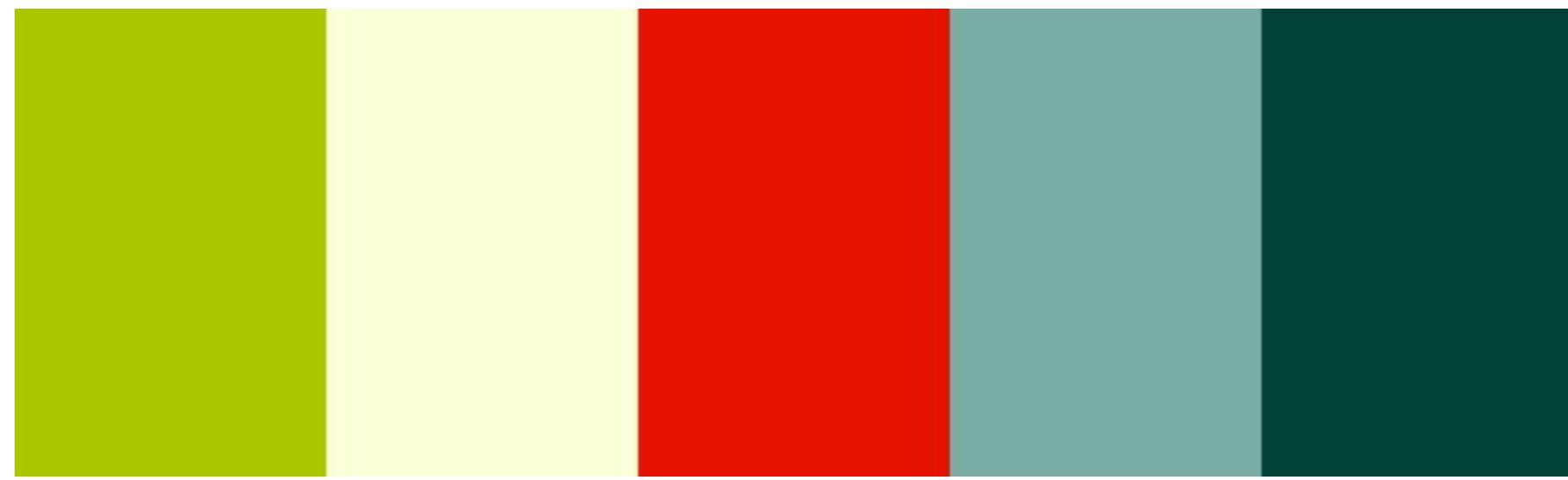
July 15, 2018

Zahidul

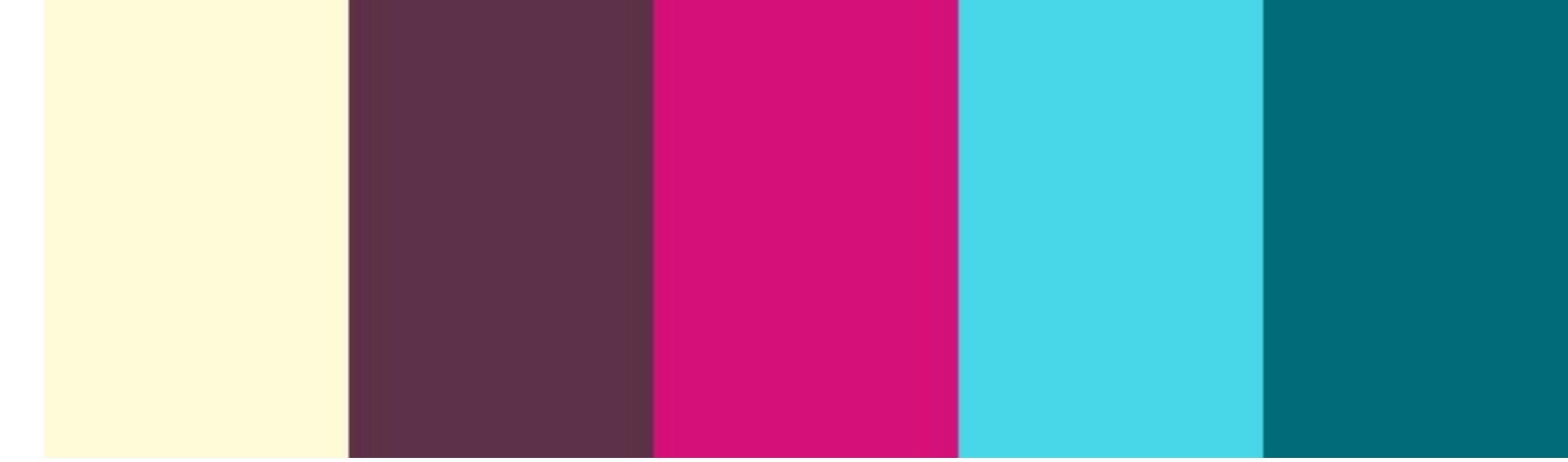
COLOR

Types of Combinations

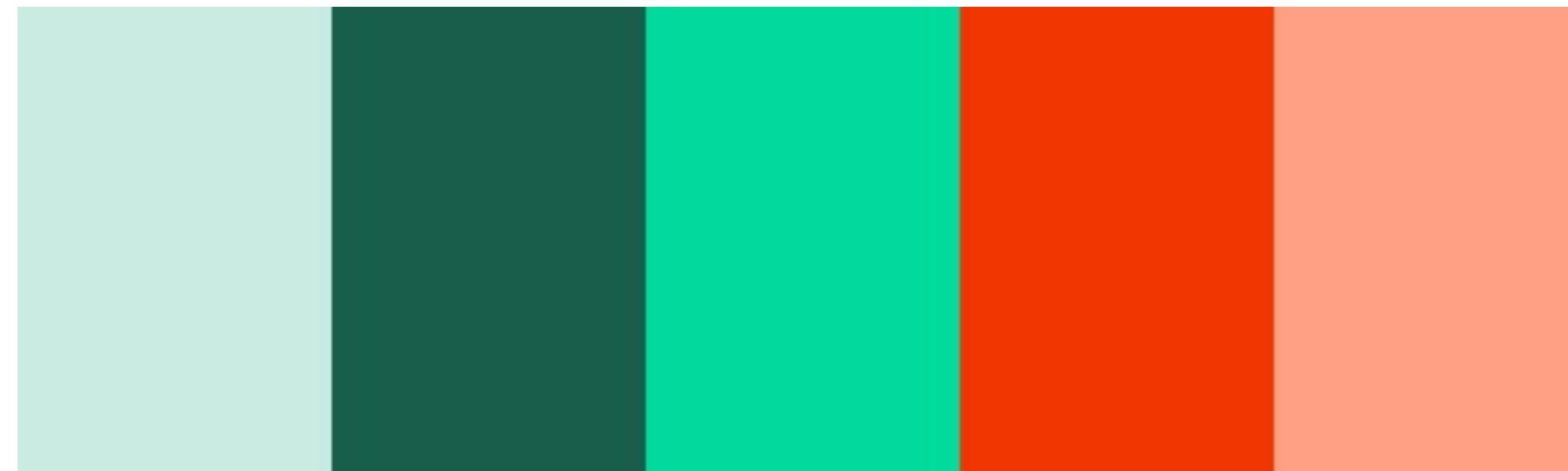
SPLIT



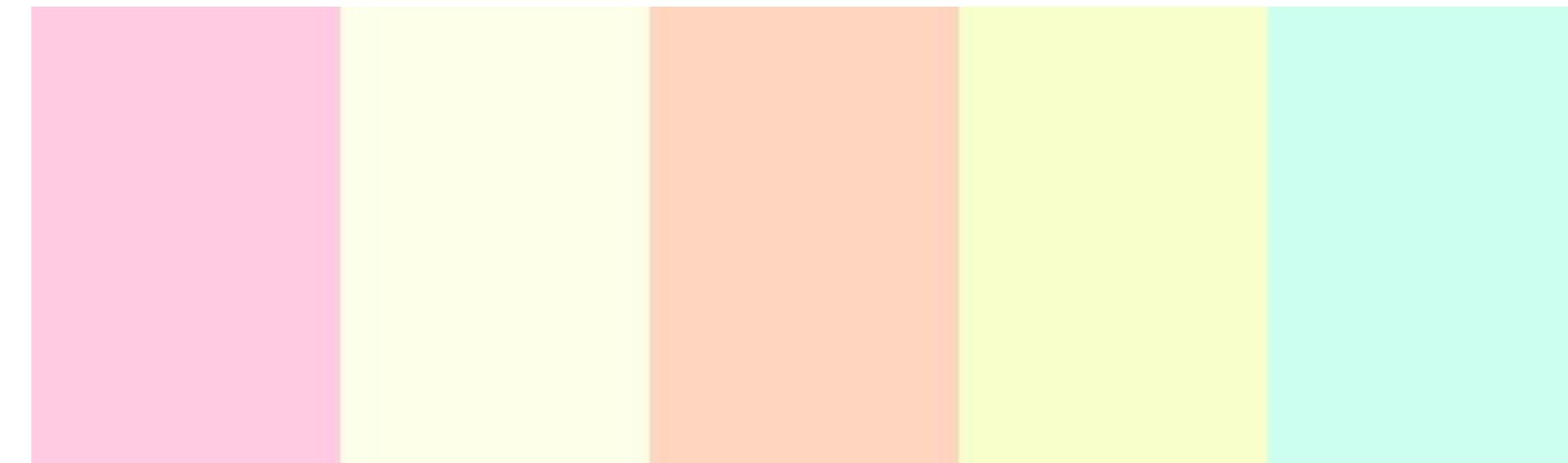
TRIAD



COMPLEMENTARY



TETRIADIC



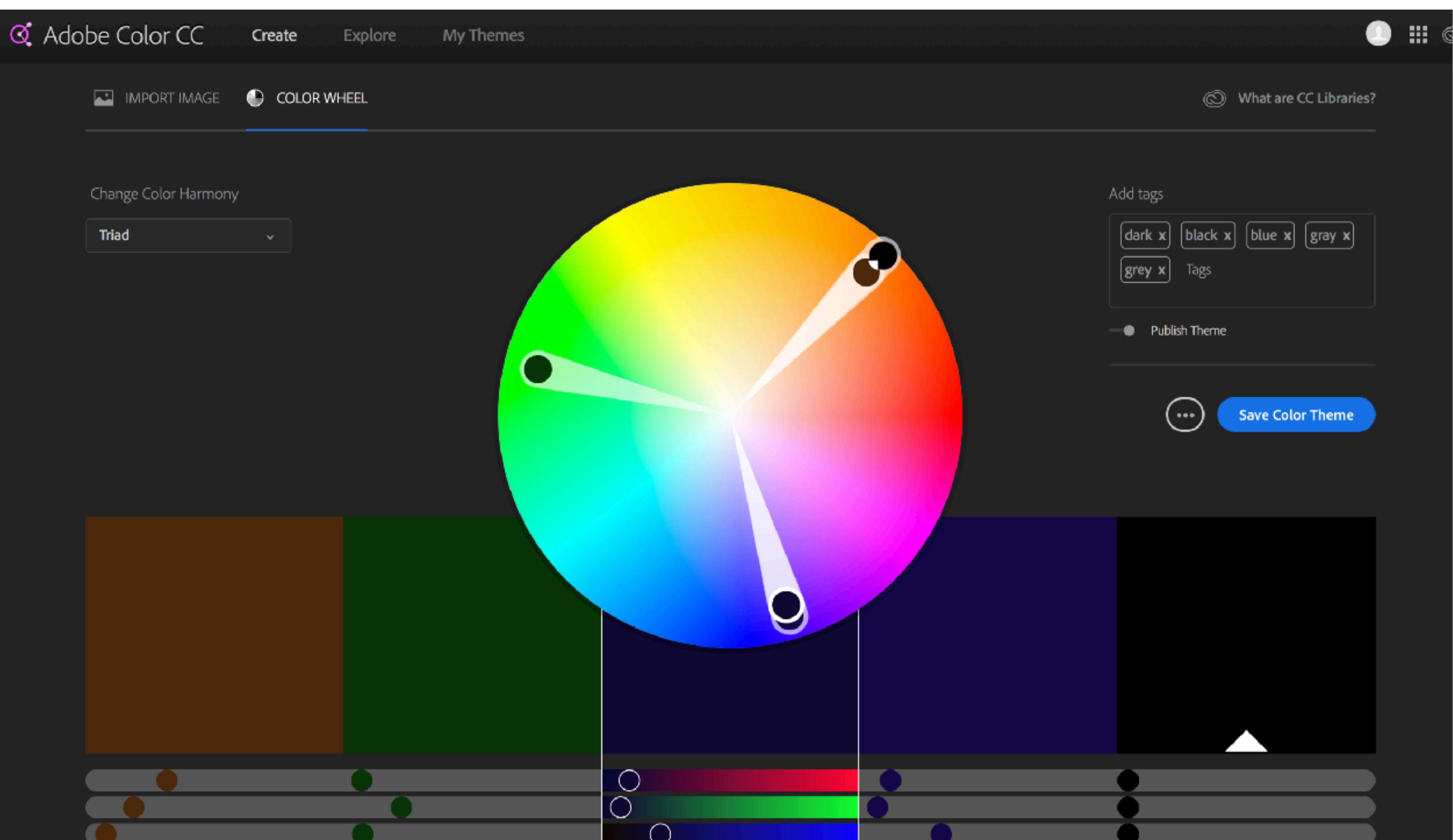


Ramotion

Color: Tools

Kuler/Color CC

color.adobe.com



Color

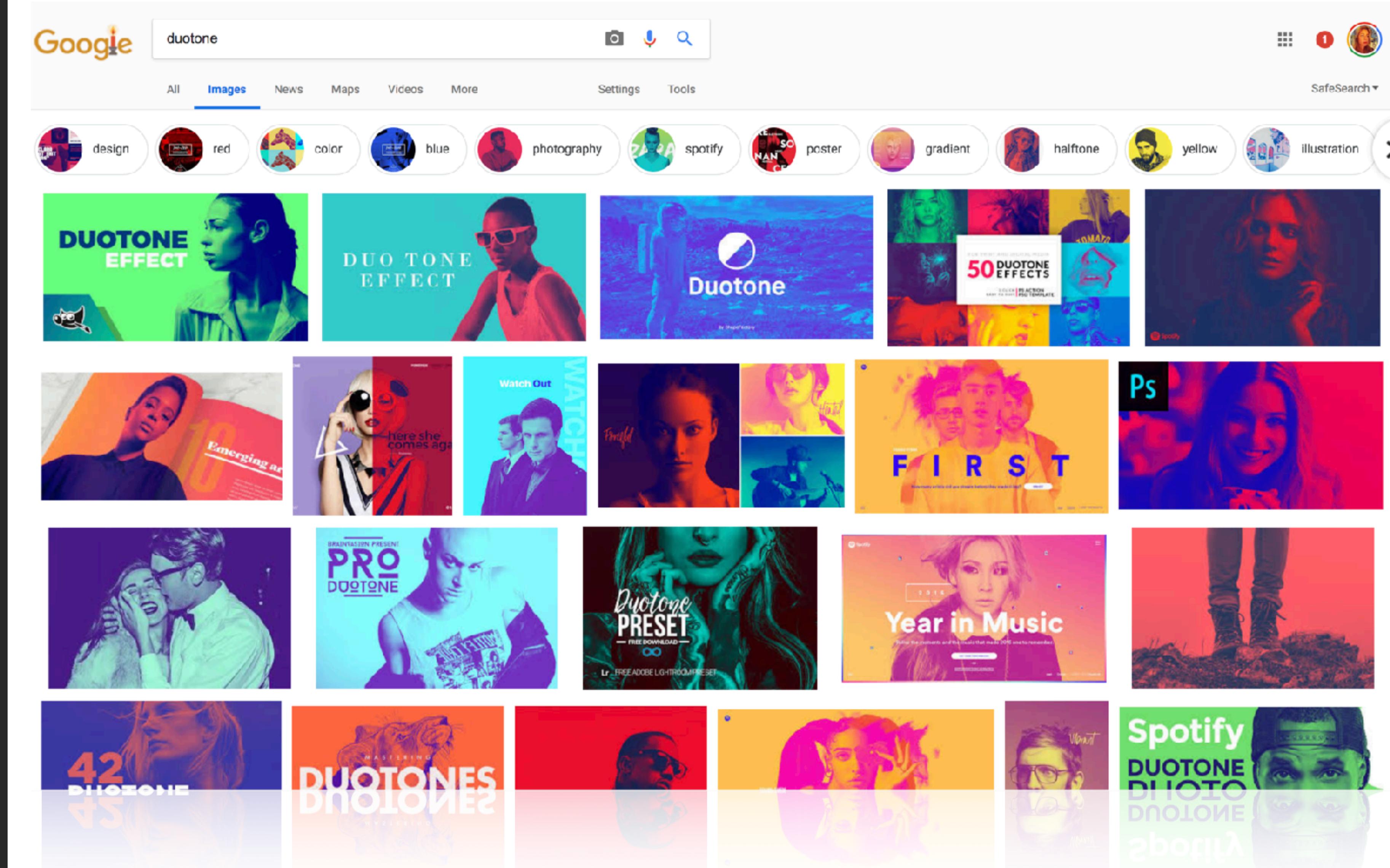
Monotone

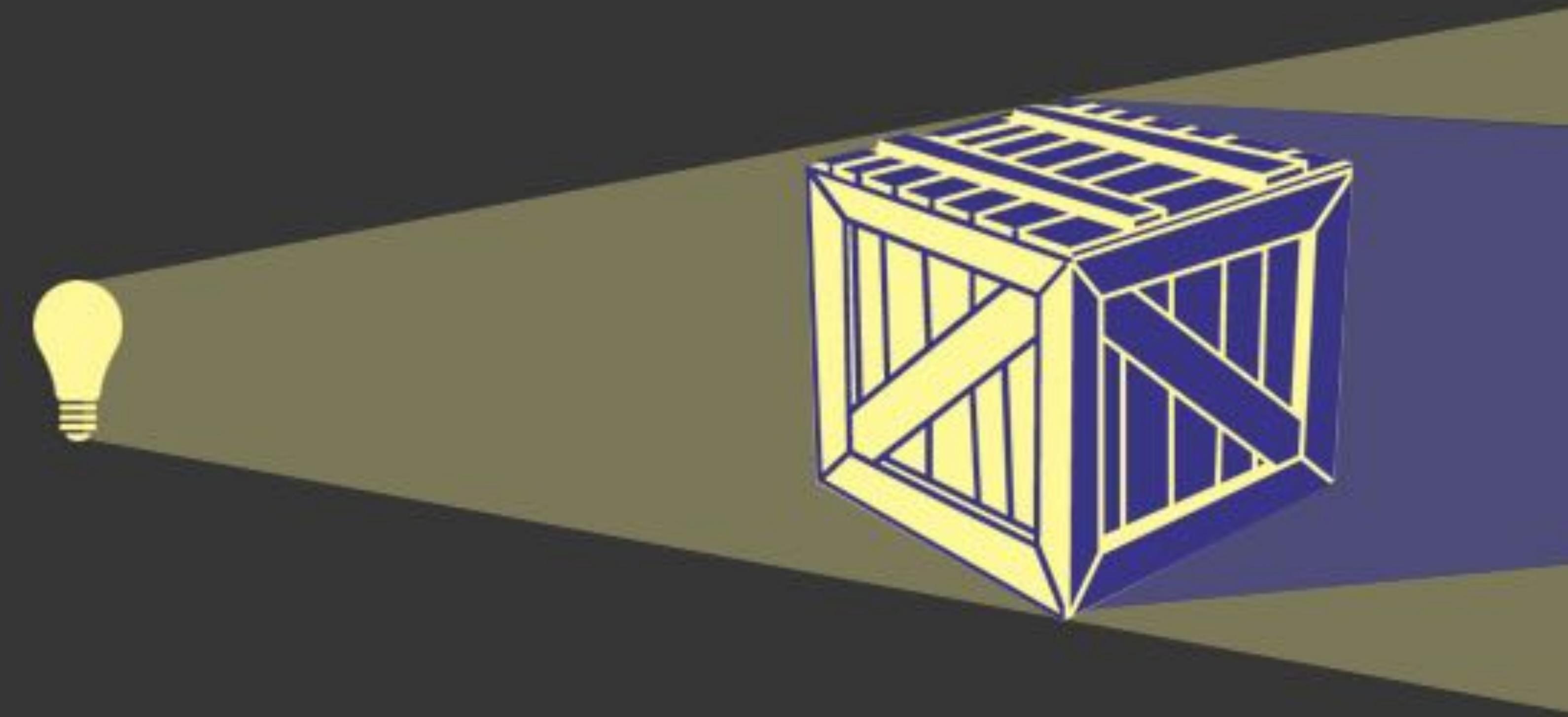




Color

Duotone









Color in Code

Color: Values

RGB(A)

x is a number from 0–255
y is a number from 0.0 to 1.0
rgb(x, x, x); or rgba(x, x, x, y);

Example: rbga(150, 150, 150, 0.5);

Color: Values

Hex

The values use ranges from 0–9 and A–F
0 being the lowest value and F being the highest
Or #000000 being black and #FFFFFF being white.

This is most common but *least* human-readable.
It's great for copy-pasting but not great for
generative color

Color: Values

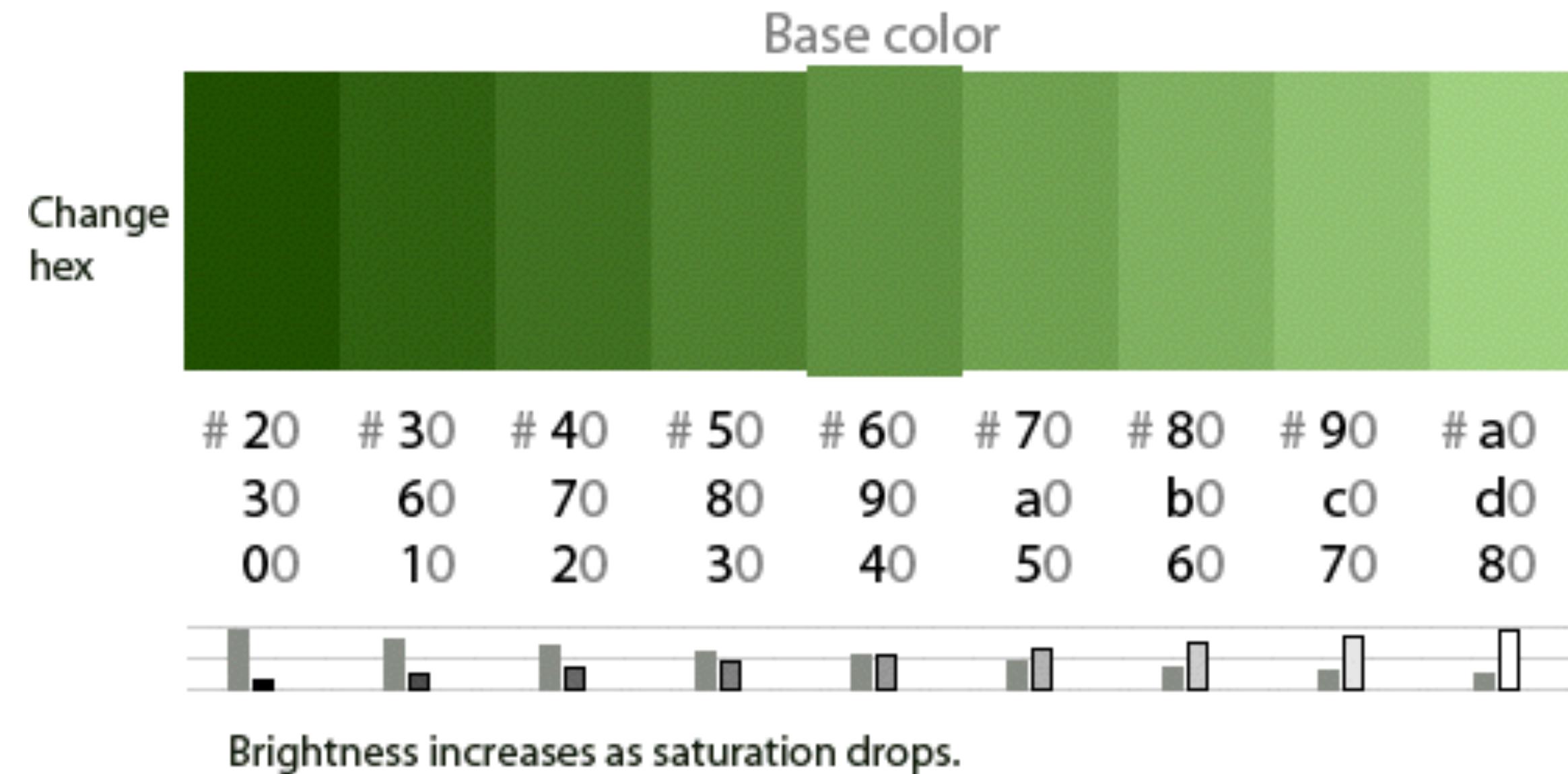
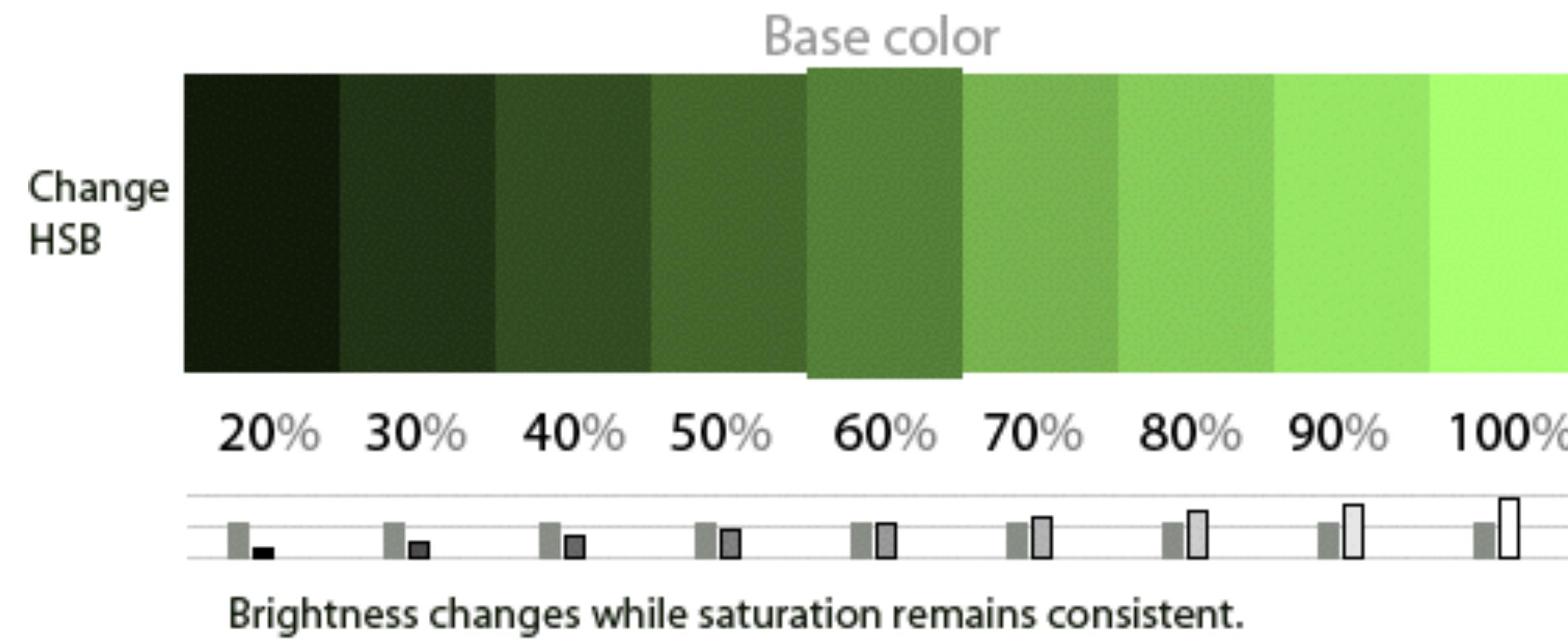
Hex

#970515

Red Green Blue

Color: Values

Hex



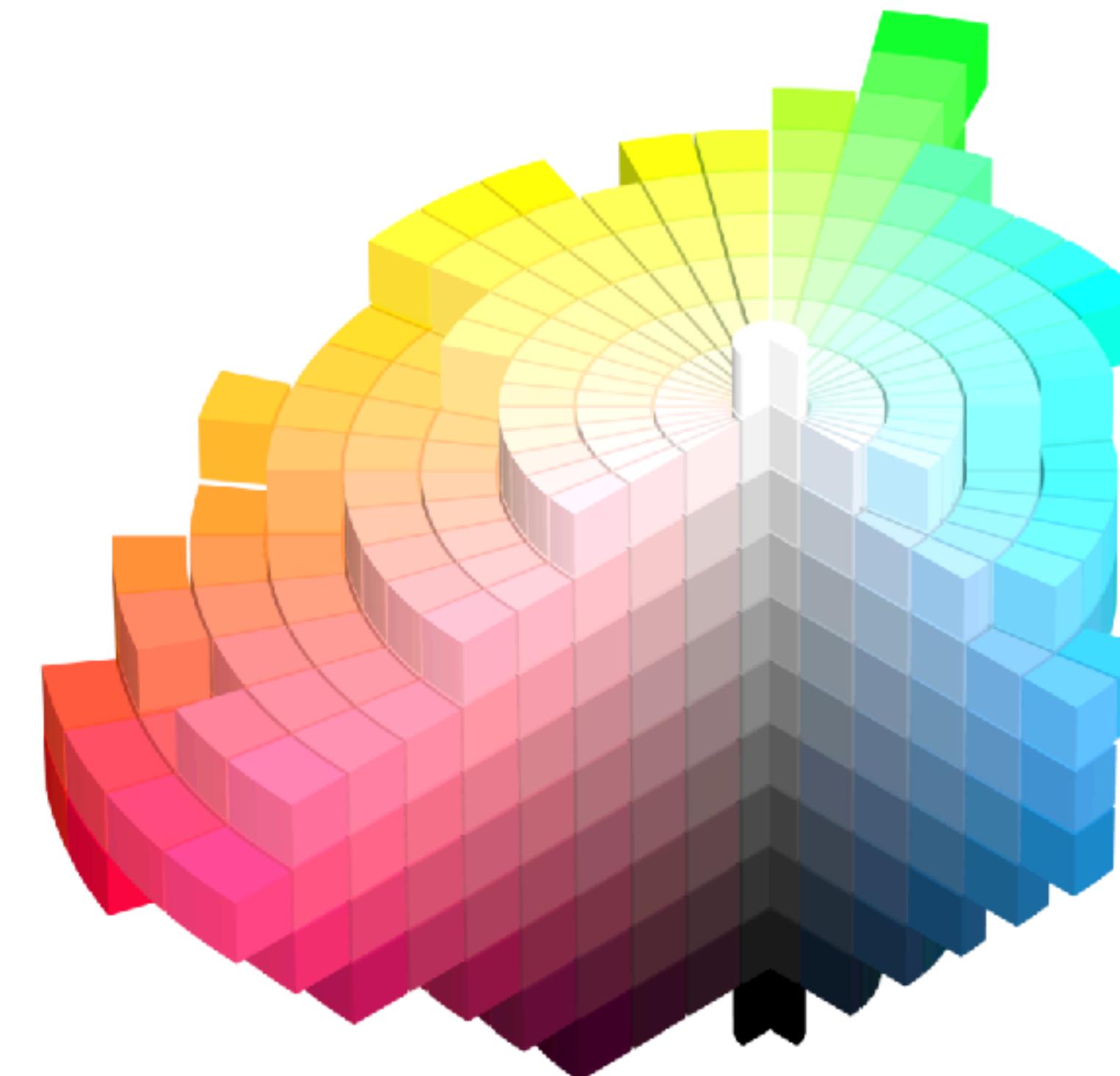
Color: Values

—

HSL(A)

x is a number from 0 – 360
y is a percentage from 0% to 100%
z is a number from 0.0 to 1.0
`hsl(x, y, y); or hsla(x, y, y, z);`

Example: `hsla(150, 50%, 50%, 0.5);`





HTML

 CSS (SCSS)

```
1  @mixin colors($max-count, $color-frequency){  
2    $color: 360/$max-count;  
3  
4    @for $i from 1 through $max-count {  
5      &:nth-child(#{$max-count}n + #{$i}) {  
6        background: hsl((($i - 1)*($color / $color-frequency), 80%, 60%);  
7        color: hsl((($i - 1)*($color / $color-frequency), 80%, 50%);  
8      }  
9    }  
10 }
```

Scroll the List Below

One

Two

Three

Four

Five

Six

Color: Values

Named colors

<http://codepo8.github.io/css-colour-names/>

Grey is darker than darkgrey 🙃

CLICK THE COLOUR OLIVE. 0/0



RESET SCORE

Colours:

40 80 120 ALL

...hi, I am [@codepo8](#) and this is on [GitHub](#)

Color: Reuse

Color Variables

Native CSS Variables

```
:root {  
  --brandColor: red;  
}  
  
body {  
  background: var(--brandColor);  
}
```

Sass/SCSS

```
$brandColor: red;  
  
body {  
  background: $brandColor;  
}
```

Color: Reuse

Color Variables

Sass/SCSS

```
mix($color1, $color2, [$weight])
adjust-hue($color, $degrees)
lighten($color, $amount)
darken($color, $amount)
saturate($color, $amount)
```

Color: Reuse

Limited Color

LIMITED COLOR

Figure out what works



3 Colors



5 Colors



6 Colors



Justin Mezzell

INE

Browse By Vendor Pricing & Plans Practice Bootcamps Q LOGIN

Experts at Making You an Expert

What do you want to learn?

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INIE is a leading provider of IT training solutions, offering a wide range of courses and resources to help individuals and organizations succeed in their professional goals.

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Big Catalog
Browse the entire catalog of courses.

Bootcamps

Our Courses

Join Others Who Have Succeeded With INIE

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BT HP Microsoft IBM



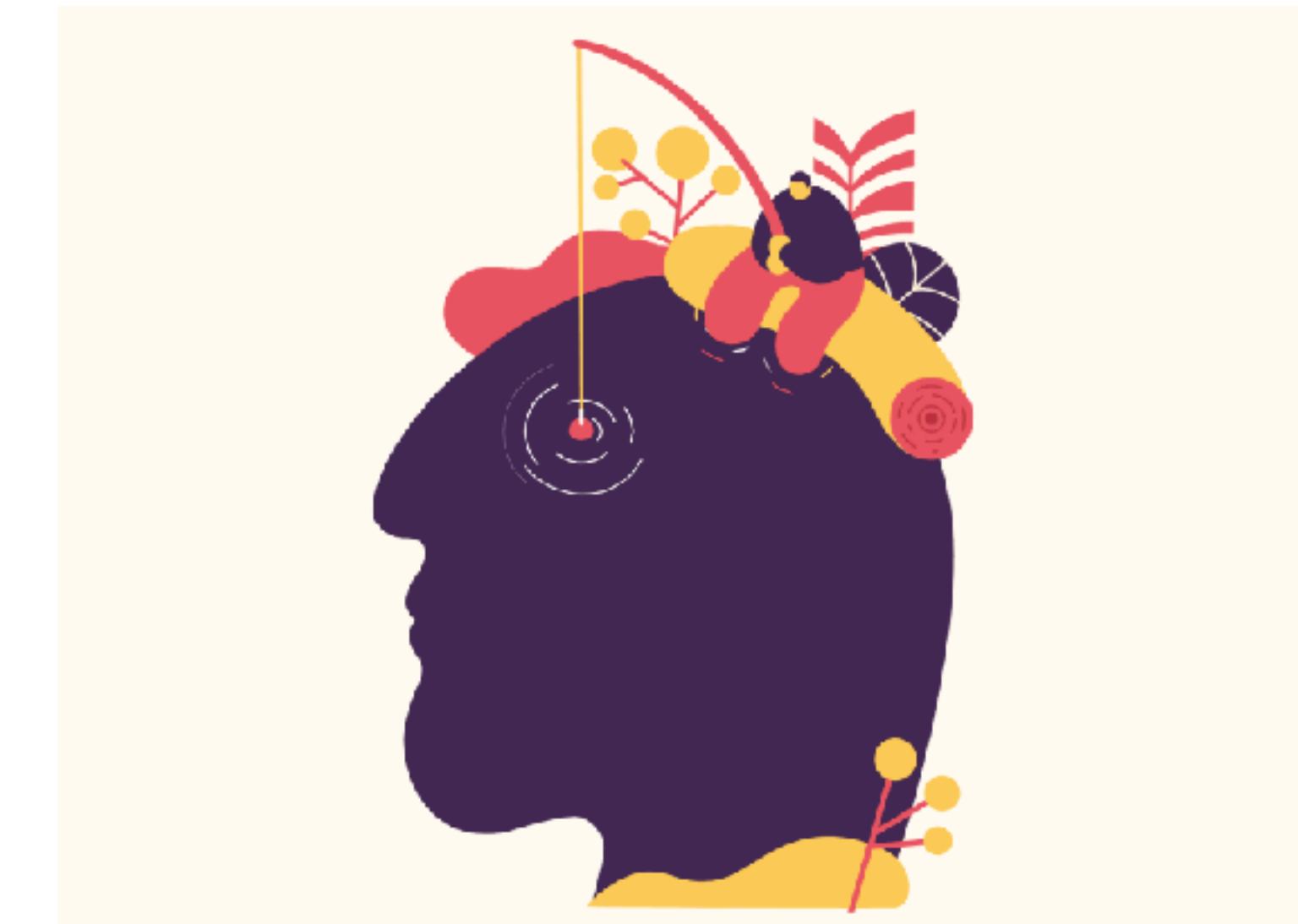
Tools

Color: Tools

Dribbble

Steal Palettes

Mental space
by Nikolay Ivanov for Lobster Studio on Jun 6, 2018



Finding your secret inner place.

Illustrated by: [@FM ILLUSTRATION](#)

6 Responses oldest newest liked

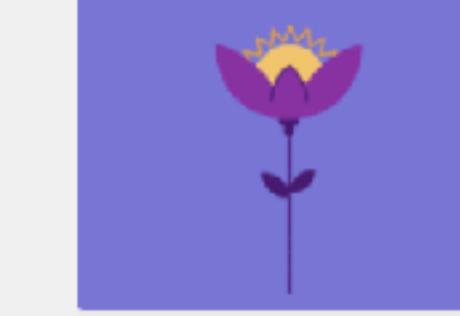
Like? 120 likes

Bucket

Views 1,117 views

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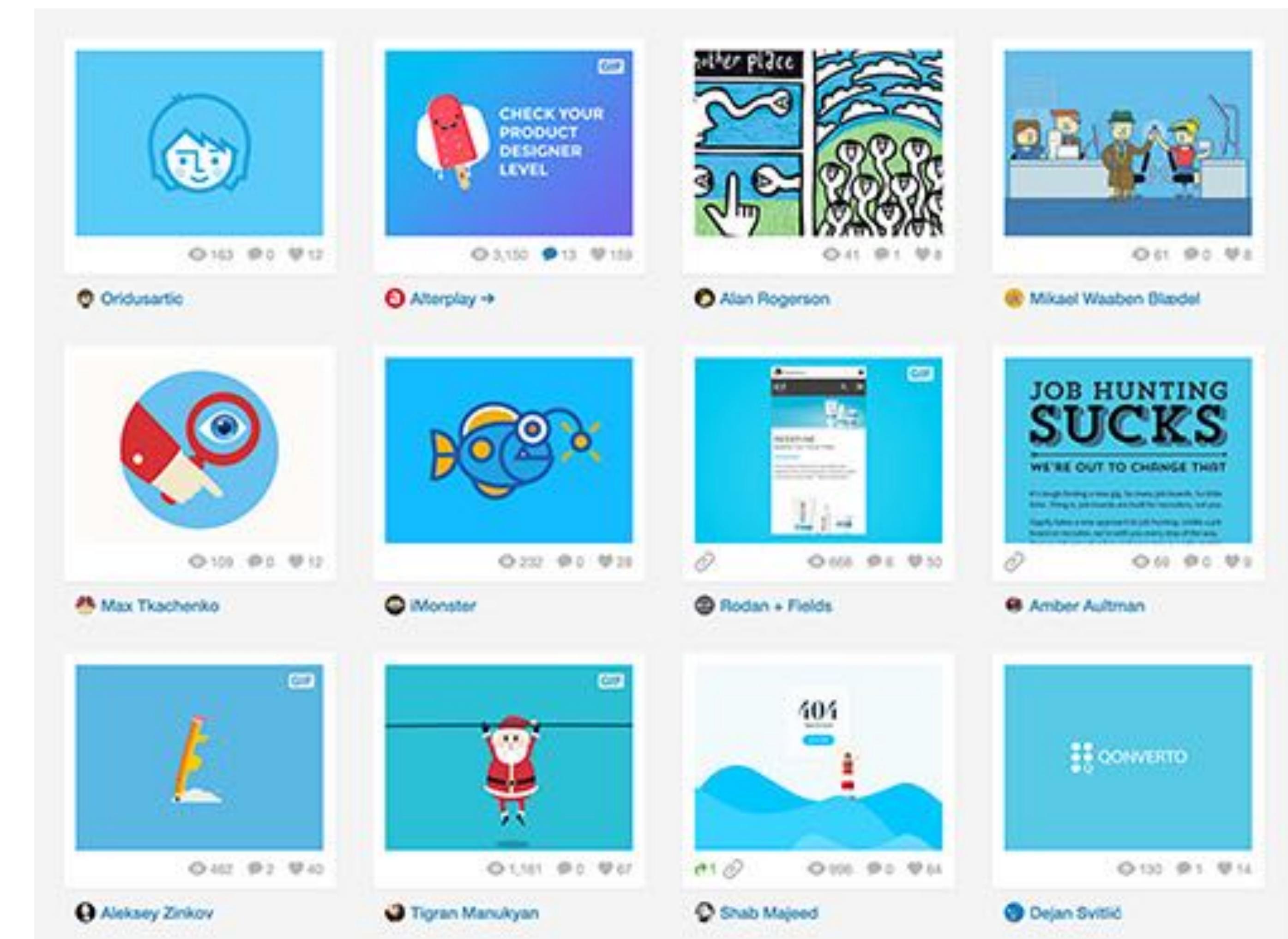
More from Nikolay Ivanov +



Color: Tools

Dribbble

Search by a color



Color: Tools

Coolors

coolors.co

COOLORS + SKILLSHARE 2 months free classes →

Generate Explore iOS App Add-on Chrome Extension More ▾ Login Sign Up

Press the spacebar to generate color schemes!

The screenshot shows a color palette interface. At the top, there's a navigation bar with the COOLORS logo, a Skillshare partnership notice, and links for Generate, Explore, iOS App, Add-on, Chrome Extension, More, Login, and Sign Up. Below the navigation is a message: "Press the spacebar to generate color schemes!". The main area displays a grid of color swatches. The first two swatches are purple (#631D76 and #9E4770), labeled "MIDNIGHT" and "MAGENTA HAZE" respectively. The third swatch is white (#FBFBFB) labeled "SNOW". The fourth and fifth swatches are dark purple (#2E2532 and #201A23), labeled "DARK PURPLE" and "RAISIN BLACK". Above each swatch is its corresponding hex code. To the right of the palette are several icons for export and sharing.

Color Name	Hex Code	Description
MIDNIGHT	#631D76	
MAGENTA HAZE	#9E4770	
SNOW	#FBFBFB	
DARK PURPLE	#2E2532	
RAISIN BLACK	#201A23	

Color: Tools

Paletton

Build a palette



Color: Tools

Paletton

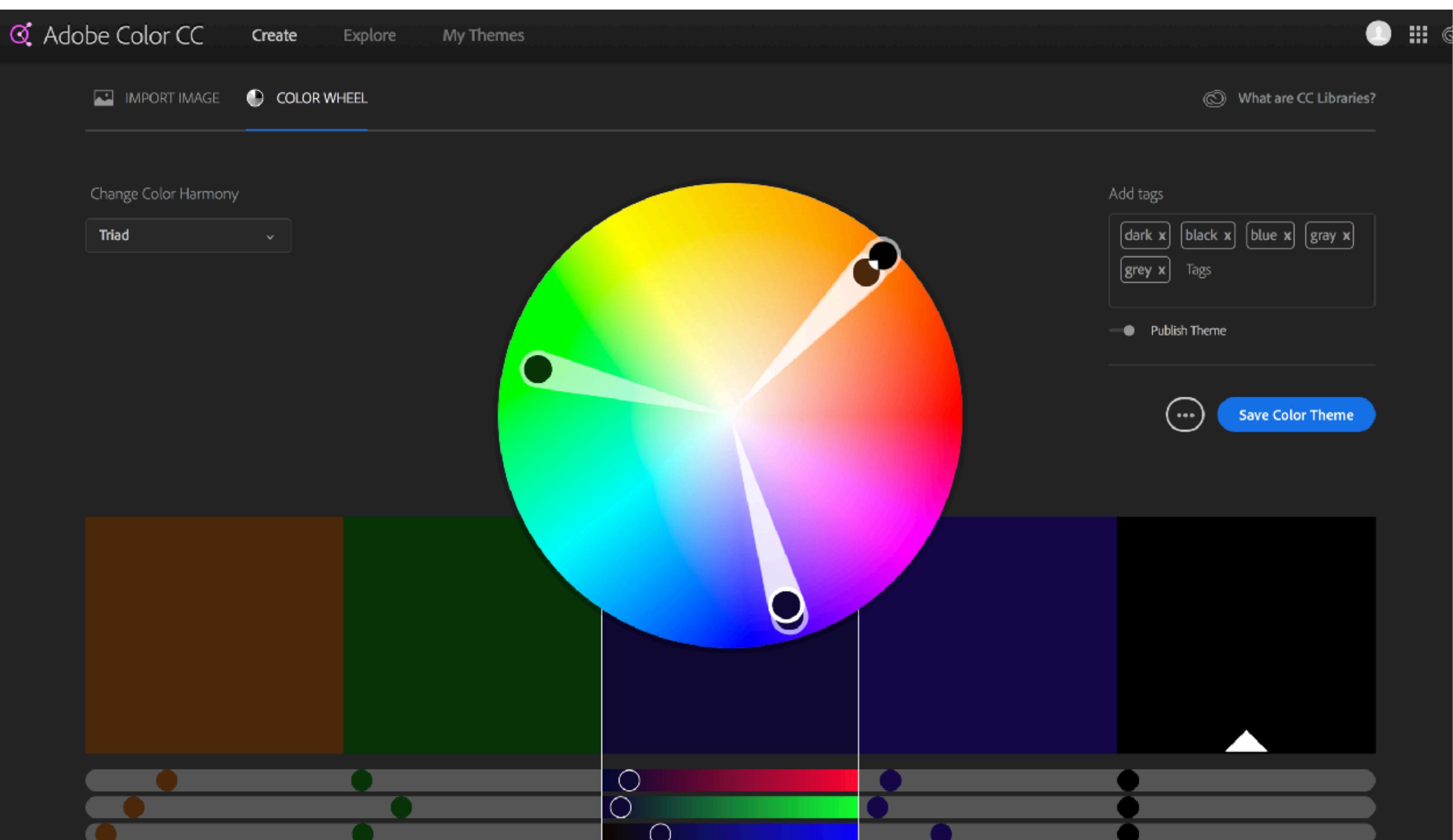
Build a palette



Color: Tools

Kuler/Color CC

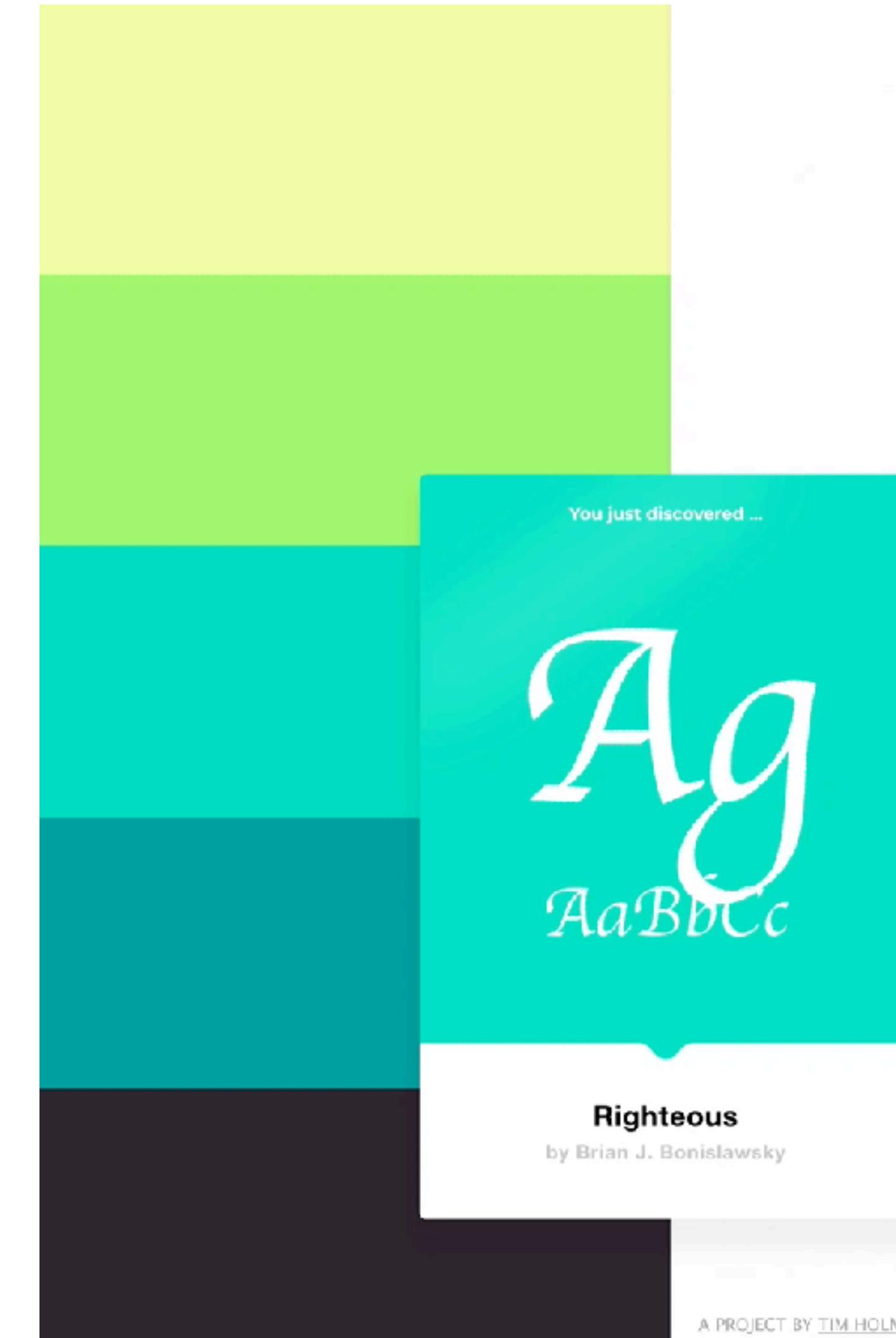
color.adobe.com



Color: Tools

Palettab

palettab.com/



Discover new fonts and colors with every  tab

Palettab is a browser extension which uses Google fonts and amazing ColourLovers palettes to inspire you with fresh and clean inspiration every time you hit that new tab button!

For Chrome

For Firefox

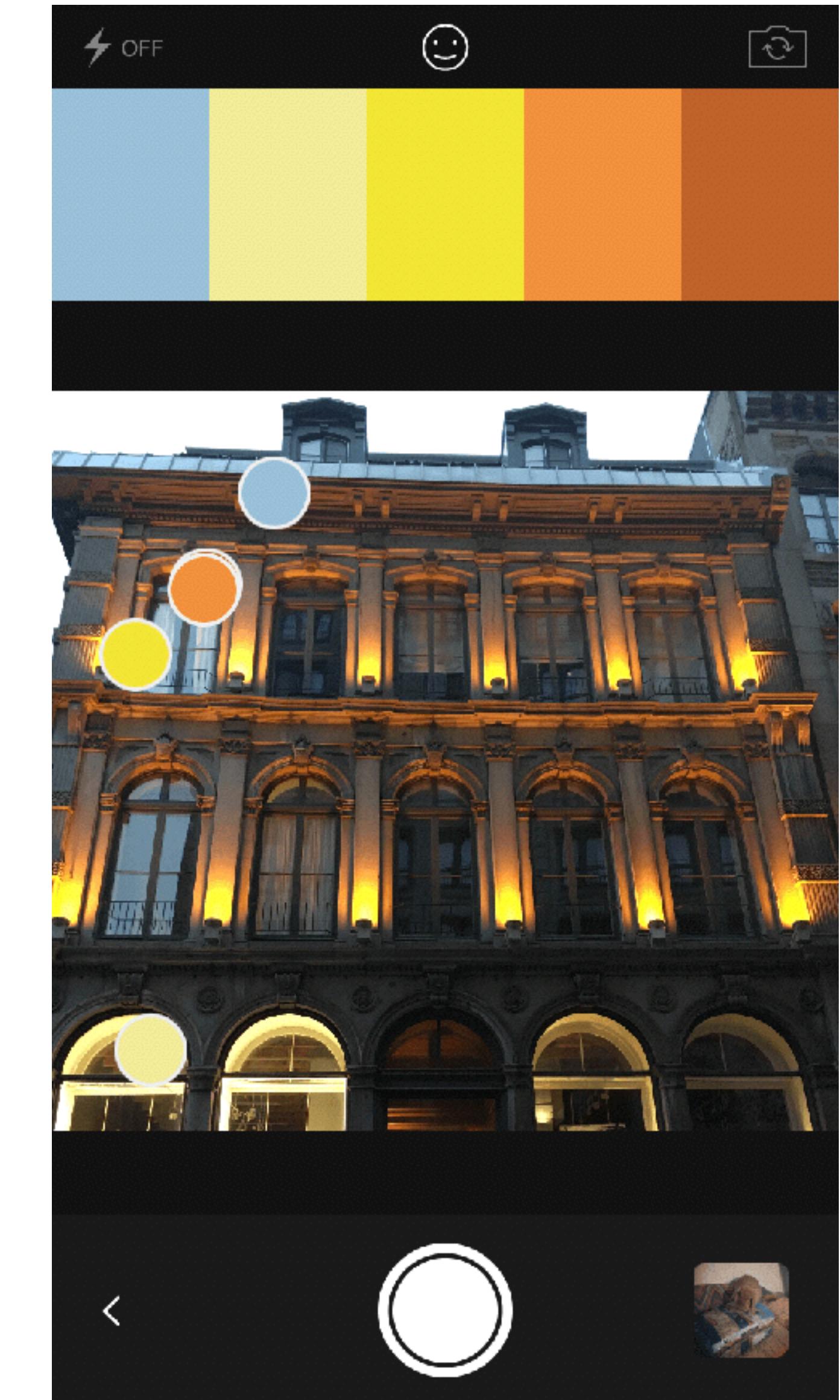
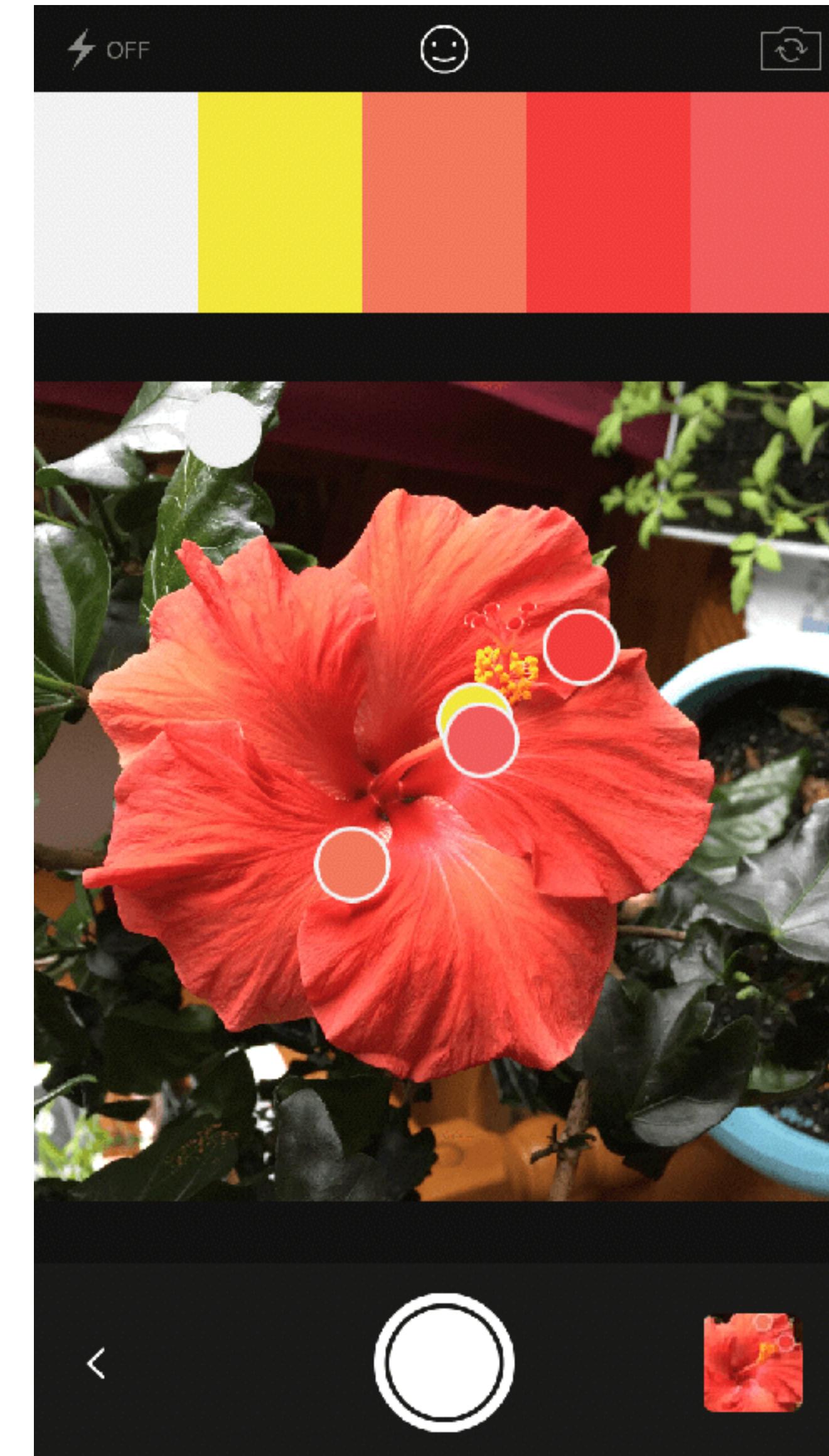
A PROJECT BY [TIM HOLMAN](#) & [CLAUDIO GUGLIERI](#) [Follow @twholman](#) [Follow @claudioguglieri](#)

[Tweet](#) [Like 5](#)

Color: Tools

Adobe Capture

Pick based on “mood”, ML



Color: Tools

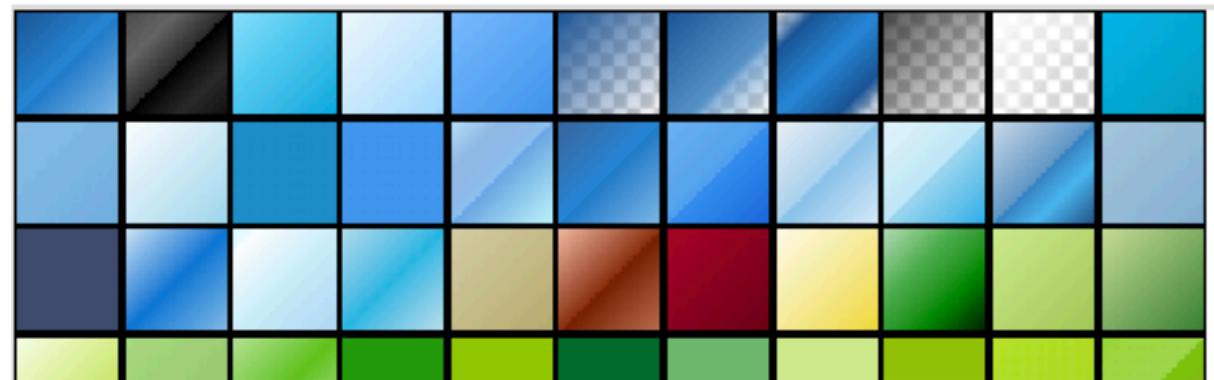
CSS Gradient

Ultimate CSS Gradient Generator

A powerful Photoshop-like CSS gradient editor from [ColorZilla](#).

[For Firefox](#) [For Chrome](#) [Gradient Generator](#)

Presets



Name: [save](#)



[hue/saturation](#) [reverse](#) [import css](#) [import image](#)

Stops

Opacity: Location: % [delete](#)

Color: Location: % [delete](#)

Sponsor

All the tools your team needs in one place.
Slack: Where work happens.



Preview



Orientation: [vertical](#) [horizontal](#) Size: x IE

— CSS —

```
/* Permalink - use to edit and share this gradient:
http://colorzilla.com/gradient-editor/#1e5799+0,2989d8+50,207cca+51,7db9e8+100;Blue+15 */
background: #1e5799; /* Old browsers */
background: -moz-linear-gradient(top, #1e5799 0%,
    #2989d8 50%, #207cca 51%, #7db9e8 100%); /* FF3.6-
15 */
background: -webkit-linear-gradient(top, #1e5799
    0%,#2989d8 50%,#207cca 51%,#7db9e8 100%); /* 
Chrome10-25,Safari5.1-6 */
background: linear-gradient(to bottom, #1e5799
    0t,#2989d8 50t,#207cca 51t,#7db9e8 100t); /* W3C,
IE10+, FF16+, Chrome26+, Opera12+, Safari7+ */
filter: progid:DXImageTransform.Microsoft.gradient(
    startColorstr='#1e5799',
    endColorstr='#7db9e8',GradientType=0 ); /* IE6-9 */
```

Color format: [hex](#) [rgb](#) Comments

[Link to, save or share the current gradient using its permalink.](#)

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[Mix It!](#)

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Color: Tools

Gradient

UI Gradients

uiGradients + SKILLSHARE [Get 2 months free ▾](#)

X Show all gradients

bdc3c7 → #2c3e50

Grade Grey

Piggy Pink

Cool Blues

MegaTron

Moonlit Asteroid

JShine

Evening Sunshine

Dark Ocean

Cool Sky

Yoda

Memariani

Amin

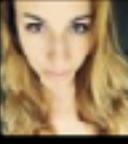
Share on Twitter

Share on Facebook

Animated Gradient

Animating transparent mask 

A PEN BY Sarah Drasner 

Run Save Fork Settings Change View 

HTML

```
1 <svg width="500" height="200"
      xmlns="http://www.w3.org/2000/svg"
      xmlns:xlink="http://www.w3.org/1999/xlink">
  2   <defs>
  3     <linearGradient id="Gradient">
  4       <stop id="stop1" offset="0"
          stop-color="white" stop-opacity="0" />
  5       <stop id="stop2" offset="0.3"
          stop-color="white" stop-opacity="1" />
  6     </linearGradient>
```

CSS

```
1 html, body {
  2   background: #000;
  3 }
  4
  5 <svg {
  6   position: absolute;
  7   top: 30px;
  8   left: 50%;
  9   margin-left: -250px;
 10 }
```

JS

```
1 TweenMax.fromTo("#stop1", 1.5, {
 2   attr:{offset:-1}
 3 }, {
 4   attr:{offset:1},
 5   repeat: -1,
 6   yoyo: true,
 7   ease:Linear.easeNone});
 8
 9 TweenMax.fromTo("#stop2", 1.5, {
10   attr:{offset:0}
11 }, {
```



<https://codepen.io/sdras/pen/akAWPR/>



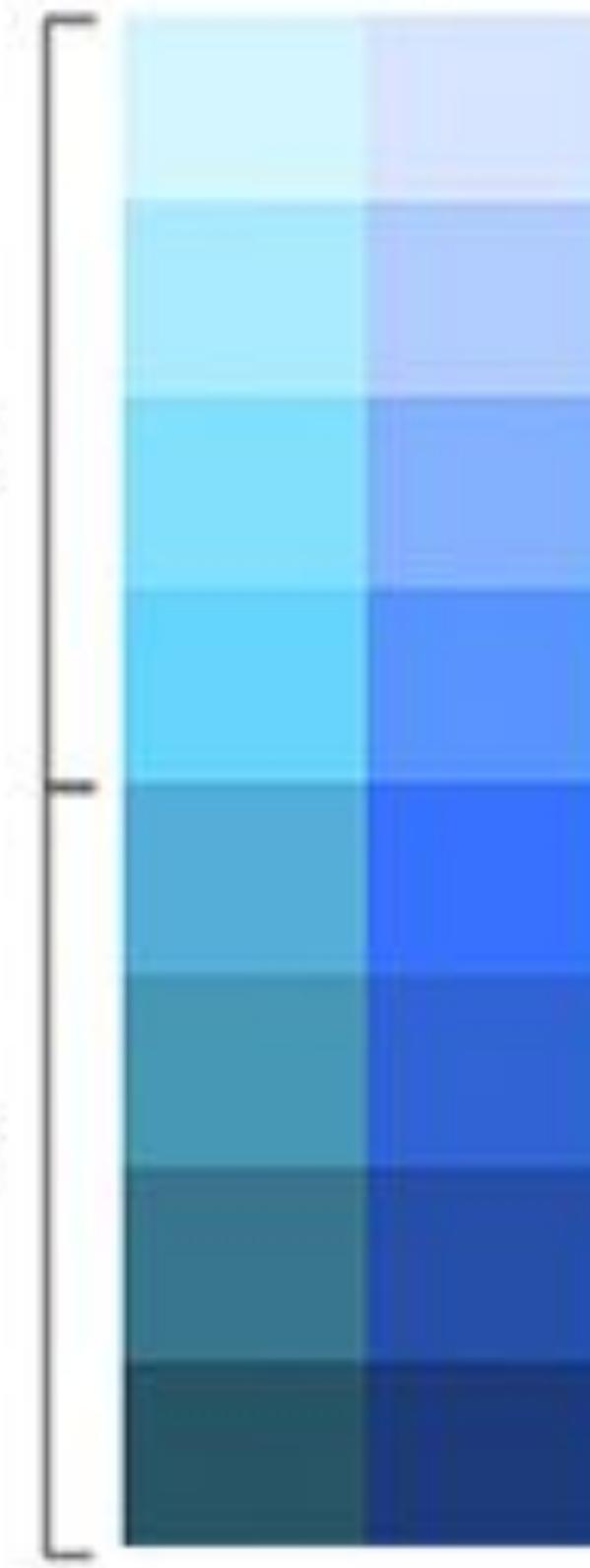
How?

Color

Anchoring

Fresh, Energetic:

Corporate, Serious:



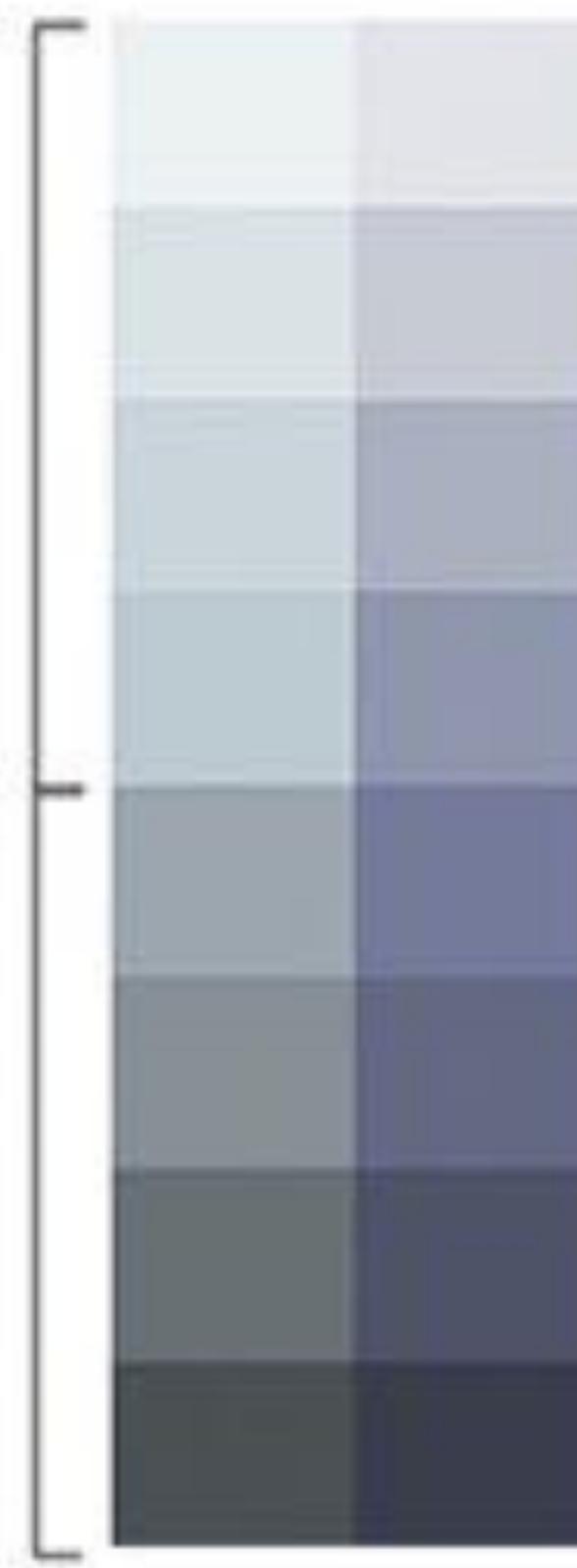
Color

Get your greys

REDUCE SATURATION

Fresh, Energetic:

Corporate, Serious:



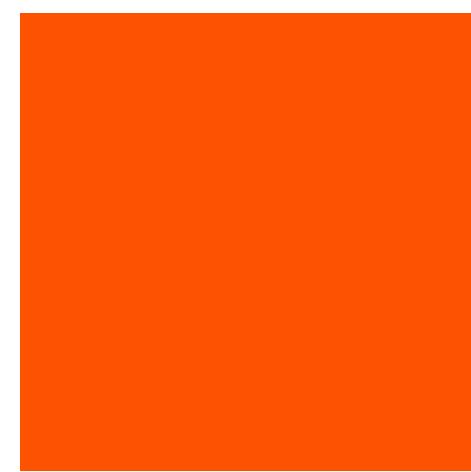
Color

Gather Accents

Fresh, Energetic:



Corporate, Serious:



**DEMO
TIME!**

Exercise

Add some color to your cheeks

Use any of the tools/techniques you just learned,
Create a palette of 5 colors. Then create 5 greys/blacks.
Then apply that to your last composition.