

# Converting Colors

$Y_{xy}(50.4262, 0.2455, 0.4012)$

Have a look what the booklet for  
Yxy(50.4262, 0.2455, 0.4012)  
contains.

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# Color

**Yxy(50.4128, 0.2457, 0.4020)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0BD5A6
RGB	11, 213, 166
RGB Percent	4%, 84%, 65%
CMY	0.9579, 0.1647, 0.3490
CMYK	0.95, 0.00, 0.22, 0.16
HSL	166°, 90%, 44%
HSV	166°, 95%, 84%
XYZ	30.8120, 50.4128, 44.1802
YIQ	147.2440, -105.3050, -57.4410

# Conversions

## Conversions Part 2

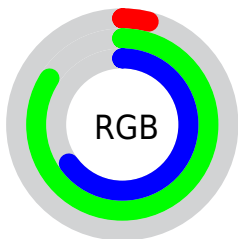
Format	Color
R <sub>YB</sub>	11, 125, 213
Decimal	775590
CIE Lab	76.32, -54.46, 11.11
CIE LCh	76, 55.585, 168.470
Yxy	50.4128, 0.2457, 0.4020
Android (android.graphics.Color)	4278965670 (0xFF0BD5A6)
YUV	147.2440, 9.2467, -119.4860
Hunter-Lab	71.0020, -46.7916, 12.8088

# Details

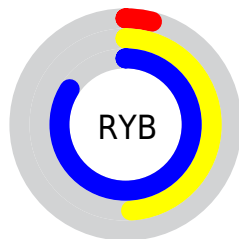
The Yxy color **50.4128, 0.2457, 0.4020** is a dark color, and the websafe version is hex **00CC99**. The color can be described as dark washed spring green. A complement of this color would be **14.6839, 0.5861, 0.3039**, and the grayscale version is **29.2458, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.8663, 0.2544, 0.3703**, and **25.3288, 0.2498, 0.4191** is the 20% darker color. If you saturate the color by 10%, you get **50.2545, 0.2462, 0.4063**, and if you desaturate by 10%, it is **50.8384, 0.2456, 0.3934**.

# Distribution



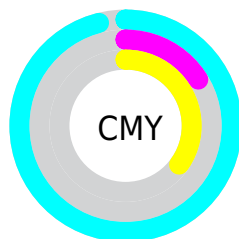
- Red (4%)
- Green (84%)
- Blue (65%)



- Red (4%)
- Yellow (49%)
- Blue (84%)



- Cyan (95%)
- Magenta (0%)
- Yellow (22%)
- Black (16%)



- Cyan (96%)
- Magenta (16%)
- Yellow (35%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.4128, 0.2457, 0.4020 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 50.4128, 0.2457, 0.4020 by changing the saturation by 10% instead.




 50.4128, 0.2457,  
0.4020

 50.4128, 0.2457,  
0.4020

388.2781, 0.2793,  
0.3645

 35.7415, 0.2373,  
0.4117


 90.7862, 0.2579,  
0.3881


 24.2346, 0.2267,  
0.4242


 117.2571, 0.2625,  
0.3830


 15.5078, 0.2125,  
0.4412


 148.4300, 0.2664,  
0.3787

 9.1765, 0.1930,  
0.4654

 184.6892, 0.2697,  
0.3750

 4.8565, 0.1647,  
0.5022

 226.4193, 0.2726,  
0.3718

 2.1633, 0.1032,  
0.5753

274.0045, 0.2751,

 0.6999, 0.0000,

0.3691

1.0000

327.8293, 0.2773,  
0.3666

■ 0.0000, 0.0000,  
0.0000

■ 50.4128, 0.2457,  
0.4020

■ 50.4128, 0.2457,  
0.4020

■ 50.2545, 0.2462,  
0.4063

■ 50.8384, 0.2456,  
0.3934

■ 51.4892, 0.2474,  
0.3848

■ 52.4040, 0.2512,  
0.3762

■ 53.6130, 0.2569,  
0.3678

■ 55.1422, 0.2644,  
0.3596

■ 57.0147, 0.2734,  
0.3519

■ 59.2514, 0.2836,  
0.3446

■ 61.8715, 0.2948,  
0.3379

■ 64.8931, 0.3067,  
0.3318

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



50.4128, 0.3135, 0.4594



50.4128, 0.2457, 0.4020



50.4128, 0.1994, 0.3213

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



50.4128, 0.2457, 0.4020



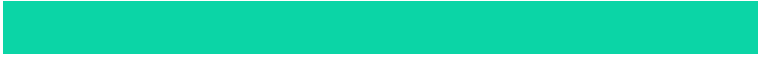
50.4128, 0.2327, 0.2150



50.4128, 0.4629, 0.3734

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



50.4128, 0.2457, 0.4020



14.6839, 0.5861, 0.3039

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



50.4128, 0.4387, 0.3178



50.4128, 0.2457, 0.4020



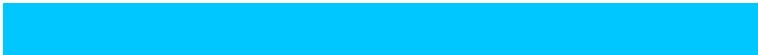
50.4128, 0.2969, 0.2318

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



50.4128, 0.2457, 0.4020



50.4128, 0.1938, 0.2219



50.4128, 0.3744, 0.2681



50.4128, 0.4407, 0.4269

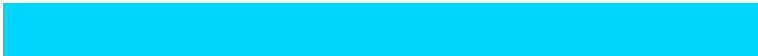


# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



50.4128, 0.2457, 0.4020



50.4128, 0.1847, 0.2751



50.4128, 0.3744, 0.2681



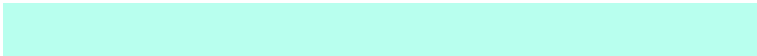
50.4128, 0.4602, 0.3546

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



50.4148, 0.2457, 0.4020



87.8579, 0.2801, 0.3470



48.5137, 0.3105, 0.5885



18.4943, 0.2757, 0.3502



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



50.4148, 0.2457, 0.4020



75.4932, 0.2464, 0.4072



29.6947, 0.2019, 0.2441



14.0562, 0.3013, 0.3345



30.7116, 0.2459, 0.4051



1.8647, 0.2417, 0.3903



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



14.6839, 0.5861, 0.3039



21.5786, 0.6028, 0.3094



17.9151, 0.5933, 0.3619



12.4676, 0.3255, 0.3236



8.7923, 0.5970, 0.3063

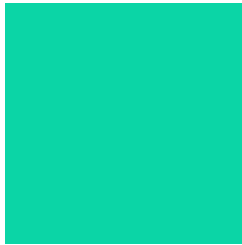


0.5433, 0.5475, 0.2790



# Previews

## White Background



This preview shows how the Yxy color 50.4128, 0.2457, 0.4020 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 50.4128, 0.2457, 0.4020 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

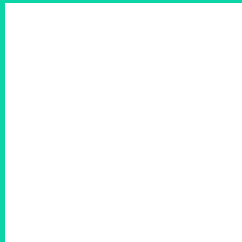
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 50.4128, 0.2457, 0.4020**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.4128, 0.2457, 0.4020.

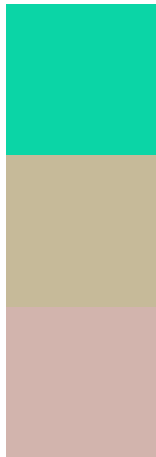


This preview shows how white text looks on a background with the Yxy color 50.4128, 0.2457, 0.4020.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

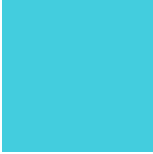
50.4128, 0.2457, 0.4020

### Protanopia

49.4235, 0.3497, 0.3709

### Deuteranopia

49.3613, 0.3450, 0.3376



## **Tritanopia**

50.1299, 0.2272, 0.3052

# Trichromacy



## Original Color

50.4128, 0.2457, 0.4020



## Protanomaly

46.6943, 0.2895, 0.3849



## Deuteranomaly

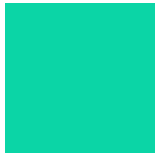
46.0048, 0.2868, 0.3606



## Tritanomaly

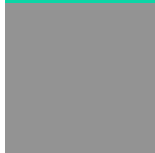
49.9804, 0.2322, 0.3375

# Monochromacy



## Original Color

50.4128, 0.2457, 0.4020



## Achromatopsia

29.1771, 0.3127, 0.3290



## Achromatomaly

34.0003, 0.2662, 0.3574

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.4128, 0.2457, 0.4020 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(11, 213, 166)` looks like.

```
.text, #text, p{  
    color:rgb(11, 213, 166)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(11, 213, 166) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(11, 213, 166) }
```

## Border

The CSS property to change the border of an element to Yxy 50.4128, 0.2457, 0.4020 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(11, 213, 166) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(11, 213, 166) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(11, 213, 166)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(11, 213, 166); -webkit-box-  
shadow:4px 4px 4px 4px rgb(11, 213, 166);  
box-shadow:4px 4px 4px 4px rgb(11, 213,  
166) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.4128, 0.2457, 0.4020 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(11, 213, 166) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(11, 213,  
166) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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