

# Converting Colors

$Y_{xy}(50.1756, 0.2563, 0.4427)$

Have a look what the booklet for  
Yxy(50.1756, 0.2563, 0.4427)  
contains.

<b>Yxy(50.0763, 0.2562, 0.4424)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(50.0763, 0.2562, 0.4424)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D68F
RGB	0, 214, 143
RGB Percent	0%, 84%, 56%
CMY	1.0000, 0.1607, 0.4393
CMYK	1.00, 0.00, 0.33, 0.16
HSL	160°, 100%, 42%
HSV	160°, 100%, 84%
XYZ	28.9999, 50.0763, 34.1162
YIQ	141.9200, -104.7530, -67.4490

# Conversions

## Conversions Part 2

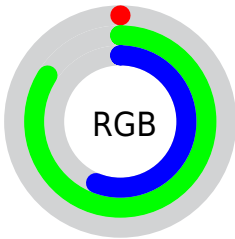
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 128, 214
Decimal	54927
CIELab	76.12, -60.45, 22.98
CIELCh	76, 64.666, 159.184
Yxy	50.0763, 0.2562, 0.4424
Android (android.graphics.Color)	4278245007 (0xFF00D68F)
YUV	141.9200, 0.5324, -124.4638
Hunter-Lab	70.7646, -50.6874, 20.9510

# Details

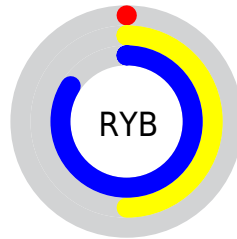
The Yxy color **50.0763, 0.2562, 0.4424** is a dark color, and the websafe version is hex **00CC99**. The color can be described as dark washed spring green. A complement of this color would be **14.7528, 0.5671, 0.2897**, and the grayscale version is **27.0471, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.4943, 0.2639, 0.4019**, and **25.2264, 0.2640, 0.4704** is the 20% darker color. If you saturate the color by 10%, you get **50.0805, 0.2562, 0.4424**, and if you desaturate by 10%, it is **50.4665, 0.2545, 0.4299**.

# Distribution



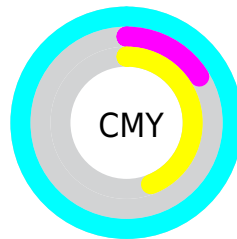
- Red (0%)
- Green (84%)
- Blue (56%)



- Red (0%)
- Yellow (50%)
- Blue (84%)



- Cyan (100%)
- Magenta (0%)
- Yellow (33%)
- Black (16%)




- Cyan (100%)
- Magenta (16%)
- Yellow (44%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.0763, 0.2562, 0.4424 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 50.0763, 0.2562, 0.4424 by changing the saturation by 10% instead.





 50.0763, 0.2562,  
0.4424


 50.0763, 0.2562,  
0.4424

386.9642, 0.2859,  
0.3825

 35.4740, 0.2484,  
0.4583


 90.2879, 0.2673,  
0.4199


 24.0283, 0.2381,  
0.4792


 116.6660, 0.2714,  
0.4117


 15.3546, 0.2241,  
0.5080

 147.7383, 0.2748,  
0.4048

 9.0686, 0.2039,  
0.5494


 183.8889, 0.2777,  
0.3990

 4.7860, 0.1731,  
0.6136

 225.5025, 0.2802,  
0.3940

 2.1222, 0.0822,  
0.7923

272.9633, 0.2823,

 0.6771, 0.0000,

0.3897

1.0000

326.6557, 0.2842,  
0.3859

■ 0.0000, 0.0000,  
0.0000

■ 50.0763, 0.2562,  
0.4424

■ 50.0763, 0.2562,  
0.4424

■ 50.0805, 0.2562,  
0.4424

■ 50.4665, 0.2545,  
0.4299

■ 51.0480, 0.2544,  
0.4171

■ 51.8855, 0.2564,  
0.4043

■ 53.0129, 0.2603,  
0.3917

■ 54.4583, 0.2661,  
0.3794

■ 56.2467, 0.2735,  
0.3677

■ 58.4005, 0.2821,  
0.3568

■ 60.9401, 0.2917,  
0.3466

■ 63.8844, 0.3020,  
0.3374

# Harmonies

## Analogous

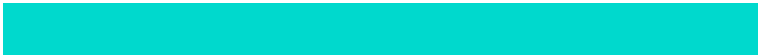
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



50.0763, 0.3372, 0.4913



50.0763, 0.2562, 0.4424



50.0763, 0.1953, 0.3476

# Triad

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



50.0763, 0.2562, 0.4424



50.0763, 0.2042, 0.1989



50.0763, 0.4842, 0.3566

# Complementary

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



50.0763, 0.2562, 0.4424



14.7528, 0.5671, 0.2897

# 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.



50.0763, 0.4403, 0.2962



50.0763, 0.2562, 0.4424



50.0763, 0.2682, 0.2103

# Square

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



50.0763, 0.2562, 0.4424



50.0763, 0.1706, 0.2146



50.0763, 0.3557, 0.2447



50.0763, 0.4720, 0.4195



# Rectangle

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



50.0763, 0.2562, 0.4424



50.0763, 0.1727, 0.2878



50.0763, 0.3557, 0.2447



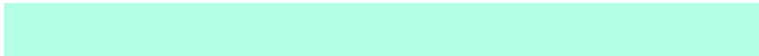
50.0763, 0.4758, 0.3359

# Sweetspot

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



50.0805, 0.2562, 0.4424



86.7356, 0.2818, 0.3571



49.4502, 0.3165, 0.5869



18.2600, 0.2780, 0.3617



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.



50.0805, 0.2562, 0.4424



74.4363, 0.2566, 0.4436



36.8322, 0.2096, 0.2744



14.0345, 0.3026, 0.3369



30.2874, 0.2557, 0.4405



1.8418, 0.2497, 0.4188



# Inverse Universe

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



14.7528, 0.5671, 0.2897



21.9100, 0.5695, 0.2911



15.5393, 0.6246, 0.3423



12.4881, 0.3239, 0.3213



8.9335, 0.5632, 0.2876

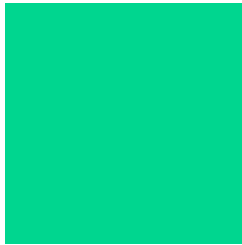


0.5540, 0.5142, 0.2606



# Previews

## White Background



This preview shows how the Yxy color 50.0763, 0.2562, 0.4424 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 50.0763, 0.2562, 0.4424 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 50.0763, 0.2562, 0.4424**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.0763, 0.2562, 0.4424.



This preview shows how white text looks on a background with the Yxy color 50.0763, 0.2562, 0.4424.

# 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

50.0763, 0.2562, 0.4424

### Protanopia

49.1740, 0.3705, 0.3983

### Deuteranopia

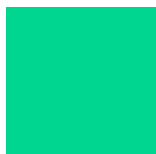
49.0735, 0.3700, 0.3629



## Tritanopia

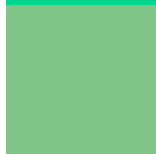
49.8620, 0.2293, 0.3052

# Trichromacy



## Original Color

50.0763, 0.2562, 0.4424



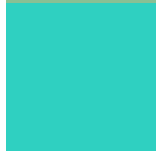
## Protanomaly

45.8183, 0.3033, 0.4209



## Deuteranomaly

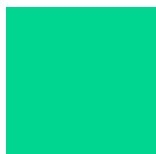
45.1558, 0.3012, 0.3941



## Tritanomaly

49.5663, 0.2362, 0.3511

# Monochromacy



## Original Color

50.0763, 0.2562, 0.4424



## Achromatopsia

27.0498, 0.3127, 0.3290



## Achromatomaly

32.1319, 0.2692, 0.3745

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.0763, 0.2562, 0.4424 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(0, 214, 143)` looks like.

```
.text, #text, p{  
    color:rgb(0, 214, 143)  
}
```

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(0, 214, 143) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 214, 143) }
```

## Border

The CSS property to change the border of an element to Yxy 50.0763, 0.2562, 0.4424 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(0, 214, 143) }
```

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

```
.border{ border-color:rgb(0, 214, 143) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 214, 143)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 214, 143); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 214, 143);  
box-shadow:4px 4px 4px 4px rgb(0, 214,  
143) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.0763, 0.2562, 0.4424 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 214, 143) }
```

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

```
.background{ background-color: rgb(0, 214,  
143) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor