

# Converting Colors

$Y_{xy}(48.7022, 0.2557, 0.4406)$

Have a look what the booklet for  
Yxy(48.7022, 0.2557, 0.4406)  
contains.

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# Color

**Yxy(48.5415, 0.2557, 0.4405)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D38E
RGB	0, 211, 142
RGB Percent	0%, 83%, 56%
CMY	0.9999, 0.1725, 0.4431
CMYK	1.00, 0.00, 0.33, 0.17
HSL	160°, 100%, 41%
HSV	160°, 100%, 83%
XYZ	28.1772, 48.5415, 33.4777
YIQ	140.0450, -103.6070, -66.1910

# Conversions

## Conversions Part 2

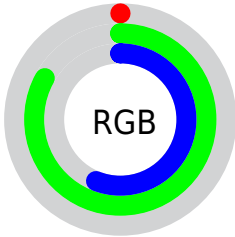
Format	Color
<a href="#">RYB</a>	<a href="#">0, 126, 211</a>
Decimal	<a href="#">54158</a>
CIELab	<a href="#">75.17, -59.56, 22.19</a>
CIELCh	<a href="#">75, 63.561, 159.564</a>
Yxy	<a href="#">48.5415, 0.2557, 0.4405</a>
Android (android.graphics.Color)	<a href="#">4278244238</a> ( <a href="#">0xFF00D38E</a> )
YUV	<a href="#">140.0450, 0.9638, -122.8195</a>
Hunter-Lab	<a href="#">69.6717, -49.7351, 20.2810</a>

# Details

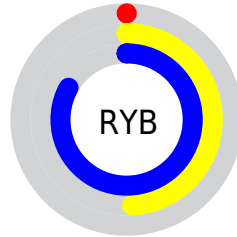
The Yxy color **48.5415, 0.2557, 0.4405** is a dark color, and the websafe version is hex **00CC99**. The color can be described as dark washed spring green. A complement of this color would be **14.2802, 0.5686, 0.2906**, and the grayscale version is **26.2756, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.4486, 0.2644, 0.4033**, and **24.1980, 0.2635, 0.4684** is the 20% darker color. If you saturate the color by 10%, you get **48.5428, 0.2557, 0.4405**, and if you desaturate by 10%, it is **48.9179, 0.2540, 0.4282**.

# Distribution



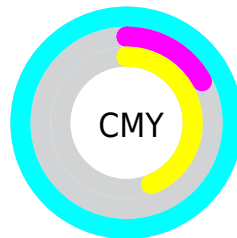
- Red (0%)
- Green (83%)
- Blue (56%)



- Red (0%)
- Yellow (49%)
- Blue (83%)



- Cyan (100%)
- Magenta (0%)
- Yellow (33%)
- Black (17%)




- Cyan (100%)
- Magenta (17%)
- Yellow (44%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.5415, 0.2557, 0.4405 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 48.5415, 0.2557, 0.4405 by changing the saturation by 10% instead.





 48.5415, 0.2557,  
0.4405


 48.5415, 0.2557,  
0.4405


380.9345, 0.2857,  
0.3814


 34.2559, 0.2478,  
0.4563


 88.0101, 0.2669,  
0.4182


 23.0903, 0.2373,  
0.4771


 113.9619, 0.2711,  
0.4101


 14.6602, 0.2230,  
0.5059


 144.5712, 0.2745,  
0.4033

 8.5812, 0.2024,  
0.5476

 180.2225, 0.2774,  
0.3976

 4.4691, 0.1707,  
0.6127

 221.3000, 0.2799,  
0.3927

 1.9393, 0.0601,  
0.8226

268.1883, 0.2821,

 0.5718, 0.0000,

0.3884

1.0000

321.2716, 0.2840,  
0.3847

■ 0.0000, 0.0000,  
0.0000

■ 48.5415, 0.2557,  
0.4405

■ 48.5415, 0.2557,  
0.4405

■ 48.5428, 0.2557,  
0.4405

■ 48.9179, 0.2540,  
0.4282

■ 49.4811, 0.2540,  
0.4156

■ 50.2918, 0.2561,  
0.4030

■ 51.3826, 0.2601,  
0.3906

■ 52.7808, 0.2659,  
0.3786

■ 54.5104, 0.2733,  
0.3671

■ 56.5929, 0.2820,  
0.3563

■ 59.0482, 0.2916,  
0.3463

■ 61.8944, 0.3020,  
0.3372

# Harmonies

## Analogous

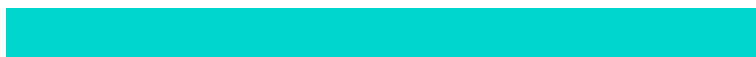
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



48.5415, 0.3361, 0.4900



48.5415, 0.2557, 0.4405



48.5415, 0.1954, 0.3463

# Triad

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



48.5415, 0.2557, 0.4405



48.5415, 0.2055, 0.1996



48.5415, 0.4833, 0.3574

# Complementary

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



48.5415, 0.2557, 0.4405



14.2802, 0.5686, 0.2906

# 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.



48.5415, 0.4403, 0.2971



48.5415, 0.2557, 0.4405



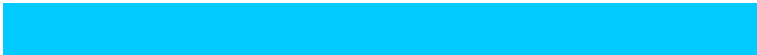
48.5415, 0.2695, 0.2113

# Square

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



48.5415, 0.2557, 0.4405



48.5415, 0.1716, 0.2149



48.5415, 0.3567, 0.2457

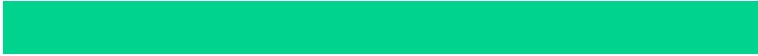


48.5415, 0.4706, 0.4199



# Rectangle

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



48.5415, 0.2557, 0.4405



48.5415, 0.1732, 0.2872



48.5415, 0.3567, 0.2457



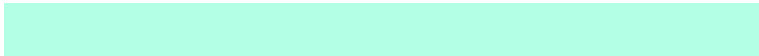
48.5415, 0.4751, 0.3368

# Sweetspot

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



48.5434, 0.2557, 0.4405



86.7563, 0.2817, 0.3566



47.9055, 0.3166, 0.5868



18.2649, 0.2778, 0.3612



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.



48.5434, 0.2557, 0.4405



74.4833, 0.2561, 0.4418



35.6922, 0.2096, 0.2745



13.3386, 0.3026, 0.3367



29.3142, 0.2552, 0.4387



1.6533, 0.2489, 0.4160



# Inverse Universe

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



14.2802, 0.5686, 0.2906



21.8907, 0.5713, 0.2921



15.0631, 0.6244, 0.3424



11.8711, 0.3240, 0.3214



8.6340, 0.5647, 0.2885

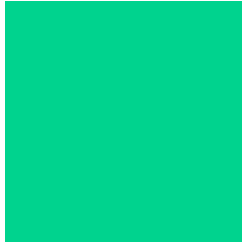


0.4973, 0.5124, 0.2596



# Previews

## White Background



This preview shows how the Yxy color 48.5415, 0.2557, 0.4405 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

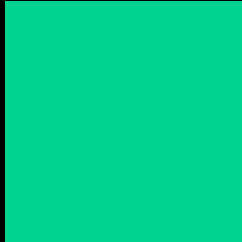
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.5415, 0.2557, 0.4405 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 48.5415, 0.2557, 0.4405**

## Background



This preview shows how black text looks on a background with the Yxy color 48.5415, 0.2557, 0.4405.



This preview shows how white text looks on a background with the Yxy color 48.5415, 0.2557, 0.4405.

# 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

48.5415, 0.2557, 0.4405

### Protanopia

47.4844, 0.3697, 0.3967

### Deuteranopia

47.3988, 0.3691, 0.3609



## Tritanopia

48.7195, 0.2296, 0.3063

# Trichromacy



## Original Color

48.5415, 0.2557, 0.4405



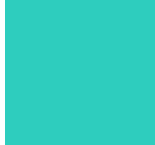
## Protanomaly

44.2968, 0.3025, 0.4191



## Deuteranomaly

43.7360, 0.3012, 0.3918



## Tritanomaly

47.9612, 0.2363, 0.3514

# Monochromacy



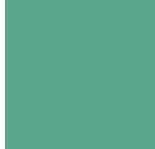
## Original Color

48.5415, 0.2557, 0.4405



## Achromatopsia

26.2251, 0.3127, 0.3290



## Achromatomaly

31.3194, 0.2688, 0.3731

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.5415, 0.2557, 0.4405 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, 211, 142)` looks like.

```
.text, #text, p{  
    color:rgb(0, 211, 142)  
}
```

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, 211, 142) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 211, 142) }
```

## Border

The CSS property to change the border of an element to Yxy 48.5415, 0.2557, 0.4405 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, 211, 142) }
```

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

```
.border{ border-color:rgb(0, 211, 142) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 211, 142)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 211, 142); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 211, 142);  
box-shadow:4px 4px 4px 4px rgb(0, 211,  
142) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.5415, 0.2557, 0.4405 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 211, 142) }
```

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

```
.background{ background-color: rgb(0, 211,  
142) }
```

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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