

# Converting Colors

$Y_{xy}(49.2444, 0.2502, 0.4207)$

Have a look what the booklet for  
Yxy(49.2444, 0.2502, 0.4207)  
contains.

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# Color

**Yxy(49.4201, 0.2503, 0.4211)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D49A
RGB	0, 212, 154
RGB Percent	0%, 83%, 60%
CMY	1.0000, 0.1686, 0.3961
CMYK	1.00, 0.00, 0.27, 0.17
HSL	164°, 100%, 42%
HSV	164°, 100%, 83%
XYZ	29.3751, 49.4201, 38.5643
YIQ	142.0000, -107.7340, -62.9820

# Conversions

## Conversions Part 2

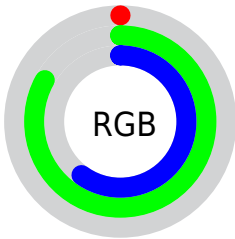
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">0, 123, 212</a>
Decimal	<a href="#">54426</a>
CIELab	<a href="#">75.71, -57.26, 16.62</a>
CIELCh	<a href="#">76, 59.621, 163.815</a>
Yxy	<a href="#">49.4201, 0.2503, 0.4211</a>
Android (android.graphics.Color)	<a href="#">4278244506</a> ( <a href="#">0xFF00D49A</a> )
YUV	<a href="#">142.0000, 5.9160, -124.5340</a>
Hunter-Lab	<a href="#">70.2994, -48.4366, 16.6847</a>

# Details

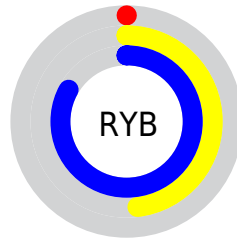
The Yxy color **49.4201, 0.2503, 0.4211** is a dark color, and the websafe version is hex **00CC99**. The color can be described as dark washed spring green. A complement of this color would be **14.3033, 0.5876, 0.3010**, and the grayscale version is **27.0596, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.0665, 0.2586, 0.3860**, and **24.7562, 0.2563, 0.4425** is the 20% darker color. If you saturate the color by 10%, you get **49.4229, 0.2503, 0.4211**, and if you desaturate by 10%, it is **49.7825, 0.2492, 0.4109**.

# Distribution



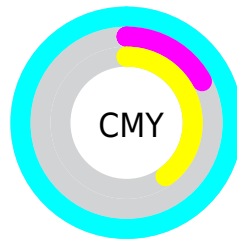
- Red (0%)
- Green (83%)
- Blue (60%)



- Red (0%)
- Yellow (48%)
- Blue (83%)



- Cyan (100%)
- Magenta (0%)
- Yellow (27%)
- Black (17%)




- Cyan (100%)
- Magenta (17%)
- Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.4201, 0.2503, 0.4211 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 49.4201, 0.2503, 0.4211 by changing the saturation by 10% instead.




 49.4201, 0.2503,  
0.4211


 49.4201, 0.2503,  
0.4211


384.3938, 0.2823,  
0.3729


 34.9528, 0.2421,  
0.4338


 89.3151, 0.2621,  
0.4031

 23.6266, 0.2315,  
0.4504


 115.5116, 0.2664,  
0.3965


 15.0568, 0.2173,  
0.4731


 146.3866, 0.2701,  
0.3910

 8.8593, 0.1973,  
0.5060

 182.3246, 0.2733,  
0.3863

 4.6495, 0.1675,  
0.5568

 223.7099, 0.2760,  
0.3822

 2.0431, 0.0843,  
0.6742

270.9270, 0.2783,

 0.6323, 0.0000,

0.3787

1.0000

324.3601, 0.2804,  
0.3756

■ 0.0000, 0.0000,  
0.0000

■ 49.4201, 0.2503,  
0.4211

■ 49.4201, 0.2503,  
0.4211

■ 49.4229, 0.2503,  
0.4211

■ 49.7825, 0.2492,  
0.4109

■ 50.3290, 0.2496,  
0.4006

■ 51.1220, 0.2521,  
0.3902

■ 52.1941, 0.2565,  
0.3800

■ 53.5730, 0.2628,  
0.3701

■ 55.2829, 0.2707,  
0.3606

■ 57.3455, 0.2799,  
0.3517

■ 59.7807, 0.2902,  
0.3435

■ 62.6068, 0.3012,  
0.3359

# Harmonies

## Analogous

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



49.4201, 0.3247, 0.4756



49.4201, 0.2503, 0.4211



49.4201, 0.1969, 0.3332

# Triad

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



49.4201, 0.2503, 0.4211



49.4201, 0.2187, 0.2069



49.4201, 0.4738, 0.3656

# Complementary

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



49.4201, 0.2503, 0.4211



14.3033, 0.5876, 0.3010

# 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.



49.4201, 0.4403, 0.3074



49.4201, 0.2503, 0.4211



49.4201, 0.2832, 0.2212

# Square

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



49.4201, 0.2503, 0.4211



49.4201, 0.1822, 0.2180



49.4201, 0.3661, 0.2567

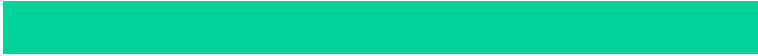


49.4201, 0.4561, 0.4241



# Rectangle

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



49.4201, 0.2503, 0.4211



49.4201, 0.1785, 0.2806



49.4201, 0.3661, 0.2567



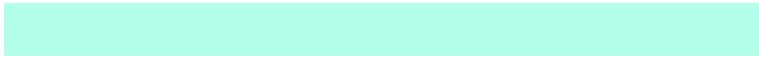
49.4201, 0.4684, 0.3458

# Sweetspot

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



49.4229, 0.2503, 0.4211



86.9889, 0.2796, 0.3520



48.0523, 0.3122, 0.5903



18.3207, 0.2755, 0.3557



0.0000, 0.0000, 0.0000

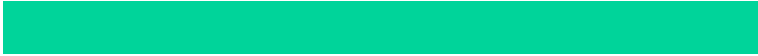


21.4041, 0.3127, 0.3290



# Same Dimension

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



49.4229, 0.2503, 0.4211



75.0329, 0.2506, 0.4221



32.0519, 0.2047, 0.2570



14.0472, 0.3019, 0.3355



30.5272, 0.2499, 0.4196



1.8548, 0.2450, 0.4020



# Inverse Universe

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



14.3033, 0.5876, 0.3010



21.6992, 0.5901, 0.3024



15.9467, 0.6159, 0.3492



12.4761, 0.3249, 0.3226



8.8442, 0.5840, 0.2991

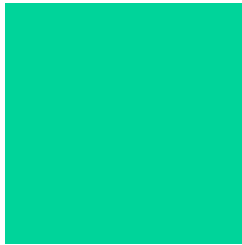


0.5474, 0.5339, 0.2715



# Previews

## White Background



This preview shows how the Yxy color 49.4201, 0.2503, 0.4211 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 49.4201, 0.2503, 0.4211 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

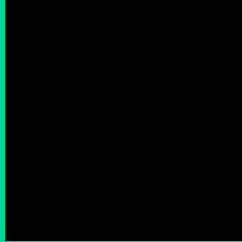
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 49.4201, 0.2503, 0.4211**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.4201, 0.2503, 0.4211.



This preview shows how white text looks on a background with the Yxy color 49.4201, 0.2503, 0.4211.

# 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

49.4201, 0.2503, 0.4211

### Protanopia

48.6268, 0.3599, 0.3851

### Deuteranopia

48.2983, 0.3560, 0.3487



## Tritanopia

49.1813, 0.2282, 0.3050

# Trichromacy



## Original Color

49.4201, 0.2503, 0.4211



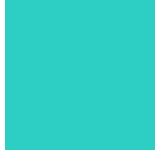
## Protanomaly

45.5412, 0.2946, 0.4027



## Deuteranomaly

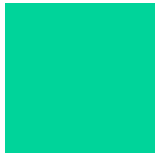
44.3984, 0.2913, 0.3748



## Tritanomaly

48.6860, 0.2337, 0.3436

# Monochromacy



## Original Color

49.4201, 0.2503, 0.4211



## Achromatopsia

27.0498, 0.3127, 0.3290



## Achromatomaly

31.8864, 0.2662, 0.3655

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.4201, 0.2503, 0.4211 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, 212, 154)` looks like.

```
.text, #text, p{  
    color:rgb(0, 212, 154)  
}
```

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, 212, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 212, 154) }
```

## Border

The CSS property to change the border of an element to Yxy 49.4201, 0.2503, 0.4211 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, 212, 154) }
```

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

```
.border{ border-color:rgb(0, 212, 154) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 212, 154)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 212, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 212, 154);  
box-shadow:4px 4px 4px 4px rgb(0, 212,  
154) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.4201, 0.2503, 0.4211 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 212, 154) }
```

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

```
.background{ background-color: rgb(0, 212,  
154) }
```

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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