

# Converting Colors

$Y_{xy}(44.8694, 0.2203, 0.4102)$

Have a look what the booklet for  
Yxy(44.8694, 0.2203, 0.4102)  
contains.

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# Color

**Yxy(47.1289, 0.2461, 0.4060)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00CF9F
RGB	0, 207, 159
RGB Percent	0%, 81%, 62%
CMY	1.0000, 0.1882, 0.3765
CMYK	1.00, 0.00, 0.23, 0.19
HSL	166°, 100%, 41%
HSV	166°, 100%, 81%
XYZ	28.5675, 47.1289, 40.3846
YIQ	139.6350, -107.9640, -58.8120

# Conversions

## Conversions Part 2

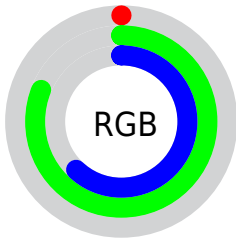
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 117, 207
Decimal	53151
CIELab	74.27, -54.18, 11.94
CIELCh	74, 55.480, 167.567
Yxy	47.1289, 0.2461, 0.4060
Android (android.graphics.Color)	4278243231 (0xFF00CF9F)
YUV	139.6350, 9.5469, -122.4599
Hunter-Lab	68.6505, -45.8591, 13.1772

# Details

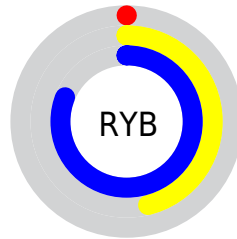
The Yxy color **47.1289, 0.2461, 0.4060** is a dark color, and the websafe version is hex **00CC99**. The color can be described as dark washed spring green. A complement of this color would be **13.4801, 0.6002, 0.3080**, and the grayscale version is **26.0713, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.2586, 0.2561, 0.3795**, and **23.2159, 0.2507, 0.4226** is the 20% darker color. If you saturate the color by 10%, you get **47.1321, 0.2461, 0.4060**, and if you desaturate by 10%, it is **47.4582, 0.2454, 0.3975**.

# Distribution



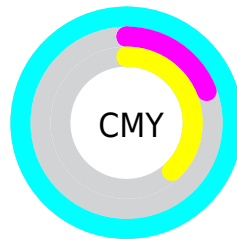
- Red (0%)
- Green (81%)
- Blue (62%)



- Red (0%)
- Yellow (46%)
- Blue (81%)



- Cyan (100%)
- Magenta (0%)
- Yellow (23%)
- Black (19%)




- Cyan (100%)
- Magenta (19%)
- Yellow (38%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.1289, 0.2461, 0.4060 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 47.1289, 0.2461, 0.4060 by changing the saturation by 10% instead.





 47.1289, 0.2461,  
0.4060

 47.1289, 0.2461,  
0.4060

375.3288, 0.2800,  
0.3659


 33.1376, 0.2375,  
0.4165


 85.9060, 0.2585,  
0.3910

 22.2319, 0.2265,  
0.4303


 111.4606, 0.2631,  
0.3855


 14.0274, 0.2117,  
0.4492


 141.6383, 0.2670,  
0.3809

 8.1397, 0.1910,  
0.4765

 176.8236, 0.2704,  
0.3770

 4.1845, 0.1605,  
0.5188

 217.4010, 0.2733,  
0.3736

 1.7773, 0.0630,  
0.6254

263.7547, 0.2758,

 0.4730, 0.0000,

0.3707

1.0000

316.2692, 0.2780,  
0.3681

■ 0.0000, 0.0000,  
0.0000

■ 47.1289, 0.2461,  
0.4060

■ 47.1289, 0.2461,  
0.4060

■ 47.1321, 0.2461,  
0.4060

■ 47.4582, 0.2454,  
0.3975

■ 47.9583, 0.2463,  
0.3889

■ 48.6892, 0.2491,  
0.3803

■ 49.6816, 0.2538,  
0.3718

■ 50.9616, 0.2605,  
0.3635

■ 52.5519, 0.2687,  
0.3556

■ 54.4730, 0.2784,  
0.3481

■ 56.7436, 0.2891,  
0.3412

■ 59.3810, 0.3007,  
0.3348

# Harmonies

## Analogous

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



47.1289, 0.3155, 0.4634



47.1289, 0.2461, 0.4060



47.1289, 0.1983, 0.3234

# Triad

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



47.1289, 0.2461, 0.4060



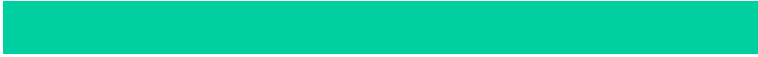
47.1289, 0.2296, 0.2129



47.1289, 0.4658, 0.3721

# Complementary

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



47.1289, 0.2461, 0.4060



13.4801, 0.6002, 0.3080

# 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.



47.1289, 0.4399, 0.3158



47.1289, 0.2461, 0.4060



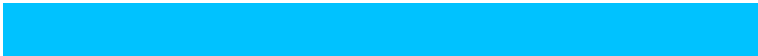
47.1289, 0.2942, 0.2293

# Square

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



47.1289, 0.2461, 0.4060



47.1289, 0.1909, 0.2206



47.1289, 0.3733, 0.2656



47.1289, 0.4443, 0.4269



# Rectangle

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



47.1289, 0.2461, 0.4060



47.1289, 0.1828, 0.2757



47.1289, 0.3733, 0.2656



47.1289, 0.4627, 0.3530

# Sweetspot

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



47.1321, 0.2461, 0.4060



87.1735, 0.2780, 0.3484



45.2651, 0.3086, 0.5932



18.3651, 0.2738, 0.3515



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.



47.1321, 0.2461, 0.4060



75.4984, 0.2464, 0.4070



26.8988, 0.1998, 0.2393



13.3582, 0.3013, 0.3344



29.7080, 0.2458, 0.4048



1.6728, 0.2414, 0.3892



# Inverse Universe

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



13.4801, 0.6002, 0.3080



21.5774, 0.6029, 0.3095



16.0181, 0.6053, 0.3576



11.8525, 0.3255, 0.3236



8.5046, 0.5969, 0.3062

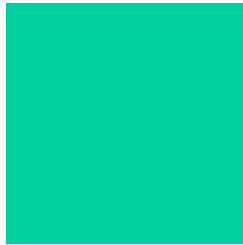


0.4881, 0.5439, 0.2770



# Previews

## White Background



This preview shows how the Yxy color 47.1289, 0.2461, 0.4060 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

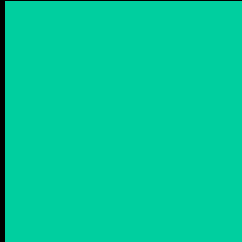
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.1289, 0.2461, 0.4060 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

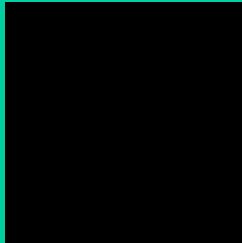
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 47.1289, 0.2461, 0.4060**

## **Background**



This preview shows how black text looks on a background with the Yxy color 47.1289, 0.2461, 0.4060.



This preview shows how white text looks on a background with the Yxy color 47.1289, 0.2461, 0.4060.

# 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

47.1289, 0.2461, 0.4060

### Protanopia

46.3295, 0.3515, 0.3748

### Deuteranopia

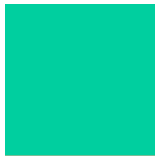
46.2505, 0.3467, 0.3404



## Tritanopia

46.9285, 0.2271, 0.3045

# Trichromacy



## Original Color

47.1289, 0.2461, 0.4060



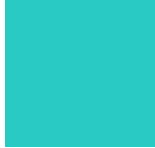
## Protanomaly

43.1989, 0.2881, 0.3886



## Deuteranomaly

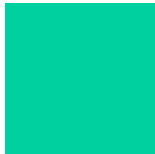
42.9308, 0.2854, 0.3648



## Tritanomaly

46.6526, 0.2319, 0.3393

# Monochromacy



## Original Color

47.1289, 0.2461, 0.4060



## Achromatopsia

26.2251, 0.3127, 0.3290



## Achromatomaly

30.7813, 0.2641, 0.3588

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.1289, 0.2461, 0.4060 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, 207, 159)` looks like.

```
.text, #text, p{  
    color:rgb(0, 207, 159)  
}
```

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, 207, 159) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 207, 159) }
```

## Border

The CSS property to change the border of an element to Yxy 47.1289, 0.2461, 0.4060 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, 207, 159) }
```

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

```
.border{ border-color:rgb(0, 207, 159) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 207, 159)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 207, 159); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 207, 159);  
box-shadow:4px 4px 4px 4px rgb(0, 207,  
159) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.1289, 0.2461, 0.4060 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 207, 159) }
```

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

```
.background{ background-color: rgb(0, 207,  
159) }
```

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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