

# Converting Colors

$Y_{xy}(39.6086, 0.2438, 0.3978)$

Have a look what the booklet for  
Yxy(39.6086, 0.2438, 0.3978)  
contains.

<b>Yxy(39.4960, 0.2438, 0.3976)</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(39.4960, 0.2438, 0.3976)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00BF97
RGB	0, 191, 151
RGB Percent	0%, 75%, 59%
CMY	0.9991, 0.2510, 0.4079
CMYK	1.00, 0.00, 0.21, 0.25
HSL	167°, 100%, 37%
HSV	167°, 100%, 75%
XYZ	24.2181, 39.4960, 35.6219
YIQ	129.3310, -100.9960, -52.9320

# Conversions

## Conversions Part 2

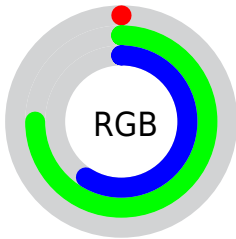
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 107, 191
Decimal	49047
CIELab	69.11, -49.87, 8.93
CIELCh	69, 50.658, 169.848
Yxy	39.4960, 0.2438, 0.3976
Android (android.graphics.Color)	4278239127 (0xFF00BF97)
YUV	129.3310, 10.6828, -113.4233
Hunter-Lab	62.8458, -41.1939, 10.3857

# Details

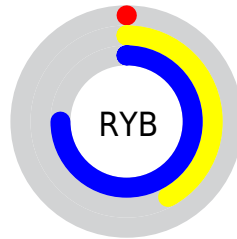
The Yxy color **39.4960, 0.2438, 0.3976** is a dark color, and the websafe version is hex **33CC99**. A complement of this color would be **11.2362, 0.6050, 0.3108**, and the grayscale version is **22.0884, 0.3127, 0.3290**.

A 20% lighter version of the original color is **74.1952, 0.2572, 0.3837**, and **18.5284, 0.2485, 0.4147** is the 20% darker color. If you saturate the color by 10%, you get **39.4945, 0.2438, 0.3977**, and if you desaturate by 10%, it is **39.7702, 0.2434, 0.3900**.

# Distribution



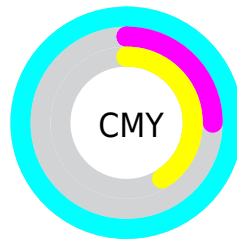
- Red (0%)
- Green (75%)
- Blue (59%)



- Red (0%)
- Yellow (42%)
- Blue (75%)



- Cyan (100%)
- Magenta (0%)
- Yellow (21%)
- Black (25%)



- Cyan (100%)
- Magenta (25%)
- Yellow (41%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 39.4960, 0.2438, 0.3976 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 39.4960, 0.2438, 0.3976 by changing the saturation by 10% instead.




 39.4960, 0.2438,  
0.3976


 39.4960, 0.2438,  
0.3976


343.9947, 0.2796,  
0.3611


 27.1458, 0.2345,  
0.4075


 74.3954, 0.2571,  
0.3838


 17.6828, 0.2223,  
0.4206


 97.7134, 0.2620,  
0.3788


 10.7225, 0.2057,  
0.4389


 125.4562, 0.2661,  
0.3746

 5.8805, 0.1821,  
0.4660

 158.0081, 0.2696,  
0.3711

 2.7726, 0.1459,  
0.5100

 195.7535, 0.2726,  
0.3680

 1.0142, 0.0000,  
0.6816

239.0768, 0.2753,

 0.0000, 0.0000,

0.3654

0.0000

288.3624, 0.2776,  
0.3631

■ 39.4960, 0.2438,  
0.3976

■ 39.4960, 0.2438,  
0.3976

■ 39.4945, 0.2438,  
0.3977

■ 39.7702, 0.2434,  
0.3900

■ 40.1855, 0.2446,  
0.3824

■ 40.7921, 0.2477,  
0.3747

■ 41.6148, 0.2527,  
0.3672

■ 42.6751, 0.2595,  
0.3598

■ 43.9913, 0.2680,  
0.3527

■ 45.5803, 0.2778,  
0.3461

■ 47.4574, 0.2888,  
0.3399

■ 49.6368, 0.3006,  
0.3341

# Harmonies

## Analogous

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



39.4960, 0.3103, 0.4563



39.4960, 0.2438, 0.3976



39.4960, 0.1991, 0.3180

# Triad

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



39.4960, 0.2438, 0.3976



39.4960, 0.2360, 0.2164



39.4960, 0.4612, 0.3757

# Complementary

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



39.4960, 0.2438, 0.3976



11.2362, 0.6050, 0.3108

# 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.



39.4960, 0.4394, 0.3205



39.4960, 0.2438, 0.3976



39.4960, 0.3005, 0.2340

# Square

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



39.4960, 0.2438, 0.3976



39.4960, 0.1961, 0.2221



39.4960, 0.3772, 0.2708



39.4960, 0.4375, 0.4283



# Rectangle

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



39.4960, 0.2438, 0.3976



39.4960, 0.1854, 0.2731



39.4960, 0.3772, 0.2708



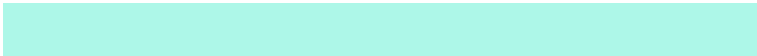
39.4960, 0.4592, 0.3571

# Sweetspot

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



39.4975, 0.2438, 0.3976



81.4508, 0.2772, 0.3465



37.7454, 0.3078, 0.5937



17.6084, 0.2729, 0.3493



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290



# Same Dimension

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



39.4975, 0.2438, 0.3976



70.6976, 0.2441, 0.3989



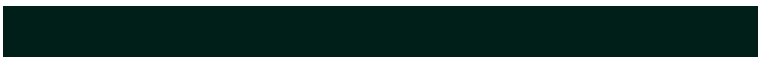
21.6397, 0.1984, 0.2340



10.7743, 0.3012, 0.3339



25.9671, 0.2435, 0.3967



1.0259, 0.2385, 0.3785



# Inverse Universe

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



11.2362, 0.6050, 0.3108



20.0846, 0.6087, 0.3127



13.7414, 0.6002, 0.3615



9.5682, 0.3256, 0.3242



7.3899, 0.6023, 0.3091



0.2992, 0.5355, 0.2724



# Previews

## White Background



This preview shows how the Yxy color 39.4960, 0.2438, 0.3976 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 39.4960, 0.2438, 0.3976 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 39.4960, 0.2438, 0.3976**

## **Background**



This preview shows how black text looks on a background with the Yxy color 39.4960, 0.2438, 0.3976.



This preview shows how white text looks on a background with the Yxy color 39.4960, 0.2438, 0.3976.

# 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

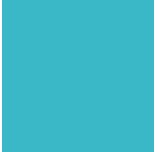
39.4960, 0.2438, 0.3976

### Protanopia

38.8486, 0.3472, 0.3684

### Deuteranopia

38.8398, 0.3415, 0.3358



## **Tritanopia**

39.3040, 0.2271, 0.3057

# Trichromacy



## Original Color

39.4960, 0.2438, 0.3976



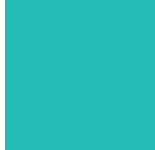
## Protanomaly

36.5445, 0.2860, 0.3829



## Deuteranomaly

36.1756, 0.2815, 0.3577



## Tritanomaly

39.3114, 0.2311, 0.3368

# Monochromacy



## Original Color

39.4960, 0.2438, 0.3976



## Achromatopsia

21.9526, 0.3127, 0.3290



## Achromatomaly

26.0565, 0.2635, 0.3571

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 39.4960, 0.2438, 0.3976 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, 191, 151)` looks like.

```
.text, #text, p{  
    color:rgb(0, 191, 151)  
}
```

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, 191, 151) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 191, 151) }
```

## Border

The CSS property to change the border of an element to Yxy 39.4960, 0.2438, 0.3976 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, 191, 151) }
```

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

```
.border{ border-color:rgb(0, 191, 151) }
```

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

Here you see how a box with a 4 pixel rgb(0, 191, 151) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 191, 151); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 191, 151);  
box-shadow:4px 4px 4px 4px rgb(0, 191,  
151) }
```



# Background

The CSS property to change the background color of an element to Yxy 39.4960, 0.2438, 0.3976 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 191, 151) }
```

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

```
.background{ background-color: rgb(0, 191,  
151) }
```

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