

# Converting Colors

$Y_{xy}(39.8891, 0.2396, 0.3826)$

Have a look what the booklet for  
Yxy(39.8891, 0.2396, 0.3826)  
contains.

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# Color

**Yxy(39.7648, 0.2397, 0.3830)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00BF9F
RGB	0, 191, 159
RGB Percent	0%, 75%, 62%
CMY	1.0000, 0.2510, 0.3764
CMYK	1.00, 0.00, 0.17, 0.25
HSL	170°, 100%, 37%
HSV	170°, 100%, 75%
XYZ	24.8867, 39.7648, 39.1730
YIQ	130.2430, -103.5640, -50.4440

# Conversions

## Conversions Part 2

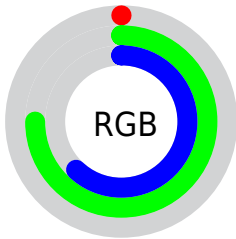
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 104, 191
Decimal	49055
CIELab	69.30, -47.80, 4.83
CIELCh	69, 48.048, 174.235
Yxy	39.7648, 0.2397, 0.3830
Android (android.graphics.Color)	4278239135 (0xFF00BF9F)
YUV	130.2430, 14.1772, -114.2231
Hunter-Lab	63.0593, -39.9078, 7.3101

# Details

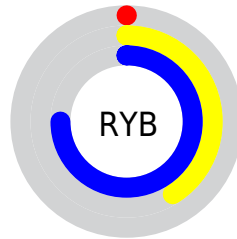
The Yxy color **39.7648, 0.2397, 0.3830** is a dark color, and the websafe version is hex **33CC99**. A complement of this color would be **11.1815, 0.6160, 0.3167**, and the grayscale version is **22.3921, 0.3127, 0.3290**.

A 20% lighter version of the original color is **74.6425, 0.2532, 0.3717**, and **18.6910, 0.2429, 0.3944** is the 20% darker color. If you saturate the color by 10%, you get **39.7685, 0.2397, 0.3830**, and if you desaturate by 10%, it is **40.0205, 0.2397, 0.3771**.

# Distribution



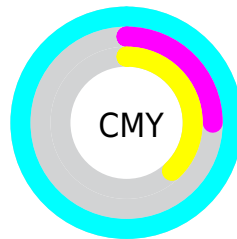
- Red (0%)
- Green (75%)
- Blue (62%)



- Red (0%)
- Yellow (41%)
- Blue (75%)



- Cyan (100%)
- Magenta (0%)
- Yellow (17%)
- Black (25%)




- Cyan (100%)
- Magenta (25%)
- Yellow (38%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 39.7648, 0.2397, 0.3830 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 39.7648, 0.2397, 0.3830 by changing the saturation by 10% instead.





 39.7648, 0.2397,  
0.3830


 39.7648, 0.2397,  
0.3830


345.1312, 0.2772,  
0.3548


 27.3552, 0.2301,  
0.3904


 74.8052, 0.2535,  
0.3724


 17.8402, 0.2176,  
0.4002


 98.2049, 0.2586,  
0.3686

 10.8353, 0.2009,  
0.4137


 126.0366, 0.2630,  
0.3653

 5.9562, 0.1773,  
0.4332

 158.6849, 0.2666,  
0.3626

 2.8185, 0.1422,  
0.4637

 196.5341, 0.2698,  
0.3602

 1.0377, 0.0000,  
0.5697

239.9686, 0.2726,

 0.0000, 0.0000,

0.3582

0.0000

289.3729, 0.2750,  
0.3564

■ 39.7648, 0.2397,  
0.3830

■ 39.7648, 0.2397,  
0.3830

■ 39.7685, 0.2397,  
0.3830

■ 40.0205, 0.2397,  
0.3771

■ 40.4123, 0.2412,  
0.3711

■ 40.9935, 0.2446,  
0.3651

■ 41.7891, 0.2499,  
0.3592

■ 42.8202, 0.2571,  
0.3534

■ 44.1055, 0.2659,  
0.3479

■ 45.6618, 0.2761,  
0.3426

■ 47.5043, 0.2875,  
0.3377

■ 49.6472, 0.2998,  
0.3331

# Harmonies

## Analogous

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



39.7648, 0.3010, 0.4433



39.7648, 0.2397, 0.3830



39.7648, 0.2006, 0.3088

# Triad

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



39.7648, 0.2397, 0.3830



39.7648, 0.2475, 0.2226



39.7648, 0.4528, 0.3820

# Complementary

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



39.7648, 0.2397, 0.3830



11.1815, 0.6160, 0.3167

# 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.



39.7648, 0.4384, 0.3290



39.7648, 0.2397, 0.3830



39.7648, 0.3117, 0.2424

# Square

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



39.7648, 0.2397, 0.3830



39.7648, 0.2054, 0.2249



39.7648, 0.3841, 0.2800



39.7648, 0.4254, 0.4304



# Rectangle

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



39.7648, 0.2397, 0.3830



39.7648, 0.1901, 0.2686



39.7648, 0.3841, 0.2800



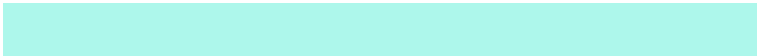
39.7648, 0.4530, 0.3644

# Sweetspot

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



39.7685, 0.2397, 0.3830



81.6303, 0.2756, 0.3429



37.6222, 0.3058, 0.5954



17.6528, 0.2711, 0.3451



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.



39.7685, 0.2397, 0.3830



71.1885, 0.2400, 0.3839



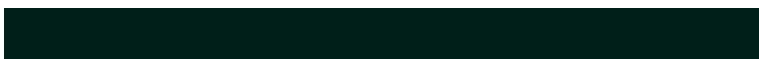
19.8662, 0.1950, 0.2219



10.7814, 0.3007, 0.3329



26.1435, 0.2395, 0.3822



1.0315, 0.2356, 0.3680



# Inverse Universe

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



11.1815, 0.6160, 0.3167



20.0009, 0.6189, 0.3183



14.3601, 0.5924, 0.3678



9.5617, 0.3263, 0.3252



7.3560, 0.6132, 0.3152

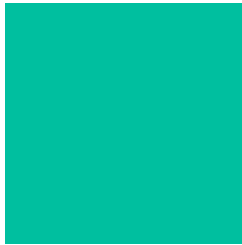


0.2964, 0.5528, 0.2819



# Previews

## White Background



This preview shows how the Yxy color 39.7648, 0.2397, 0.3830 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

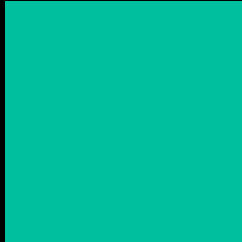
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 39.7648, 0.2397, 0.3830 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

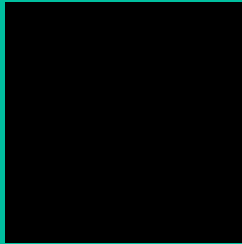
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 39.7648, 0.2397, 0.3830**

## Background



This preview shows how black text looks on a background with the Yxy color 39.7648, 0.2397, 0.3830.

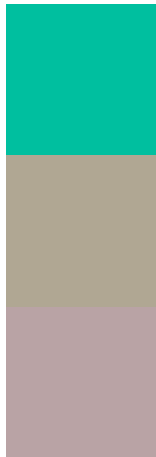


This preview shows how white text looks on a background with the Yxy color 39.7648, 0.2397, 0.3830.

# 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

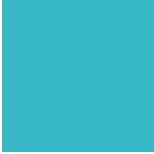
39.7648, 0.2397, 0.3830

### Protanopia

38.9741, 0.3389, 0.3571

### Deuteranopia

39.2253, 0.3320, 0.3264



## **Tritanopia**

39.6803, 0.2261, 0.3057

# Trichromacy



## Original Color

39.7648, 0.2397, 0.3830



## Protanomaly

36.7298, 0.2795, 0.3694



## Deuteranomaly

36.3830, 0.2750, 0.3447



## Tritanomaly

39.4008, 0.2293, 0.3320

# Monochromacy



## Original Color

39.7648, 0.2397, 0.3830



## Achromatopsia

22.3228, 0.3127, 0.3290



## Achromatomaly

26.2186, 0.2612, 0.3494

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 39.7648, 0.2397, 0.3830 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, 159)` looks like.

```
.text, #text, p{  
    color:rgb(0, 191, 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, 191, 159) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 191, 159) }
```

## Border

The CSS property to change the border of an element to Yxy 39.7648, 0.2397, 0.3830 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, 159) }
```

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

```
.border{ border-color:rgb(0, 191, 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, 191, 159)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 191, 159); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 191, 159);  
box-shadow:4px 4px 4px 4px rgb(0, 191,  
159) }
```



# Background

The CSS property to change the background color of an element to Yxy 39.7648, 0.2397, 0.3830 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, 159) }
```

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

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