

# Converting Colors

$Y_{xy}(39.8230, 0.2436, 0.3679)$

Have a look what the booklet for  
Yxy(39.8230, 0.2436, 0.3679)  
contains.

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# Color

**Yxy(39.8156, 0.2439, 0.3684)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33BDA5
RGB	51, 189, 165
RGB Percent	20%, 74%, 65%
CMY	0.7995, 0.2588, 0.3529
CMYK	0.73, 0.00, 0.13, 0.26
HSL	170°, 57%, 47%
HSV	170°, 73%, 74%
XYZ	26.3600, 39.8156, 41.9015
YIQ	145.0020, -74.5440, -36.7200

# Conversions

## Conversions Part 2

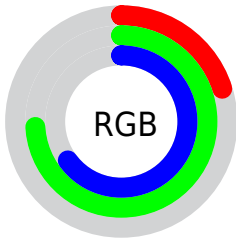
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 127, 189
Decimal	3390885
CIELab	69.34, -41.77, 1.66
CIELCh	69, 41.803, 177.724
Yxy	39.8156, 0.2439, 0.3684
Android (android.graphics.Color)	4281580965 (0xFF33BDA5)
YUV	145.0020, 9.8590, -82.4398
Hunter-Lab	63.0996, -35.8555, 4.7980

# Details

The Yxy color **39.8156, 0.2439, 0.3684** is a dark color, and the websafe version is hex **00CCCC**. A complement of this color would be **13.7059, 0.5183, 0.3030**, and the grayscale version is **28.3131, 0.3127, 0.3290**.

A 20% lighter version of the original color is **74.9304, 0.2569, 0.3609**, and **18.5202, 0.2389, 0.3799** is the 20% darker color. If you saturate the color by 10%, you get **39.3026, 0.2411, 0.3746**, and if you desaturate by 10%, it is **40.5343, 0.2486, 0.3622**.

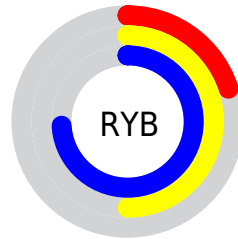
# Distribution



Red (20%)

Green (74%)

Blue (65%)



Red (20%)

Yellow (50%)

Blue (74%)

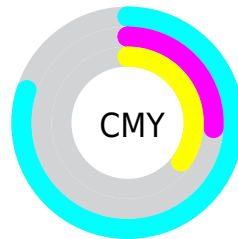


Cyan (73%)

Magenta (0%)

Yellow (13%)

Black (26%)



Cyan (80%)

Magenta (26%)


Yellow (35%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 39.8156, 0.2439, 0.3684 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 39.8156, 0.2439, 0.3684 by changing the saturation by 10% instead.




 39.8156, 0.2439,  
0.3684


 39.8156, 0.2439,  
0.3684

345.3457, 0.2790,  
0.3481

 27.3948, 0.2350,  
0.3736


 74.8826, 0.2568,  
0.3609

 17.8700, 0.2234,  
0.3804


 98.2977, 0.2616,  
0.3581


 10.8567, 0.2079,  
0.3896


 126.1462, 0.2656,  
0.3558

 5.9705, 0.1861,  
0.4028

 158.8127, 0.2691,  
0.3538

 2.8272, 0.1536,  
0.4227

 196.6815, 0.2721,  
0.3521

 1.0422, 0.0000,  
0.5078

240.1370, 0.2747,

 0.0000, 0.0000,

0.3506

0.0000

289.5636, 0.2770,  
0.3493

■ 39.8156, 0.2439,  
0.3684

■ 39.8156, 0.2439,  
0.3684

■ 39.3026, 0.2411,  
0.3746

■ 40.5343, 0.2486,  
0.3622

■ 38.9649, 0.2402,  
0.3808

■ 41.4757, 0.2552,  
0.3561

■ 38.7975, 0.2403,  
0.3852

■ 42.6602, 0.2635,  
0.3503

■ 44.1045, 0.2732,  
0.3447

■ 45.8239, 0.2843,  
0.3395

■ 47.8325, 0.2962,  
0.3347

■ 50.1436, 0.3089,  
0.3302

■ 52.7693, 0.3220,  
0.3262

■ 55.7213, 0.3352,  
0.3226

# Harmonies

## Analogous

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



39.8156, 0.2966, 0.4225



39.8156, 0.2439, 0.3684



39.8156, 0.2114, 0.3057

# Triad

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



39.8156, 0.2439, 0.3684



39.8156, 0.2614, 0.2356



39.8156, 0.4343, 0.3829

# Complementary

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



39.8156, 0.2439, 0.3684



13.7059, 0.5183, 0.3030

# 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.



39.8156, 0.4254, 0.3357



39.8156, 0.2439, 0.3684



39.8156, 0.3197, 0.2554

# Square

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



39.8156, 0.2439, 0.3684



39.8156, 0.2210, 0.2357



39.8156, 0.3817, 0.2908



39.8156, 0.4077, 0.4231



# Rectangle

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



39.8156, 0.2439, 0.3684



39.8156, 0.2035, 0.2718



39.8156, 0.3817, 0.2908



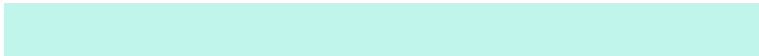
39.8156, 0.4356, 0.3674

# Sweetspot

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



39.8171, 0.2439, 0.3684



82.2763, 0.2850, 0.3392



38.1859, 0.3144, 0.5505



17.5014, 0.2819, 0.3406



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290



# Same Dimension

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



39.8171, 0.2439, 0.3684



69.9721, 0.2403, 0.3786



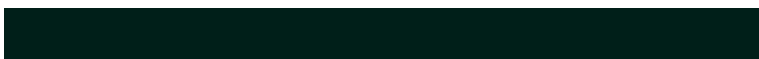
24.7344, 0.2131, 0.2542



10.7803, 0.3007, 0.3330



26.1159, 0.2401, 0.3844



1.0306, 0.2360, 0.3696



# Inverse Universe

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



13.7059, 0.5183, 0.3030



20.6771, 0.5833, 0.3089



19.2035, 0.5095, 0.3813



9.5627, 0.3262, 0.3250



7.3607, 0.6117, 0.3143



0.2968, 0.5501, 0.2804



# Previews

## White Background



This preview shows how the Yxy color 39.8156, 0.2439, 0.3684 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 39.8156, 0.2439, 0.3684 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

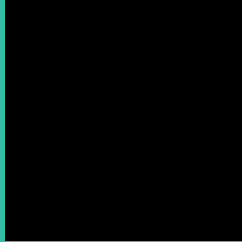
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

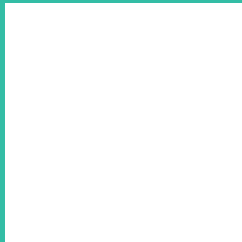
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 39.8156, 0.2439, 0.3684**

## **Background**



This preview shows how black text looks on a background with the Yxy color 39.8156, 0.2439, 0.3684.

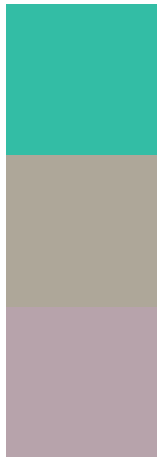


This preview shows how white text looks on a background with the Yxy color 39.8156, 0.2439, 0.3684.

# 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

39.8156, 0.2439, 0.3684

### Protanopia

38.9360, 0.3316, 0.3487

### Deuteranopia

39.2019, 0.3246, 0.3183



## Tritanopia

39.7066, 0.2309, 0.3059

# Trichromacy



## Original Color

39.8156, 0.2439, 0.3684



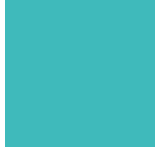
## Protanomaly

37.7614, 0.2880, 0.3569



## Deuteranomaly

37.5205, 0.2835, 0.3334



## Tritanomaly

39.7624, 0.2352, 0.3272

# Monochromacy



## Original Color

39.8156, 0.2439, 0.3684



## Achromatopsia

28.3149, 0.3127, 0.3290



## Achromatomaly

31.1362, 0.2759, 0.3440

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 39.8156, 0.2439, 0.3684 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(51, 189, 165)` looks like.

```
.text, #text, p{  
    color:rgb(51, 189, 165)  
}
```

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(51, 189, 165) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 189, 165) }
```

## Border

The CSS property to change the border of an element to Yxy 39.8156, 0.2439, 0.3684 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(51, 189, 165) }
```

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

```
.border{ border-color:rgb(51, 189, 165) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 189, 165)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(51, 189, 165); -webkit-box-shadow:4px 4px 4px 4px rgb(51, 189, 165); box-shadow:4px 4px 4px 4px rgb(51, 189, 165) }
```



# Background

The CSS property to change the background color of an element to Yxy 39.8156, 0.2439, 0.3684 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 189, 165) }
```

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

```
.background{ background-color: rgb(51, 189,  
165) }
```

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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