

# Converting Colors

$Y_{xy}(61.8953, 0.2253, 0.3818)$

Have a look what the booklet for  
Yxy(61.8953, 0.2253, 0.3818)  
contains.

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# Color

**Yxy(63.4939, 0.2390, 0.3803)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00EBC6
RGB	0, 235, 198
RGB Percent	0%, 92%, 78%
CMY	0.9981, 0.0784, 0.2236
CMYK	1.00, 0.00, 0.16, 0.08
HSL	171°, 100%, 46%
HSV	171°, 100%, 92%
XYZ	39.9028, 63.4939, 63.5607
YIQ	160.5170, -128.1830, -61.3270

# Conversions

## Conversions Part 2

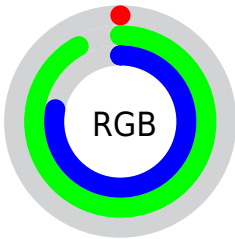
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 128, 235
Decimal	60358
CIELab	83.70, -55.36, 4.75
CIELCh	84, 55.561, 175.096
Yxy	63.4939, 0.2390, 0.3803
Android (android.graphics.Color)	4278250438 (0xFF00EBC6)
YUV	160.5170, 18.4791, -140.7734
Hunter-Lab	79.6831, -50.0581, 8.4844

# Details

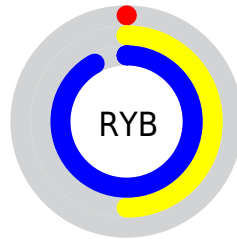
The Yxy color **63.4939, 0.2390, 0.3803** is a dark color, and the websafe version is hex **33FFCC**. The color can be described as middle washed cyan. A complement of this color would be **17.8098, 0.6199, 0.3190**, and the grayscale version is **35.4326, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.1847, 0.2420, 0.3288**, and **33.8544, 0.2419, 0.3908** is the 20% darker color. If you saturate the color by 10%, you get **63.4896, 0.2390, 0.3804**, and if you desaturate by 10%, it is **63.8606, 0.2389, 0.3747**.

# Distribution



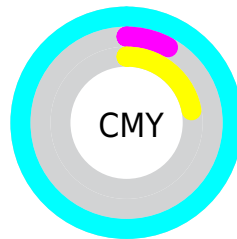
- Red (0%)
- Green (92%)
- Blue (78%)



- Red (0%)
- Yellow (50%)
- Blue (92%)



- Cyan (100%)
- Magenta (0%)
- Yellow (16%)
- Black (8%)




- Cyan (100%)
- Magenta (8%)
- Yellow (22%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 63.4939, 0.2390, 0.3803 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 63.4939, 0.2390, 0.3803 by changing the saturation by 10% instead.





 63.4939, 0.2390,  
0.3803

 63.4939, 0.2390,  
0.3803

437.3597, 0.2739,  
0.3556


 46.2409, 0.2309,  
0.3862

 109.8817, 0.2512,  
0.3715


 32.4360, 0.2208,  
0.3936


 139.7854, 0.2559,  
0.3682


 21.6947, 0.2080,  
0.4031


 174.6746, 0.2600,  
0.3653

 13.6327, 0.1911,  
0.4159

 214.9340, 0.2635,  
0.3628

 7.8657, 0.1682,  
0.4338

 260.9478, 0.2666,  
0.3607

 4.0091, 0.1355,  
0.4604

313.1004, 0.2693,

 1.6787, 0.0288,

0.3588

0.5356

371.7762, 0.2717,  
0.3571

■ 0.4098, 0.0000,  
0.7821

■ 0.0000, 0.0000,  
0.0000

■ 63.4939, 0.2390,  
0.3803

■ 63.4939, 0.2390,  
0.3803

■ 63.4896, 0.2390,  
0.3804

■ 63.8606, 0.2389,  
0.3747

■ 64.4601, 0.2403,  
0.3690

■ 65.3651, 0.2436,  
0.3634

■ 66.6177, 0.2490,  
0.3577

■ 68.2533, 0.2562,  
0.3522

■ 70.3029, 0.2651,  
0.3469

■ 72.7946, 0.2756,  
0.3419

■ 75.7536, 0.2872,  
0.3372

■ 79.2034, 0.2998,  
0.3329

# Harmonies

## Analogous

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



63.4939, 0.2993, 0.4408



63.4939, 0.2390, 0.3803



63.4939, 0.2010, 0.3072

# Triad

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



63.4939, 0.2390, 0.3803



63.4939, 0.2497, 0.2238



63.4939, 0.4512, 0.3832

# Complementary

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



63.4939, 0.2390, 0.3803



17.8098, 0.6199, 0.3190

# 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.



63.4939, 0.4381, 0.3306



63.4939, 0.2390, 0.3803



63.4939, 0.3138, 0.2440

# Square

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



63.4939, 0.2390, 0.3803



63.4939, 0.2073, 0.2255



63.4939, 0.3852, 0.2818



63.4939, 0.4231, 0.4307



# Rectangle

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



63.4939, 0.2390, 0.3803



63.4939, 0.1910, 0.2678



63.4939, 0.3852, 0.2818



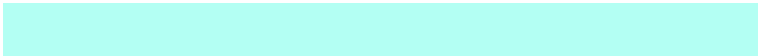
63.4939, 0.4517, 0.3657

# Sweetspot

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



63.4963, 0.2390, 0.3803



87.5105, 0.2752, 0.3421



59.8610, 0.3045, 0.5963



18.4464, 0.2706, 0.3442



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.



63.4963, 0.2390, 0.3803



76.4127, 0.2391, 0.3807



30.0581, 0.1930, 0.2146



17.0786, 0.3002, 0.3327



35.3503, 0.2388, 0.3795



2.7868, 0.2366, 0.3717



# Inverse Universe

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



17.8098, 0.6199, 0.3190



21.4150, 0.6212, 0.3196



23.2066, 0.5899, 0.3696



15.0928, 0.3268, 0.3253



9.9165, 0.6174, 0.3175

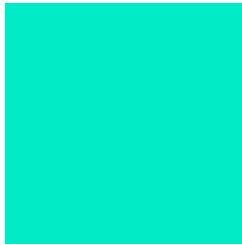


0.7904, 0.5829, 0.2985



# Previews

## White Background



This preview shows how the Yxy color 63.4939, 0.2390, 0.3803 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

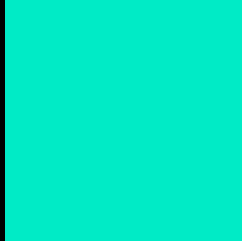
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 63.4939, 0.2390, 0.3803 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

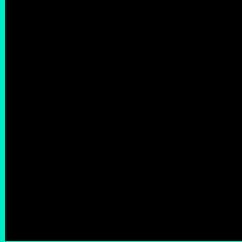
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

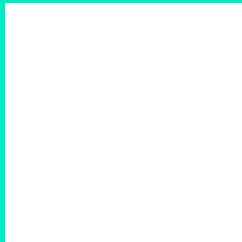
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 63.4939, 0.2390, 0.3803**

## **Background**



This preview shows how black text looks on a background with the Yxy color 63.4939, 0.2390, 0.3803.



This preview shows how white text looks on a background with the Yxy color 63.4939, 0.2390, 0.3803.

# 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

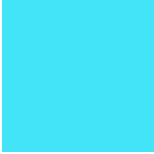
63.4939, 0.2390, 0.3803

### Protanopia

62.1604, 0.3372, 0.3556

### Deuteranopia

62.0957, 0.3296, 0.3224



## **Tritanopia**

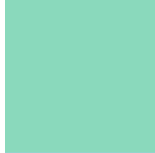
63.3955, 0.2252, 0.3048

# Trichromacy



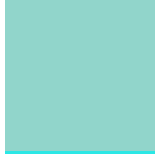
## Original Color

63.4939, 0.2390, 0.3803



## Protanomaly

58.6598, 0.2780, 0.3676



## Deuteranomaly

57.9200, 0.2730, 0.3419



## Tritanomaly

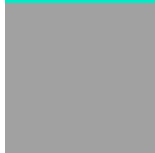
63.3226, 0.2288, 0.3314

# Monochromacy



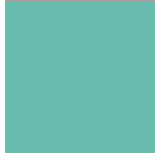
## Original Color

63.4939, 0.2390, 0.3803



## Achromatopsia

35.6400, 0.3127, 0.3290



## Achromatomaly

41.9060, 0.2610, 0.3504

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 63.4939, 0.2390, 0.3803 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, 235, 198)` looks like.

```
.text, #text, p{  
    color:rgb(0, 235, 198)  
}
```

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, 235, 198) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 235, 198) }
```

## Border

The CSS property to change the border of an element to Yxy 63.4939, 0.2390, 0.3803 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, 235, 198) }
```

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

```
.border{ border-color:rgb(0, 235, 198) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 235, 198)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 235, 198); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 235, 198);  
box-shadow:4px 4px 4px 4px rgb(0, 235,  
198) }
```



# Background

The CSS property to change the background color of an element to Yxy 63.4939, 0.2390, 0.3803 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 235, 198) }
```

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

```
.background{ background-color: rgb(0, 235,  
198) }
```

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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