

# Converting Colors

$Y_{xy}(63.1859, 0.2395, 0.3823)$

Have a look what the booklet for  
Yxy(63.1859, 0.2395, 0.3823)  
contains.

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# Color

**Yxy(63.4022, 0.2398, 0.3832)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00EBC4
RGB	0, 235, 196
RGB Percent	0%, 92%, 77%
CMY	0.9985, 0.0784, 0.2313
CMYK	1.00, 0.00, 0.17, 0.08
HSL	170°, 100%, 46%
HSV	170°, 100%, 92%
XYZ	39.6760, 63.4022, 62.3764
YIQ	160.2890, -127.5410, -61.9490

# Conversions

## Conversions Part 2

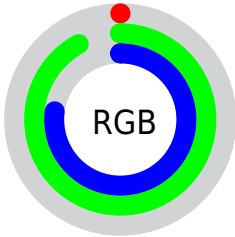
Format	Color
<a href="#">RYB</a>	<a href="#">0, 128, 235</a>
Decimal	<a href="#">60356</a>
CIELab	<a href="#">83.65, -55.86, 5.71</a>
CIELCh	<a href="#">84, 56.152, 174.162</a>
Yxy	<a href="#">63.4022, 0.2398, 0.3832</a>
Android (android.graphics.Color)	<a href="#">4278250436 (0xFF00EBC4)</a>
YUV	<a href="#">160.2890, 17.6055, -140.5735</a>
Hunter-Lab	<a href="#">79.6255, -50.4012, 9.2917</a>

# Details

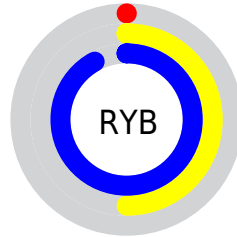
The Yxy color **63.4022, 0.2398, 0.3832** is a dark color, and the websafe version is hex **33FFCC**. The color can be described as middle washed cyan. A complement of this color would be **17.8191, 0.6183, 0.3181**, and the grayscale version is **35.3100, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.0566, 0.2428, 0.3311**, and **33.7938, 0.2430, 0.3947** is the 20% darker color. If you saturate the color by 10%, you get **63.3994, 0.2398, 0.3833**, and if you desaturate by 10%, it is **63.7751, 0.2396, 0.3773**.

# Distribution



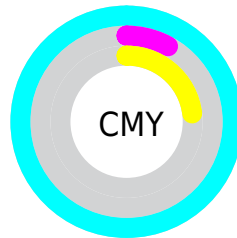
- Red (0%)
- Green (92%)
- Blue (77%)



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



- Cyan (100%)
- Magenta (0%)
- Yellow (17%)
- Black (8%)




- Cyan (100%)
- Magenta (8%)
- Yellow (23%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 63.4022, 0.2398, 0.3832 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 63.4022, 0.2398, 0.3832 by changing the saturation by 10% instead.




 63.4022, 0.2398,  
0.3832


 63.4022, 0.2398,  
0.3832


437.0277, 0.2744,  
0.3570


 46.1667, 0.2317,  
0.3895


 109.7496, 0.2519,  
0.3739


 32.3774, 0.2217,  
0.3974


 139.6302, 0.2566,  
0.3703

 21.6499, 0.2089,  
0.4076


 174.4946, 0.2606,  
0.3673

 13.5999, 0.1921,  
0.4214

 214.7272, 0.2641,  
0.3646

 7.8429, 0.1691,  
0.4408

 260.7124, 0.2672,  
0.3624

 3.9946, 0.1362,  
0.4699

312.8347, 0.2698,

 1.6705, 0.0242,

0.3603

0.5534

371.4783, 0.2722,  
0.3586

■ 0.4045, 0.0000,  
0.9077

■ 0.0000, 0.0000,  
0.0000

■ 63.4022, 0.2398,  
0.3832

■ 63.4022, 0.2398,  
0.3832


■ 63.3994, 0.2398,  
0.3833

■ 63.7751, 0.2396,  
0.3773


■ 64.3805, 0.2409,  
0.3713


■ 65.2916, 0.2442,  
0.3653

■ 66.5506, 0.2495,  
0.3593

 68.1928, 0.2566,  
0.3535

 70.2495, 0.2655,  
0.3479

 72.7484, 0.2758,  
0.3426

 75.7150, 0.2874,  
0.3377

 79.1728, 0.2998,  
0.3331

# Harmonies

## Analogous

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



63.4022, 0.3012, 0.4435



63.4022, 0.2398, 0.3832



63.4022, 0.2006, 0.3090

# Triad

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



63.4022, 0.2398, 0.3832



63.4022, 0.2473, 0.2225



63.4022, 0.4529, 0.3819

# Complementary

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



63.4022, 0.2398, 0.3832



17.8191, 0.6183, 0.3181

# 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.



63.4022, 0.4383, 0.3289



63.4022, 0.2398, 0.3832



63.4022, 0.3116, 0.2423

# Square

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



63.4022, 0.2398, 0.3832



63.4022, 0.2053, 0.2249



63.4022, 0.3839, 0.2799



63.4022, 0.4256, 0.4304



# Rectangle

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



63.4022, 0.2398, 0.3832



63.4022, 0.1900, 0.2687



63.4022, 0.3839, 0.2799



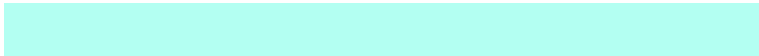
63.4022, 0.4530, 0.3643

# Sweetspot

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



63.4046, 0.2398, 0.3832



87.4723, 0.2755, 0.3428



59.8578, 0.3045, 0.5963



18.4372, 0.2710, 0.3450



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.



63.4046, 0.2398, 0.3832



76.3051, 0.2399, 0.3836



30.0438, 0.1930, 0.2145



17.0764, 0.3003, 0.3329



35.3013, 0.2395, 0.3823



2.7834, 0.2373, 0.3741



# Inverse Universe

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



17.8191, 0.6183, 0.3181



21.4299, 0.6195, 0.3186



23.1948, 0.5900, 0.3696



15.0949, 0.3267, 0.3251



9.9240, 0.6155, 0.3165

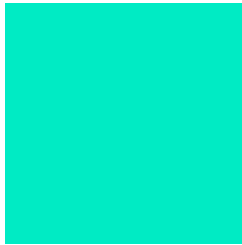


0.7914, 0.5803, 0.2970



# Previews

## White Background



This preview shows how the Yxy color 63.4022, 0.2398, 0.3832 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

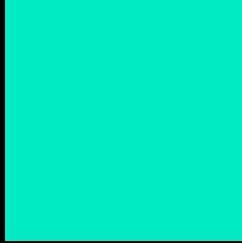
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 63.4022, 0.2398, 0.3832 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

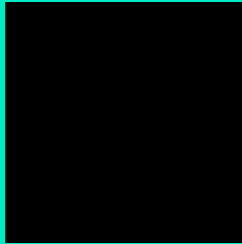
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 63.4022, 0.2398, 0.3832**

## **Background**



This preview shows how black text looks on a background with the Yxy color 63.4022, 0.2398, 0.3832.



This preview shows how white text looks on a background with the Yxy color 63.4022, 0.2398, 0.3832.

# 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

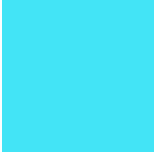
63.4022, 0.2398, 0.3832

### Protanopia

62.0777, 0.3387, 0.3580

### Deuteranopia

62.1622, 0.3319, 0.3246



## Tritanopia

63.3339, 0.2256, 0.3060

# Trichromacy



## Original Color

63.4022, 0.2398, 0.3832



## Protanomaly

58.5742, 0.2792, 0.3703



## Deuteranomaly

57.8253, 0.2742, 0.3445



## Tritanomaly

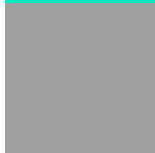
63.2669, 0.2292, 0.3327

# Monochromacy



## Original Color

63.4022, 0.2398, 0.3832



## Achromatopsia

35.1533, 0.3127, 0.3290



## Achromatomaly

41.3826, 0.2608, 0.3505

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 63.4022, 0.2398, 0.3832 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, 196)` looks like.

```
.text, #text, p{  
    color:rgb(0, 235, 196)  
}
```

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, 196) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 235, 196) }
```

## Border

The CSS property to change the border of an element to Yxy 63.4022, 0.2398, 0.3832 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, 196) }
```

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

```
.border{ border-color:rgb(0, 235, 196) }
```

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, 196)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 235, 196); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 235, 196);  
box-shadow:4px 4px 4px 4px rgb(0, 235,  
196) }
```



# Background

The CSS property to change the background color of an element to Yxy 63.4022, 0.2398, 0.3832 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, 196) }
```

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

```
.background{ background-color: rgb(0, 235,  
196) }
```

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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