

# Converting Colors

$Y_{xy}(42.7938, 0.1661, 0.3334)$

Have a look what the booklet for  
Yxy(42.7938, 0.1661, 0.3334)  
contains.

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# Color

**Yxy(48.9853, 0.2259, 0.3332)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00CFCC
RGB	0, 207, 204
RGB Percent	0%, 81%, 80%
CMY	0.9995, 0.1882, 0.2001
CMYK	1.00, 0.00, 0.01, 0.19
HSL	179°, 100%, 41%
HSV	179°, 100%, 81%
XYZ	33.2106, 48.9853, 64.8188
YIQ	144.7650, -122.4090, -44.8170

# Conversions

## Conversions Part 2

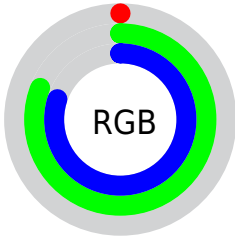
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 104, 207
Decimal	53196
CIELab	75.44, -41.98, -10.59
CIELCh	75, 43.294, 194.154
Yxy	48.9853, 0.2259, 0.3332
Android (android.graphics.Color)	4278243276 (0xFF00CFCC)
YUV	144.7650, 29.2029, -126.9589
Hunter-Lab	69.9895, -37.7818, -5.9171

# Details

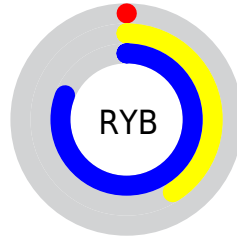
The Yxy color **48.9853, 0.2259, 0.3332** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle washed cyan. A complement of this color would be **13.2754, 0.6386, 0.3292**, and the grayscale version is **28.1463, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.8658, 0.2405, 0.3288**, and **24.6585, 0.2257, 0.3327** is the 20% darker color. If you saturate the color by 10%, you get **48.9863, 0.2259, 0.3332**, and if you desaturate by 10%, it is **49.1583, 0.2271, 0.3327**.

# Distribution



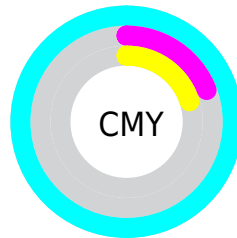
- Red (0%)
- Green (81%)
- Blue (80%)



- Red (0%)
- Yellow (41%)
- Blue (81%)



- Cyan (100%)
- Magenta (0%)
- Yellow (1%)
- Black (19%)




- Cyan (100%)
- Magenta (19%)
- Yellow (20%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.9853, 0.2259, 0.3332 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 48.9853, 0.2259, 0.3332 by changing the saturation by 10% instead.




 48.9853, 0.2259,  
0.3332


 48.9853, 0.2259,  
0.3332


382.6844, 0.2677,  
0.3324

 34.6078, 0.2160,  
0.3330


 88.6696, 0.2407,  
0.3332

 23.3609, 0.2037,  
0.3326


 114.7452, 0.2464,  
0.3331

 14.8602, 0.1878,  
0.3316


 145.4891, 0.2512,  
0.3330

 8.7214, 0.1669,  
0.3297

 181.2854, 0.2554,  
0.3329

 4.5599, 0.1384,  
0.3254

 222.5187, 0.2591,  
0.3327

 1.9914, 0.0953,  
0.3164

269.5734, 0.2623,

 0.6025, 0.0000,

0.3326

0.2916

322.8339, 0.2652,  
0.3325

■ 0.0000, 0.0000,  
0.0000

■ 48.9853, 0.2259,  
0.3332

■ 48.9853, 0.2259,  
0.3332

■ 48.9863, 0.2259,  
0.3332

■ 49.1583, 0.2271,  
0.3327

■ 49.4976, 0.2297,  
0.3323

■ 50.0612, 0.2341,  
0.3318

■ 50.8799, 0.2404,  
0.3314

■ 51.9795, 0.2486,  
0.3309

■ 53.3828, 0.2587,  
0.3305

■ 55.1100, 0.2704,  
0.3301

■ 57.1800, 0.2835,  
0.3297

■ 59.6098, 0.2977,  
0.3293

# Harmonies

## Analogous

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



48.9853, 0.2675, 0.3934



48.9853, 0.2259, 0.3332



48.9853, 0.2073, 0.2790

# Triad

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



48.9853, 0.2259, 0.3332



48.9853, 0.2925, 0.2467



48.9853, 0.4201, 0.4045

# Complementary

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



48.9853, 0.2259, 0.3332



13.2754, 0.6386, 0.3292

# 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.



48.9853, 0.4309, 0.3611



48.9853, 0.2259, 0.3332



48.9853, 0.3532, 0.2749

# Square

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



48.9853, 0.2259, 0.3332



48.9853, 0.2427, 0.2359



48.9853, 0.4060, 0.3153



48.9853, 0.3798, 0.4336



# Rectangle

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



48.9853, 0.2259, 0.3332



48.9853, 0.2086, 0.2543



48.9853, 0.4060, 0.3153



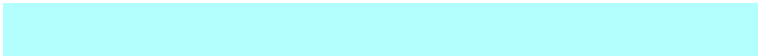
48.9853, 0.4275, 0.3909

# Sweetspot

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



48.9871, 0.2259, 0.3332



88.1924, 0.2699, 0.3301



44.6509, 0.3003, 0.5997



18.6120, 0.2647, 0.3303



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.



48.9871, 0.2259, 0.3332



78.5023, 0.2259, 0.3333



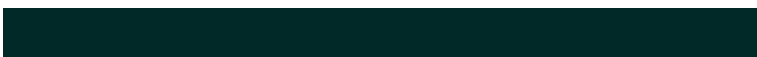
15.0229, 0.1784, 0.1622



13.4040, 0.2985, 0.3293



30.8635, 0.2259, 0.3331



1.7267, 0.2256, 0.3323



# Inverse Universe

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



13.2754, 0.6386, 0.3292



21.2682, 0.6390, 0.3294



22.4020, 0.5466, 0.4041



11.8110, 0.3288, 0.3287



8.3632, 0.6383, 0.3290

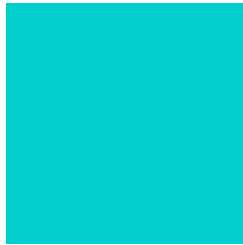


0.4686, 0.6327, 0.3259



# Previews

## White Background



This preview shows how the Yxy color 48.9853, 0.2259, 0.3332 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 48.9853, 0.2259, 0.3332 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

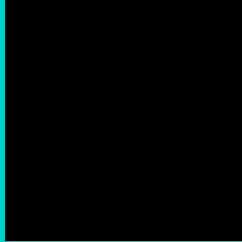
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

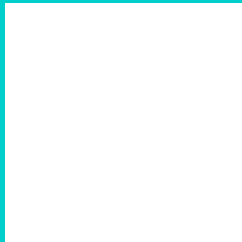
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 48.9853, 0.2259, 0.3332**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.9853, 0.2259, 0.3332.



This preview shows how white text looks on a background with the Yxy color 48.9853, 0.2259, 0.3332.

# 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

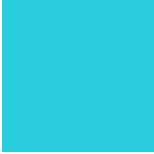
48.9853, 0.2259, 0.3332

### Protanopia

48.0238, 0.3098, 0.3201

### Deuteranopia

48.2428, 0.2979, 0.2922



## Tritanopia

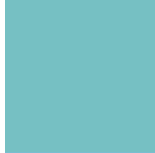
48.8573, 0.2215, 0.3047

# Trichromacy



## Original Color

48.9853, 0.2259, 0.3332



## Protanomaly

45.4910, 0.2581, 0.3246



## Deuteranomaly

45.4459, 0.2519, 0.3038



## Tritanomaly

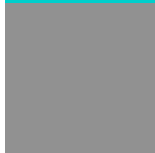
48.7756, 0.2223, 0.3144

# Monochromacy



## Original Color

48.9853, 0.2259, 0.3332



## Achromatopsia

28.3149, 0.3127, 0.3290



## Achromatomaly

33.0337, 0.2544, 0.3322

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.9853, 0.2259, 0.3332 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, 207, 204)` looks like.

```
.text, #text, p{  
    color:rgb(0, 207, 204)  
}
```

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, 207, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 207, 204) }
```

## Border

The CSS property to change the border of an element to Yxy 48.9853, 0.2259, 0.3332 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, 207, 204) }
```

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

```
.border{ border-color:rgb(0, 207, 204) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 207, 204)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 207, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 207, 204);  
box-shadow:4px 4px 4px 4px rgb(0, 207,  
204) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.9853, 0.2259, 0.3332 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 207, 204) }
```

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

```
.background{ background-color: rgb(0, 207,  
204) }
```

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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