

# Converting Colors

$Y_{xy}(51.6423, 0.2248, 0.3286)$

Have a look what the booklet for  
Yxy(51.6423, 0.2248, 0.3286)  
contains.

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# Color

**Yxy(51.8662, 0.2249, 0.3287)**

# Conversions

## Conversions Part 1

Format	Color
Hex	05D4D4
RGB	5, 212, 212
RGB Percent	2%, 83%, 83%
CMY	0.9805, 0.1687, 0.1686
CMYK	0.98, 0.00, 0.00, 0.17
HSL	180°, 95%, 43%
HSV	180°, 98%, 83%
XYZ	35.4874, 51.8662, 70.4383
YIQ	150.1070, -123.3720, -43.8840

# Conversions

## Conversions Part 2

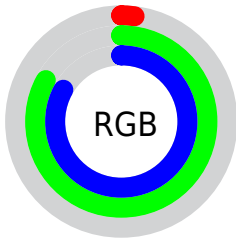
Format	Color
<a href="#">RYB</a>	<a href="#">5, 109, 212</a>
Decimal	<a href="#">382164</a>
CIELab	<a href="#">77.20, -41.69, -12.28</a>
CIELCh	<a href="#">77, 43.461, 196.416</a>
Yxy	<a href="#">51.8662, 0.2249, 0.3287</a>
Android (android.graphics.Color)	<a href="#">4278572244 (0xFF05D4D4)</a>
YUV	<a href="#">150.1070, 30.5132, -127.2588</a>
Hunter-Lab	<a href="#">72.0182, -38.0749, -7.5766</a>

# Details

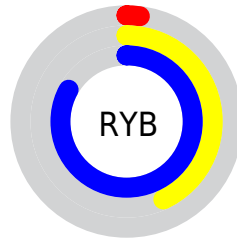
The Yxy color **51.8662, 0.2249, 0.3287** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle washed cyan. A complement of this color would be **14.1192, 0.6366, 0.3300**, and the grayscale version is **30.4497, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.0550, 0.2414, 0.3288**, and **26.5483, 0.2247, 0.3287** is the 20% darker color. If you saturate the color by 10%, you get **51.8356, 0.2246, 0.3287**, and if you desaturate by 10%, it is **52.0594, 0.2264, 0.3287**.

# Distribution



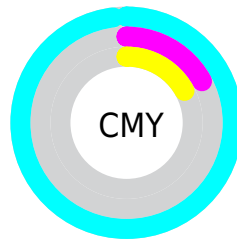
- Red (2%)
- Green (83%)
- Blue (83%)



- Red (2%)
- Yellow (43%)
- Blue (83%)



- Cyan (98%)
- Magenta (0%)
- Yellow (0%)
- Black (17%)




- Cyan (98%)
- Magenta (17%)
- Yellow (17%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 51.8662, 0.2249, 0.3287 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 51.8662, 0.2249, 0.3287 by changing the saturation by 10% instead.





 51.8662, 0.2249,  
0.3287


 51.8662, 0.2249,  
0.3287


393.9198, 0.2667,  
0.3302

 36.8984, 0.2152,  
0.3280


 92.9339, 0.2396,  
0.3295


 25.1289, 0.2030,  
0.3268


 119.8026, 0.2452,  
0.3298


 16.1731, 0.1876,  
0.3249


 151.4071, 0.2501,  
0.3299

 9.6467, 0.1675,  
0.3217

 188.1317, 0.2543,  
0.3300

 5.1654, 0.1404,  
0.3159

 230.3609, 0.2580,  
0.3301

 2.3446, 0.1027,  
0.3041

278.4791, 0.2612,

 0.7972, 0.0000,

0.3301

0.2907

332.8706, 0.2641,  
0.3302

■ 0.0000, 0.0000,  
0.0000

■ 51.8662, 0.2249,  
0.3287

■ 51.8662, 0.2249,  
0.3287

■ 51.8356, 0.2246,  
0.3287

■ 52.0594, 0.2264,  
0.3287

■ 52.4523, 0.2295,  
0.3287

■ 53.0903, 0.2344,  
0.3287

■ 54.0047, 0.2412,  
0.3288

■ 55.2219, 0.2500,  
0.3288

■ 56.7654, 0.2605,  
0.3288

■ 58.6565, 0.2727,  
0.3289

■ 60.9144, 0.2863,  
0.3289

■ 63.5571, 0.3010,  
0.3290

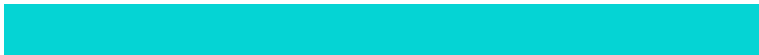
# Harmonies

## Analogous

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



51.8662, 0.2645, 0.3883



51.8662, 0.2249, 0.3287



51.8662, 0.2083, 0.2766

# Triad

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



51.8662, 0.2249, 0.3287



51.8662, 0.2972, 0.2494



51.8662, 0.4164, 0.4064

# Complementary

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



51.8662, 0.2249, 0.3287



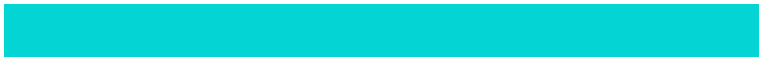
14.1192, 0.6366, 0.3300

# 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.



51.8662, 0.4296, 0.3642



51.8662, 0.2249, 0.3287



51.8662, 0.3571, 0.2783

# Square

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



51.8662, 0.2249, 0.3287



51.8662, 0.2468, 0.2372



51.8662, 0.4076, 0.3189



51.8662, 0.3752, 0.4332



# Rectangle

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



51.8662, 0.2249, 0.3287



51.8662, 0.2108, 0.2533



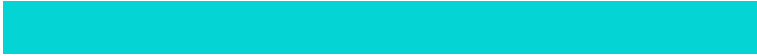
51.8662, 0.4076, 0.3189



51.8662, 0.4245, 0.3933

# Sweetspot

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



51.8681, 0.2249, 0.3287



88.5636, 0.2706, 0.3289



47.1384, 0.3001, 0.5984



18.6854, 0.2653, 0.3288



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.



51.8681, 0.2249, 0.3287



78.7185, 0.2246, 0.3287



15.6172, 0.1783, 0.1604



14.1076, 0.2983, 0.3290



31.9952, 0.2246, 0.3287



1.9299, 0.2246, 0.3287



# Inverse Universe

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



18.8606, 0.3209, 0.1548



28.4778, 0.3210, 0.1542



24.8412, 0.5374, 0.4095



12.6327, 0.3138, 0.3060



11.5748, 0.3210, 0.1542

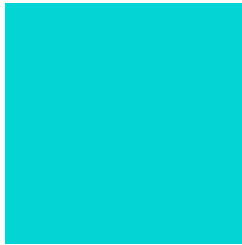


0.6981, 0.3209, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 51.8662, 0.2249, 0.3287 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

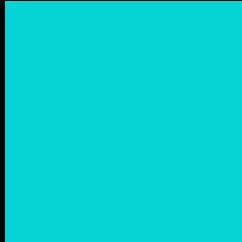
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 51.8662, 0.2249, 0.3287 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

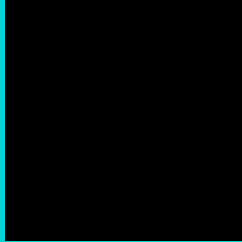
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

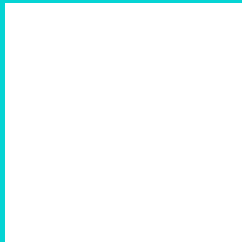
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 51.8662, 0.2249, 0.3287**

## **Background**



This preview shows how black text looks on a background with the Yxy color 51.8662, 0.2249, 0.3287.



This preview shows how white text looks on a background with the Yxy color 51.8662, 0.2249, 0.3287.

# 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

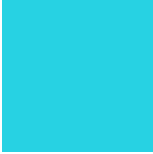
51.8727, 0.2249, 0.3287

### Protanopia

50.9448, 0.3075, 0.3178

### Deuteranopia

50.8123, 0.2953, 0.2883



## **Tritanopia**

52.0706, 0.2213, 0.3053

# Trichromacy



## Original Color

51.8727, 0.2249, 0.3287



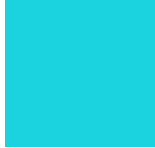
## Protanomaly

48.4077, 0.2580, 0.3219



## Deuteranomaly

47.9014, 0.2507, 0.2991



## Tritanomaly

52.0955, 0.2222, 0.3134

# Monochromacy



## Original Color

51.8727, 0.2249, 0.3287



## Achromatopsia

30.4987, 0.3127, 0.3290



## Achromatomaly

35.4457, 0.2543, 0.3288

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 51.8662, 0.2249, 0.3287 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(5, 212, 212)` looks like.

```
.text, #text, p{  
    color:rgb(5, 212, 212)  
}
```

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(5, 212, 212) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(5, 212, 212) }
```

## Border

The CSS property to change the border of an element to Yxy 51.8662, 0.2249, 0.3287 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(5, 212, 212) }
```

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

```
.border{ border-color:rgb(5, 212, 212) }
```

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

Here you see how a box with a 4 pixel `rgb(5, 212, 212)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(5, 212, 212); -webkit-box-  
shadow:4px 4px 4px 4px rgb(5, 212, 212);  
box-shadow:4px 4px 4px 4px rgb(5, 212,  
212) }
```



# Background

The CSS property to change the background color of an element to Yxy 51.8662, 0.2249, 0.3287 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(5, 212, 212) }
```

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

```
.background{ background-color: rgb(5, 212,  
212) }
```

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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