

# Converting Colors

$Y_{xy}(47.3636, 0.2205, 0.3137)$

Have a look what the booklet for  
Yxy(47.3636, 0.2205, 0.3137)  
contains.

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# Color

**Yxy(47.5160, 0.2206, 0.3142)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00CBD5
RGB	0, 203, 213
RGB Percent	0%, 80%, 84%
CMY	1.0000, 0.2039, 0.1648
CMYK	1.00, 0.05, 0.00, 0.16
HSL	183°, 100%, 42%
HSV	183°, 100%, 84%
XYZ	33.3610, 47.5160, 70.3515
YIQ	143.4430, -124.1980, -39.9260

# Conversions

## Conversions Part 2

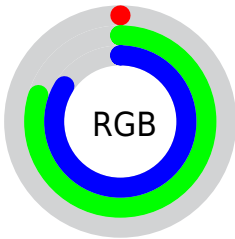
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 104, 213
Decimal	52181
CIELab	74.52, -37.47, -16.84
CIELCh	75, 41.077, 204.196
Yxy	47.5160, 0.2206, 0.3142
Android (android.graphics.Color)	4278242261 (0xFF00CBD5)
YUV	143.4430, 34.2916, -125.7995
Hunter-Lab	68.9319, -34.2419, -12.2588

# Details

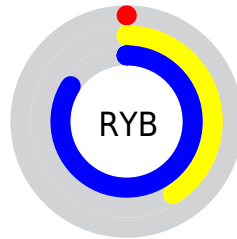
The Yxy color **47.5160, 0.2206, 0.3142** is a dark color, and the websafe version is hex **33CCCC**. The color can be described as middle washed cyan. A complement of this color would be **14.3600, 0.6372, 0.3322**, and the grayscale version is **27.5534, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.9281, 0.2408, 0.3288**, and **23.6484, 0.2193, 0.3094** is the 20% darker color. If you saturate the color by 10%, you get **47.5197, 0.2206, 0.3142**, and if you desaturate by 10%, it is **48.1550, 0.2224, 0.3157**.

# Distribution



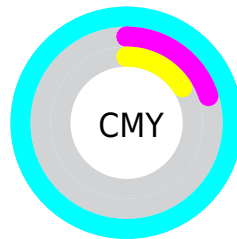
- Red (0%)
- Green (80%)
- Blue (84%)



- Red (0%)
- Yellow (41%)
- Blue (84%)



- Cyan (100%)
- Magenta (5%)
- Yellow (0%)
- Black (16%)




- Cyan (100%)
- Magenta (20%)
- Yellow (16%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.5160, 0.2206, 0.3142 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 47.5160, 0.2206, 0.3142 by changing the saturation by 10% instead.





 47.5160, 0.2206,  
0.3142

 47.5160, 0.2206,  
0.3142

376.8704, 0.2648,  
0.3231


 33.4438, 0.2102,  
0.3116


 86.4833, 0.2362,  
0.3178

 22.4666, 0.1973,  
0.3080


 112.1472, 0.2422,  
0.3190

 14.2002, 0.1808,  
0.3028


 142.4438, 0.2473,  
0.3200

 8.2600, 0.1591,  
0.2950

 177.7574, 0.2518,  
0.3208

 4.2618, 0.1301,  
0.2824

 218.4725, 0.2557,  
0.3216

 1.8210, 0.0877,  
0.2604

264.9734, 0.2591,

 0.5002, 0.0000,

0.3222

0.2052

317.6446, 0.2621,  
0.3227

■ 0.0000, 0.0000,  
0.0000

■ 47.5160, 0.2206,  
0.3142

■ 47.5160, 0.2206,  
0.3142

■ 47.5197, 0.2206,  
0.3142

■ 48.1550, 0.2224,  
0.3157

■ 48.9728, 0.2256,  
0.3173

■ 50.0331, 0.2306,  
0.3189

■ 51.3687, 0.2376,  
0.3205

■ 53.0075, 0.2464,  
0.3220

■ 54.9738, 0.2571,  
0.3236

■ 57.2897, 0.2693,  
0.3251

■ 59.9749, 0.2828,  
0.3265

■ 63.0481, 0.2974,  
0.3278

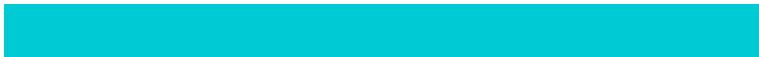
# Harmonies

## Analogous

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



47.5160, 0.2539, 0.3723



47.5160, 0.2206, 0.3142



47.5160, 0.2105, 0.2680

# Triad

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



47.5160, 0.2206, 0.3142



47.5160, 0.3125, 0.2572



47.5160, 0.4056, 0.4134

# Complementary

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



47.5160, 0.2206, 0.3142



14.3600, 0.6372, 0.3322

# 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.



47.5160, 0.4264, 0.3750



47.5160, 0.2206, 0.3142



47.5160, 0.3704, 0.2891

# Square

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



47.5160, 0.2206, 0.3142



47.5160, 0.2596, 0.2407



47.5160, 0.4138, 0.3306



47.5160, 0.3604, 0.4328



# Rectangle

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



47.5160, 0.2206, 0.3142



47.5160, 0.2170, 0.2491



47.5160, 0.4138, 0.3306



47.5160, 0.4158, 0.4019

# Sweetspot

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



47.5197, 0.2206, 0.3142



86.0000, 0.2689, 0.3250



47.5953, 0.2995, 0.5982



18.0775, 0.2635, 0.3244



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.



47.5197, 0.2206, 0.3142



71.3569, 0.2206, 0.3141



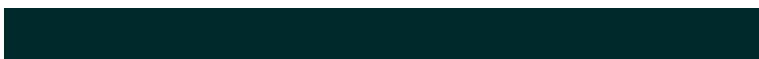
13.8013, 0.1737, 0.1452



14.0035, 0.2983, 0.3279



29.0757, 0.2207, 0.3144



1.7851, 0.2214, 0.3171



# Inverse Universe

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



18.4558, 0.3331, 0.1609



27.7347, 0.3332, 0.1609



26.0860, 0.5322, 0.4156



12.6222, 0.3145, 0.3071



11.2801, 0.3329, 0.1608

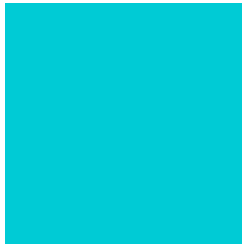


0.6835, 0.3307, 0.1595



# Previews

## White Background



This preview shows how the Yxy color 47.5160, 0.2206, 0.3142 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

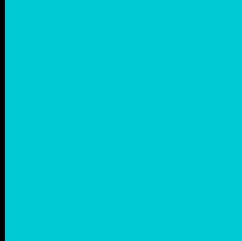
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.5160, 0.2206, 0.3142 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

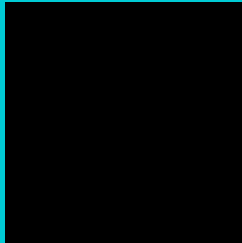
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 47.5160, 0.2206, 0.3142**

## **Background**



This preview shows how black text looks on a background with the Yxy color 47.5160, 0.2206, 0.3142.



This preview shows how white text looks on a background with the Yxy color 47.5160, 0.2206, 0.3142.

# 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

47.5160, 0.2206, 0.3142

### Protanopia

46.8746, 0.2980, 0.3060

### Deuteranopia

46.9003, 0.2850, 0.2784



## Tritanopia

47.5497, 0.2195, 0.3044

# Trichromacy



## Original Color

47.5160, 0.2206, 0.3142



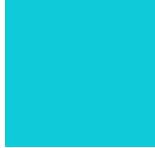
## Protanomaly

44.3997, 0.2505, 0.3076



## Deuteranomaly

44.2634, 0.2435, 0.2875



## Tritanomaly

47.3524, 0.2195, 0.3071

# Monochromacy



## Original Color

47.5160, 0.2206, 0.3142



## Achromatopsia

27.4677, 0.3127, 0.3290



## Achromatomaly

31.9616, 0.2516, 0.3238

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  47.5160, 0.2206, 0.3142 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, 203, 213)` looks like.

```
.text, #text, p{  
    color:rgb(0, 203, 213)  
}
```

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, 203, 213) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 203, 213) }
```

## Border

The CSS property to change the border of an element to Yxy 47.5160, 0.2206, 0.3142 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, 203, 213) }
```

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

```
.border{ border-color:rgb(0, 203, 213) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 203, 213)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 203, 213); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 203, 213);  
box-shadow:4px 4px 4px 4px rgb(0, 203,  
213) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.5160, 0.2206, 0.3142 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 203, 213) }
```

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

```
.background{ background-color: rgb(0, 203,  
213) }
```

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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