

# Converting Colors

$Y_{xy}(47.6260, 0.2158, 0.2969)$

Have a look what the booklet for  
Yxy(47.6260, 0.2158, 0.2969)  
contains.

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# Color

**Yxy(47.6229, 0.2160, 0.2975)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00CAE0
RGB	0, 202, 224
RGB Percent	0%, 79%, 88%
CMY	0.9983, 0.2078, 0.1216
CMYK	1.00, 0.10, 0.00, 0.12
HSL	186°, 100%, 44%
HSV	186°, 100%, 88%
XYZ	34.5766, 47.6229, 77.8774
YIQ	144.1100, -127.4540, -35.9820

# Conversions

## Conversions Part 2

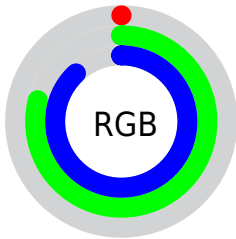
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 106, 224
Decimal	51936
CIELab	74.59, -33.53, -22.68
CIELCh	75, 40.476, 214.073
Yxy	47.6229, 0.2160, 0.2975
Android (android.graphics.Color)	4278242016 (0xFF00CAE0)
YUV	144.1100, 39.3858, -126.3845
Hunter-Lab	69.0093, -31.3302, -18.6026

# Details

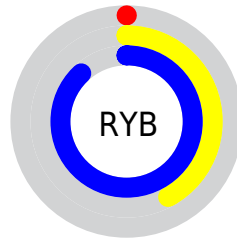
The Yxy color **47.6229, 0.2160, 0.2975** is a dark color, and the websafe version is hex **33CCCC**. The color can be described as middle washed cyan. A complement of this color would be **16.4356, 0.6331, 0.3353**, and the grayscale version is **27.8684, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.9912, 0.2411, 0.3288**, and **23.7320, 0.2132, 0.2876** is the 20% darker color. If you saturate the color by 10%, you get **47.6014, 0.2160, 0.2974**, and if you desaturate by 10%, it is **48.8431, 0.2183, 0.3008**.

# Distribution



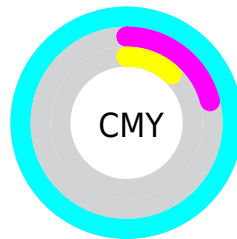
- Red (0%)
- Green (79%)
- Blue (88%)



- Red (0%)
- Yellow (42%)
- Blue (88%)



- Cyan (100%)
- Magenta (10%)
- Yellow (0%)
- Black (12%)



- Cyan (100%)
- Magenta (21%)
- Yellow (12%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.6229, 0.2160, 0.2975 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 47.6229, 0.2160, 0.2975 by changing the saturation by 10% instead.




 47.6229, 0.2160,  
0.2975

 47.6229, 0.2160,  
0.2975


377.2954, 0.2621,  
0.3147


 33.5284, 0.2053,  
0.2929


 86.6427, 0.2322,  
0.3040


 22.5315, 0.1920,  
0.2867


 112.3367, 0.2384,  
0.3064


 14.2480, 0.1752,  
0.2784


 142.6660, 0.2438,  
0.3084

 8.2933, 0.1534,  
0.2664

 178.0150, 0.2484,  
0.3101

 4.2832, 0.1246,  
0.2482

 218.7680, 0.2525,  
0.3115

 1.8332, 0.0854,  
0.2186

265.3095, 0.2561,

 0.5077, 0.0000,

0.3127

0.1593

318.0238, 0.2593,  
0.3138

■ 0.0000, 0.0000,  
0.0000

■ 47.6229, 0.2160,  
0.2975

■ 47.6229, 0.2160,  
0.2975

■ 47.6014, 0.2160,  
0.2974

■ 48.8431, 0.2183,  
0.3008

■ 50.2820, 0.2221,  
0.3042

■ 52.0054, 0.2278,  
0.3077

■ 54.0505, 0.2355,  
0.3111

■ 56.4490, 0.2450,  
0.3144

■ 59.2284, 0.2563,  
0.3177

■ 62.4136, 0.2690,  
0.3208

■ 66.0270, 0.2829,  
0.3238

■ 70.0898, 0.2976,  
0.3265

# Harmonies

## Analogous

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



47.6229, 0.2416, 0.3527



47.6229, 0.2160, 0.2975



47.6229, 0.2138, 0.2585

# Triad

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



47.6229, 0.2160, 0.2975



47.6229, 0.3317, 0.2671



47.6229, 0.3917, 0.4213

# Complementary

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



47.6229, 0.2160, 0.2975



16.4356, 0.6331, 0.3353

# 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.



47.6229, 0.4213, 0.3881



47.6229, 0.2160, 0.2975



47.6229, 0.3861, 0.3024

# Square

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



47.6229, 0.2160, 0.2975



47.6229, 0.2761, 0.2453



47.6229, 0.4201, 0.3452



47.6229, 0.3421, 0.4307

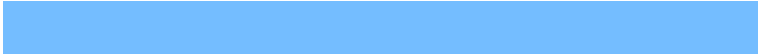


# Rectangle

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



47.6229, 0.2160, 0.2975



47.6229, 0.2252, 0.2447



47.6229, 0.4201, 0.3452



47.6229, 0.4044, 0.4121

# Sweetspot

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



47.6246, 0.2160, 0.2975



83.5579, 0.2684, 0.3207



53.3520, 0.2987, 0.5952



17.4838, 0.2629, 0.3194



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.



47.6246, 0.2160, 0.2975



63.7710, 0.2159, 0.2972



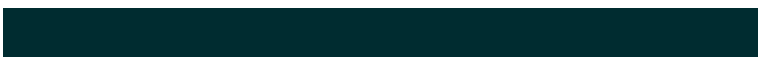
13.3153, 0.1693, 0.1294



15.3298, 0.2982, 0.3266



27.8077, 0.2161, 0.2980



1.9952, 0.2175, 0.3031



# Inverse Universe

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



20.1183, 0.3476, 0.1689



26.9689, 0.3479, 0.1690



32.0352, 0.5176, 0.4270



13.9112, 0.3153, 0.3081



11.7152, 0.3472, 0.1686

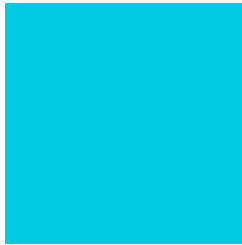


0.8189, 0.3427, 0.1661



# Previews

## White Background



This preview shows how the Yxy color 47.6229, 0.2160, 0.2975 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

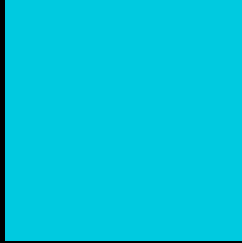
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.6229, 0.2160, 0.2975 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

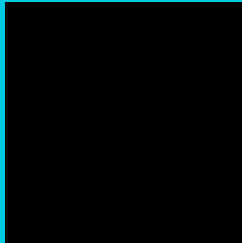
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 47.6229, 0.2160, 0.2975**

## **Background**



This preview shows how black text looks on a background with the Yxy color 47.6229, 0.2160, 0.2975.



This preview shows how white text looks on a background with the Yxy color 47.6229, 0.2160, 0.2975.

# 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

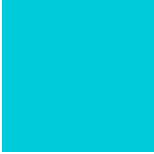
47.6229, 0.2160, 0.2975

### Protanopia

47.0480, 0.2876, 0.2923

### Deuteranopia

47.0113, 0.2730, 0.2677



## Tritanopia

47.8263, 0.2183, 0.3058

# Trichromacy



## Original Color

47.6229, 0.2160, 0.2975



## Protanomaly

44.8122, 0.2435, 0.2928



## Deuteranomaly

44.5314, 0.2364, 0.2747



## Tritanomaly

47.9323, 0.2175, 0.3030

# Monochromacy



## Original Color

47.6229, 0.2160, 0.2975



## Achromatopsia

27.8894, 0.3127, 0.3290



## Achromatomaly

32.2027, 0.2491, 0.3156

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.6229, 0.2160, 0.2975 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, 202, 224)` looks like.

```
.text, #text, p{  
    color:rgb(0, 202, 224)  
}
```

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, 202, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 202, 224) }
```

## Border

The CSS property to change the border of an element to Yxy 47.6229, 0.2160, 0.2975 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, 202, 224) }
```

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

```
.border{ border-color:rgb(0, 202, 224) }
```

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

Here you see how a box with a 4 pixel rgb(0, 202, 224) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 202, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 202, 224);  
box-shadow:4px 4px 4px 4px rgb(0, 202,  
224) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.6229, 0.2160, 0.2975 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 202, 224) }
```

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

```
.background{ background-color: rgb(0, 202,  
224) }
```

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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