

# Converting Colors

$Y_{xy}(48.6456, 0.2056, 0.2603)$

Have a look what the booklet for  
Yxy(48.6456, 0.2056, 0.2603)  
contains.

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# Color

**Yxy(48.8016, 0.2059, 0.2613)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C9FC
RGB	0, 201, 252
RGB Percent	0%, 79%, 99%
CMY	1.0000, 0.2117, 0.0117
CMYK	1.00, 0.20, 0.00, 0.01
HSL	192°, 100%, 49%
HSV	192°, 100%, 99%
XYZ	38.4548, 48.8016, 99.5082
YIQ	146.7150, -136.1670, -26.7510

# Conversions

## Conversions Part 2

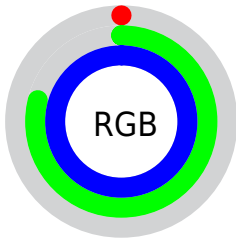
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 112, 252
Decimal	51708
CIELab	75.33, -23.85, -36.63
CIELCh	75, 43.705, 236.931
Yxy	48.8016, 0.2059, 0.2613
Android (android.graphics.Color)	4278241788 (0xFF00C9FC)
YUV	146.7150, 51.9055, -128.6691
Hunter-Lab	69.8581, -23.9928, -35.5539

# Details

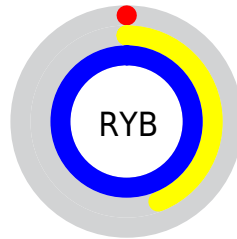
The Yxy color **48.8016, 0.2059, 0.2613** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light saturated cyan. A complement of this color would be **23.0693, 0.6199, 0.3460**, and the grayscale version is **28.8810, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3174, 0.2426, 0.3288**, and **24.8076, 0.2020, 0.2470** is the 20% darker color. If you saturate the color by 10%, you get **48.8067, 0.2059, 0.2613**, and if you desaturate by 10%, it is **51.4344, 0.2093, 0.2687**.

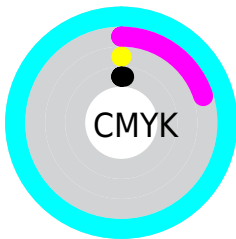
# Distribution



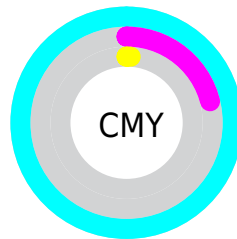
- Red (0%)
- Green (79%)
- Blue (99%)



- Red (0%)
- Yellow (44%)
- Blue (99%)



- Cyan (100%)
- Magenta (20%)
- Yellow (0%)
- Black (1%)




- Cyan (100%)
- Magenta (21%)
- Yellow (1%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.8016, 0.2059, 0.2613 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 48.8016, 0.2059, 0.2613 by changing the saturation by 10% instead.





 48.8016, 0.2059,  
0.2613


 48.8016, 0.2059,  
0.2613

381.9607, 0.2559,  
0.2955


 34.4621, 0.1946,  
0.2529


 88.3967, 0.2232,  
0.2737

 23.2488, 0.1808,  
0.2424


 114.4211, 0.2300,  
0.2783

 14.7774, 0.1637,  
0.2287


 145.1093, 0.2358,  
0.2823

 8.6633, 0.1420,  
0.2104

 180.8457, 0.2409,  
0.2857

 4.5222, 0.1144,  
0.1853

 222.0146, 0.2453,  
0.2886

 1.9698, 0.0795,  
0.1498

269.0005, 0.2493,

 0.5898, 0.0000,

0.2912

0.0988

322.1878, 0.2528,  
0.2935

■ 0.0000, 0.0000,  
0.0000

■ 48.8016, 0.2059,  
0.2613

■ 48.8016, 0.2059,  
0.2613

■ 48.8067, 0.2059,  
0.2613

■ 51.4344, 0.2093,  
0.2687

■ 54.4118, 0.2144,  
0.2761

■ 57.8225, 0.2215,  
0.2836

■ 61.7177, 0.2305,  
0.2910

■ 66.1404, 0.2414,  
0.2983

■ 71.1282, 0.2538,  
0.3053

■ 76.7150, 0.2674,  
0.3119

■ 82.9316, 0.2820,  
0.3181

■ 89.8066, 0.2972,  
0.3238

# Harmonies

## Analogous

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



48.8016, 0.2140, 0.3078



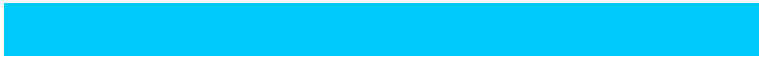
48.8016, 0.2059, 0.2613



48.8016, 0.2222, 0.2380

# Triad

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



48.8016, 0.2059, 0.2613



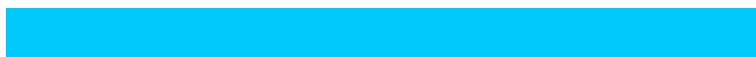
48.8016, 0.3786, 0.2906



48.8016, 0.3574, 0.4389

# Complementary

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



48.8016, 0.2059, 0.2613



23.0693, 0.6199, 0.3460

# 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.



48.8016, 0.4067, 0.4204



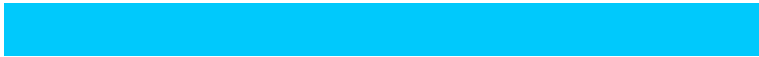
48.8016, 0.2059, 0.2613



48.8016, 0.4220, 0.3345

# Square

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



48.8016, 0.2059, 0.2613



48.8016, 0.3180, 0.2562



48.8016, 0.4318, 0.3808



48.8016, 0.2986, 0.4212



# Rectangle

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



48.8016, 0.2059, 0.2613



48.8016, 0.2459, 0.2352



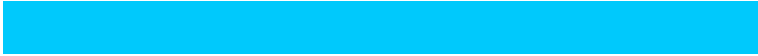
48.8016, 0.4318, 0.3808



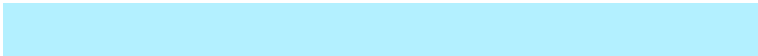
48.8016, 0.3757, 0.4362

# Sweetspot

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



48.8067, 0.2059, 0.2613



78.7787, 0.2674, 0.3119



69.8704, 0.2951, 0.5825



16.3273, 0.2615, 0.3092



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

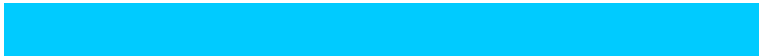


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



48.8067, 0.2059, 0.2613



50.1117, 0.2059, 0.2613



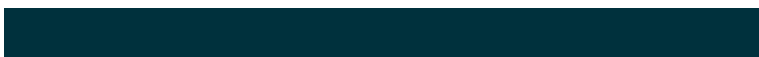
12.1448, 0.1602, 0.0966



18.9767, 0.2980, 0.3241



25.6342, 0.2063, 0.2626



2.5200, 0.2087, 0.2714



# Inverse Universe

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



24.9175, 0.3811, 0.1873



25.5899, 0.3812, 0.1874



51.9148, 0.4859, 0.4524



17.4608, 0.3169, 0.3103



12.9987, 0.3799, 0.1867

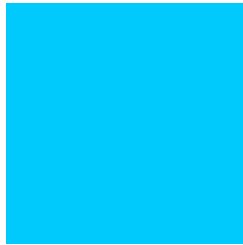


1.2186, 0.3715, 0.1820



# Previews

## White Background



This preview shows how the Yxy color 48.8016, 0.2059, 0.2613 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

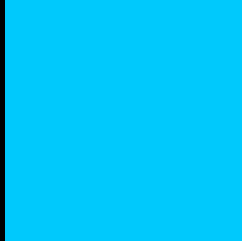
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.8016, 0.2059, 0.2613 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

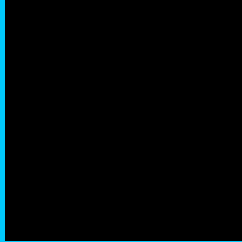
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 48.8016, 0.2059, 0.2613**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.8016, 0.2059, 0.2613.



This preview shows how white text looks on a background with the Yxy color 48.8016, 0.2059, 0.2613.

# 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

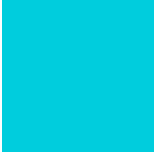
48.8016, 0.2059, 0.2613

### Protanopia

48.1750, 0.2641, 0.2611

### Deuteranopia

48.1495, 0.2480, 0.2423



## Tritanopia

48.8831, 0.2183, 0.3060

# Trichromacy



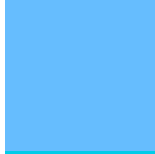
## Original Color

48.8016, 0.2059, 0.2613



## Protanomaly

46.0544, 0.2277, 0.2585



## Deuteranomaly

46.3757, 0.2205, 0.2461



## Tritanomaly

49.0119, 0.2139, 0.2899

# Monochromacy



## Original Color

48.8016, 0.2059, 0.2613



## Achromatopsia

29.1771, 0.3127, 0.3290



## Achromatomaly

33.5199, 0.2436, 0.3002

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.8016, 0.2059, 0.2613 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, 201, 252)` looks like.

```
.text, #text, p{  
    color:rgb(0, 201, 252)  
}
```

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, 201, 252) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 201, 252) }
```

## Border

The CSS property to change the border of an element to Yxy 48.8016, 0.2059, 0.2613 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, 201, 252) }
```

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

```
.border{ border-color:rgb(0, 201, 252) }
```

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

Here you see how a box with a 4 pixel rgb(0, 201, 252) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 201, 252); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 201, 252);  
box-shadow:4px 4px 4px 4px rgb(0, 201,  
252) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.8016, 0.2059, 0.2613 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 201, 252) }
```

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

```
.background{ background-color: rgb(0, 201,  
252) }
```

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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