

# Converting Colors

$Y_{xy}(48.1662, 0.1667, 0.2160)$

Have a look what the booklet for  
Yxy(48.1662, 0.1667, 0.2160)  
contains.

<b>Yxy(49.9319, 0.2058, 0.2607)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(49.9319, 0.2058, 0.2607)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01CBFF
RGB	1, 203, 255
RGB Percent	0%, 80%, 100%
CMY	0.9959, 0.2040, 0.0000
CMYK	1.00, 0.20, 0.00, 0.00
HSL	192°, 100%, 50%
HSV	192°, 100%, 100%
XYZ	39.4169, 49.9319, 102.1813
YIQ	148.5300, -137.0840, -26.6520

# Conversions

## Conversions Part 2

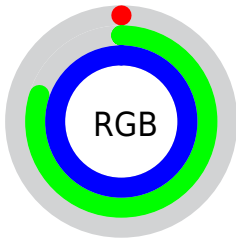
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	1, 114, 255
Decimal	117759
CIE Lab	76.03, -23.81, -37.14
CIE LCh	76, 44.116, 237.343
Yxy	49.9319, 0.2058, 0.2607
Android (android.graphics.Color)	4278307839 (0xFF01CBFF)
YUV	148.5300, 52.4897, -129.3838
Hunter-Lab	70.6625, -24.0887, -36.2724

# Details

The Yxy color **49.9319, 0.2058, 0.2607** 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 **23.8130, 0.6188, 0.3465**, and the grayscale version is **29.6681, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3848, 0.2430, 0.3288**, and **25.5721, 0.2018, 0.2464** is the 20% darker color. If you saturate the color by 10%, you get **49.8256, 0.2057, 0.2604**, and if you desaturate by 10%, it is **52.6609, 0.2093, 0.2682**.

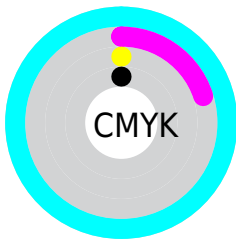
# Distribution



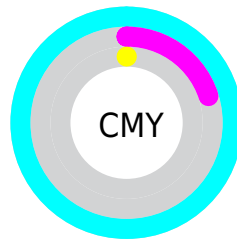
- Red (0%)
- Green (80%)
- Blue (100%)



- Red (0%)
- Yellow (45%)
- Blue (100%)



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




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


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.9319, 0.2058, 0.2607 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 49.9319, 0.2058, 0.2607 by changing the saturation by 10% instead.





 49.9319, 0.2058,  
0.2607

 49.9319, 0.2058,  
0.2607


386.3996, 0.2557,  
0.2950


 35.3593, 0.1946,  
0.2523


 90.0740, 0.2230,  
0.2731


 23.9398, 0.1809,  
0.2418


 116.4122, 0.2297,  
0.2777


 15.2889, 0.1640,  
0.2282


 147.4411, 0.2356,  
0.2817

 9.0224, 0.1427,  
0.2102

 183.5451, 0.2406,  
0.2851

 4.7558, 0.1155,  
0.1855

 225.1086, 0.2451,  
0.2881

 2.1047, 0.0812,  
0.1507

272.5158, 0.2490,

 0.6673, 0.0082,

0.2907

0.1028

326.1514, 0.2525,  
0.2930

■ 0.0000, 0.0000,  
0.0000

■ 49.9319, 0.2058,  
0.2607

■ 49.9319, 0.2058,  
0.2607

■ 49.8256, 0.2057,  
0.2604

■ 52.6609, 0.2093,  
0.2682

■ 55.7573, 0.2145,  
0.2757

■ 59.3033, 0.2217,  
0.2833

■ 63.3511, 0.2308,  
0.2909

■ 67.9448, 0.2417,  
0.2982

■ 73.1230, 0.2542,  
0.3053

■ 78.9203, 0.2680,  
0.3120

■ 85.3685, 0.2826,  
0.3182

■ 92.4969, 0.2978,  
0.3240

# Harmonies

## Analogous

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



49.9319, 0.2136, 0.3070



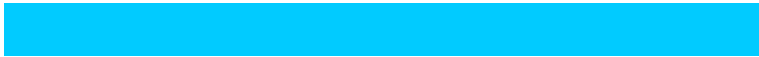
49.9319, 0.2058, 0.2607



49.9319, 0.2224, 0.2377

# Triad

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



49.9319, 0.2058, 0.2607



49.9319, 0.3795, 0.2911



49.9319, 0.3567, 0.4392

# Complementary

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



49.9319, 0.2058, 0.2607



23.8130, 0.6188, 0.3465

# 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.



49.9319, 0.4063, 0.4210



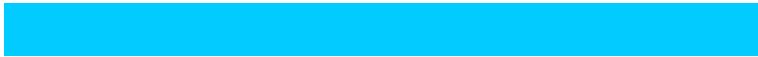
49.9319, 0.2058, 0.2607



49.9319, 0.4226, 0.3352

# Square

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



49.9319, 0.2058, 0.2607



49.9319, 0.3188, 0.2565



49.9319, 0.4319, 0.3815

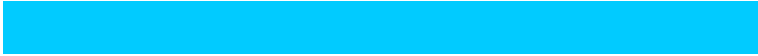


49.9319, 0.2978, 0.4208



# Rectangle

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



49.9319, 0.2058, 0.2607



49.9319, 0.2464, 0.2351



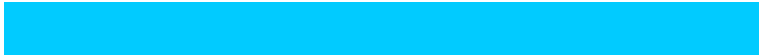
49.9319, 0.4319, 0.3815



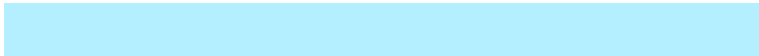
49.9319, 0.3750, 0.4366

# Sweetspot

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



49.9325, 0.2058, 0.2607



78.6721, 0.2674, 0.3117



71.7731, 0.2951, 0.5820



16.3016, 0.2615, 0.3089



0.0000, 0.0000, 0.0000

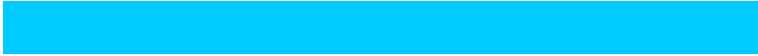


21.4041, 0.3127, 0.3290

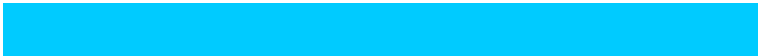


# Same Dimension

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



49.9325, 0.2058, 0.2607



49.8256, 0.2057, 0.2604



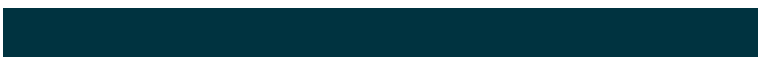
12.5661, 0.1604, 0.0972



19.8124, 0.2980, 0.3240



26.2554, 0.2060, 0.2617



2.7083, 0.2084, 0.2702



# Inverse Universe

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



25.5937, 0.3817, 0.1878



25.5611, 0.3820, 0.1878



53.4268, 0.4855, 0.4525



18.2329, 0.3170, 0.3103



13.3785, 0.3808, 0.1871

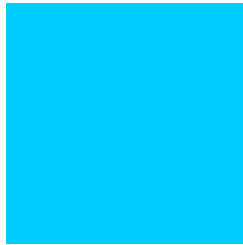


1.3179, 0.3726, 0.1826



# Previews

## White Background



This preview shows how the Yxy color 49.9319, 0.2058, 0.2607 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

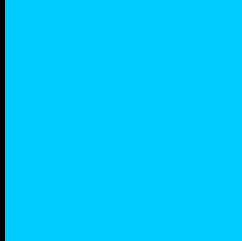
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.9319, 0.2058, 0.2607 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

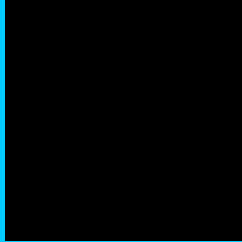
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 49.9319, 0.2058, 0.2607**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.9319, 0.2058, 0.2607.



This preview shows how white text looks on a background with the Yxy color 49.9319, 0.2058, 0.2607.

# 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

49.9383, 0.2058, 0.2607

### Protanopia

49.2898, 0.2633, 0.2605

### Deuteranopia

49.2875, 0.2502, 0.2451



## Tritanopia

49.9534, 0.2184, 0.3062

# Trichromacy



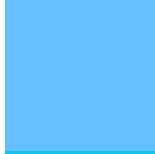
## Original Color

49.9383, 0.2058, 0.2607



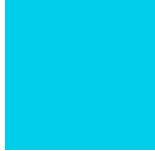
## Protanomaly

47.1666, 0.2274, 0.2580



## Deuteranomaly

47.4247, 0.2215, 0.2479



## Tritanomaly

50.1408, 0.2136, 0.2889

# Monochromacy



## Original Color

49.9383, 0.2058, 0.2607



## Achromatopsia

30.0544, 0.3127, 0.3290



## Achromatomaly

34.4397, 0.2430, 0.2990

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.9319, 0.2058, 0.2607 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(1, 203, 255)` looks like.

```
.text, #text, p{  
    color:rgb(1, 203, 255)  
}
```

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(1, 203, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 203, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 49.9319, 0.2058, 0.2607 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(1, 203, 255) }
```

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

```
.border{ border-color:rgb(1, 203, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(1, 203, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 203, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 203, 255);  
box-shadow:4px 4px 4px 4px rgb(1, 203,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.9319, 0.2058, 0.2607 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 203, 255) }
```

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

```
.background{ background-color: rgb(1, 203,  
255) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor