

# Converting Colors

$Y_{xy}(51.3335, 0.1963, 0.2310)$

Have a look what the booklet for  
Yxy(51.3335, 0.1963, 0.2310)  
contains.

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# Color

**Yxy(49.4611, 0.2054, 0.2593)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01CAFF
RGB	1, 202, 255
RGB Percent	0%, 79%, 100%
CMY	0.9970, 0.2079, 0.0000
CMYK	1.00, 0.21, 0.00, 0.00
HSL	193°, 100%, 50%
HSV	193°, 100%, 100%
XYZ	39.1798, 49.4611, 102.1077
YIQ	147.9430, -136.8090, -26.1290

# Conversions

## Conversions Part 2

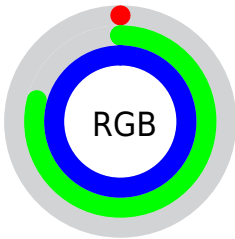
<b>Format</b>	<b>Color</b>
<b>RYB</b>	1, 113, 255
Decimal	117503
CIELab	75.74, -23.30, -37.59
CIELCh	76, 44.232, 238.206
Yxy	49.4611, 0.2054, 0.2593
Android (android.graphics.Color)	4278307583 (0xFF01CAFF)
YUV	147.9430, 52.7791, -128.8690
Hunter-Lab	70.3286, -23.6334, -36.8511

# Details

The Yxy color **49.4611, 0.2054, 0.2593** 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 **23.8797, 0.6183, 0.3470**, and the grayscale version is **29.3755, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3848, 0.2430, 0.3288**, and **25.2570, 0.2013, 0.2446** is the 20% darker color. If you saturate the color by 10%, you get **49.3810, 0.2053, 0.2591**, and if you desaturate by 10%, it is **52.2178, 0.2089, 0.2669**.

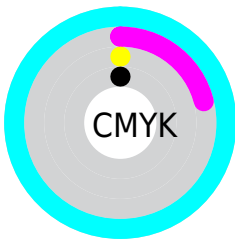
# Distribution



- Red (0%)
- Green (79%)
- Blue (100%)



- Red (0%)
- Yellow (44%)
- Blue (100%)



- Cyan (100%)
- Magenta (21%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (21%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.4611, 0.2054, 0.2593 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 49.4611, 0.2054, 0.2593 by changing the saturation by 10% instead.





 49.4611, 0.2054,  
0.2593


 49.4611, 0.2054,  
0.2593

384.5548, 0.2555,  
0.2943

 34.9854, 0.1941,  
0.2508


 89.3759, 0.2227,  
0.2719


 23.6516, 0.1804,  
0.2401


 115.5838, 0.2295,  
0.2767


 15.0754, 0.1633,  
0.2262


 146.4712, 0.2353,  
0.2807

 8.8723, 0.1419,  
0.2079

 182.4225, 0.2404,  
0.2842

 4.6580, 0.1146,  
0.1828

 223.8221, 0.2449,  
0.2872

 2.0480, 0.0802,  
0.1477

271.0544, 0.2488,

 0.6352, 0.0054,

0.2899

0.0988

324.5039, 0.2523,  
0.2922

■ 0.0000, 0.0000,  
0.0000

■ 49.4611, 0.2054,  
0.2593

■ 49.4611, 0.2054,  
0.2593

■ 49.3810, 0.2053,  
0.2591

■ 52.2178, 0.2089,  
0.2669

■ 55.3437, 0.2142,  
0.2746

■ 58.9214, 0.2214,  
0.2824

■ 63.0035, 0.2305,  
0.2901

■ 67.6342, 0.2415,  
0.2976

■ 72.8520, 0.2540,  
0.3048

■ 78.6918, 0.2678,  
0.3116

■ 85.1854, 0.2824,  
0.3180

■ 92.3620, 0.2977,  
0.3238

# Harmonies

## Analogous

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



49.4611, 0.2125, 0.3052



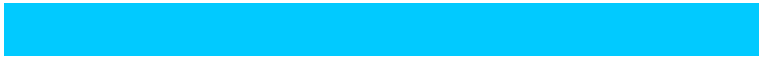
49.4611, 0.2054, 0.2593



49.4611, 0.2228, 0.2369

# Triad

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



49.4611, 0.2054, 0.2593



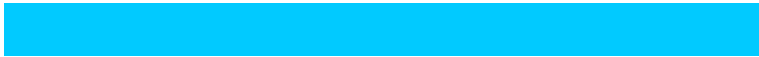
49.4611, 0.3815, 0.2921



49.4611, 0.3552, 0.4399

# Complementary

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



49.4611, 0.2054, 0.2593



23.8797, 0.6183, 0.3470

# 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.



49.4611, 0.4057, 0.4223



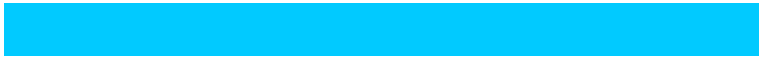
49.4611, 0.2054, 0.2593



49.4611, 0.4240, 0.3365

# Square

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



49.4611, 0.2054, 0.2593



49.4611, 0.3206, 0.2569



49.4611, 0.4323, 0.3830



49.4611, 0.2960, 0.4203



# Rectangle

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



49.4611, 0.2054, 0.2593



49.4611, 0.2473, 0.2347



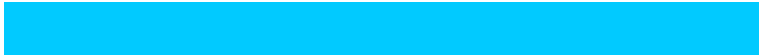
49.4611, 0.4323, 0.3830



49.4611, 0.3738, 0.4376

# Sweetspot

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



49.4614, 0.2054, 0.2593



78.5058, 0.2674, 0.3114



71.7695, 0.2951, 0.5821



16.2615, 0.2614, 0.3086



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

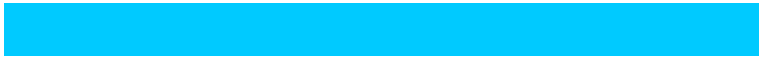


# Same Dimension

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



49.4614, 0.2054, 0.2593



49.3810, 0.2053, 0.2591



12.5383, 0.1604, 0.0971



19.8004, 0.2980, 0.3239



26.0257, 0.2057, 0.2604



2.6878, 0.2081, 0.2691



# Inverse Universe

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



25.5405, 0.3830, 0.1885



25.5162, 0.3833, 0.1885



53.3943, 0.4856, 0.4524



18.2317, 0.3170, 0.3104



13.3553, 0.3821, 0.1878



1.3159, 0.3737, 0.1832



# Previews

## White Background



This preview shows how the Yxy color 49.4611, 0.2054, 0.2593 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

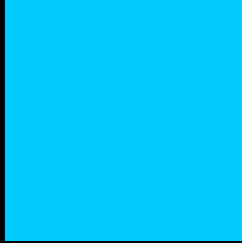
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.4611, 0.2054, 0.2593 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 49.4611, 0.2054, 0.2593**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.4611, 0.2054, 0.2593.



This preview shows how white text looks on a background with the Yxy color 49.4611, 0.2054, 0.2593.

# 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

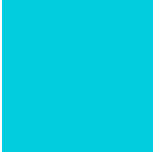
49.4675, 0.2054, 0.2593

### Protanopia

48.7639, 0.2625, 0.2591

### Deuteranopia

48.7684, 0.2494, 0.2438



## Tritanopia

49.4165, 0.2184, 0.3061

# Trichromacy



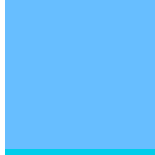
## Original Color

49.4675, 0.2054, 0.2593



## Protanomaly

46.6689, 0.2266, 0.2565



## Deuteranomaly

46.9305, 0.2208, 0.2464



## Tritanomaly

49.6032, 0.2136, 0.2888

# Monochromacy



## Original Color

49.4675, 0.2054, 0.2593



## Achromatopsia

29.6138, 0.3127, 0.3290



## Achromatomaly

33.9728, 0.2427, 0.2989

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.4611, 0.2054, 0.2593 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, 202, 255)` looks like.

```
.text, #text, p{  
    color:rgb(1, 202, 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, 202, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 202, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 49.4611, 0.2054, 0.2593 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, 202, 255) }
```

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

```
.border{ border-color:rgb(1, 202, 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, 202, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 202, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 202, 255);  
box-shadow:4px 4px 4px 4px rgb(1, 202,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.4611, 0.2054, 0.2593 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 202, 255) }
```

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

```
.background{ background-color: rgb(1, 202,  
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](#).

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