

# Converting Colors

$Y_{xy}(45.5378, 0.2020, 0.2472)$

Have a look what the booklet for  
Yxy(45.5378, 0.2020, 0.2472)  
contains.

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# Color

**Yxy(45.3599, 0.2019, 0.2467)**

# Conversions

## Conversions Part 1

| Format      | Color                         |
|-------------|-------------------------------|
| Hex         | 01C1FF                        |
| RGB         | 1, 193, 255                   |
| RGB Percent | 0%, 76%, 100%                 |
| CMY         | 0.9971, 0.2432, 0.0001        |
| CMYK        | 1.00, 0.24, 0.00, 0.00        |
| HSL         | 195°, 100%, 50%               |
| HSV         | 195°, 100%, 100%              |
| XYZ         | 37.1227, 45.3599, 101.3841    |
| YIQ         | 142.6600, -134.3340, -21.4220 |

# Conversions

## Conversions Part 2

| <b>Format</b>                       | <b>Color</b>                    |
|-------------------------------------|---------------------------------|
| R <sub>Y</sub> B                    | 1, 110, 255                     |
| Decimal                             | 115199                          |
| CIE Lab                             | 73.13, -18.69, -41.63           |
| CIE LCh                             | 73, 45.632, 245.824             |
| Yxy                                 | 45.3599, 0.2019,<br>0.2467      |
| Android<br>(android.graphics.Color) | 4278305279<br>(0xFF01C1FF)      |
| YUV                                 | 142.6600, 55.3836,<br>-124.2358 |
| Hunter-Lab                          | 67.3498, -19.4742,<br>-42.1066  |

# Details

The Yxy color **45.3599, 0.2019, 0.2467** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light saturated cyan. A complement of this color would be **24.7805, 0.6115, 0.3524**, and the grayscale version is **27.1066, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.5488, 0.2412, 0.3218**, and **22.5425, 0.1968, 0.2283** is the 20% darker color. If you saturate the color by 10%, you get **45.2772, 0.2018, 0.2464**, and if you desaturate by 10%, it is **48.3856, 0.2059, 0.2557**.

# Distribution



- Red (0%)
- Green (76%)
- Blue (100%)



- Red (0%)
- Yellow (43%)
- Blue (100%)



- Cyan (100%)
- Magenta (24%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (24%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.3599, 0.2019, 0.2467 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 45.3599, 0.2019, 0.2467 by changing the saturation by 10% instead.





 45.3599, 0.2019,  
0.2467


 45.3599, 0.2019,  
0.2467


368.2292, 0.2542,  
0.2878


 31.7410, 0.1901,  
0.2368


 83.2602, 0.2200,  
0.2614

 21.1637, 0.1756,  
0.2244


 108.3104, 0.2271,  
0.2671

 13.2438, 0.1576,  
0.2084


 137.9399, 0.2332,  
0.2718

 7.5966, 0.1351,  
0.1875

 172.5329, 0.2385,  
0.2759

 3.8379, 0.1065,  
0.1594

 212.4740, 0.2431,  
0.2795

 1.5833, 0.0711,  
0.1213

258.1475, 0.2473,

 0.3463, 0.0000,

0.2826

0.0577

309.9377, 0.2509,  
0.2854

■ 0.0000, 0.0000,  
0.0000

■ 45.3599, 0.2019,  
0.2467

■ 45.3599, 0.2019,  
0.2467

■ 45.2772, 0.2018,  
0.2464

■ 48.3856, 0.2059,  
0.2557

■ 51.8090, 0.2116,  
0.2649

■ 55.7148, 0.2193,  
0.2741

■ 60.1559, 0.2290,  
0.2832

■ 65.1769, 0.2404,  
0.2920

■ 70.8171, 0.2534,  
0.3006

■ 77.1116, 0.2674,  
0.3086

■ 84.0928, 0.2823,  
0.3161

■ 91.7904, 0.2977,  
0.3229

# Harmonies

## Analogous

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



45.3599, 0.2026, 0.2888



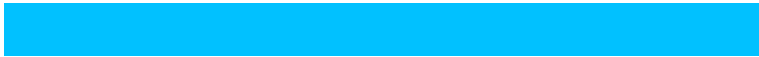
45.3599, 0.2019, 0.2467



45.3599, 0.2264, 0.2298

# Triad

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



45.3599, 0.2019, 0.2467



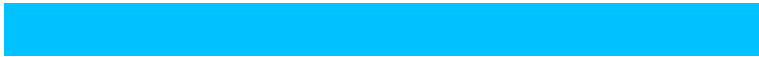
45.3599, 0.4000, 0.3010



45.3599, 0.3415, 0.4460

# Complementary

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



45.3599, 0.2019, 0.2467



24.7805, 0.6115, 0.3524

# 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.



45.3599, 0.3989, 0.4353



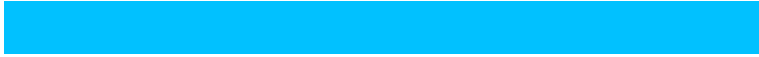
45.3599, 0.2019, 0.2467



45.3599, 0.4369, 0.3489

# Square

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



45.3599, 0.2019, 0.2467



45.3599, 0.3379, 0.2611



45.3599, 0.4353, 0.3971

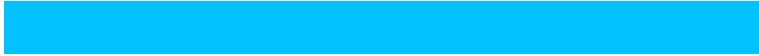


45.3599, 0.2794, 0.4146



# Rectangle

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



45.3599, 0.2019, 0.2467



45.3599, 0.2559, 0.2314



45.3599, 0.4353, 0.3971



45.3599, 0.3620, 0.4467

# Sweetspot

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



45.3614, 0.2019, 0.2467



76.9373, 0.2670, 0.3084



71.8354, 0.2935, 0.5764



15.8838, 0.2610, 0.3050



0.0000, 0.0000, 0.0000

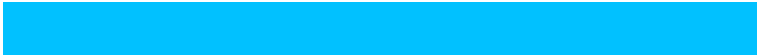


21.4041, 0.3127, 0.3290

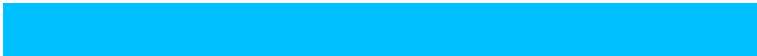


# Same Dimension

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



45.3614, 0.2019, 0.2467



45.2873, 0.2018, 0.2464



11.4223, 0.1583, 0.0897



19.6870, 0.2980, 0.3231



23.9095, 0.2022, 0.2479



2.4984, 0.2051, 0.2583



# Inverse Universe

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



25.1213, 0.3955, 0.1953



25.1029, 0.3958, 0.1954



56.8731, 0.4769, 0.4594



18.2202, 0.3176, 0.3112



13.1416, 0.3943, 0.1946

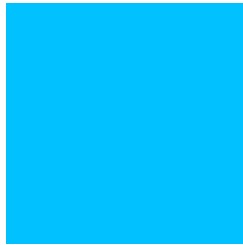


1.2968, 0.3841, 0.1889



# Previews

## White Background



This preview shows how the Yxy color 45.3599, 0.2019, 0.2467 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

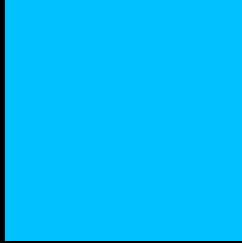
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.3599, 0.2019, 0.2467 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

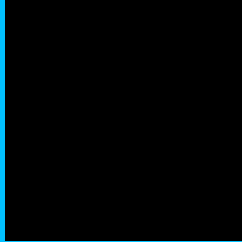
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.3599, 0.2019, 0.2467**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.3599, 0.2019, 0.2467.



This preview shows how white text looks on a background with the Yxy color 45.3599, 0.2019, 0.2467.

# 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

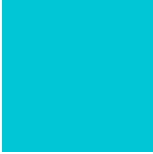
45.3664, 0.2019, 0.2467

### Protanopia

44.8324, 0.2534, 0.2478

### Deuteranopia

44.9602, 0.2397, 0.2344



## Tritanopia

45.1923, 0.2185, 0.3067

# Trichromacy



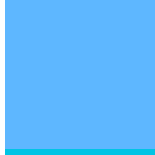
## Original Color

45.3664, 0.2019, 0.2467



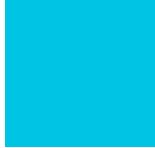
## Protanomaly

42.9380, 0.2209, 0.2439



## Deuteranomaly

43.4667, 0.2152, 0.2363



## Tritanomaly

45.0813, 0.2120, 0.2833

# Monochromacy



## Original Color

45.3664, 0.2019, 0.2467



## Achromatopsia

27.4677, 0.3127, 0.3290



## Achromatomaly

31.1746, 0.2405, 0.2916

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.3599, 0.2019, 0.2467 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, 193, 255)` looks like.

```
.text, #text, p{  
    color:rgb(1, 193, 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, 193, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 193, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 45.3599, 0.2019, 0.2467 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, 193, 255) }
```

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

```
.border{ border-color:rgb(1, 193, 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, 193, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 193, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 193, 255);  
box-shadow:4px 4px 4px 4px rgb(1, 193,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.3599, 0.2019, 0.2467 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 193, 255) }
```

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

```
.background{ background-color: rgb(1, 193,  
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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