

# Converting Colors

$Y_{xy}(45.4866, 0.2057, 0.2589)$

Have a look what the booklet for  
Yxy(45.4866, 0.2057, 0.2589)  
contains.

<b>Yxy(45.3019, 0.2056, 0.2583)</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(45.3019, 0.2056, 0.2583)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0BC2F6
RGB	11, 194, 246
RGB Percent	4%, 76%, 96%
CMY	0.9568, 0.2393, 0.0353
CMYK	0.96, 0.21, 0.00, 0.04
HSL	193°, 93%, 50%
HSV	193°, 96%, 96%
XYZ	36.0591, 45.3019, 94.0238
YIQ	145.2110, -125.7600, -22.6240

# Conversions

## Conversions Part 2

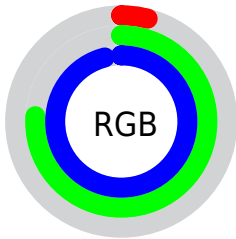
Format	Color
R <sub>Y</sub> B	11, 114, 246
Decimal	770806
CIE Lab	73.09, -22.05, -36.85
CIE LCh	73, 42.942, 239.107
Yxy	45.3019, 0.2056, 0.2583
Android (android.graphics.Color)	4278960886 (0xFF0BC2F6)
YUV	145.2110, 49.6890, -117.7030
Hunter-Lab	67.3067, -22.1565, -35.7102

# Details

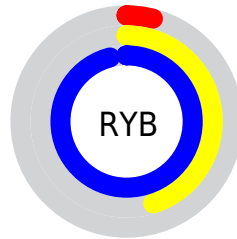
The Yxy color **45.3019, 0.2056, 0.2583** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light saturated cyan. A complement of this color would be **23.1710, 0.6064, 0.3527**, and the grayscale version is **28.2357, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.7918, 0.2417, 0.3242**, and **22.4303, 0.2007, 0.2425** is the 20% darker color. If you saturate the color by 10%, you get **44.1571, 0.2041, 0.2547**, and if you desaturate by 10%, it is **48.0678, 0.2099, 0.2664**.

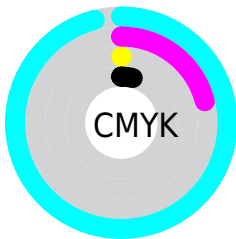
# Distribution



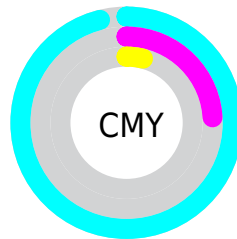
- Red (4%)
- Green (76%)
- Blue (96%)



- Red (4%)
- Yellow (45%)
- Blue (96%)



- Cyan (96%)
- Magenta (21%)
- Yellow (0%)
- Black (4%)




- Cyan (96%)
- Magenta (24%)
- Yellow (4%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.3019, 0.2056, 0.2583 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 45.3019, 0.2056, 0.2583 by changing the saturation by 10% instead.




 45.3019, 0.2056,  
0.2583


 45.3019, 0.2056,  
0.2583


367.9949, 0.2564,  
0.2943


 31.6953, 0.1940,  
0.2494


 83.1733, 0.2233,  
0.2713


 21.1289, 0.1797,  
0.2382


 108.2068, 0.2302,  
0.2763


 13.2182, 0.1619,  
0.2235

 137.8181, 0.2361,  
0.2804

 7.5790, 0.1393,  
0.2039

 172.3916, 0.2412,  
0.2840

 3.8268, 0.1104,  
0.1769

 212.3116, 0.2457,  
0.2871

 1.5771, 0.0737,  
0.1386

257.9625, 0.2497,

 0.3421, 0.0000,

0.2898

0.0689

309.7288, 0.2532,  
0.2922

■ 0.0000, 0.0000,  
0.0000

■ 45.3019, 0.2056,  
0.2583

■ 45.3019, 0.2056,  
0.2583

■ 44.1571, 0.2041,  
0.2547

■ 48.0678, 0.2099,  
0.2664

■ 51.2241, 0.2162,  
0.2747

■ 54.8270, 0.2244,  
0.2829

■ 58.9210, 0.2345,  
0.2910

■ 63.5444, 0.2464,  
0.2989

■ 68.7310, 0.2595,  
0.3064

■ 74.5117, 0.2738,  
0.3134

■ 80.9147, 0.2888,  
0.3200

■ 87.9662, 0.3042,  
0.3259

# Harmonies

## Analogous

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



45.3019, 0.2119, 0.3035



45.3019, 0.2056, 0.2583



45.3019, 0.2237, 0.2366

# Triad

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



45.3019, 0.2056, 0.2583



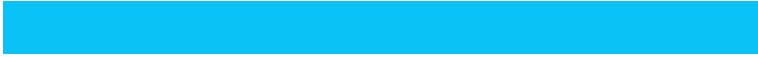
45.3019, 0.3831, 0.2933



45.3019, 0.3535, 0.4398

# Complementary

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



45.3019, 0.2056, 0.2583



23.1710, 0.6064, 0.3527

# 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.



45.3019, 0.4044, 0.4233



45.3019, 0.2056, 0.2583



45.3019, 0.4248, 0.3379

# Square

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



45.3019, 0.2056, 0.2583



45.3019, 0.3225, 0.2578



45.3019, 0.4319, 0.3843



45.3019, 0.2943, 0.4191



# Rectangle

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



45.3019, 0.2056, 0.2583



45.3019, 0.2486, 0.2348



45.3019, 0.4319, 0.3843



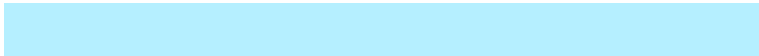
45.3019, 0.3721, 0.4379

# Sweetspot

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



45.3035, 0.2056, 0.2583



78.5695, 0.2687, 0.3110



66.3238, 0.2931, 0.5725



16.2474, 0.2626, 0.3080



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.



45.3035, 0.2056, 0.2583



47.8693, 0.2040, 0.2545



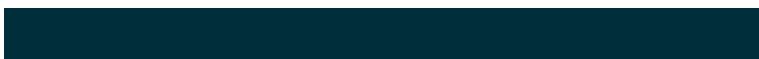
12.1144, 0.1621, 0.1009



18.0992, 0.2980, 0.3236



23.7890, 0.2045, 0.2560



2.2405, 0.2073, 0.2662



# Inverse Universe

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



23.7252, 0.3839, 0.1903



25.3636, 0.3877, 0.1910



52.0206, 0.4769, 0.4572



16.7018, 0.3172, 0.3108



12.5009, 0.3863, 0.1902

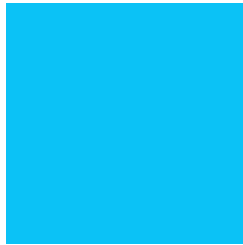


1.1138, 0.3764, 0.1847



# Previews

## White Background



This preview shows how the Yxy color 45.3019, 0.2056, 0.2583 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

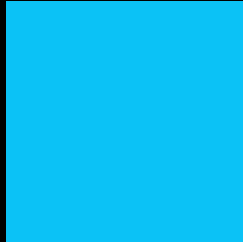
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.3019, 0.2056, 0.2583 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 45.3019, 0.2056, 0.2583**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.3019, 0.2056, 0.2583.

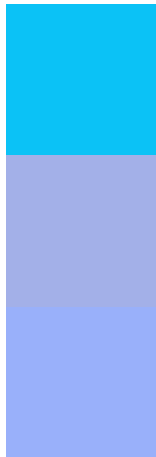


This preview shows how white text looks on a background with the Yxy color 45.3019, 0.2056, 0.2583.

# 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

45.3085, 0.2056, 0.2583

### Protanopia

44.6634, 0.2621, 0.2590

### Deuteranopia

44.7251, 0.2452, 0.2388



## **Tritanopia**

45.1923, 0.2185, 0.3067

# Trichromacy



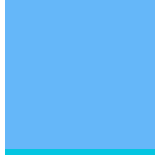
## Original Color

45.3085, 0.2056, 0.2583



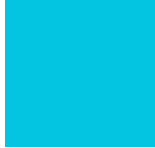
## Protanomaly

43.1695, 0.2286, 0.2570



## Deuteranomaly

43.4732, 0.2203, 0.2431



## Tritanomaly

45.3946, 0.2137, 0.2887

# Monochromacy



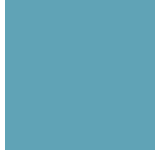
## Original Color

45.3085, 0.2056, 0.2583



## Achromatopsia

28.3149, 0.3127, 0.3290



## Achromatomaly

32.0586, 0.2453, 0.2983

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.3019, 0.2056, 0.2583 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(11, 194, 246)` looks like.

```
.text, #text, p{  
    color:rgb(11, 194, 246)  
}
```

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(11, 194, 246) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(11, 194, 246) }
```

## Border

The CSS property to change the border of an element to Yxy 45.3019, 0.2056, 0.2583 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(11, 194, 246) }
```

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

```
.border{ border-color:rgb(11, 194, 246) }
```

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

Here you see how a box with a 4 pixel `rgb(11, 194, 246)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(11, 194, 246); -webkit-box-  
shadow:4px 4px 4px 4px rgb(11, 194, 246);  
box-shadow:4px 4px 4px 4px rgb(11, 194,  
246) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.3019, 0.2056, 0.2583 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(11, 194, 246) }
```

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

```
.background{ background-color: rgb(11, 194,  
246) }
```

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