

# Converting Colors

$Y_{xy}(45.2340, 0.2046, 0.2564)$

Have a look what the booklet for  
Yxy(45.2340, 0.2046, 0.2564)  
contains.

<b>Yxy(45.3054, 0.2048, 0.2571)</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(45.3054, 0.2048, 0.2571)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01C2F7
RGB	1, 194, 247
RGB Percent	0%, 76%, 97%
CMY	0.9963, 0.2392, 0.0314
CMYK	1.00, 0.21, 0.00, 0.03
HSL	193°, 99%, 49%
HSV	193°, 100%, 97%
XYZ	36.0892, 45.3054, 94.8224
YIQ	142.3350, -132.0410, -24.4330

# Conversions

## Conversions Part 2

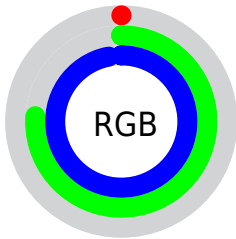
Format	Color
<b>RYB</b>	1, 109, 247
Decimal	115447
CIELab	73.09, -21.96, -37.38
CIELCh	73, 43.355, 239.572
Yxy	45.3054, 0.2048, 0.2571
Android (android.graphics.Color)	4278305527 (0xFF01C2F7)
YUV	142.3350, 51.5998, -123.9508
Hunter-Lab	67.3093, -22.0848, -36.4087

# Details

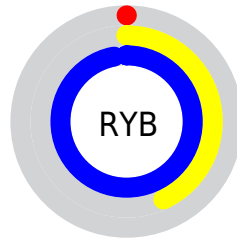
The Yxy color **45.3054, 0.2048, 0.2571** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light saturated cyan. A complement of this color would be **22.4044, 0.6166, 0.3482**, and the grayscale version is **27.0156, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.6591, 0.2410, 0.3241**, and **22.4739, 0.2003, 0.2411** is the 20% darker color. If you saturate the color by 10%, you get **45.2096, 0.2047, 0.2568**, and if you desaturate by 10%, it is **47.9257, 0.2084, 0.2650**.

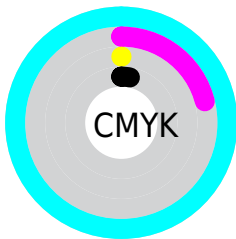
# Distribution



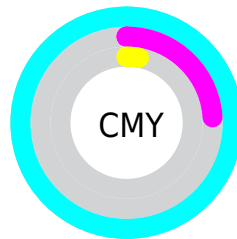
- Red (0%)
- Green (76%)
- Blue (97%)



- Red (0%)
- Yellow (43%)
- Blue (97%)



- Cyan (100%)
- Magenta (21%)
- Yellow (0%)
- Black (3%)




- Cyan (100%)
- Magenta (24%)
- Yellow (3%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.3054, 0.2048, 0.2571 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 45.3054, 0.2048, 0.2571 by changing the saturation by 10% instead.





 45.3054, 0.2048,  
0.2571


 45.3054, 0.2048,  
0.2571


368.0090, 0.2559,  
0.2936

 31.6980, 0.1931,  
0.2481


 83.1785, 0.2226,  
0.2703

 21.1310, 0.1788,  
0.2367


 108.2131, 0.2295,  
0.2753


 13.2198, 0.1609,  
0.2219

 137.8254, 0.2355,  
0.2796

 7.5801, 0.1383,  
0.2022

 172.4001, 0.2406,  
0.2832

 3.8274, 0.1094,  
0.1749

 212.3214, 0.2452,  
0.2863

 1.5775, 0.0729,  
0.1366

257.9737, 0.2492,

 0.3424, 0.0000,

0.2891

0.0675

309.7415, 0.2527,  
0.2915

■ 0.0000, 0.0000,  
0.0000

■ 45.3054, 0.2048,  
0.2571

■ 45.3054, 0.2048,  
0.2571

■ 45.2096, 0.2047,  
0.2568

■ 47.9257, 0.2084,  
0.2650

■ 50.8931, 0.2138,  
0.2729

■ 54.2858, 0.2211,  
0.2810

■ 58.1520, 0.2304,  
0.2889

■ 62.5326, 0.2415,  
0.2966

■ 67.4634, 0.2541,  
0.3041

■ 72.9766, 0.2679,  
0.3111

■ 79.1016, 0.2826,  
0.3177

■ 85.8657, 0.2978,  
0.3237

# Harmonies

## Analogous

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



45.3054, 0.2108, 0.3024



45.3054, 0.2048, 0.2571



45.3054, 0.2234, 0.2357

# Triad

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



45.3054, 0.2048, 0.2571



45.3054, 0.3847, 0.2936



45.3054, 0.3529, 0.4409

# Complementary

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



45.3054, 0.2048, 0.2571



22.4044, 0.6166, 0.3482

# 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.



45.3054, 0.4045, 0.4245



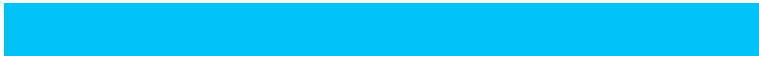
45.3054, 0.2048, 0.2571



45.3054, 0.4263, 0.3386

# Square

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



45.3054, 0.2048, 0.2571



45.3054, 0.3236, 0.2576



45.3054, 0.4328, 0.3854



45.3054, 0.2932, 0.4194



# Rectangle

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



45.3054, 0.2048, 0.2571



45.3054, 0.2487, 0.2341



45.3054, 0.4328, 0.3854



45.3054, 0.3718, 0.4391

# Sweetspot

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



45.3070, 0.2048, 0.2571



78.2013, 0.2673, 0.3108



66.7479, 0.2950, 0.5818



16.1881, 0.2613, 0.3079



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

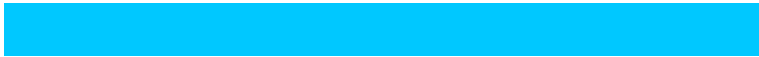


# Same Dimension

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



45.3070, 0.2048, 0.2571



48.5720, 0.2046, 0.2567



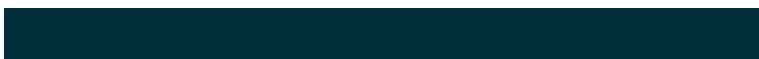
11.7202, 0.1605, 0.0975



18.1167, 0.2980, 0.3238



24.1304, 0.2050, 0.2581



2.2678, 0.2078, 0.2680



# Inverse Universe

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



23.6868, 0.3852, 0.1897



25.4345, 0.3857, 0.1898



49.7263, 0.4854, 0.4526



16.7036, 0.3171, 0.3106



12.5354, 0.3842, 0.1890

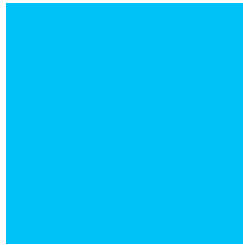


1.1166, 0.3747, 0.1838



# Previews

## White Background



This preview shows how the Yxy color 45.3054, 0.2048, 0.2571 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

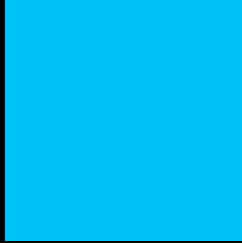
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.3054, 0.2048, 0.2571 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

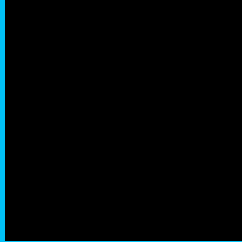
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.3054, 0.2048, 0.2571**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.3054, 0.2048, 0.2571.

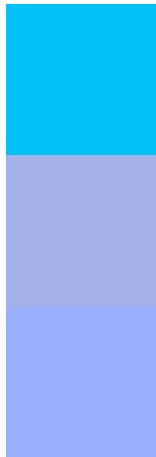


This preview shows how white text looks on a background with the Yxy color 45.3054, 0.2048, 0.2571.

# 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**

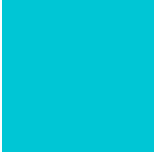
45.3054, 0.2048, 0.2571

**Protanopia**

44.7204, 0.2615, 0.2579

**Deuteranopia**

44.6911, 0.2440, 0.2377



## Tritanopia

45.1923, 0.2185, 0.3067

# Trichromacy



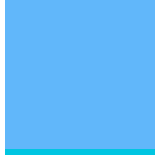
## Original Color

45.3054, 0.2048, 0.2571



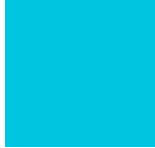
## Protanomaly

42.9831, 0.2263, 0.2555



## Deuteranomaly

43.3105, 0.2183, 0.2417



## Tritanomaly

45.3687, 0.2135, 0.2887

# Monochromacy



## Original Color

45.3054, 0.2048, 0.2571



## Achromatopsia

27.0498, 0.3127, 0.3290



## Achromatomaly

31.0092, 0.2429, 0.2978

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.3054, 0.2048, 0.2571 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, 194, 247)` looks like.

```
.text, #text, p{  
    color:rgb(1, 194, 247)  
}
```

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, 194, 247) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 194, 247) }
```

## Border

The CSS property to change the border of an element to Yxy 45.3054, 0.2048, 0.2571 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, 194, 247) }
```

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

```
.border{ border-color:rgb(1, 194, 247) }
```

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

Here you see how a box with a 4 pixel rgb(1, 194, 247) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 194, 247); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 194, 247);  
box-shadow:4px 4px 4px 4px rgb(1, 194,  
247) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.3054, 0.2048, 0.2571 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 194, 247) }
```

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

```
.background{ background-color: rgb(1, 194,  
247) }
```

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