

# Converting Colors

$Y_{xy}(45.2875, 0.1381, 0.2179)$

Have a look what the booklet for  
Yxy(45.2875, 0.1381, 0.2179)  
contains.

<b>Yxy(51.8456, 0.2073, 0.2663)</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(51.8456, 0.2073, 0.2663)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00CFFF
RGB	0, 207, 255
RGB Percent	0%, 81%, 100%
CMY	1.0000, 0.1882, 0.0000
CMYK	1.00, 0.19, 0.00, 0.00
HSL	191°, 100%, 50%
HSV	191°, 100%, 100%
XYZ	40.3590, 51.8456, 102.4841
YIQ	150.5790, -138.7800, -28.9560

# Conversions

## Conversions Part 2

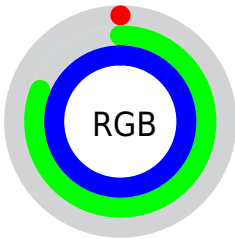
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 114, 255
Decimal	53247
CIELab	77.19, -25.86, -35.33
CIELCh	77, 43.787, 233.797
Yxy	51.8456, 0.2073, 0.2663
Android (android.graphics.Color)	4278243327 (0xFF00CFFF)
YUV	150.5790, 51.4796, -132.0578
Hunter-Lab	72.0039, -25.9556, -33.9856

# Details

The Yxy color **51.8456, 0.2073, 0.2663** 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 **23.3724, 0.6224, 0.3440**, and the grayscale version is **30.5810, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3848, 0.2430, 0.3288**, and **26.5337, 0.2033, 0.2518** is the 20% darker color. If you saturate the color by 10%, you get **51.8492, 0.2073, 0.2663**, and if you desaturate by 10%, it is **54.4232, 0.2105, 0.2731**.

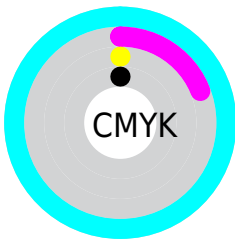
# Distribution



- Red (0%)
- Green (81%)
- Blue (100%)



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



- Cyan (100%)
- Magenta (19%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (19%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 51.8456, 0.2073, 0.2663 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 51.8456, 0.2073, 0.2663 by changing the saturation by 10% instead.





 51.8456, 0.2073,  
0.2663


 51.8456, 0.2073,  
0.2663


393.8402, 0.2562,  
0.2979

 36.8820, 0.1963,  
0.2586


 92.9035, 0.2242,  
0.2777


 25.1162, 0.1830,  
0.2488


 119.7666, 0.2308,  
0.2820


 16.1636, 0.1664,  
0.2362


 151.3650, 0.2365,  
0.2857

 9.6400, 0.1456,  
0.2194

 188.0831, 0.2414,  
0.2888

 5.1609, 0.1190,  
0.1962

 230.3053, 0.2458,  
0.2915

 2.3420, 0.0852,  
0.1631

278.4159, 0.2497,

 0.7958, 0.0186,

0.2939

0.1182

332.7994, 0.2531,  
0.2960

■ 0.0000, 0.0000,  
0.0000

■ 51.8456, 0.2073,  
0.2663

■ 51.8456, 0.2073,  
0.2663

■ 51.8492, 0.2073,  
0.2663

■ 54.4232, 0.2105,  
0.2731

■ 57.3462, 0.2154,  
0.2800

■ 60.7036, 0.2223,  
0.2869

■ 64.5479, 0.2311,  
0.2938

■ 68.9233, 0.2418,  
0.3005

■ 73.8684, 0.2540,  
0.3070

■ 79.4179, 0.2676,  
0.3131

■ 85.6033, 0.2821,  
0.3189

■ 92.4540, 0.2972,  
0.3242

# Harmonies

## Analogous

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



51.8456, 0.2179, 0.3142



51.8456, 0.2073, 0.2663



51.8456, 0.2209, 0.2408

# Triad

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



51.8456, 0.2073, 0.2663



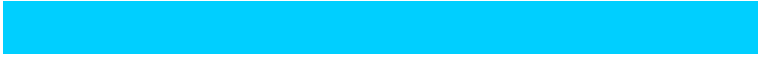
51.8456, 0.3717, 0.2872



51.8456, 0.3625, 0.4365

# Complementary

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



51.8456, 0.2073, 0.2663



23.3724, 0.6224, 0.3440

# 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.



51.8456, 0.4091, 0.4156



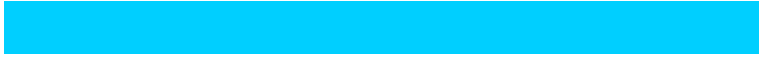
51.8456, 0.2073, 0.2663



51.8456, 0.4170, 0.3298

# Square

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



51.8456, 0.2073, 0.2663



51.8456, 0.3116, 0.2546



51.8456, 0.4304, 0.3755

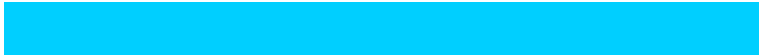


51.8456, 0.3050, 0.4230



# Rectangle

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



51.8456, 0.2073, 0.2663



51.8456, 0.2427, 0.2365



51.8456, 0.4304, 0.3755



51.8456, 0.3800, 0.4327

# Sweetspot

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



51.8492, 0.2073, 0.2663



79.4201, 0.2676, 0.3131



71.7212, 0.2959, 0.5851



16.4821, 0.2617, 0.3106



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.



51.8492, 0.2073, 0.2663



51.8506, 0.2073, 0.2663



13.0674, 0.1613, 0.1005



19.8660, 0.2980, 0.3244



27.3012, 0.2076, 0.2674



2.8013, 0.2098, 0.2752



# Inverse Universe

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



25.7648, 0.3763, 0.1847



25.7655, 0.3763, 0.1847



51.6274, 0.4905, 0.4488



18.2383, 0.3167, 0.3099



13.4840, 0.3753, 0.1841



1.3273, 0.3679, 0.1800



# Previews

## White Background



This preview shows how the Yxy color 51.8456, 0.2073, 0.2663 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

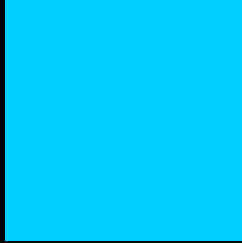
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 51.8456, 0.2073, 0.2663 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 51.8456, 0.2073, 0.2663**

## **Background**



This preview shows how black text looks on a background with the Yxy color 51.8456, 0.2073, 0.2663.



This preview shows how white text looks on a background with the Yxy color 51.8456, 0.2073, 0.2663.

# 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

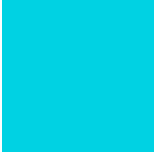
51.8456, 0.2073, 0.2663

### Protanopia

51.0620, 0.2677, 0.2659

### Deuteranopia

51.1957, 0.2544, 0.2496



## Tritanopia

51.6392, 0.2181, 0.3051

# Trichromacy



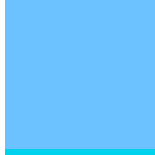
## Original Color

51.8456, 0.2073, 0.2663



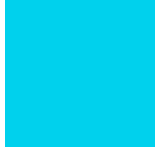
## Protanomaly

48.6209, 0.2300, 0.2634



## Deuteranomaly

48.9917, 0.2240, 0.2522



## Tritanomaly

51.7154, 0.2141, 0.2907

# Monochromacy



## Original Color

51.8456, 0.2073, 0.2663



## Achromatopsia

30.9469, 0.3127, 0.3290



## Achromatomaly

35.2867, 0.2436, 0.3008

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 51.8456, 0.2073, 0.2663 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(0, 207, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 207, 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(0, 207, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 207, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 51.8456, 0.2073, 0.2663 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(0, 207, 255) }
```

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

```
.border{ border-color:rgb(0, 207, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 207, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 207, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 207, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 207,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 51.8456, 0.2073, 0.2663 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 207, 255) }
```

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

```
.background{ background-color: rgb(0, 207,  
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