

# Converting Colors

$Y_{xy}(47.8022, 0.2049, 0.2577)$

Have a look what the booklet for  
Yxy(47.8022, 0.2049, 0.2577)  
contains.

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# Color

**Yxy(47.8751, 0.2051, 0.2585)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C7FC
RGB	0, 199, 252
RGB Percent	0%, 78%, 99%
CMY	1.0000, 0.2195, 0.0117
CMYK	1.00, 0.21, 0.00, 0.01
HSL	193°, 100%, 49%
HSV	193°, 100%, 99%
XYZ	37.9852, 47.8751, 99.3431
YIQ	145.5410, -135.6170, -25.7050

# Conversions

## Conversions Part 2

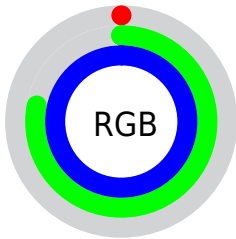
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 111, 252
Decimal	51196
CIELab	74.75, -22.85, -37.52
CIELCh	75, 43.932, 238.656
Yxy	47.8751, 0.2051, 0.2585
Android (android.graphics.Color)	4278241276 (0xFF00C7FC)
YUV	145.5410, 52.4843, -127.6395
Hunter-Lab	69.1918, -23.0920, -36.6922

# Details

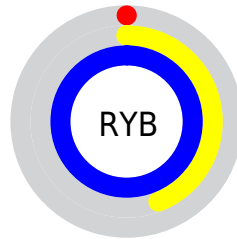
The Yxy color **47.8751, 0.2051, 0.2585** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light saturated cyan. A complement of this color would be **23.2435, 0.6185, 0.3471**, and the grayscale version is **28.3751, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3174, 0.2426, 0.3288**, and **24.1909, 0.2009, 0.2433** is the 20% darker color. If you saturate the color by 10%, you get **47.8834, 0.2052, 0.2585**, and if you desaturate by 10%, it is **50.5743, 0.2087, 0.2662**.

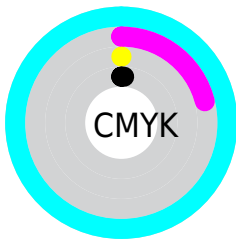
# Distribution



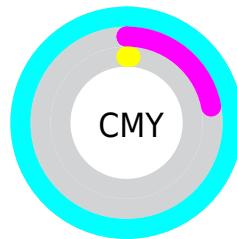
- Red (0%)
- Green (78%)
- Blue (99%)



- Red (0%)
- Yellow (44%)
- Blue (99%)



- Cyan (100%)
- Magenta (21%)
- Yellow (0%)
- Black (1%)




- Cyan (100%)
- Magenta (22%)
- Yellow (1%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.8751, 0.2051, 0.2585 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 47.8751, 0.2051, 0.2585 by changing the saturation by 10% instead.




 47.8751, 0.2051,  
0.2585


 47.8751, 0.2051,  
0.2585


378.2968, 0.2556,  
0.2941


 33.7280, 0.1937,  
0.2498


 87.0184, 0.2226,  
0.2713


 22.6847, 0.1797,  
0.2388


 112.7834, 0.2294,  
0.2762

 14.3609, 0.1624,  
0.2247


 143.1898, 0.2353,  
0.2803

 8.3721, 0.1405,  
0.2058

 178.6220, 0.2404,  
0.2838

 4.3339, 0.1126,  
0.1800

 219.4644, 0.2449,  
0.2869

 1.8621, 0.0774,  
0.1436

266.1014, 0.2489,

 0.5254, 0.0000,

0.2896

0.0893

318.9174, 0.2524,  
0.2920

■ 0.0000, 0.0000,  
0.0000

■ 47.8751, 0.2051,  
0.2585

■ 47.8751, 0.2051,  
0.2585

■ 47.8834, 0.2052,  
0.2585

■ 50.5743, 0.2087,  
0.2662

■ 53.6209, 0.2139,  
0.2740

■ 57.1069, 0.2210,  
0.2818

■ 61.0836, 0.2302,  
0.2895

■ 65.5939, 0.2411,  
0.2971

■ 70.6757, 0.2536,  
0.3044

■ 76.3629, 0.2674,  
0.3112

■ 82.6864, 0.2820,  
0.3177

■ 89.6749, 0.2972,  
0.3236

# Harmonies

## Analogous

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



47.8751, 0.2118, 0.3042



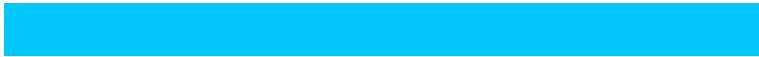
47.8751, 0.2051, 0.2585



47.8751, 0.2229, 0.2364

# Triad

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



47.8751, 0.2051, 0.2585



47.8751, 0.3826, 0.2925



47.8751, 0.3545, 0.4403

# Complementary

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



47.8751, 0.2051, 0.2585



23.2435, 0.6185, 0.3471

# 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.



47.8751, 0.4054, 0.4232



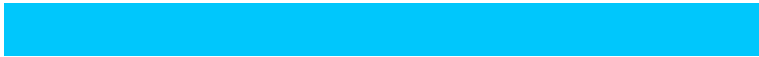
47.8751, 0.2051, 0.2585



47.8751, 0.4249, 0.3372

# Square

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



47.8751, 0.2051, 0.2585



47.8751, 0.3216, 0.2571



47.8751, 0.4326, 0.3838



47.8751, 0.2951, 0.4201



# Rectangle

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



47.8751, 0.2051, 0.2585



47.8751, 0.2477, 0.2344



47.8751, 0.4326, 0.3838



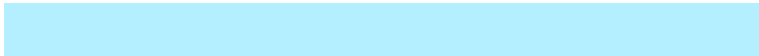
47.8751, 0.3732, 0.4382

# Sweetspot

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



47.8834, 0.2052, 0.2585



78.4262, 0.2673, 0.3112



69.8620, 0.2951, 0.5825



16.2424, 0.2614, 0.3084



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

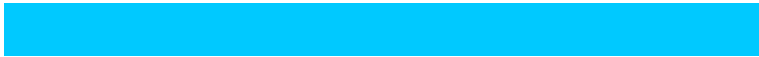


# Same Dimension

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



47.8834, 0.2052, 0.2585



49.1688, 0.2051, 0.2585



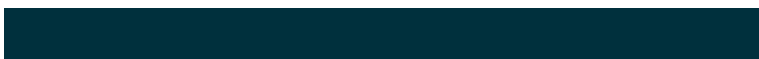
12.1435, 0.1602, 0.0966



18.9524, 0.2980, 0.3239



25.1618, 0.2055, 0.2598



2.4801, 0.2081, 0.2690



# Inverse Universe

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



24.8219, 0.3839, 0.1888



25.4948, 0.3839, 0.1888



51.9087, 0.4859, 0.4524



17.4584, 0.3170, 0.3105



12.9510, 0.3826, 0.1881



1.2146, 0.3738, 0.1833



# Previews

## White Background



This preview shows how the Yxy color 47.8751, 0.2051, 0.2585 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

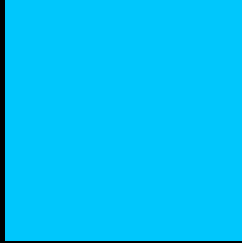
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.8751, 0.2051, 0.2585 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

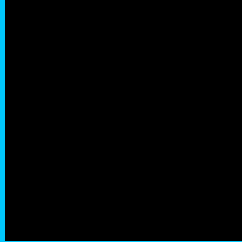
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 47.8751, 0.2051, 0.2585**

## **Background**



This preview shows how black text looks on a background with the Yxy color 47.8751, 0.2051, 0.2585.



This preview shows how white text looks on a background with the Yxy color 47.8751, 0.2051, 0.2585.

# 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

47.8751, 0.2051, 0.2585

### Protanopia

47.0311, 0.2618, 0.2582

### Deuteranopia

47.4358, 0.2459, 0.2406



## Tritanopia

47.8263, 0.2183, 0.3058

# Trichromacy



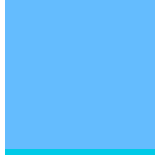
## Original Color

47.8751, 0.2051, 0.2585



## Protanomaly

45.0759, 0.2262, 0.2556



## Deuteranomaly

45.8315, 0.2195, 0.2446



## Tritanomaly

48.0106, 0.2134, 0.2883

# Monochromacy



## Original Color

47.8751, 0.2051, 0.2585



## Achromatopsia

28.7441, 0.3127, 0.3290



## Achromatomaly

32.7402, 0.2424, 0.2969

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.8751, 0.2051, 0.2585 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, 199, 252)` looks like.

```
.text, #text, p{  
    color:rgb(0, 199, 252)  
}
```

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, 199, 252) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 199, 252) }
```

## Border

The CSS property to change the border of an element to Yxy 47.8751, 0.2051, 0.2585 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, 199, 252) }
```

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

```
.border{ border-color:rgb(0, 199, 252) }
```

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

Here you see how a box with a 4 pixel rgb(0, 199, 252) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 199, 252); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 199, 252);  
box-shadow:4px 4px 4px 4px rgb(0, 199,  
252) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.8751, 0.2051, 0.2585 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 199, 252) }
```

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

```
.background{ background-color: rgb(0, 199,  
252) }
```

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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