

# Converting Colors

$Y_{xy}(47.1141, 0.1600, 0.1960)$

Have a look what the booklet for  
Yxy(47.1141, 0.1600, 0.1960)  
contains.

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# Color

**Yxy(48.5286, 0.2046, 0.2565)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C8FF
RGB	0, 200, 255
RGB Percent	0%, 78%, 100%
CMY	0.9990, 0.2157, 0.0000
CMYK	1.00, 0.22, 0.00, 0.00
HSL	193°, 100%, 50%
HSV	193°, 100%, 100%
XYZ	38.7094, 48.5286, 101.9574
YIQ	146.4700, -136.8550, -25.2950

# Conversions

## Conversions Part 2

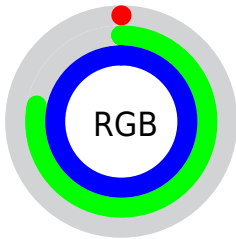
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 112, 255
Decimal	51455
CIELab	75.16, -22.30, -38.50
CIELCh	75, 44.490, 239.921
Yxy	48.5286, 0.2046, 0.2565
Android (android.graphics.Color)	4278241535 (0xFF00C8FF)
YUV	146.4700, 53.5053, -128.4542
Hunter-Lab	69.6625, -22.7222, -38.0126

# Details

The Yxy color **48.5286, 0.2046, 0.2565** 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 **24.0167, 0.6174, 0.3479**, and the grayscale version is **28.7965, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3174, 0.2426, 0.3288**, and **24.6350, 0.2003, 0.2410** is the 20% darker color. If you saturate the color by 10%, you get **48.5023, 0.2046, 0.2565**, and if you desaturate by 10%, it is **51.3395, 0.2082, 0.2644**.

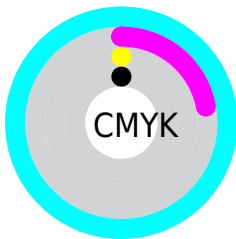
# Distribution



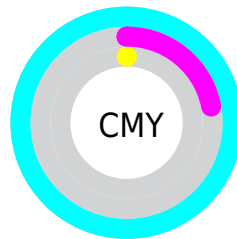
- Red (0%)
- Green (78%)
- Blue (100%)



- Red (0%)
- Yellow (44%)
- Blue (100%)



- Cyan (100%)
- Magenta (22%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (22%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.5286, 0.2046, 0.2565 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 48.5286, 0.2046, 0.2565 by changing the saturation by 10% instead.





 48.5286, 0.2046,  
0.2565

 48.5286, 0.2046,  
0.2565


 380.8836, 0.2552,  
0.2929

 34.2457, 0.1932,  
0.2477

 87.9909, 0.2221,  
0.2696


 23.0824, 0.1793,  
0.2366


 113.9391, 0.2289,  
0.2745

 14.6544, 0.1621,  
0.2223


 144.5445, 0.2348,  
0.2788

 8.5772, 0.1404,  
0.2033

 180.1915, 0.2400,  
0.2824

 4.4664, 0.1128,  
0.1776

 221.2645, 0.2445,  
0.2855

 1.9378, 0.0781,  
0.1417

 268.1480, 0.2485,

 0.5709, 0.0000,

0.2883

0.0905

321.2262, 0.2520,  
0.2907

■ 0.0000, 0.0000,  
0.0000

■ 48.5286, 0.2046,  
0.2565

■ 48.5286, 0.2046,  
0.2565

■ 48.5023, 0.2046,  
0.2565

■ 51.3395, 0.2082,  
0.2644

■ 54.5226, 0.2135,  
0.2724

■ 58.1624, 0.2208,  
0.2805

■ 62.3118, 0.2300,  
0.2885

■ 67.0151, 0.2410,  
0.2963

■ 72.3113, 0.2536,  
0.3037

■ 78.2351, 0.2674,  
0.3108

■ 84.8186, 0.2821,  
0.3174

■ 92.0912, 0.2974,  
0.3235

# Harmonies

## Analogous

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



48.5286, 0.2103, 0.3016



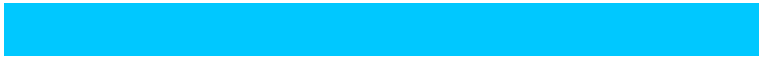
48.5286, 0.2046, 0.2565



48.5286, 0.2235, 0.2353

# Triad

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



48.5286, 0.2046, 0.2565



48.5286, 0.3855, 0.2940



48.5286, 0.3523, 0.4412

# Complementary

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



48.5286, 0.2046, 0.2565



24.0167, 0.6174, 0.3479

# 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.



48.5286, 0.4043, 0.4251



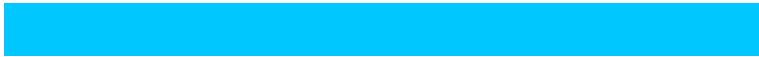
48.5286, 0.2046, 0.2565



48.5286, 0.4269, 0.3392

# Square

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



48.5286, 0.2046, 0.2565



48.5286, 0.3243, 0.2578



48.5286, 0.4330, 0.3861

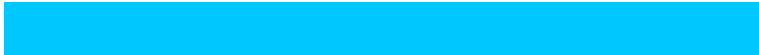


48.5286, 0.2924, 0.4192



# Rectangle

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



48.5286, 0.2046, 0.2565



48.5286, 0.2491, 0.2339



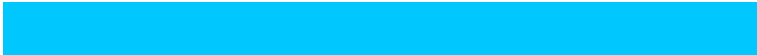
48.5286, 0.4330, 0.3861



48.5286, 0.3713, 0.4396

# Sweetspot

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



48.5284, 0.2046, 0.2565



78.1749, 0.2673, 0.3108



71.7623, 0.2951, 0.5824



16.1818, 0.2613, 0.3078



0.0000, 0.0000, 0.0000

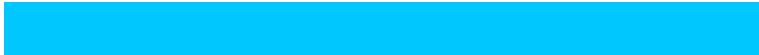


21.4041, 0.3127, 0.3290

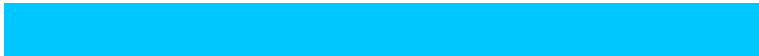


# Same Dimension

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



48.5284, 0.2046, 0.2565



48.5023, 0.2046, 0.2565



12.4836, 0.1602, 0.0967



19.7766, 0.2980, 0.3237



25.5717, 0.2049, 0.2578



2.6473, 0.2075, 0.2668



# Inverse Universe

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



25.4353, 0.3858, 0.1899



25.4275, 0.3859, 0.1899



53.3301, 0.4859, 0.4524



18.2293, 0.3171, 0.3106



13.3094, 0.3846, 0.1892

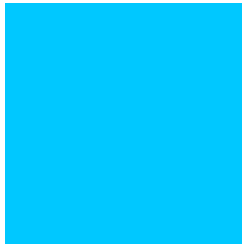


1.3118, 0.3758, 0.1844



# Previews

## White Background



This preview shows how the Yxy color 48.5286, 0.2046, 0.2565 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

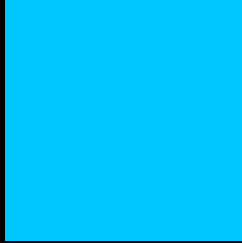
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.5286, 0.2046, 0.2565 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

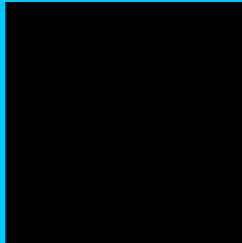
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 48.5286, 0.2046, 0.2565**

## Background



This preview shows how black text looks on a background with the Yxy color 48.5286, 0.2046, 0.2565.



This preview shows how white text looks on a background with the Yxy color 48.5286, 0.2046, 0.2565.

# 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

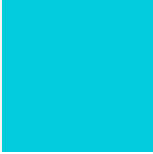
48.5286, 0.2046, 0.2565

### Protanopia

47.7235, 0.2608, 0.2564

### Deuteranopia

48.0468, 0.2473, 0.2421



## **Tritanopia**

48.3530, 0.2183, 0.3059

# Trichromacy



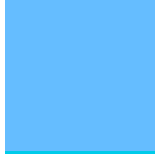
## Original Color

48.5286, 0.2046, 0.2565



## Protanomaly

45.7461, 0.2256, 0.2537



## Deuteranomaly

46.3819, 0.2198, 0.2449



## Tritanomaly

48.5951, 0.2131, 0.2872

# Monochromacy



## Original Color

48.5286, 0.2046, 0.2565



## Achromatopsia

29.1771, 0.3127, 0.3290



## Achromatomaly

33.1973, 0.2427, 0.2971

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  48.5286, 0.2046, 0.2565 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, 200, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 200, 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, 200, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 200, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 48.5286, 0.2046, 0.2565 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, 200, 255) }
```

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

```
.border{ border-color:rgb(0, 200, 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, 200, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 200, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 200, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 200,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.5286, 0.2046, 0.2565 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 200, 255) }
```

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

```
.background{ background-color: rgb(0, 200,  
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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