

# Converting Colors

$Y_{xy}(45.7537, 0.2012, 0.2583)$

Have a look what the booklet for  
Yxy(45.7537, 0.2012, 0.2583)  
contains.

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# Color

**Yxy(46.2572, 0.2052, 0.2588)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C4F8
RGB	0, 196, 248
RGB Percent	0%, 77%, 97%
CMY	1.0000, 0.2313, 0.0274
CMYK	1.00, 0.21, 0.00, 0.03
HSL	193°, 100%, 49%
HSV	193°, 100%, 97%
XYZ	36.6769, 46.2572, 95.8032
YIQ	143.3240, -133.5080, -25.3800

# Conversions

## Conversions Part 2

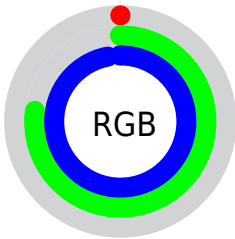
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 109, 248
Decimal	50424
CIELab	73.71, -22.67, -36.97
CIELCh	74, 43.370, 238.481
Yxy	46.2572, 0.2052, 0.2588
Android (android.graphics.Color)	4278240504 (0xFF00C4F8)
YUV	143.3240, 51.6053, -125.6951
Hunter-Lab	68.0126, -22.7632, -35.9075

# Details

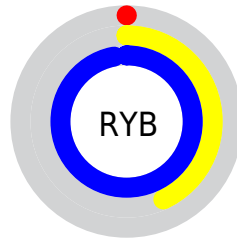
The Yxy color **46.2572, 0.2052, 0.2588** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light saturated cyan. A complement of this color would be **22.4119, 0.6185, 0.3471**, and the grayscale version is **27.4373, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.9813, 0.2418, 0.3265**, and **23.1076, 0.2010, 0.2434** is the 20% darker color. If you saturate the color by 10%, you get **46.2628, 0.2052, 0.2588**, and if you desaturate by 10%, it is **48.8534, 0.2088, 0.2664**.

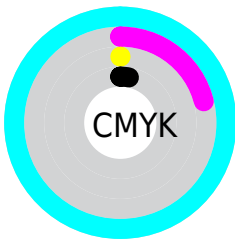
# Distribution



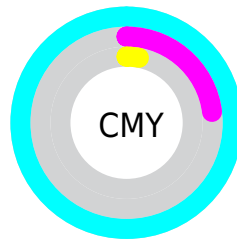
- Red (0%)
- Green (77%)
- Blue (97%)



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



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




- Cyan (100%)
- Magenta (23%)
- Yellow (3%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.2572, 0.2052, 0.2588 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 46.2572, 0.2052, 0.2588 by changing the saturation by 10% instead.




 46.2572, 0.2052,  
0.2588


 46.2572, 0.2052,  
0.2588

371.8417, 0.2560,  
0.2944


 32.4488, 0.1936,  
0.2500

 84.6038, 0.2229,  
0.2717


 21.7046, 0.1795,  
0.2389


 109.9108, 0.2297,  
0.2766


 13.6400, 0.1618,  
0.2245


 139.8195, 0.2356,  
0.2807

 7.8707, 0.1395,  
0.2052

 174.7142, 0.2408,  
0.2842

 4.0123, 0.1109,  
0.1787

 214.9794, 0.2453,  
0.2873

 1.6805, 0.0748,  
0.1411

260.9995, 0.2493,

 0.4110, 0.0000,

0.2900

0.0779

313.1588, 0.2528,  
0.2923

■ 0.0000, 0.0000,  
0.0000

■ 46.2572, 0.2052,  
0.2588

■ 46.2572, 0.2052,  
0.2588

■ 46.2628, 0.2052,  
0.2588

■ 48.8534, 0.2088,  
0.2664

■ 51.7858, 0.2140,  
0.2742

■ 55.1410, 0.2211,  
0.2820

■ 58.9683, 0.2303,  
0.2897

■ 63.3090, 0.2412,  
0.2972

■ 68.1993, 0.2537,  
0.3045

■ 73.6720, 0.2674,  
0.3113

■ 79.7567, 0.2820,  
0.3177

■ 86.4809, 0.2972,  
0.3236

# Harmonies

## Analogous

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



46.2572, 0.2121, 0.3046



46.2572, 0.2052, 0.2588



46.2572, 0.2229, 0.2366

# Triad

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



46.2572, 0.2052, 0.2588



46.2572, 0.3822, 0.2923



46.2572, 0.3548, 0.4402

# Complementary

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



46.2572, 0.2052, 0.2588



22.4119, 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.



46.2572, 0.4055, 0.4229



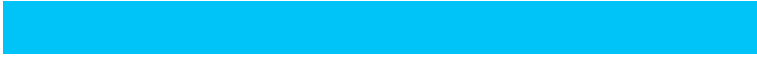
46.2572, 0.2052, 0.2588



46.2572, 0.4246, 0.3369

# Square

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



46.2572, 0.2052, 0.2588



46.2572, 0.3212, 0.2570



46.2572, 0.4325, 0.3835



46.2572, 0.2954, 0.4202



# Rectangle

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



46.2572, 0.2052, 0.2588



46.2572, 0.2475, 0.2345



46.2572, 0.4325, 0.3835



46.2572, 0.3734, 0.4380

# Sweetspot

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



46.2628, 0.2052, 0.2588



78.4555, 0.2673, 0.3113



67.3630, 0.2951, 0.5824



16.2494, 0.2614, 0.3084



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

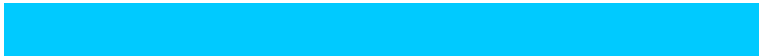


# Same Dimension

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



46.2628, 0.2052, 0.2588



49.2470, 0.2052, 0.2587



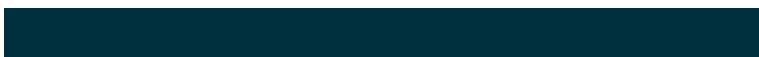
11.7287, 0.1602, 0.0968



18.9545, 0.2980, 0.3239



25.2009, 0.2056, 0.2600



2.4834, 0.2081, 0.2692



# Inverse Universe

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



23.9429, 0.3836, 0.1887



25.5027, 0.3837, 0.1887



50.0752, 0.4858, 0.4524



17.4586, 0.3170, 0.3104



12.9550, 0.3824, 0.1880

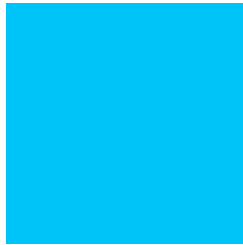


1.2149, 0.3736, 0.1832



# Previews

## White Background



This preview shows how the Yxy color 46.2572, 0.2052, 0.2588 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 46.2572, 0.2052, 0.2588 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

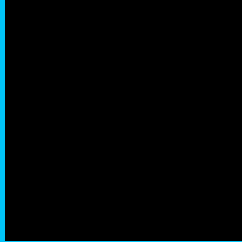
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 46.2572, 0.2052, 0.2588**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.2572, 0.2052, 0.2588.



This preview shows how white text looks on a background with the Yxy color 46.2572, 0.2052, 0.2588.

# 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

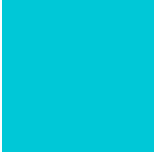
46.2572, 0.2052, 0.2588

### Protanopia

45.7806, 0.2625, 0.2597

### Deuteranopia

45.8376, 0.2457, 0.2396



## Tritanopia

46.2148, 0.2186, 0.3069

# Trichromacy



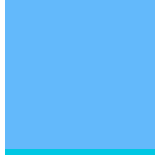
## Original Color

46.2572, 0.2052, 0.2588



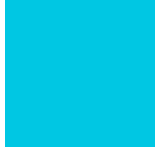
## Protanomaly

43.9332, 0.2269, 0.2572



## Deuteranomaly

44.3156, 0.2193, 0.2436



## Tritanomaly

46.3929, 0.2136, 0.2890

# Monochromacy



## Original Color

46.2572, 0.2052, 0.2588



## Achromatopsia

27.4677, 0.3127, 0.3290



## Achromatomaly

31.4010, 0.2426, 0.2979

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.2572, 0.2052, 0.2588 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, 196, 248)` looks like.

```
.text, #text, p{  
    color:rgb(0, 196, 248)  
}
```

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, 196, 248) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 196, 248) }
```

## Border

The CSS property to change the border of an element to Yxy 46.2572, 0.2052, 0.2588 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, 196, 248) }
```

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

```
.border{ border-color:rgb(0, 196, 248) }
```

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

Here you see how a box with a 4 pixel rgb(0, 196, 248) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 196, 248); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 196, 248);  
box-shadow:4px 4px 4px 4px rgb(0, 196,  
248) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.2572, 0.2052, 0.2588 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 196, 248) }
```

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

```
.background{ background-color: rgb(0, 196,  
248) }
```

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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