

# Converting Colors

$Y_{xy}(43.8716, 0.1948, 0.2759)$

Have a look what the booklet for  
Yxy(43.8716, 0.1948, 0.2759)  
contains.

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# Color

**Yxy(45.8157, 0.2107, 0.2784)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01C5E9
RGB	1, 197, 233
RGB Percent	0%, 77%, 91%
CMY	0.9978, 0.2274, 0.0864
CMYK	1.00, 0.15, 0.00, 0.09
HSL	189°, 100%, 46%
HSV	189°, 100%, 91%
XYZ	34.6745, 45.8157, 84.0777
YIQ	142.5000, -128.3720, -30.3560

# Conversions

## Conversions Part 2

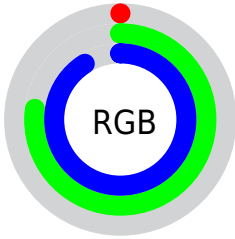
Format	Color
<b>RYB</b>	1, 107, 233
Decimal	116201
CIELab	73.43, -28.19, -29.30
CIElCh	73, 40.661, 226.112
Yxy	45.8157, 0.2107, 0.2784
Android (android.graphics.Color)	4278306281 (0xFF01C5E9)
YUV	142.5000, 44.6165, -124.0955
Hunter-Lab	67.6873, -27.0118, -26.2659

# Details

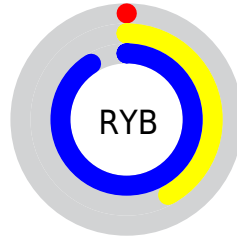
The Yxy color **45.8157, 0.2107, 0.2784** is a dark color, and the websafe version is hex **00CCFF**. The color can be described as middle washed cyan. A complement of this color would be **18.6122, 0.6265, 0.3405**, and the grayscale version is **27.0597, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.4186, 0.2411, 0.3276**, and **22.8192, 0.2074, 0.2665** is the 20% darker color. If you saturate the color by 10%, you get **45.7744, 0.2106, 0.2783**, and if you desaturate by 10%, it is **47.6629, 0.2136, 0.2839**.

# Distribution



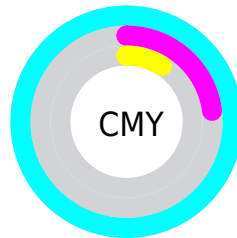
- Red (0%)
- Green (77%)
- Blue (91%)



- Red (0%)
- Yellow (42%)
- Blue (91%)



- Cyan (100%)
- Magenta (15%)
- Yellow (0%)
- Black (9%)




- Cyan (100%)
- Magenta (23%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.8157, 0.2107, 0.2784 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 45.8157, 0.2107, 0.2784 by changing the saturation by 10% instead.





 45.8157, 0.2107,  
0.2784


 45.8157, 0.2107,  
0.2784

 370.0672, 0.2593,  
0.3050


 32.1004, 0.1995,  
0.2715


 83.9431, 0.2277,  
0.2883


 21.4382, 0.1856,  
0.2627


 109.1240, 0.2343,  
0.2919


 13.4447, 0.1681,  
0.2509


 138.8956, 0.2400,  
0.2950

 7.7355, 0.1456,  
0.2345

 173.6422, 0.2449,  
0.2976

 3.9262, 0.1163,  
0.2108

 213.7483, 0.2492,  
0.2998

 1.6323, 0.0776,  
0.1749

 259.5982, 0.2530,

 0.3793, 0.0000,

0.3018

0.1011

311.5764, 0.2563,  
0.3035

■ 0.0000, 0.0000,  
0.0000

■ 45.8157, 0.2107,  
0.2784

■ 45.8157, 0.2107,  
0.2784

■ 45.7744, 0.2106,  
0.2783

■ 47.6629, 0.2136,  
0.2839

■ 49.7747, 0.2182,  
0.2894

■ 52.2215, 0.2246,  
0.2950

■ 55.0447, 0.2331,  
0.3005

■ 58.2793, 0.2433,  
0.3059

■ 61.9559, 0.2552,  
0.3112

■ 66.1019, 0.2684,  
0.3161

■ 70.7424, 0.2827,  
0.3208

■ 75.9008, 0.2977,  
0.3251

# Harmonies

## Analogous

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



45.8157, 0.2272, 0.3294



45.8157, 0.2107, 0.2784



45.8157, 0.2180, 0.2477

# Triad

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



45.8157, 0.2107, 0.2784



45.8157, 0.3555, 0.2791



45.8157, 0.3743, 0.4305

# Complementary

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



45.8157, 0.2107, 0.2784



18.6122, 0.6265, 0.3405

# 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.



45.8157, 0.4143, 0.4044



45.8157, 0.2107, 0.2784



45.8157, 0.4048, 0.3188

# Square

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



45.8157, 0.2107, 0.2784



45.8157, 0.2971, 0.2509



45.8157, 0.4266, 0.3632



45.8157, 0.3199, 0.4266



# Rectangle

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



45.8157, 0.2107, 0.2784



45.8157, 0.2356, 0.2397



45.8157, 0.4266, 0.3632



45.8157, 0.3900, 0.4244

# Sweetspot

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



45.8173, 0.2107, 0.2784



80.9426, 0.2679, 0.3160



58.3842, 0.2969, 0.5887



16.8501, 0.2621, 0.3139



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

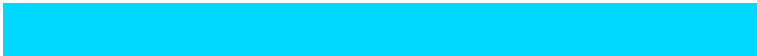


# Same Dimension

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



45.8173, 0.2107, 0.2784



56.0968, 0.2106, 0.2780



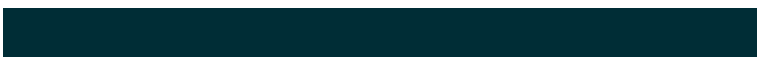
11.9043, 0.1640, 0.1102



16.7017, 0.2981, 0.3253



26.1319, 0.2109, 0.2791



2.1591, 0.2130, 0.2867



# Inverse Universe

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



21.3607, 0.3649, 0.1785



26.1942, 0.3653, 0.1786



39.6524, 0.4989, 0.4419



15.2714, 0.3162, 0.3093



12.1308, 0.3643, 0.1780

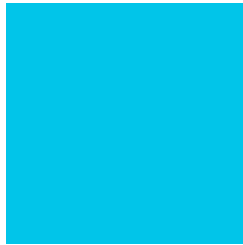


0.9634, 0.3573, 0.1742



# Previews

## White Background



This preview shows how the Yxy color 45.8157, 0.2107, 0.2784 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

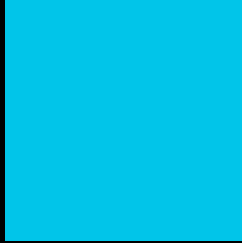
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.8157, 0.2107, 0.2784 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

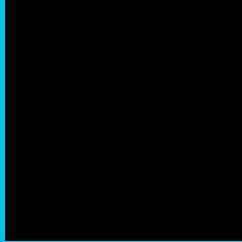
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.8157, 0.2107, 0.2784**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.8157, 0.2107, 0.2784.



This preview shows how white text looks on a background with the Yxy color 45.8157, 0.2107, 0.2784.

# 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

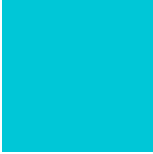
45.8221, 0.2107, 0.2784

### Protanopia

45.1048, 0.2757, 0.2758

### Deuteranopia

45.1162, 0.2591, 0.2527



## Tritanopia

45.7531, 0.2182, 0.3053

# Trichromacy



## Original Color

45.8221, 0.2107, 0.2784



## Protanomaly

42.8509, 0.2350, 0.2738



## Deuteranomaly

43.3404, 0.2280, 0.2593



## Tritanomaly

45.6621, 0.2151, 0.2942

# Monochromacy



## Original Color

45.8221, 0.2107, 0.2784



## Achromatopsia

27.0498, 0.3127, 0.3290



## Achromatomaly

31.1600, 0.2463, 0.3073

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.8157, 0.2107, 0.2784 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, 197, 233)` looks like.

```
.text, #text, p{  
    color:rgb(1, 197, 233)  
}
```

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, 197, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 197, 233) }
```

## Border

The CSS property to change the border of an element to Yxy 45.8157, 0.2107, 0.2784 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, 197, 233) }
```

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

```
.border{ border-color:rgb(1, 197, 233) }
```

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

Here you see how a box with a 4 pixel rgb(1, 197, 233) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 197, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 197, 233);  
box-shadow:4px 4px 4px 4px rgb(1, 197,  
233) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.8157, 0.2107, 0.2784 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 197, 233) }
```

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

```
.background{ background-color: rgb(1, 197,  
233) }
```

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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