

# Converting Colors

$Y_{xy}(46.6737, 0.2086, 0.2677)$

Have a look what the booklet for  
Yxy(46.6737, 0.2086, 0.2677)  
contains.

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# Color

**Yxy(46.4719, 0.2086, 0.2674)**

# Conversions

## Conversions Part 1

Format	Color
Hex	13C5F2
RGB	19, 197, 242
RGB Percent	7%, 77%, 95%
CMY	0.9265, 0.2275, 0.0510
CMYK	0.92, 0.19, 0.00, 0.05
HSL	192°, 90%, 51%
HSV	192°, 92%, 95%
XYZ	36.2529, 46.4719, 91.0668
YIQ	148.9080, -120.5330, -23.7410

# Conversions

## Conversions Part 2

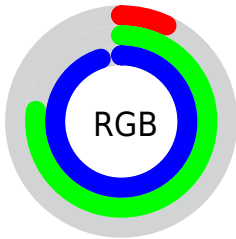
Format	Color
R <sub>Y</sub> B	19, 118, 242
Decimal	1295858
CIE Lab	73.85, -24.68, -33.52
CIE LCh	74, 41.626, 233.639
Yxy	46.4719, 0.2086, 0.2674
Android (android.graphics.Color)	4279485938 (0xFF13C5F2)
YUV	148.9080, 45.8944, -113.9293
Hunter-Lab	68.1703, -24.3718, -31.4847

# Details

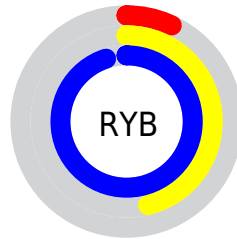
The Yxy color **46.4719, 0.2086, 0.2674** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **22.5634, 0.6020, 0.3523**, and the grayscale version is **29.8176, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.7485, 0.2427, 0.3276**, and **23.1901, 0.2035, 0.2526** is the 20% darker color. If you saturate the color by 10%, you get **44.6437, 0.2060, 0.2617**, and if you desaturate by 10%, it is **49.1018, 0.2133, 0.2748**.

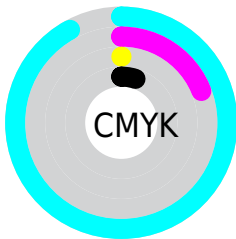
# Distribution



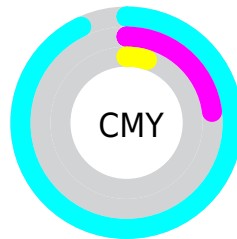
- Red (7%)
- Green (77%)
- Blue (95%)



- Red (7%)
- Yellow (46%)
- Blue (95%)



- Cyan (92%)
- Magenta (19%)
- Yellow (0%)
- Black (5%)




- Cyan (93%)
- Magenta (23%)
- Yellow (5%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.4719, 0.2086, 0.2674 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 46.4719, 0.2086, 0.2674 by changing the saturation by 10% instead.




 46.4719, 0.2086,  
0.2674


 46.4719, 0.2086,  
0.2674


 372.7026, 0.2579,  
0.2990

 32.6184, 0.1973,  
0.2595


 84.9248, 0.2258,  
0.2790

 21.8343, 0.1834,  
0.2494


 110.2930, 0.2325,  
0.2833

 13.7352, 0.1660,  
0.2361


 140.2681, 0.2382,  
0.2869

 7.9367, 0.1438,  
0.2182

 175.2346, 0.2432,  
0.2901

 4.0545, 0.1151,  
0.1929

 215.5770, 0.2476,  
0.2928

 1.7041, 0.0783,  
0.1561

 261.6795, 0.2514,

 0.4263, 0.0000,

0.2951

0.0915

313.9266, 0.2549,  
0.2972

■ 0.0000, 0.0000,  
0.0000

■ 46.4719, 0.2086,  
0.2674

■ 46.4719, 0.2086,  
0.2674

■ 44.6437, 0.2060,  
0.2617

■ 49.1018, 0.2133,  
0.2748

■ 52.1120, 0.2199,  
0.2822

■ 55.5525, 0.2285,  
0.2896

■ 59.4636, 0.2389,  
0.2969

■ 63.8803, 0.2510,  
0.3039

■ 68.8338, 0.2644,  
0.3106

■ 74.3528, 0.2787,  
0.3168

■ 80.4633, 0.2938,  
0.3226

■ 87.1900, 0.3092,  
0.3279

# Harmonies

## Analogous

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



46.4719, 0.2193, 0.3148



46.4719, 0.2086, 0.2674



46.4719, 0.2219, 0.2420

# Triad

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



46.4719, 0.2086, 0.2674



46.4719, 0.3706, 0.2875



46.4719, 0.3622, 0.4349

# Complementary

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



46.4719, 0.2086, 0.2674



22.5634, 0.6020, 0.3523

# 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.



46.4719, 0.4080, 0.4143



46.4719, 0.2086, 0.2674



46.4719, 0.4153, 0.3297

# Square

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



46.4719, 0.2086, 0.2674



46.4719, 0.3114, 0.2554



46.4719, 0.4288, 0.3748



46.4719, 0.3055, 0.4217



# Rectangle

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



46.4719, 0.2086, 0.2674



46.4719, 0.2435, 0.2376



46.4719, 0.4288, 0.3748



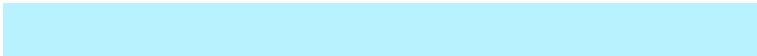
46.4719, 0.3794, 0.4312

# Sweetspot

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



46.4735, 0.2086, 0.2674



80.0371, 0.2703, 0.3132



64.0064, 0.2932, 0.5699



16.5735, 0.2642, 0.3105



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

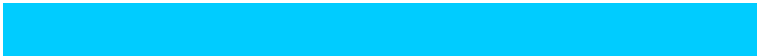


# Same Dimension

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



46.4735, 0.2086, 0.2674



50.2082, 0.2060, 0.2615



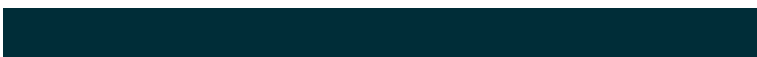
13.1573, 0.1657, 0.1112



17.3559, 0.2981, 0.3241



24.1811, 0.2064, 0.2630



2.1472, 0.2091, 0.2726



# Inverse Universe

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



23.3656, 0.3750, 0.1867



25.5997, 0.3809, 0.1872



49.5937, 0.4773, 0.4546



15.9736, 0.3169, 0.3103



12.2344, 0.3795, 0.1864

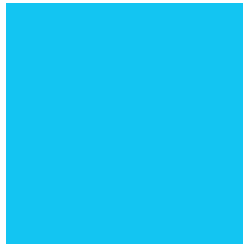


1.0315, 0.3703, 0.1814



# Previews

## White Background



This preview shows how the Yxy color 46.4719, 0.2086, 0.2674 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 46.4719, 0.2086, 0.2674 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

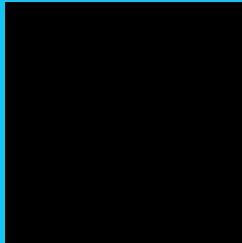
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 46.4719, 0.2086, 0.2674**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.4719, 0.2086, 0.2674.



This preview shows how white text looks on a background with the Yxy color 46.4719, 0.2086, 0.2674.

# 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

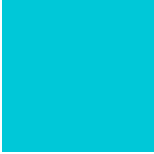
46.4818, 0.2086, 0.2674

### Protanopia

45.7671, 0.2684, 0.2666

### Deuteranopia

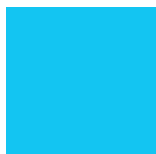
45.9682, 0.2522, 0.2463



## Tritanopia

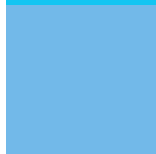
46.2664, 0.2182, 0.3055

# Trichromacy



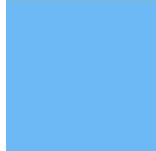
## Original Color

46.4818, 0.2086, 0.2674



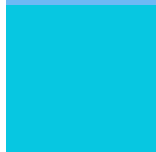
## Protanomaly

44.1585, 0.2339, 0.2649



## Deuteranomaly

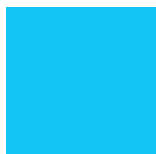
44.5417, 0.2261, 0.2509



## Tritanomaly

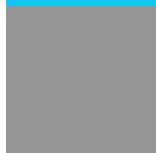
46.3283, 0.2147, 0.2917

# Monochromacy



## Original Color

46.4818, 0.2086, 0.2674



## Achromatopsia

30.0544, 0.3127, 0.3290



## Achromatomaly

33.5161, 0.2492, 0.3020

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.4719, 0.2086, 0.2674 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(19, 197, 242)` looks like.

```
.text, #text, p{  
    color:rgb(19, 197, 242)  
}
```

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(19, 197, 242) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(19, 197, 242) }
```

## Border

The CSS property to change the border of an element to Yxy 46.4719, 0.2086, 0.2674 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(19, 197, 242) }
```

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

```
.border{ border-color:rgb(19, 197, 242) }
```

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

Here you see how a box with a 4 pixel rgb(19, 197, 242) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(19, 197, 242); -webkit-box-  
shadow:4px 4px 4px 4px rgb(19, 197, 242);  
box-shadow:4px 4px 4px 4px rgb(19, 197,  
242) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.4719, 0.2086, 0.2674 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(19, 197, 242) }
```

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

```
.background{ background-color: rgb(19, 197,  
242) }
```

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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