

# Converting Colors

$Y_{xy}(63.0998, 0.1666, 0.1457)$

Have a look what the booklet for  
Yxy(63.0998, 0.1666, 0.1457)  
contains.

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# Color

**Yxy(50.8826, 0.2065, 0.2635)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00CDFF
RGB	0, 205, 255
RGB Percent	0%, 80%, 100%
CMY	1.0000, 0.1960, 0.0000
CMYK	1.00, 0.20, 0.00, 0.00
HSL	192°, 100%, 50%
HSV	192°, 100%, 100%
XYZ	39.8757, 50.8826, 102.3445
YIQ	149.4050, -138.2300, -27.9100

# Conversions

## Conversions Part 2

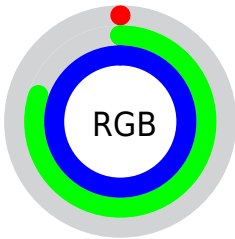
Format	Color
<a href="#">RYB</a>	0, 114, 255
Decimal	52735
CIELab	76.61, -24.87, -36.25
CIELCh	77, 43.955, 235.548
Yxy	50.8826, 0.2065, 0.2635
Android (android.graphics.Color)	4278242815 (0xFF00CDFF)
YUV	149.4050, 52.0583, -131.0282
Hunter-Lab	71.3320, -25.0468, -35.1346

# Details

The Yxy color **50.8826, 0.2065, 0.2635** 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 **23.5402, 0.6211, 0.3450**, and the grayscale version is **30.0574, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3848, 0.2430, 0.3288**, and **26.2104, 0.2028, 0.2500** is the 20% darker color. If you saturate the color by 10%, you get **50.8882, 0.2065, 0.2635**, and if you desaturate by 10%, it is **53.5314, 0.2099, 0.2706**.

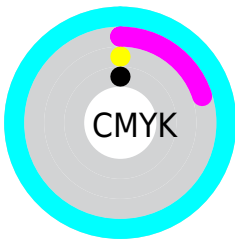
# Distribution



- Red (0%)
- Green (80%)
- Blue (100%)



- Red (0%)
- Yellow (45%)
- Blue (100%)



- Cyan (100%)
- Magenta (20%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (20%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.8826, 0.2065, 0.2635 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 50.8826, 0.2065, 0.2635 by changing the saturation by 10% instead.





 50.8826, 0.2065,  
0.2635

 50.8826, 0.2065,  
0.2635


390.1075, 0.2559,  
0.2965


 36.1152, 0.1954,  
0.2555


 91.4812, 0.2235,  
0.2754

 24.5232, 0.1819,  
0.2453


 118.0812, 0.2302,  
0.2799

 15.7222, 0.1652,  
0.2322

 149.3942, 0.2360,  
0.2837

 9.3278, 0.1441,  
0.2148


 185.8045, 0.2410,  
0.2870

 4.9556, 0.1172,  
0.1908

 227.6966, 0.2454,  
0.2898

 2.2212, 0.0831,  
0.1569

275.4549, 0.2493,

 0.7315, 0.0133,

0.2923

0.1106

329.4637, 0.2528,  
0.2945

■ 0.0000, 0.0000,  
0.0000

■ 50.8826, 0.2065,  
0.2635

■ 50.8826, 0.2065,  
0.2635

■ 50.8882, 0.2065,  
0.2635

■ 53.5314, 0.2099,  
0.2706

■ 56.5294, 0.2149,  
0.2778

■ 59.9677, 0.2218,  
0.2851

■ 63.8990, 0.2308,  
0.2923

■ 68.3674, 0.2415,  
0.2993

■ 73.4116, 0.2539,  
0.3060

■ 79.0664, 0.2675,  
0.3124

■ 85.3636, 0.2820,  
0.3184

■ 92.3323, 0.2972,  
0.3240

# Harmonies

## Analogous

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



50.8826, 0.2157, 0.3107



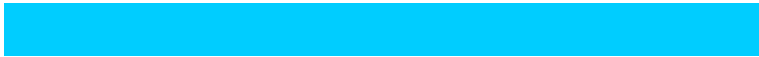
50.8826, 0.2065, 0.2635



50.8826, 0.2216, 0.2392

# Triad

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



50.8826, 0.2065, 0.2635



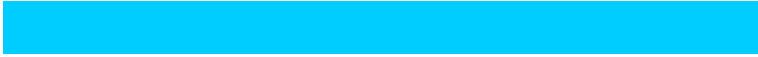
50.8826, 0.3756, 0.2891



50.8826, 0.3597, 0.4379

# Complementary

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



50.8826, 0.2065, 0.2635



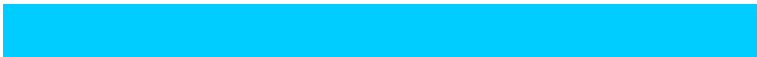
23.5402, 0.6211, 0.3450

# 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.



50.8826, 0.4078, 0.4182



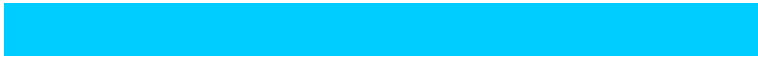
50.8826, 0.2065, 0.2635



50.8826, 0.4198, 0.3324

# Square

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



50.8826, 0.2065, 0.2635



50.8826, 0.3151, 0.2555



50.8826, 0.4312, 0.3785

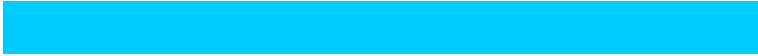


50.8826, 0.3015, 0.4220



# Rectangle

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



50.8826, 0.2065, 0.2635



50.8826, 0.2445, 0.2357



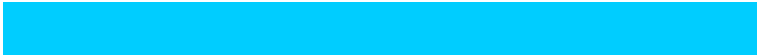
50.8826, 0.4312, 0.3785



50.8826, 0.3776, 0.4346

# Sweetspot

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



50.8882, 0.2065, 0.2635



79.0664, 0.2675, 0.3124



71.7232, 0.2959, 0.5851



16.3968, 0.2616, 0.3098



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.



50.8882, 0.2065, 0.2635



13.0678, 0.1613, 0.1005



19.8407, 0.2980, 0.3242



26.8042, 0.2069, 0.2647



2.7571, 0.2091, 0.2729

# Inverse Universe

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



25.6683, 0.3790, 0.1861



51.6288, 0.4905, 0.4488



18.2357, 0.3168, 0.3101



13.4339, 0.3779, 0.1855



1.3229, 0.3701, 0.1813

# Previews

## White Background



This preview shows how the Yxy color 50.8826, 0.2065, 0.2635 looks on a white background.

## Color Contrast Check

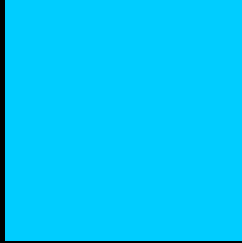
Large Text (above 18pt) WCAG AA × Fail

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 50.8826, 0.2065, 0.2635 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

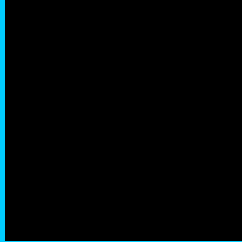
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 50.8826, 0.2065, 0.2635**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.8826, 0.2065, 0.2635.



This preview shows how white text looks on a background with the Yxy color 50.8826, 0.2065, 0.2635.



# 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

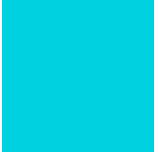
50.8826, 0.2065, 0.2635

### Protanopia

49.8734, 0.2654, 0.2630

### Deuteranopia

50.0249, 0.2522, 0.2468



## **Tritanopia**

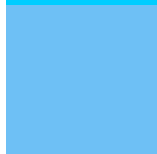
51.0372, 0.2184, 0.3064

# Trichromacy



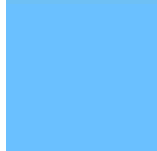
## Original Color

50.8826, 0.2065, 0.2635



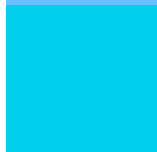
## Protanomaly

47.6068, 0.2285, 0.2605



## Deuteranomaly

47.9834, 0.2226, 0.2493



## Tritanomaly

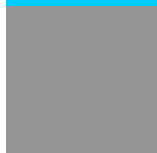
51.1679, 0.2140, 0.2905

# Monochromacy



## Original Color

50.8826, 0.2065, 0.2635



## Achromatopsia

30.0544, 0.3127, 0.3290



## Achromatomaly

34.4397, 0.2430, 0.2990

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  50.8826, 0.2065, 0.2635 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, 205, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 205, 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, 205, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 205, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 50.8826, 0.2065, 0.2635 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, 205, 255) }
```

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

```
.border{ border-color:rgb(0, 205, 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, 205, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 205, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 205, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 205,  
255) }
```

# Background

The CSS property to change the background color of an element to Yxy 50.8826, 0.2065, 0.2635 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 205, 255) }
```

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

```
.background{ background-color: rgb(0, 205,  
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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