

# Converting Colors

$Y_{xy}(48.8485, 0.1652, 0.2341)$

Have a look what the booklet for  
Yxy(48.8485, 0.1652, 0.2341)  
contains.

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# Color

**Yxy(52.8209, 0.2081, 0.2691)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D1FF
RGB	0, 209, 255
RGB Percent	0%, 82%, 100%
CMY	0.9990, 0.1804, 0.0001
CMYK	1.00, 0.18, 0.00, 0.00
HSL	191°, 100%, 50%
HSV	191°, 100%, 100%
XYZ	40.8474, 52.8209, 102.6190
YIQ	151.7530, -139.3300, -30.0020

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 115, 255
Decimal	53759
CIELab	77.77, -26.86, -34.42
CIELCh	78, 43.655, 232.036
Yxy	52.8209, 0.2081, 0.2691
Android (android.graphics.Color)	4278243839 (0xFF00D1FF)
YUV	151.7530, 50.9008, -133.0874
Hunter-Lab	72.6780, -26.8637, -32.8410

# Details

The Yxy color **52.8209, 0.2081, 0.2691** 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 **23.2249, 0.6235, 0.3430**, and the grayscale version is **31.1440, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3848, 0.2430, 0.3288**, and **27.1884, 0.2043, 0.2554** is the 20% darker color. If you saturate the color by 10%, you get **52.7980, 0.2081, 0.2690**, and if you desaturate by 10%, it is **55.3278, 0.2113, 0.2756**.

# Distribution



- Red (0%)
- Green (82%)
- Blue (100%)



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



- Cyan (100%)
- Magenta (18%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (18%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 52.8209, 0.2081, 0.2691 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 52.8209, 0.2081, 0.2691 by changing the saturation by 10% instead.




 52.8209, 0.2081,  
0.2691


 52.8209, 0.2081,  
0.2691


 397.5976, 0.2565,  
0.2993


 37.6598, 0.1973,  
0.2617


 94.3408, 0.2248,  
0.2800


 25.7188, 0.1841,  
0.2523


 121.4683, 0.2313,  
0.2842

 16.6134, 0.1677,  
0.2402


 153.3535, 0.2370,  
0.2877

 9.9592, 0.1471,  
0.2240

 190.3808, 0.2419,  
0.2907

 5.3719, 0.1209,  
0.2016

 232.9344, 0.2462,  
0.2933

 2.4671, 0.0873,  
0.1694

 281.3988, 0.2501,

 0.8601, 0.0236,

0.2955

0.1255

336.1584, 0.2535,  
0.2976

■ 0.0000, 0.0000,  
0.0000

■ 52.8209, 0.2081,  
0.2691

■ 52.8209, 0.2081,  
0.2691

■ 52.7980, 0.2081,  
0.2690

■ 55.3278, 0.2113,  
0.2756

■ 58.1779, 0.2161,  
0.2822

■ 61.4573, 0.2228,  
0.2888

■ 65.2182, 0.2316,  
0.2953

■ 69.5047, 0.2421,  
0.3018

■ 74.3553, 0.2543,  
0.3080

■ 79.8044, 0.2678,  
0.3138

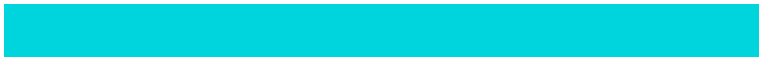
■ 85.8837, 0.2822,  
0.3193

■ 92.6223, 0.2974,  
0.3244

# Harmonies

## Analogous

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



52.8209, 0.2201, 0.3178



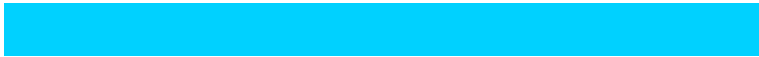
52.8209, 0.2081, 0.2691



52.8209, 0.2202, 0.2424

# Triad

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



52.8209, 0.2081, 0.2691



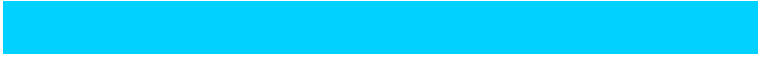
52.8209, 0.3678, 0.2853



52.8209, 0.3653, 0.4351

# Complementary

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



52.8209, 0.2081, 0.2691



23.2249, 0.6235, 0.3430

# 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.



52.8209, 0.4103, 0.4129



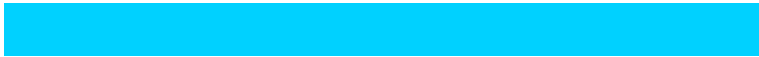
52.8209, 0.2081, 0.2691



52.8209, 0.4141, 0.3272

# Square

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



52.8209, 0.2081, 0.2691



52.8209, 0.3082, 0.2537



52.8209, 0.4295, 0.3726

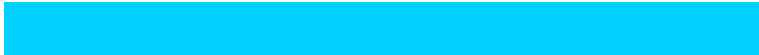


52.8209, 0.3085, 0.4239



# Rectangle

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



52.8209, 0.2081, 0.2691



52.8209, 0.2411, 0.2372



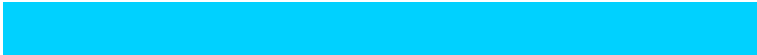
52.8209, 0.4295, 0.3726



52.8209, 0.3824, 0.4307

# Sweetspot

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



52.8227, 0.2081, 0.2691



79.7711, 0.2676, 0.3138



71.6711, 0.2965, 0.5873



16.5669, 0.2618, 0.3113



0.0000, 0.0000, 0.0000

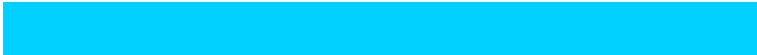


21.4041, 0.3127, 0.3290

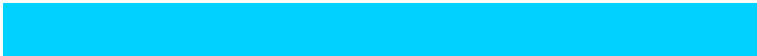


# Same Dimension

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



52.8227, 0.2081, 0.2691



52.8148, 0.2081, 0.2690



13.7418, 0.1625, 0.1048



19.8911, 0.2980, 0.3246



27.7988, 0.2084, 0.2701



2.8454, 0.2104, 0.2776



# Inverse Universe

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



25.8625, 0.3737, 0.1832



25.8628, 0.3737, 0.1832



50.0268, 0.4949, 0.4452



18.2408, 0.3166, 0.3097



13.5343, 0.3727, 0.1827



1.3318, 0.3657, 0.1788



# Previews

## White Background



This preview shows how the Yxy color 52.8209, 0.2081, 0.2691 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

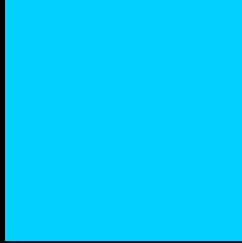
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 52.8209, 0.2081, 0.2691 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

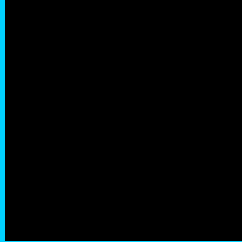
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 52.8209, 0.2081, 0.2691**

## **Background**



This preview shows how black text looks on a background with the Yxy color 52.8209, 0.2081, 0.2691.

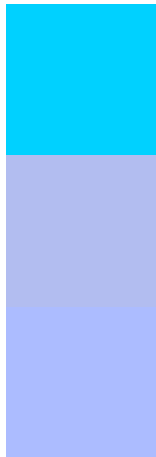


This preview shows how white text looks on a background with the Yxy color 52.8209, 0.2081, 0.2691.

# 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

52.8209, 0.2081, 0.2691

### Protanopia

52.1514, 0.2693, 0.2686

### Deuteranopia

51.9571, 0.2565, 0.2512



## Tritanopia

52.7441, 0.2182, 0.3053

# Trichromacy



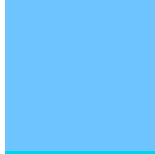
## Original Color

52.8209, 0.2081, 0.2691



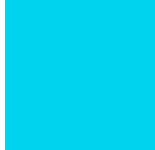
## Protanomaly

49.5831, 0.2310, 0.2661



## Deuteranomaly

50.0149, 0.2254, 0.2550



## Tritanomaly

52.7616, 0.2145, 0.2923

# Monochromacy



## Original Color

52.8209, 0.2081, 0.2691



## Achromatopsia

31.3989, 0.3127, 0.3290



## Achromatomaly

36.1027, 0.2447, 0.3040

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 52.8209, 0.2081, 0.2691 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, 209, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 209, 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, 209, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 209, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 52.8209, 0.2081, 0.2691 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, 209, 255) }
```

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

```
.border{ border-color:rgb(0, 209, 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, 209, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 209, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 209, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 209,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 52.8209, 0.2081, 0.2691 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 209, 255) }
```

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

```
.background{ background-color: rgb(0, 209,  
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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