

# Converting Colors

$Y_{xy}(55.8068, 0.2031, 0.2629)$

Have a look what the booklet for  
Yxy(55.8068, 0.2031, 0.2629)  
contains.

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# Color

**Yxy(55.8209, 0.2104, 0.2773)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01D7FF
RGB	1, 215, 255
RGB Percent	0%, 84%, 100%
CMY	0.9968, 0.1569, 0.0001
CMYK	1.00, 0.16, 0.00, 0.00
HSL	189°, 100%, 50%
HSV	189°, 100%, 100%
XYZ	42.3538, 55.8209, 103.1267
YIQ	155.5740, -140.3840, -32.9280

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	1, 117, 255
Decimal	120831
CIE Lab	79.51, -29.78, -31.74
CIE LCh	80, 43.523, 226.817
Yxy	55.8209, 0.2104, 0.2773
Android (android.graphics.Color)	4278310911 (0xFF01D7FF)
YUV	155.5740, 49.0170, -135.5614
Hunter-Lab	74.7134, -29.5596, -29.5385

# Details

The Yxy color **55.8209, 0.2104, 0.2773** 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 **22.8288, 0.6266, 0.3404**, and the grayscale version is **32.8438, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.4530, 0.2433, 0.3288**, and **29.2188, 0.2072, 0.2660** is the 20% darker color. If you saturate the color by 10%, you get **55.7518, 0.2103, 0.2771**, and if you desaturate by 10%, it is **58.1091, 0.2133, 0.2829**.

# Distribution



- Red (0%)
- Green (84%)
- Blue (100%)



- Red (0%)
- Yellow (46%)
- Blue (100%)



- Cyan (100%)
- Magenta (16%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (16%)
- Yellow (0%)


# Brightness & Saturation Gradients


These gradients show how the Yxy color 55.8209, 0.2104, 0.2773 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 55.8209, 0.2104, 0.2773 by changing the saturation by 10% instead.





 55.8209, 0.2104,  
0.2773

 55.8209, 0.2104,  
0.2773


 409.0162, 0.2575,  
0.3036

 40.0593, 0.1999,  
0.2708


 98.7427, 0.2266,  
0.2868

 27.5848, 0.1872,  
0.2626


 126.6717, 0.2329,  
0.2904


 18.0129, 0.1714,  
0.2520


 159.4253, 0.2384,  
0.2934

 10.9593, 0.1516,  
0.2376

 197.3879, 0.2432,  
0.2960

 6.0395, 0.1262,  
0.2176

 240.9439, 0.2474,  
0.2983

 2.8691, 0.0936,  
0.1884

290.4777, 0.2511,

 1.0638, 0.0378,

0.3003

0.1468

346.3736, 0.2545,  
0.3020

■ 0.0000, 0.0000,  
0.0000

■ 55.8209, 0.2104,  
0.2773

■ 55.8209, 0.2104,  
0.2773

■ 55.7518, 0.2103,  
0.2771

■ 58.1091, 0.2133,  
0.2829

■ 60.7285, 0.2178,  
0.2885

■ 63.7630, 0.2243,  
0.2942

■ 67.2646, 0.2328,  
0.2999

■ 71.2767, 0.2431,  
0.3055

■ 75.8378, 0.2550,  
0.3108

■ 80.9820, 0.2683,  
0.3159

■ 86.7407, 0.2826,  
0.3207

■ 93.1428, 0.2977,  
0.3251

# Harmonies

## Analogous

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



55.8209, 0.2264, 0.3280



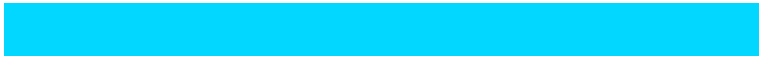
55.8209, 0.2104, 0.2773



55.8209, 0.2182, 0.2471

# Triad

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



55.8209, 0.2104, 0.2773



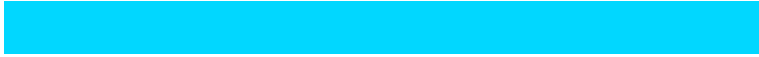
55.8209, 0.3569, 0.2799



55.8209, 0.3733, 0.4311

# Complementary

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



55.8209, 0.2104, 0.2773



22.8288, 0.6266, 0.3404

# 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.



55.8209, 0.4138, 0.4054



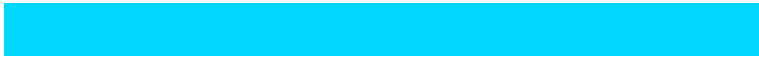
55.8209, 0.2104, 0.2773



55.8209, 0.4059, 0.3198

# Square

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



55.8209, 0.2104, 0.2773



55.8209, 0.2984, 0.2512



55.8209, 0.4270, 0.3643

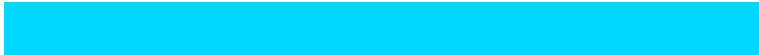


55.8209, 0.3185, 0.4263



# Rectangle

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



55.8209, 0.2104, 0.2773



55.8209, 0.2362, 0.2394



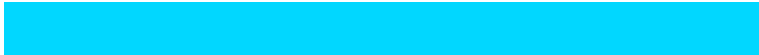
55.8209, 0.4270, 0.3643



55.8209, 0.3891, 0.4252

# Sweetspot

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



55.8229, 0.2104, 0.2773



80.8256, 0.2678, 0.3157



71.6547, 0.2970, 0.5892



16.8218, 0.2621, 0.3136



0.0000, 0.0000, 0.0000

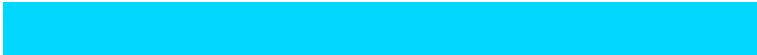


21.4041, 0.3127, 0.3290

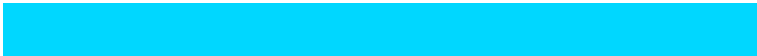


# Same Dimension

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



55.8229, 0.2104, 0.2773



55.7647, 0.2103, 0.2771



14.4980, 0.1638, 0.1095



19.9660, 0.2980, 0.3252



29.3208, 0.2106, 0.2781



2.9799, 0.2124, 0.2845



# Inverse Universe

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



26.1790, 0.3660, 0.1791



26.1606, 0.3661, 0.1791



48.5367, 0.4993, 0.4416



18.2484, 0.3162, 0.3092



13.6879, 0.3653, 0.1786

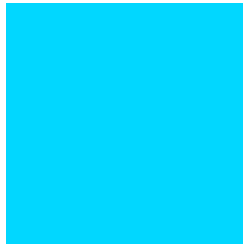


1.3454, 0.3594, 0.1753



# Previews

## White Background



This preview shows how the Yxy color 55.8209, 0.2104, 0.2773 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

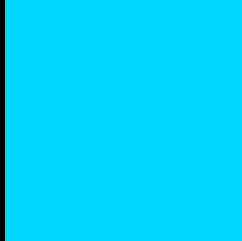
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 55.8209, 0.2104, 0.2773 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 55.8209, 0.2104, 0.2773**

## **Background**



This preview shows how black text looks on a background with the Yxy color 55.8209, 0.2104, 0.2773.

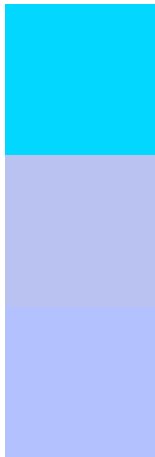


This preview shows how white text looks on a background with the Yxy color 55.8209, 0.2104, 0.2773.

# 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

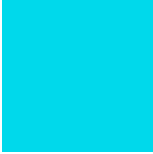
55.8273, 0.2104, 0.2773

### Protanopia

55.1891, 0.2746, 0.2754

### Deuteranopia

55.0632, 0.2623, 0.2582



## Tritanopia

55.6239, 0.2179, 0.3045

# Trichromacy



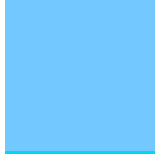
## Original Color

55.8273, 0.2104, 0.2773



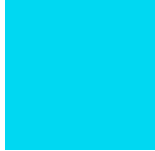
## Protanomaly

52.6852, 0.2348, 0.2745



## Deuteranomaly

52.6381, 0.2289, 0.2619



## Tritanomaly

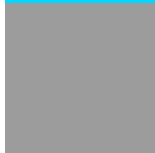
55.5225, 0.2151, 0.2943

# Monochromacy



## Original Color

55.8273, 0.2104, 0.2773



## Achromatopsia

33.2452, 0.3127, 0.3290



## Achromatomaly

37.9594, 0.2458, 0.3060

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 55.8209, 0.2104, 0.2773 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, 215, 255)` looks like.

```
.text, #text, p{  
    color:rgb(1, 215, 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(1, 215, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 215, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 55.8209, 0.2104, 0.2773 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, 215, 255) }
```

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

```
.border{ border-color:rgb(1, 215, 255) }
```

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

Here you see how a box with a 4 pixel rgb(1, 215, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 215, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 215, 255);  
box-shadow:4px 4px 4px 4px rgb(1, 215,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 55.8209, 0.2104, 0.2773 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 215, 255) }
```

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

```
.background{ background-color: rgb(1, 215,  
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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