

# Converting Colors

$Y_{xy}(51.5078, 0.1281, 0.2031)$

Have a look what the booklet for  
Yxy(51.5078, 0.1281, 0.2031)  
contains.

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# Color

**Yxy(58.9329, 0.2126, 0.2854)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00DDFF
RGB	0, 221, 255
RGB Percent	0%, 87%, 100%
CMY	1.0000, 0.1333, 0.0000
CMYK	1.00, 0.13, 0.00, 0.00
HSL	188°, 100%, 50%
HSV	188°, 100%, 100%
XYZ	43.9003, 58.9329, 103.6591
YIQ	158.7970, -142.6300, -36.2780

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 118, 255
Decimal	56831
CIELab	81.25, -32.70, -29.07
CIELCh	81, 43.755, 221.632
Yxy	58.9329, 0.2126, 0.2854
Android (android.graphics.Color)	4278246911 (0xFF00DDFF)
YUV	158.7970, 47.4281, -139.2650
Hunter-Lab	76.7678, -32.2669, -26.3216

# Details

The Yxy color **58.9329, 0.2126, 0.2854** 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 **22.4009, 0.6303, 0.3377**, and the grayscale version is **34.4041, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.5219, 0.2436, 0.3288**, and **30.9875, 0.2097, 0.2747** is the 20% darker color. If you saturate the color by 10%, you get **58.9377, 0.2126, 0.2854**, and if you desaturate by 10%, it is **60.9635, 0.2152, 0.2901**.

# Distribution



- Red (0%)
- Green (87%)
- Blue (100%)



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



- Cyan (100%)
- Magenta (13%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (13%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 58.9329, 0.2126, 0.2854 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 58.9329, 0.2126, 0.2854 by changing the saturation by 10% instead.





 58.9329, 0.2126,  
0.2854


 58.9329, 0.2126,  
0.2854


 420.6532, 0.2583,  
0.3077

 42.5591, 0.2025,  
0.2799


 103.2801, 0.2283,  
0.2935


 29.5393, 0.1902,  
0.2728


 132.0224, 0.2344,  
0.2966


 19.4892, 0.1749,  
0.2636


 165.6562, 0.2397,  
0.2992

 12.0243, 0.1558,  
0.2511

 204.5660, 0.2444,  
0.3014

 6.7602, 0.1313,  
0.2336

 249.1363, 0.2485,  
0.3033

 3.3126, 0.0996,  
0.2076

 299.7513, 0.2522,

 1.2970, 0.0503,

0.3049

0.1691

356.7954, 0.2554,  
0.3064

■ 0.1389, 0.0000,  
0.0478

■ 0.0000, 0.0000,  
0.0000

■ 58.9329, 0.2126,  
0.2854

■ 58.9329, 0.2126,  
0.2854

■ 58.9377, 0.2126,  
0.2854

■ 60.9635, 0.2152,  
0.2901

■ 63.3033, 0.2193,  
0.2948

■ 66.0424, 0.2254,  
0.2996

■ 69.2329, 0.2335,  
0.3043

■ 72.9185, 0.2434,  
0.3090

■ 77.1374, 0.2550,  
0.3135

■ 81.9240, 0.2681,  
0.3178

■ 87.3095, 0.2823,  
0.3218

■ 93.3227, 0.2972,  
0.3256

# Harmonies

## Analogous

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



58.9329, 0.2325, 0.3381



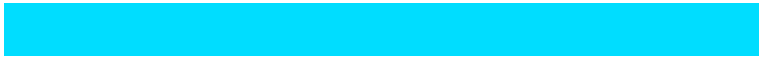
58.9329, 0.2126, 0.2854



58.9329, 0.2163, 0.2516

# Triad

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



58.9329, 0.2126, 0.2854



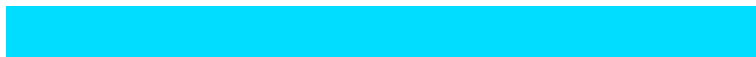
58.9329, 0.3465, 0.2746



58.9329, 0.3809, 0.4272

# Complementary

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



58.9329, 0.2126, 0.2854



22.4009, 0.6303, 0.3377

# 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.



58.9329, 0.4171, 0.3982



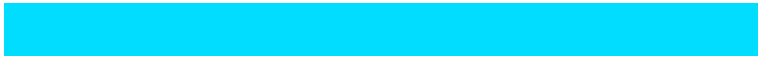
58.9329, 0.2126, 0.2854



58.9329, 0.3979, 0.3126

# Square

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



58.9329, 0.2126, 0.2854



58.9329, 0.2891, 0.2487



58.9329, 0.4244, 0.3564

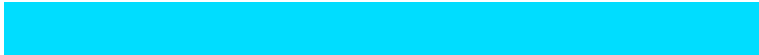


58.9329, 0.3282, 0.4284

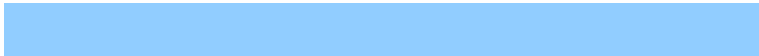


# Rectangle

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



58.9329, 0.2126, 0.2854



58.9329, 0.2316, 0.2415



58.9329, 0.4244, 0.3564



58.9329, 0.3955, 0.4199

# Sweetspot

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



58.9377, 0.2126, 0.2854



81.9316, 0.2681, 0.3178



71.6058, 0.2981, 0.5931



17.0895, 0.2624, 0.3160



0.0000, 0.0000, 0.0000

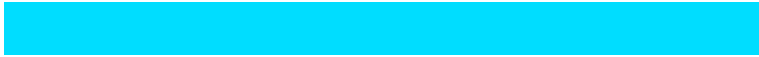


21.4041, 0.3127, 0.3290

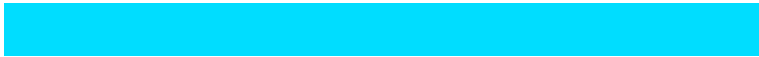


# Same Dimension

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



58.9377, 0.2126, 0.2854



58.9432, 0.2126, 0.2854



15.9072, 0.1661, 0.1180



20.0441, 0.2980, 0.3257



30.9596, 0.2128, 0.2862



3.1240, 0.2143, 0.2915



# Inverse Universe

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



26.4790, 0.3585, 0.1749



26.4815, 0.3585, 0.1749



45.4544, 0.5092, 0.4339



18.2563, 0.3159, 0.3086



13.8534, 0.3578, 0.1745

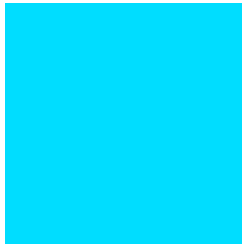


1.3599, 0.3530, 0.1718



# Previews

## White Background



This preview shows how the Yxy color 58.9329, 0.2126, 0.2854 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

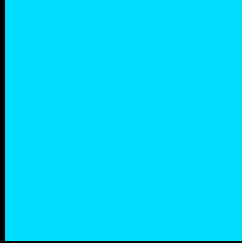
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 58.9329, 0.2126, 0.2854 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

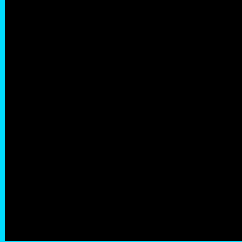
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 58.9329, 0.2126, 0.2854**

## **Background**



This preview shows how black text looks on a background with the Yxy color 58.9329, 0.2126, 0.2854.



This preview shows how white text looks on a background with the Yxy color 58.9329, 0.2126, 0.2854.

# 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

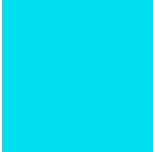
58.9329, 0.2126, 0.2854

### Protanopia

57.8266, 0.2804, 0.2819

### Deuteranopia

57.9713, 0.2686, 0.2639



## **Tritanopia**

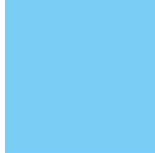
59.0666, 0.2184, 0.3064

# Trichromacy



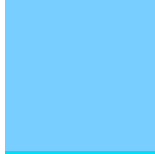
## Original Color

58.9329, 0.2126, 0.2854



## Protanomaly

54.8728, 0.2377, 0.2800



## Deuteranomaly

55.3557, 0.2324, 0.2687



## Tritanomaly

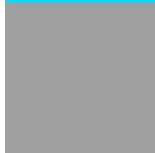
58.8351, 0.2163, 0.2988

# Monochromacy



## Original Color

58.9329, 0.2126, 0.2854



## Achromatopsia

34.6704, 0.3127, 0.3290



## Achromatomaly

40.1176, 0.2467, 0.3109

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 58.9329, 0.2126, 0.2854 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, 221, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 221, 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, 221, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 221, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 58.9329, 0.2126, 0.2854 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, 221, 255) }
```

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

```
.border{ border-color:rgb(0, 221, 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, 221, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 221, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 221, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 221,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 58.9329, 0.2126, 0.2854 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 221, 255) }
```

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

```
.background{ background-color: rgb(0, 221,  
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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