

# Converting Colors

$Y_{xy}(68.2012, 0.1658, 0.1526)$

Have a look what the booklet for  
Yxy(68.2012, 0.1658, 0.1526)  
contains.

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# Color

**Yxy(56.3317, 0.2107, 0.2786)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D8FF
RGB	0, 216, 255
RGB Percent	0%, 85%, 100%
CMY	1.0000, 0.1529, 0.0000
CMYK	1.00, 0.15, 0.00, 0.00
HSL	189°, 100%, 50%
HSV	189°, 100%, 100%
XYZ	42.6026, 56.3317, 103.2613
YIQ	155.8620, -141.2550, -33.6630

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 117, 255
Decimal	55551
CIELab	79.80, -30.29, -31.32
CIELCh	80, 43.571, 225.959
Yxy	56.3317, 0.2107, 0.2786
Android (android.graphics.Color)	4278245631 (0xFF00D8FF)
YUV	155.8620, 48.8750, -136.6910
Hunter-Lab	75.0544, -30.0246, -29.0342

# Details

The Yxy color **56.3317, 0.2107, 0.2786** 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 **22.7105, 0.6278, 0.3397**, and the grayscale version is **33.0087, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.4530, 0.2433, 0.3288**, and **29.5670, 0.2077, 0.2677** is the 20% darker color. If you saturate the color by 10%, you get **56.3361, 0.2107, 0.2786**, and if you desaturate by 10%, it is **58.5711, 0.2135, 0.2841**.

# Distribution



- Red (0%)
- Green (85%)
- Blue (100%)



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



- Cyan (100%)
- Magenta (15%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (15%)
- Yellow (0%)


# Brightness & Saturation Gradients


These gradients show how the Yxy color 56.3317, 0.2107, 0.2786 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 56.3317, 0.2107, 0.2786 by changing the saturation by 10% instead.





 56.3317, 0.2107,  
0.2786


 56.3317, 0.2107,  
0.2786


 410.9403, 0.2576,  
0.3042

 40.4689, 0.2003,  
0.2723


 99.4894, 0.2268,  
0.2879

 27.9044, 0.1876,  
0.2643


 127.5531, 0.2331,  
0.2914


 18.2536, 0.1719,  
0.2538


 160.4526, 0.2386,  
0.2944

 11.1322, 0.1522,  
0.2398

 198.5722, 0.2433,  
0.2969

 6.1558, 0.1269,  
0.2201

 242.2964, 0.2475,  
0.2991

 2.9401, 0.0945,  
0.1915

292.0096, 0.2513,

 1.1005, 0.0399,

0.3010

0.1503

348.0961, 0.2546,  
0.3027

■ 0.0000, 0.0000,  
0.0000

■ 56.3317, 0.2107,  
0.2786

■ 56.3317, 0.2107,  
0.2786

■ 56.3361, 0.2107,  
0.2786

■ 58.5711, 0.2135,  
0.2841

■ 61.1314, 0.2180,  
0.2895

■ 64.1022, 0.2243,  
0.2951

■ 67.5360, 0.2326,  
0.3006

■ 71.4764, 0.2428,  
0.3060

■ 75.9618, 0.2547,  
0.3112

■ 81.0267, 0.2679,  
0.3161

■ 86.7023, 0.2822,  
0.3208

■ 93.0178, 0.2972,  
0.3251

# Harmonies

## Analogous

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



56.3317, 0.2274, 0.3297



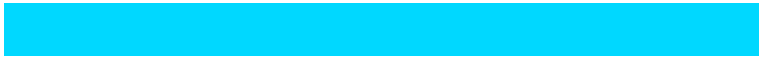
56.3317, 0.2107, 0.2786



56.3317, 0.2179, 0.2478

# Triad

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



56.3317, 0.2107, 0.2786



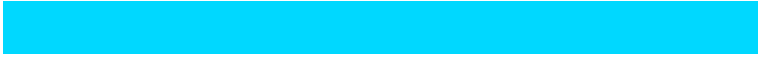
56.3317, 0.3552, 0.2790



56.3317, 0.3746, 0.4305

# Complementary

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



56.3317, 0.2107, 0.2786



22.7105, 0.6278, 0.3397

# 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.



56.3317, 0.4145, 0.4042



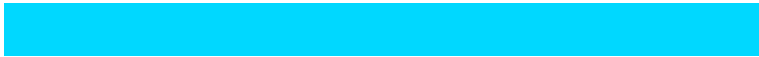
56.3317, 0.2107, 0.2786



56.3317, 0.4046, 0.3186

# Square

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



56.3317, 0.2107, 0.2786



56.3317, 0.2968, 0.2508



56.3317, 0.4267, 0.3630

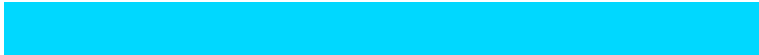


56.3317, 0.3202, 0.4268

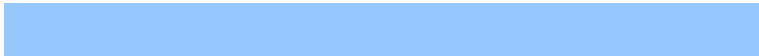


# Rectangle

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



56.3317, 0.2107, 0.2786



56.3317, 0.2354, 0.2397



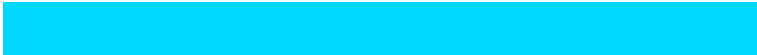
56.3317, 0.4267, 0.3630



56.3317, 0.3902, 0.4243

# Sweetspot

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



56.3361, 0.2107, 0.2786



81.0267, 0.2679, 0.3161



71.6616, 0.2971, 0.5895



16.8704, 0.2622, 0.3141



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.



56.3361, 0.2107, 0.2786



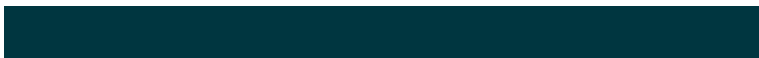
14.4064, 0.1636, 0.1089



19.9803, 0.2980, 0.3253



29.6155, 0.2110, 0.2795



3.0059, 0.2127, 0.2858

# Inverse Universe

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



26.2183, 0.3647, 0.1783



48.4416, 0.4997, 0.4415



18.2498, 0.3162, 0.3091



13.7177, 0.3639, 0.1778



1.3480, 0.3582, 0.1747

# Previews

## White Background



This preview shows how the Yxy color 56.3317, 0.2107, 0.2786 looks on a white background.

## Color Contrast Check

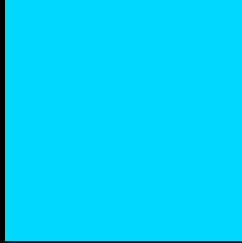
Large Text (above 18pt) WCAG AA × Fail

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 56.3317, 0.2107, 0.2786 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

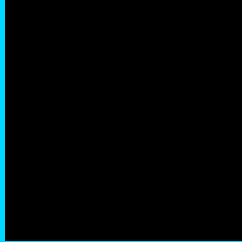
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 56.3317, 0.2107, 0.2786**

## **Background**



This preview shows how black text looks on a background with the Yxy color 56.3317, 0.2107, 0.2786.



This preview shows how white text looks on a background with the Yxy color 56.3317, 0.2107, 0.2786.



# 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

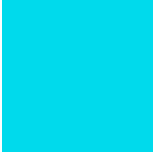
56.3317, 0.2107, 0.2786

### Protanopia

55.3139, 0.2753, 0.2755

### Deuteranopia

55.3050, 0.2636, 0.2584



## **Tritanopia**

56.1989, 0.2180, 0.3046

# Trichromacy



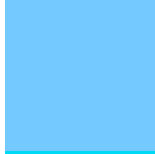
## Original Color

56.3317, 0.2107, 0.2786



## Protanomaly

52.6852, 0.2348, 0.2745



## Deuteranomaly

52.7063, 0.2293, 0.2620



## Tritanomaly

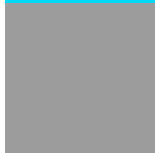
56.0968, 0.2151, 0.2944

# Monochromacy



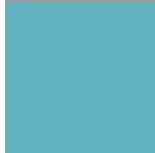
## Original Color

56.3317, 0.2107, 0.2786



## Achromatopsia

33.2452, 0.3127, 0.3290



## Achromatomaly

38.2992, 0.2456, 0.3076

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 56.3317, 0.2107, 0.2786 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, 216, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 216, 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, 216, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 216, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 56.3317, 0.2107, 0.2786 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, 216, 255) }
```

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

```
.border{ border-color:rgb(0, 216, 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, 216, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 216, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 216, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 216,  
255) }
```

# Background

The CSS property to change the background color of an element to Yxy 56.3317, 0.2107, 0.2786 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 216, 255) }
```

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

```
.background{ background-color: rgb(0, 216,  
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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