

# Converting Colors

$Y_{xy}(55.5641, 0.1856, 0.2470)$

Have a look what the booklet for  
Yxy(55.5641, 0.1856, 0.2470)  
contains.

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# Color

**Yxy(56.8457, 0.2111, 0.2800)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D9FF
RGB	0, 217, 255
RGB Percent	0%, 85%, 100%
CMY	1.0000, 0.1490, 0.0000
CMYK	1.00, 0.15, 0.00, 0.00
HSL	189°, 100%, 50%
HSV	189°, 100%, 100%
XYZ	42.8576, 56.8457, 103.3171
YIQ	156.4490, -141.5300, -34.1860

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 117, 255
Decimal	55807
CIELab	80.09, -30.78, -30.86
CIELCh	80, 43.583, 225.070
Yxy	56.8457, 0.2111, 0.2800
Android (android.graphics.Color)	4278245887 (0xFF00D9FF)
YUV	156.4490, 48.5856, -137.2058
Hunter-Lab	75.3961, -30.4779, -28.4692

# Details

The Yxy color **56.8457, 0.2111, 0.2800** 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 **22.6447, 0.6283, 0.3393**, and the grayscale version is **33.2852, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.4530, 0.2433, 0.3288**, and **29.9179, 0.2082, 0.2695** is the 20% darker color. If you saturate the color by 10%, you get **56.8504, 0.2111, 0.2800**, and if you desaturate by 10%, it is **59.0446, 0.2139, 0.2853**.

# 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 56.8457, 0.2111, 0.2800 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 56.8457, 0.2111, 0.2800 by changing the saturation by 10% instead.





 56.8457, 0.2111,  
0.2800


 56.8457, 0.2111,  
0.2800

 412.8709, 0.2577,  
0.3049

 40.8814, 0.2007,  
0.2738


 100.2400, 0.2271,  
0.2890


 28.2264, 0.1881,  
0.2660


 128.4388, 0.2334,  
0.2925

 18.4964, 0.1725,  
0.2558


 161.4845, 0.2388,  
0.2953

 11.3070, 0.1529,  
0.2421

 199.7615, 0.2436,  
0.2978

 6.2737, 0.1278,  
0.2229

 243.6543, 0.2477,  
0.3000

 3.0122, 0.0955,  
0.1947

293.5472, 0.2514,

 1.1381, 0.0420,

0.3018

0.1541

349.8246, 0.2548,  
0.3035

■ 0.0103, 0.0000,  
0.0037

■ 0.0000, 0.0000,  
0.0000

■ 56.8457, 0.2111,  
0.2800

■ 56.8457, 0.2111,  
0.2800

■ 56.8504, 0.2111,  
0.2800

■ 59.0446, 0.2139,  
0.2853

■ 61.5617, 0.2182,  
0.2906

■ 64.4870, 0.2245,  
0.2960

■ 67.8728, 0.2328,  
0.3013

■ 71.7628, 0.2429,  
0.3066

■ 76.1953, 0.2547,  
0.3116

■ 81.2048, 0.2679,  
0.3164

■ 86.8226, 0.2822,  
0.3210

■ 93.0776, 0.2972,  
0.3252

# Harmonies

## Analogous

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



56.8457, 0.2284, 0.3314



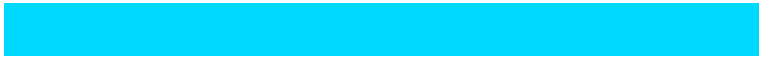
56.8457, 0.2111, 0.2800



56.8457, 0.2175, 0.2486

# Triad

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



56.8457, 0.2111, 0.2800



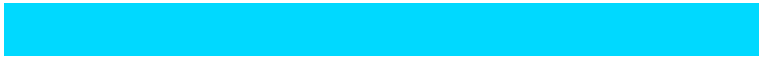
56.8457, 0.3534, 0.2781



56.8457, 0.3759, 0.4298

# Complementary

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



56.8457, 0.2111, 0.2800



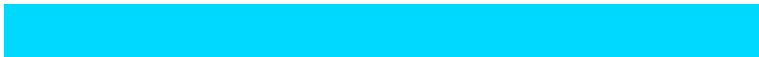
22.6447, 0.6283, 0.3393

# 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.



56.8457, 0.4150, 0.4030



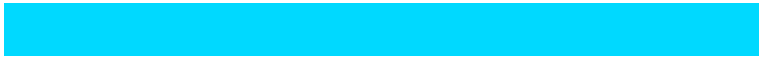
56.8457, 0.2111, 0.2800



56.8457, 0.4032, 0.3174

# Square

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



56.8457, 0.2111, 0.2800



56.8457, 0.2952, 0.2503



56.8457, 0.4262, 0.3616

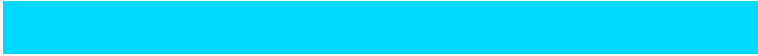


56.8457, 0.3218, 0.4271

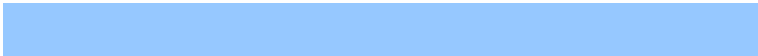


# Rectangle

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



56.8457, 0.2111, 0.2800



56.8457, 0.2346, 0.2400



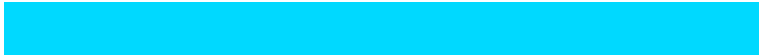
56.8457, 0.4262, 0.3616



56.8457, 0.3913, 0.4234

# Sweetspot

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



56.8504, 0.2111, 0.2800



81.2074, 0.2679, 0.3164



71.6332, 0.2976, 0.5914



16.9141, 0.2622, 0.3144



0.0000, 0.0000, 0.0000

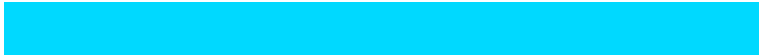


21.4041, 0.3127, 0.3290



# Same Dimension

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



56.8504, 0.2111, 0.2800



56.8522, 0.2111, 0.2800



15.1363, 0.1648, 0.1134



19.9931, 0.2980, 0.3254



29.8817, 0.2114, 0.2809



3.0293, 0.2130, 0.2869



# Inverse Universe

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



26.2696, 0.3635, 0.1776



26.2704, 0.3635, 0.1776



46.9234, 0.5044, 0.4377



18.2511, 0.3161, 0.3090



13.7445, 0.3627, 0.1771

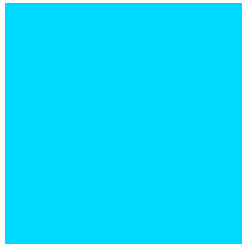


1.3504, 0.3571, 0.1741



# Previews

## White Background



This preview shows how the Yxy color 56.8457, 0.2111, 0.2800 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

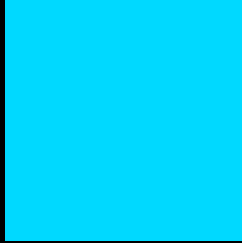
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 56.8457, 0.2111, 0.2800 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

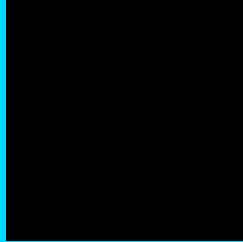
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 56.8457, 0.2111, 0.2800**

## **Background**



This preview shows how black text looks on a background with the Yxy color 56.8457, 0.2111, 0.2800.

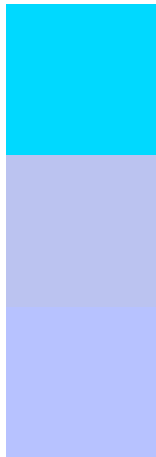


This preview shows how white text looks on a background with the Yxy color 56.8457, 0.2111, 0.2800.

# 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

56.8457, 0.2111, 0.2800

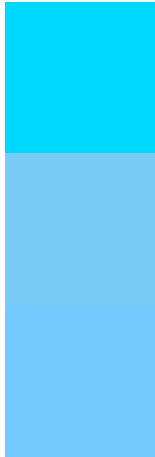
### Protanopia

55.8863, 0.2760, 0.2768

### Deuteranopia

55.8709, 0.2643, 0.2597

# Trichromacy



**Original Color**

56.8457, 0.2111, 0.2800

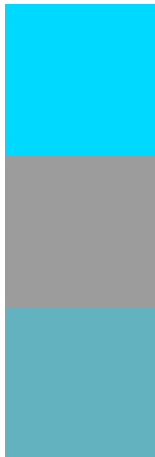
**Protanomaly**

53.2264, 0.2355, 0.2759

**Deuteranomaly**

53.1741, 0.2296, 0.2633

# Monochromacy



**Original Color**

56.8457, 0.2111, 0.2800

**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 56.8457, 0.2111, 0.2800 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, 217, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 217, 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, 217, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 217, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 56.8457, 0.2111, 0.2800 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, 217, 255) }
```

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

```
.border{ border-color:rgb(0, 217, 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, 217, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(0, 217, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(0, 217, 255); box-shadow:4px 4px 4px 4px rgb(0, 217, 255) }
```

# Background

The CSS property to change the background color of an element to Yxy 56.8457, 0.2111, 0.2800 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 217, 255) }
```

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

```
.background{ background-color: rgb(0, 217,  
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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