

# Converting Colors

$Yxy(66.8410, 0.2176, 0.2641)$

Have a look what the booklet for  
Yxy(66.8410, 0.2176, 0.2641)  
contains.

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# Color

**Yxy(64.8805, 0.2280, 0.2957)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5AE4FF
RGB	90, 228, 255
RGB Percent	35%, 89%, 100%
CMY	0.6462, 0.1059, 0.0000
CMYK	0.65, 0.11, 0.00, 0.00
HSL	190°, 100%, 68%
HSV	190°, 65%, 100%
XYZ	50.0262, 64.8805, 104.5065
YIQ	189.8160, -90.9150, -20.8590

# Conversions

## Conversions Part 2

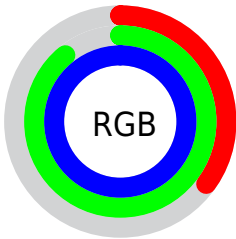
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	90, 165, 255
Decimal	5956863
CIE Lab	84.42, -29.16, -24.14
CIE LCh	84, 37.854, 219.626
Yxy	64.8805, 0.2280, 0.2957
Android (android.graphics.Color)	4284146943 (0xFF5AE4FF)
YUV	189.8160, 32.1357, -87.5386
Hunter-Lab	80.5484, -30.0987, -20.5411

# Details

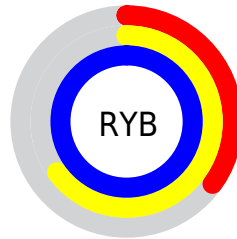
The Yxy color **64.8805, 0.2280, 0.2957** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light muted cyan. A complement of this color would be **34.7771, 0.5045, 0.3546**, and the grayscale version is **51.2638, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.8079, 0.2588, 0.3288**, and **33.5823, 0.2130, 0.2867** is the 20% darker color. If you saturate the color by 10%, you get **61.5393, 0.2204, 0.2898**, and if you desaturate by 10%, it is **68.7187, 0.2375, 0.3016**.

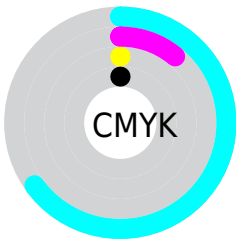
# Distribution



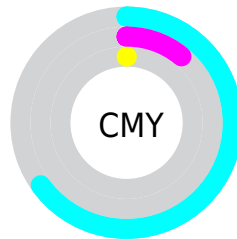
- Red (35%)
- Green (89%)
- Blue (100%)



- Red (35%)
- Yellow (65%)
- Blue (100%)



- Cyan (65%)
- Magenta (11%)
- Yellow (0%)
- Black (0%)




- Cyan (65%)
- Magenta (11%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 64.8805, 0.2280, 0.2957 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 64.8805, 0.2280, 0.2957 by changing the saturation by 10% instead.





 64.8805, 0.2280,  
0.2957


 64.8805, 0.2280,  
0.2957

442.3624, 0.2665,  
0.3125


 47.3642, 0.2195,  
0.2916


 111.8780, 0.2412,  
0.3018

 33.3237, 0.2091,  
0.2863


 142.1281, 0.2463,  
0.3041

 22.3745, 0.1962,  
0.2795


 177.3914, 0.2508,  
0.3060

 14.1323, 0.1799,  
0.2702

 218.0525, 0.2547,  
0.3077

 8.2128, 0.1587,  
0.2572

264.4958, 0.2582,  
0.3091

 4.2314, 0.1304,  
0.2377

317.1056, 0.2613,

 1.8038, 0.0923,

0.3104

0.2067

376.2663, 0.2640,  
0.3115

■ 0.4896, 0.0000,  
0.1468

■ 0.0000, 0.0000,  
0.0000

■ 64.8805, 0.2280,  
0.2957

■ 64.8805, 0.2280,  
0.2957

■ 61.5393, 0.2204,  
0.2898

■ 68.7187, 0.2375,  
0.3016

■ 58.6437, 0.2148,  
0.2838

■ 73.0907, 0.2487,  
0.3073

■ 56.1371, 0.2111,  
0.2779

■ 78.0338, 0.2615,  
0.3128

■ 54.9061, 0.2097,  
0.2748

■ 83.5808, 0.2754,  
0.3179

■ 89.7619, 0.2902,  
0.3227

■ 96.6049, 0.3055,  
0.3271

100.0000, 0.3127,  
0.3290

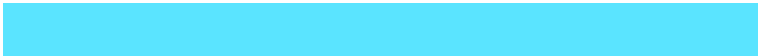
# Harmonies

## Analogous

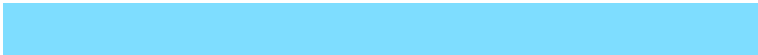
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



64.8805, 0.2468, 0.3404



64.8805, 0.2280, 0.2957



64.8805, 0.2297, 0.2652

# Triad

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



64.8805, 0.2280, 0.2957



64.8805, 0.3381, 0.2808



64.8805, 0.3735, 0.4107

# Complementary

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



64.8805, 0.2280, 0.2957



34.7771, 0.5045, 0.3546

# 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.



64.8805, 0.4020, 0.3865



64.8805, 0.2280, 0.2957



64.8805, 0.3816, 0.3133

# Square

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



64.8805, 0.2280, 0.2957



64.8805, 0.2901, 0.2594



64.8805, 0.4056, 0.3509

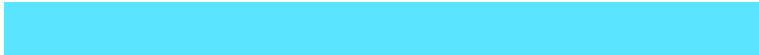


64.8805, 0.3298, 0.4121

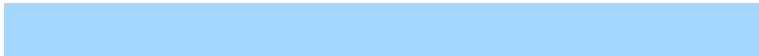


# Rectangle

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



64.8805, 0.2280, 0.2957



64.8805, 0.2421, 0.2551



64.8805, 0.4056, 0.3509



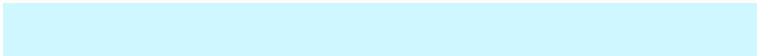
64.8805, 0.3852, 0.4046

# Sweetspot

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



64.8819, 0.2280, 0.2957



86.9770, 0.2836, 0.3206



74.9403, 0.2943, 0.5118



18.2415, 0.2794, 0.3193



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

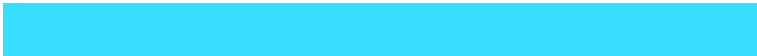


# Same Dimension

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



64.8819, 0.2280, 0.2957



60.5143, 0.2183, 0.2878



30.5484, 0.2026, 0.1884



19.9445, 0.2980, 0.3250



28.8780, 0.2099, 0.2758



2.9408, 0.2118, 0.2825



# Inverse Universe

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



34.2083, 0.3465, 0.2012



29.3930, 0.3551, 0.1867



62.0813, 0.4397, 0.4323



18.2462, 0.3163, 0.3094



13.6432, 0.3674, 0.1797

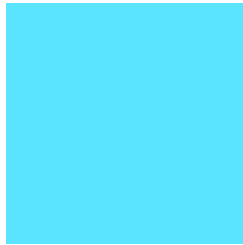


1.3414, 0.3612, 0.1763



# Previews

## White Background



This preview shows how the Yxy color 64.8805, 0.2280, 0.2957 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

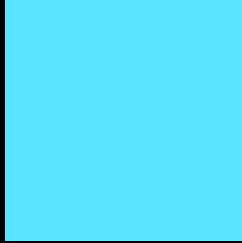
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 64.8805, 0.2280, 0.2957 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 64.8805, 0.2280, 0.2957**

## **Background**



This preview shows how black text looks on a background with the Yxy color 64.8805, 0.2280, 0.2957.



This preview shows how white text looks on a background with the Yxy color 64.8805, 0.2280, 0.2957.

# 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

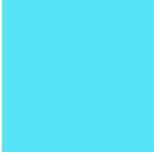
64.8805, 0.2280, 0.2957

### Protanopia

63.6730, 0.2872, 0.2912

### Deuteranopia

63.7200, 0.2792, 0.2747



## **Tritanopia**

64.7944, 0.2298, 0.3051

# Trichromacy



## Original Color

64.8805, 0.2280, 0.2957



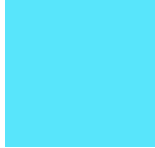
## Protanomaly

62.9361, 0.2595, 0.2925



## Deuteranomaly

62.5950, 0.2551, 0.2804



## Tritanomaly

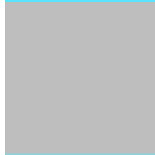
65.0784, 0.2292, 0.3016

# Monochromacy



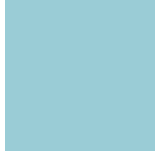
## Original Color

64.8805, 0.2280, 0.2957



## Achromatopsia

51.4918, 0.3127, 0.3290



## Achromatomaly

54.9108, 0.2709, 0.3161

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 64.8805, 0.2280, 0.2957 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(90, 228, 255)` looks like.

```
.text, #text, p{  
    color:rgb(90, 228, 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(90, 228, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 228, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 64.8805, 0.2280, 0.2957 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(90, 228, 255) }
```

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

```
.border{ border-color:rgb(90, 228, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(90, 228, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 228, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 228, 255);  
box-shadow:4px 4px 4px 4px rgb(90, 228,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 64.8805, 0.2280, 0.2957 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 228, 255) }
```

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

```
.background{ background-color: rgb(90, 228,  
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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