

# Converting Colors

$Yxy(45.9538, 0.2132, 0.2454)$

Have a look what the booklet for  
Yxy(45.9538, 0.2132, 0.2454)  
contains.

<b>Yxy(45.7962, 0.2131, 0.2449)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(45.7962, 0.2131, 0.2449)**

# Conversions

## Conversions Part 1

Format	Color
Hex	51BEFF
RGB	81, 190, 255
RGB Percent	32%, 75%, 100%
CMY	0.6828, 0.2548, 0.0000
CMYK	0.68, 0.25, 0.00, 0.00
HSL	202°, 100%, 66%
HSV	202°, 68%, 100%
XYZ	39.8496, 45.7962, 101.3538
YIQ	164.8190, -85.8290, -2.8930

# Conversions

## Conversions Part 2

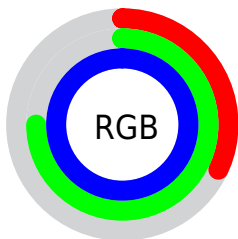
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	81, 148, 255
Decimal	5357311
CIE Lab	73.41, -11.18, -41.12
CIE LCh	73, 42.611, 254.793
Yxy	45.7962, 0.2131, 0.2449
Android (android.graphics.Color)	4283547391 (0xFF51BEFF)
YUV	164.8190, 44.4592, -73.5093
Hunter-Lab	67.6729, -13.3167, -41.4277

# Details

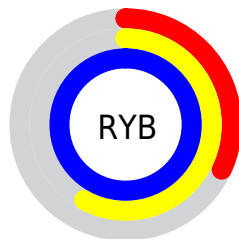
The Yxy color **45.7962, 0.2131, 0.2449** is a light color, and the websafe version is hex **66CCFF**. The color can be described as light muted azure. A complement of this color would be **42.3693, 0.4883, 0.3905**, and the grayscale version is **37.3358, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.3346, 0.2532, 0.3186**, and **21.9685, 0.1958, 0.2247** is the 20% darker color. If you saturate the color by 10%, you get **40.8866, 0.2031, 0.2303**, and if you desaturate by 10%, it is **51.3995, 0.2250, 0.2594**.

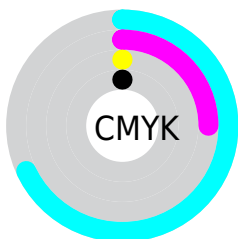
# Distribution



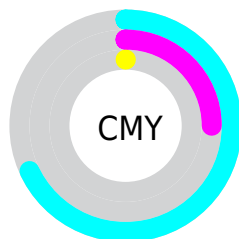
- Red (32%)
- Green (75%)
- Blue (100%)



- Red (32%)
- Yellow (58%)
- Blue (100%)



- Cyan (68%)
- Magenta (25%)
- Yellow (0%)
- Black (0%)



- Cyan (68%)
- Magenta (25%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.7962, 0.2131, 0.2449 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 45.7962, 0.2131, 0.2449 by changing the saturation by 10% instead.



■ 45.7962, 0.2131,  
0.2449

■ 45.7962, 0.2131,  
0.2449

■ 369.9887, 0.2605,  
0.2863

■ 32.0850, 0.2022,  
0.2351

■ 83.9139, 0.2296,  
0.2596

■ 21.4265, 0.1889,  
0.2228

■ 109.0892, 0.2360,  
0.2652

■ 13.4361, 0.1722,  
0.2071

■ 138.8547, 0.2416,  
0.2700

■ 7.7295, 0.1509,  
0.1867

■ 173.5948, 0.2463,  
0.2742

■ 3.9224, 0.1234,  
0.1593

■ 213.6939, 0.2505,  
0.2778

■ 1.6302, 0.0880,  
0.1222

■ 259.5363, 0.2542,

■ 0.3779, 0.0141,

0.2810

0.0618

311.5064, 0.2575,  
0.2838

0.0000, 0.0000,  
0.0000

45.7962, 0.2131,  
0.2449

45.7962, 0.2131,  
0.2449

40.8866, 0.2031,  
0.2303

51.3995, 0.2250,  
0.2594

36.6124, 0.1953,  
0.2158

57.7409, 0.2384,  
0.2734

32.8999, 0.1896,  
0.2016

64.8635, 0.2531,  
0.2867

32.3016, 0.1887,  
0.1992

72.8056, 0.2684,  
0.2992

81.6022, 0.2841,  
0.3107

■ 91.2862, 0.2999,  
0.3211

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.



45.7962, 0.2066, 0.2777



45.7962, 0.2131, 0.2449



45.7962, 0.2432, 0.2353

# Triad

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



45.7962, 0.2131, 0.2449



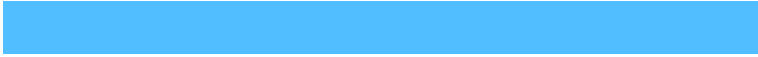
45.7962, 0.4075, 0.3161



45.7962, 0.3225, 0.4328

# Complementary

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



45.7962, 0.2131, 0.2449



42.3693, 0.4883, 0.3905

# 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.



45.7962, 0.3791, 0.4347



45.7962, 0.2131, 0.2449



45.7962, 0.4318, 0.3622

# Square

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



45.7962, 0.2131, 0.2449



45.7962, 0.3548, 0.2754



45.7962, 0.4201, 0.4057



45.7962, 0.2661, 0.3927



# Rectangle

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



45.7962, 0.2131, 0.2449



45.7962, 0.2750, 0.2408



45.7962, 0.4201, 0.4057



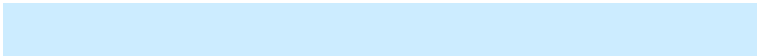
45.7962, 0.3422, 0.4377

# Sweetspot

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



45.7972, 0.2131, 0.2449



80.0283, 0.2814, 0.3088



75.3000, 0.2792, 0.4753



16.5903, 0.2770, 0.3056



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.



45.7972, 0.2131, 0.2449



39.2262, 0.2000, 0.2249



18.8844, 0.1857, 0.1329



19.2751, 0.2979, 0.3199



17.1743, 0.1893, 0.2016



1.8820, 0.1938, 0.2177



# Inverse Universe

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



30.8456, 0.3927, 0.2265



26.3788, 0.4160, 0.2188



79.4441, 0.4200, 0.4665



18.1786, 0.3196, 0.3142



12.4617, 0.4435, 0.2217

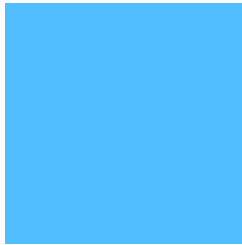


1.2345, 0.4257, 0.2119



# Previews

## White Background



This preview shows how the Yxy color 45.7962, 0.2131, 0.2449 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

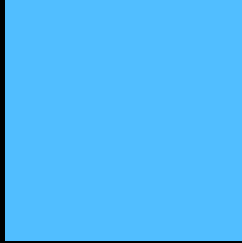
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.7962, 0.2131, 0.2449 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

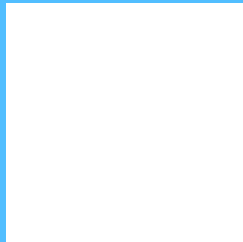
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.7962, 0.2131, 0.2449**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.7962, 0.2131, 0.2449.



This preview shows how white text looks on a background with the Yxy color 45.7962, 0.2131, 0.2449.

# 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

45.7962, 0.2131, 0.2449

### Protanopia

45.4078, 0.2519, 0.2460

### Deuteranopia

45.5448, 0.2411, 0.2359



## Tritanopia

46.0275, 0.2248, 0.3056

# Trichromacy



**Original Color**

45.7962, 0.2131, 0.2449

**Protanomaly**

45.1207, 0.2342, 0.2447

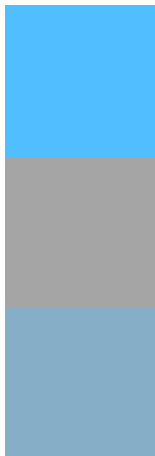
**Deuteranomaly**

45.0359, 0.2284, 0.2379

**Tritanomaly**

45.7773, 0.2200, 0.2815

# Monochromacy



**Original Color**

45.7962, 0.2131, 0.2449

**Achromatopsia**

37.6262, 0.3127, 0.3290

**Achromatomaly**

39.4177, 0.2629, 0.2947

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.7962, 0.2131, 0.2449 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(81, 190, 255)` looks like.

```
.text, #text, p{  
    color:rgb(81, 190, 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(81, 190, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(81, 190, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 45.7962, 0.2131, 0.2449 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(81, 190, 255) }
```

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

```
.border{ border-color:rgb(81, 190, 255) }
```

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

Here you see how a box with a 4 pixel rgb(81, 190, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(81, 190, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(81, 190, 255);  
box-shadow:4px 4px 4px 4px rgb(81, 190,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.7962, 0.2131, 0.2449 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(81, 190, 255) }
```

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

```
.background{ background-color: rgb(81, 190,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor