

# Converting Colors

$Y_{xy}(45.4163, 0.2203, 0.2415)$

Have a look what the booklet for  
Yxy(45.4163, 0.2203, 0.2415)  
contains.

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# Color

**Yxy(45.2809, 0.2200, 0.2412)**

# Conversions

## Conversions Part 1

Format	Color
Hex	68BAFF
RGB	104, 186, 255
RGB Percent	41%, 73%, 100%
CMY	0.5927, 0.2705, 0.0001
CMYK	0.59, 0.27, 0.00, 0.00
HSL	207°, 100%, 70%
HSV	207°, 59%, 100%
XYZ	41.3010, 45.2809, 101.1499
YIQ	169.3480, -71.0210, 4.0750

# Conversions

## Conversions Part 2

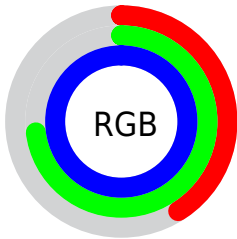
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">104, 157, 255</a>
Decimal	<a href="#">6863615</a>
CIELab	<a href="#">73.08, -5.24, -41.57</a>
CIELCh	<a href="#">73, 41.897, 262.820</a>
Yxy	<a href="#">45.2809, 0.2200, 0.2412</a>
Android (android.graphics.Color)	<a href="#">4285053695 (0xFF68BAFF)</a>
YUV	<a href="#">169.3480, 42.2264, -57.3102</a>
Hunter-Lab	<a href="#">67.2911, -8.2021, -42.0191</a>

# Details

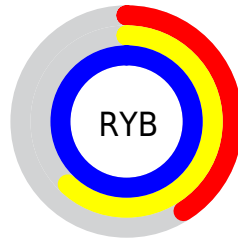
The Yxy color **45.2809, 0.2200, 0.2412** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **52.0611, 0.4485, 0.3983**, and the grayscale version is **39.6543, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.7236, 0.2609, 0.3144**, and **21.0853, 0.1970, 0.2183** is the 20% darker color. If you saturate the color by 10%, you get **39.2785, 0.2070, 0.2232**, and if you desaturate by 10%, it is **52.1464, 0.2345, 0.2587**.

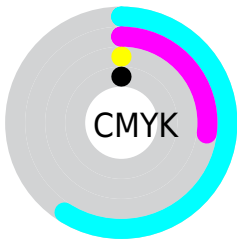
# Distribution



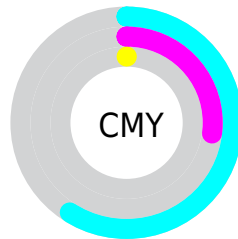
- Red (41%)
- Green (73%)
- Blue (100%)



- Red (41%)
- Yellow (62%)
- Blue (100%)



- Cyan (59%)
- Magenta (27%)
- Yellow (0%)
- Black (0%)




- Cyan (59%)
- Magenta (27%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.2809, 0.2200, 0.2412 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 45.2809, 0.2200, 0.2412 by changing the saturation by 10% instead.





 45.2809, 0.2200,  
0.2412


 45.2809, 0.2200,  
0.2412


367.9100, 0.2644,  
0.2840

 31.6787, 0.2097,  
0.2311


 83.1418, 0.2356,  
0.2563

 21.1162, 0.1970,  
0.2186


 108.1693, 0.2416,  
0.2621

 13.2090, 0.1810,  
0.2027


 137.7740, 0.2468,  
0.2671

 7.5726, 0.1605,  
0.1821

172.3404, 0.2512,  
0.2714

 3.8227, 0.1337,  
0.1546

212.2528, 0.2552,  
0.2751

 1.5749, 0.0984,  
0.1176

257.8956, 0.2586,

 0.3406, 0.0318,

0.2784

0.0553

309.6532, 0.2617,  
0.2813

0.0000, 0.0000,  
0.0000

45.2809, 0.2200,  
0.2412

45.2809, 0.2200,  
0.2412

39.2785, 0.2070,  
0.2232

52.1464, 0.2345,  
0.2587

34.0820, 0.1960,  
0.2052

59.9170, 0.2500,  
0.2753

29.6318, 0.1873,  
0.1876

68.6370, 0.2661,  
0.2909

25.8404, 0.1809,  
0.1707

78.3459, 0.2823,  
0.3052

25.5826, 0.1804,  
0.1695

89.0804, 0.2983,  
0.3182

99.9985, 0.3127,  
0.3290

# Harmonies

## Analogous

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



45.2809, 0.2072, 0.2675



45.2809, 0.2200, 0.2412



45.2809, 0.2556, 0.2375

# Triad

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



45.2809, 0.2200, 0.2412



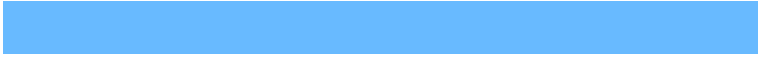
45.2809, 0.4160, 0.3283



45.2809, 0.3069, 0.4241

# Complementary

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



45.2809, 0.2200, 0.2412



52.0611, 0.4485, 0.3983

# 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.



45.2809, 0.3643, 0.4364



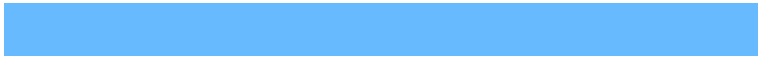
45.2809, 0.2200, 0.2412



45.2809, 0.4306, 0.3741

# Square

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



45.2809, 0.2200, 0.2412



45.2809, 0.3699, 0.2859



45.2809, 0.4104, 0.4145

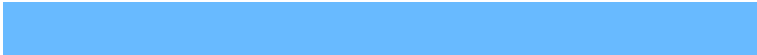


45.2809, 0.2538, 0.3766



# Rectangle

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



45.2809, 0.2200, 0.2412



45.2809, 0.2902, 0.2463



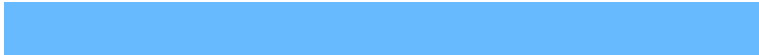
45.2809, 0.4104, 0.4145



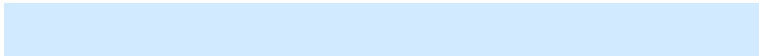
45.2809, 0.3263, 0.4326

# Sweetspot

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



45.2825, 0.2200, 0.2412



79.6694, 0.2844, 0.3069



77.4118, 0.2752, 0.4358



16.4173, 0.2797, 0.3029



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.



45.2825, 0.2200, 0.2412



38.3318, 0.2050, 0.2201



21.6102, 0.1987, 0.1457



19.0147, 0.2979, 0.3179



13.6728, 0.1812, 0.1723



1.5498, 0.1865, 0.1915



# Inverse Universe

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



34.6722, 0.3932, 0.2477



29.1449, 0.4178, 0.2380



89.0304, 0.4010, 0.4629



18.1523, 0.3209, 0.3161



12.1082, 0.4779, 0.2406



1.2010, 0.4550, 0.2280



# Previews

## White Background



This preview shows how the Yxy color 45.2809, 0.2200, 0.2412 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

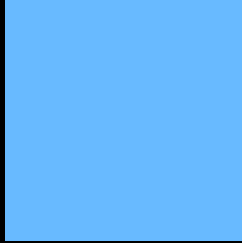
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.2809, 0.2200, 0.2412 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

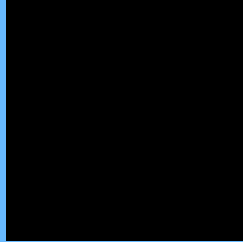
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

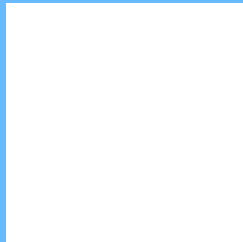
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.2809, 0.2200, 0.2412**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.2809, 0.2200, 0.2412.



This preview shows how white text looks on a background with the Yxy color 45.2809, 0.2200, 0.2412.

# 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

45.2809, 0.2200, 0.2412

### Protanopia

44.9342, 0.2493, 0.2424

### Deuteranopia

45.0538, 0.2403, 0.2345



## Tritanopia

45.1215, 0.2343, 0.3058

# Trichromacy



## Original Color

45.2809, 0.2200, 0.2412

## Protanomaly

44.9479, 0.2371, 0.2419

## Deuteranomaly

44.8491, 0.2320, 0.2363

## Tritanomaly

44.9767, 0.2287, 0.2805

# Monochromacy



## Original Color

45.2809, 0.2200, 0.2412

## Achromatopsia

39.6755, 0.3127, 0.3290

## Achromatomaly

40.8498, 0.2696, 0.2942

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.2809, 0.2200, 0.2412 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(104, 186, 255)` looks like.

```
.text, #text, p{  
    color:rgb(104, 186, 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(104, 186, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 186, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 45.2809, 0.2200, 0.2412 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(104, 186, 255) }
```

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

```
.border{ border-color:rgb(104, 186, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(104, 186, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 186, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(104, 186, 255);  
box-shadow:4px 4px 4px 4px rgb(104, 186,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.2809, 0.2200, 0.2412 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 186, 255) }
```

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

```
.background{ background-color: rgb(104,  
186, 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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