

# Converting Colors

$Y_{xy}(45.7922, 0.2250, 0.2415)$

Have a look what the booklet for  
Yxy(45.7922, 0.2250, 0.2415)  
contains.

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# Color

**Yxy(45.6309, 0.2249, 0.2409)**

# Conversions

## Conversions Part 1

Format	Color
Hex	74B9FF
RGB	116, 185, 255
RGB Percent	45%, 73%, 100%
CMY	0.5452, 0.2745, 0.0000
CMYK	0.55, 0.27, 0.00, 0.00
HSL	210°, 100%, 73%
HSV	210°, 55%, 100%
XYZ	42.6002, 45.6309, 101.1873
YIQ	172.3490, -63.5940, 7.1420

# Conversions

## Conversions Part 2

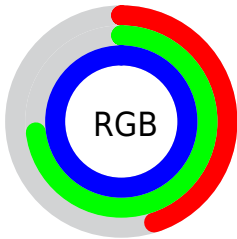
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">116, 162, 255</a>
Decimal	<a href="#">7649791</a>
CIELab	<a href="#">73.31, -2.29, -41.20</a>
CIELCh	<a href="#">73, 41.262, 266.814</a>
Yxy	<a href="#">45.6309, 0.2249, 0.2409</a>
Android (android.graphics.Color)	<a href="#">4285839871 (0xFF74B9FF)</a>
YUV	<a href="#">172.3490, 40.7469, -49.4181</a>
Hunter-Lab	<a href="#">67.5506, -5.6442, -41.5279</a>

# Details

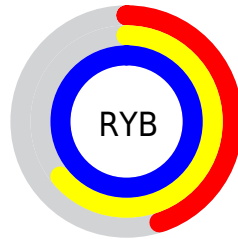
The Yxy color **45.6309, 0.2249, 0.2409** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **57.6221, 0.4303, 0.4003**, and the grayscale version is **41.2510, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.3607, 0.2663, 0.3135**, and **21.2836, 0.2030, 0.2181** is the 20% darker color. If you saturate the color by 10%, you get **38.9863, 0.2105, 0.2212**, and if you desaturate by 10%, it is **53.2405, 0.2406, 0.2600**.

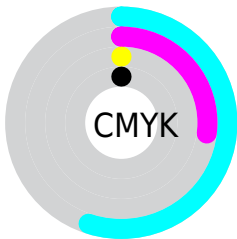
# Distribution



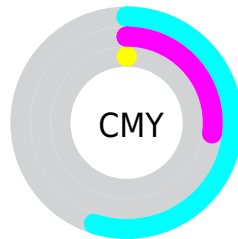
- Red (45%)
- Green (73%)
- Blue (100%)



- Red (45%)
- Yellow (64%)
- Blue (100%)



- Cyan (55%)
- Magenta (27%)
- Yellow (0%)
- Black (0%)




- Cyan (55%)
- Magenta (27%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.6309, 0.2249, 0.2409 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 45.6309, 0.2249, 0.2409 by changing the saturation by 10% instead.




 45.6309, 0.2249,  
0.2409

 45.6309, 0.2249,  
0.2409


369.3228, 0.2671,  
0.2835

 31.9547, 0.2151,  
0.2309


 83.6663, 0.2397,  
0.2559

 21.3269, 0.2029,  
0.2185

 108.7943, 0.2455,  
0.2617

 13.3631, 0.1876,  
0.2028


 138.5083, 0.2504,  
0.2667

 7.6791, 0.1678,  
0.1824

173.1928, 0.2546,  
0.2710

 3.8903, 0.1417,  
0.1553

213.2321, 0.2583,  
0.2747

 1.6124, 0.1069,  
0.1189

259.0105, 0.2616,

 0.3659, 0.0465,

0.2780

0.0583

310.9126, 0.2645,  
0.2809

0.0000, 0.0000,  
0.0000

45.6309, 0.2249,  
0.2409

45.6309, 0.2249,  
0.2409

38.9863, 0.2105,  
0.2212

53.2405, 0.2406,  
0.2600

33.2528, 0.1978,  
0.2012

61.8623, 0.2569,  
0.2779

28.3705, 0.1874,  
0.1817

71.5407, 0.2735,  
0.2945

24.2681, 0.1794,  
0.1630

82.3169, 0.2899,  
0.3097

22.3015, 0.1759,  
0.1533

94.2296, 0.3058,  
0.3233

100.0000, 0.3127,  
0.3290

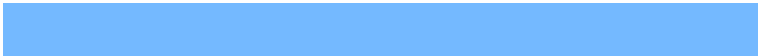
# Harmonies

## Analogous

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



45.6309, 0.2091, 0.2638



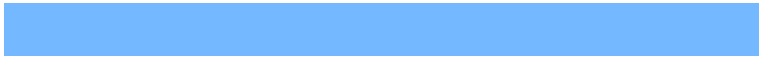
45.6309, 0.2249, 0.2409



45.6309, 0.2628, 0.2400

# Triad

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



45.6309, 0.2249, 0.2409



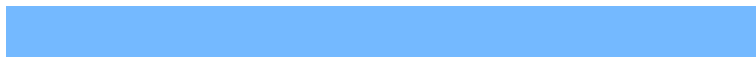
45.6309, 0.4181, 0.3345



45.6309, 0.2995, 0.4178

# Complementary

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



45.6309, 0.2249, 0.2409



57.6221, 0.4303, 0.4003

# 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.



45.6309, 0.3564, 0.4350



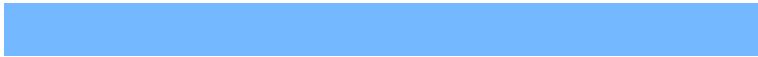
45.6309, 0.2249, 0.2409



45.6309, 0.4278, 0.3794

# Square

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



45.6309, 0.2249, 0.2409



45.6309, 0.3762, 0.2917



45.6309, 0.4039, 0.4175

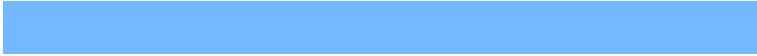


45.6309, 0.2490, 0.3680



# Rectangle

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



45.6309, 0.2249, 0.2409



45.6309, 0.2981, 0.2503



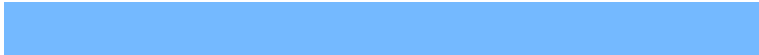
45.6309, 0.4039, 0.4175



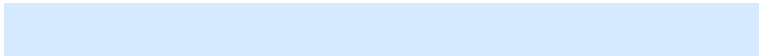
45.6309, 0.3185, 0.4278

# Sweetspot

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



45.6312, 0.2249, 0.2409



80.6540, 0.2875, 0.3075



78.7541, 0.2737, 0.4163



16.7762, 0.2841, 0.3045



0.0000, 0.0000, 0.0000

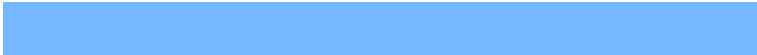


21.4041, 0.3127, 0.3290



# Same Dimension

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



45.6312, 0.2249, 0.2409



38.6921, 0.2098, 0.2202



23.4142, 0.2067, 0.1537



18.8678, 0.2979, 0.3167



11.9511, 0.1767, 0.1562



1.3819, 0.1825, 0.1769



# Inverse Universe

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



37.2464, 0.3916, 0.2594



31.4079, 0.4154, 0.2497



94.0402, 0.3917, 0.4596



18.1375, 0.3216, 0.3173



11.9344, 0.4979, 0.2516

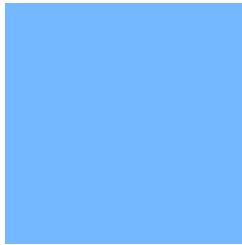


1.1840, 0.4723, 0.2375



# Previews

## White Background



This preview shows how the Yxy color 45.6309, 0.2249, 0.2409 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

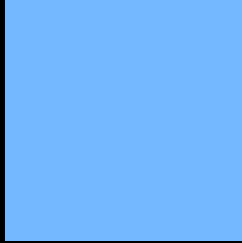
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.6309, 0.2249, 0.2409 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

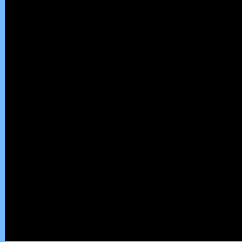
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

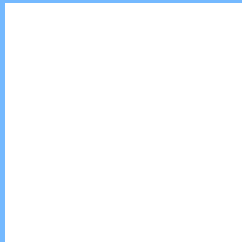
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.6309, 0.2249, 0.2409**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.6309, 0.2249, 0.2409.



This preview shows how white text looks on a background with the Yxy color 45.6309, 0.2249, 0.2409.

# 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

45.6309, 0.2249, 0.2409

### Protanopia

45.4907, 0.2496, 0.2428

### Deuteranopia

45.5448, 0.2411, 0.2359



## Tritanopia

45.8397, 0.2412, 0.3075

# Trichromacy



## Original Color

45.6309, 0.2249, 0.2409

## Protanomaly

45.4472, 0.2395, 0.2415

## Deuteranomaly

45.6710, 0.2349, 0.2381

## Tritanomaly

45.7558, 0.2347, 0.2812

# Monochromacy



## Original Color

45.6309, 0.2249, 0.2409

## Achromatopsia

41.2543, 0.3127, 0.3290

## Achromatomaly

42.3839, 0.2737, 0.2949

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.6309, 0.2249, 0.2409 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(116, 185, 255)` looks like.

```
.text, #text, p{  
    color:rgb(116, 185, 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(116, 185, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 185, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 45.6309, 0.2249, 0.2409 is called "border". The border property can be set on classes, ids or directly on the HTML element.

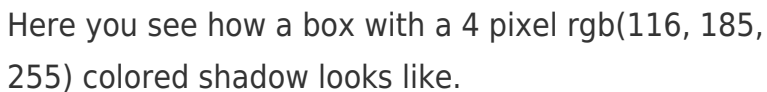
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(116, 185, 255) }
```

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

```
.border{ border-color:rgb(116, 185, 255) }
```

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



Here you see how a box with a 4 pixel `rgb(116, 185, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 185, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 185, 255);  
box-shadow:4px 4px 4px 4px rgb(116, 185,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.6309, 0.2249, 0.2409 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 185, 255) }
```

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

```
.background{ background-color: rgb(116,  
185, 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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