

# Converting Colors

$Y_{xy}(49.6509, 0.2226, 0.2547)$

Have a look what the booklet for  
Yxy(49.6509, 0.2226, 0.2547)  
contains.

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# Color

**Yxy(49.5834, 0.2226, 0.2545)**

# Conversions

## Conversions Part 1

Format	Color
Hex	67C4FF
RGB	103, 196, 255
RGB Percent	40%, 77%, 100%
CMY	0.5966, 0.2313, 0.0001
CMYK	0.60, 0.23, 0.00, 0.00
HSL	203°, 100%, 70%
HSV	203°, 60%, 100%
XYZ	43.3684, 49.5834, 101.8749
YIQ	174.9190, -74.3670, -1.3670

# Conversions

## Conversions Part 2

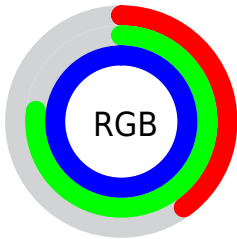
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">103, 161, 255</a>
Decimal	<a href="#">6800639</a>
CIELab	<a href="#">75.81, -10.82, -37.32</a>
CIELCh	<a href="#">76, 38.851, 253.837</a>
Yxy	<a href="#">49.5834, 0.2226, 0.2545</a>
Android (android.graphics.Color)	<a href="#">4284990719</a> ( <a href="#">0xFF67C4FF</a> )
YUV	<a href="#">174.9190, 39.4799, -63.0730</a>
Hunter-Lab	<a href="#">70.4155, -13.2901, -36.4881</a>

# Details

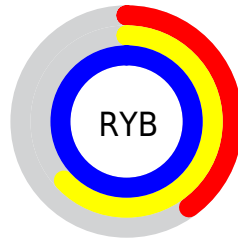
The Yxy color **49.5834, 0.2226, 0.2545** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **48.0096, 0.4574, 0.3883**, and the grayscale version is **42.6307, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.4699, 0.2625, 0.3267**, and **23.6054, 0.2007, 0.2343** is the 20% darker color. If you saturate the color by 10%, you get **43.9896, 0.2107, 0.2394**, and if you desaturate by 10%, it is **55.9337, 0.2361, 0.2692**.

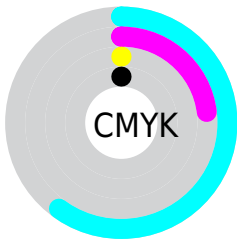
# Distribution



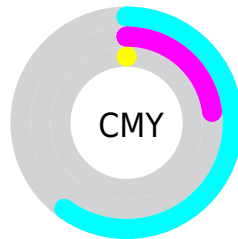
- Red (40%)
- Green (77%)
- Blue (100%)



- Red (40%)
- Yellow (63%)
- Blue (100%)



- Cyan (60%)
- Magenta (23%)
- Yellow (0%)
- Black (0%)



- Cyan (60%)
- Magenta (23%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.5834, 0.2226, 0.2545 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 49.5834, 0.2226, 0.2545 by changing the saturation by 10% instead.




 49.5834, 0.2226,  
0.2545

 49.5834, 0.2226,  
0.2545


385.0345, 0.2652,  
0.2909

 35.0825, 0.2128,  
0.2459


 89.5573, 0.2375,  
0.2674

 23.7264, 0.2008,  
0.2351


 115.7991, 0.2432,  
0.2724

 15.1308, 0.1857,  
0.2213


 146.7233, 0.2482,  
0.2766

 8.9112, 0.1664,  
0.2032

182.7144, 0.2525,  
0.2803

 4.6833, 0.1411,  
0.1787

224.1566, 0.2563,  
0.2834

 2.0627, 0.1075,  
0.1447

271.4345, 0.2596,

 0.6435, 0.0518,

0.2862

0.0958

324.9323, 0.2626,  
0.2887

0.0000, 0.0000,  
0.0000

49.5834, 0.2226,  
0.2545

49.5834, 0.2226,  
0.2545

43.9896, 0.2107,  
0.2394

55.9337, 0.2361,  
0.2692

39.0981, 0.2008,  
0.2242

63.0786, 0.2507,  
0.2832

34.8533, 0.1931,  
0.2091

71.0591, 0.2661,  
0.2963

31.1680, 0.1874,  
0.1945

79.9114, 0.2819,  
0.3084

31.0488, 0.1872,  
0.1940

89.6690, 0.2977,  
0.3194

99.9987, 0.3127,  
0.3290

# Harmonies

## Analogous

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



49.5834, 0.2175, 0.2852



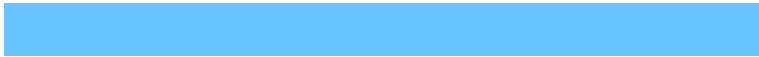
49.5834, 0.2226, 0.2545



49.5834, 0.2494, 0.2447

# Triad

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



49.5834, 0.2226, 0.2545



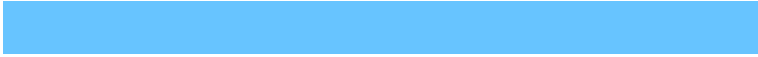
49.5834, 0.3956, 0.3167



49.5834, 0.3238, 0.4208

# Complementary

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



49.5834, 0.2226, 0.2545



48.0096, 0.4574, 0.3883

# 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.



49.5834, 0.3740, 0.4226



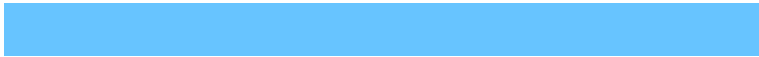
49.5834, 0.2226, 0.2545



49.5834, 0.4183, 0.3585

# Square

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



49.5834, 0.2226, 0.2545



49.5834, 0.3486, 0.2799



49.5834, 0.4095, 0.3974



49.5834, 0.2730, 0.3866



# Rectangle

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



49.5834, 0.2226, 0.2545



49.5834, 0.2777, 0.2491



49.5834, 0.4095, 0.3974



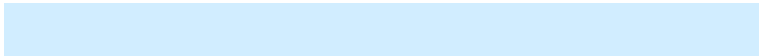
49.5834, 0.3413, 0.4251

# Sweetspot

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



49.5852, 0.2226, 0.2545



81.4803, 0.2845, 0.3103



76.9622, 0.2796, 0.4504



16.8597, 0.2799, 0.3069



0.0000, 0.0000, 0.0000

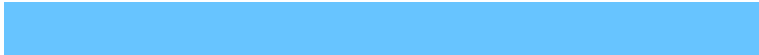


21.4041, 0.3127, 0.3290



# Same Dimension

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



49.5852, 0.2226, 0.2545



42.7904, 0.2082, 0.2358



23.6744, 0.2006, 0.1561



19.2299, 0.2979, 0.3196



16.5250, 0.1879, 0.1964



1.8212, 0.1925, 0.2131



# Inverse Universe

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



34.9162, 0.3813, 0.2376



29.2716, 0.4025, 0.2259



82.9363, 0.4070, 0.4560



18.1741, 0.3198, 0.3145



12.3962, 0.4493, 0.2249

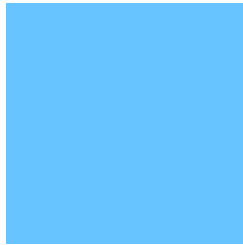


1.2284, 0.4307, 0.2146



# Previews

## White Background



This preview shows how the Yxy color 49.5834, 0.2226, 0.2545 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

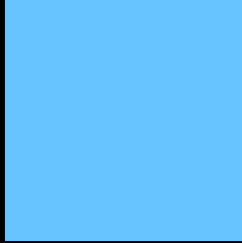
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.5834, 0.2226, 0.2545 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

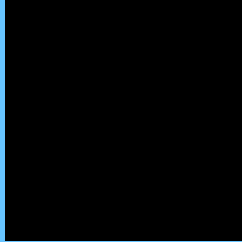
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

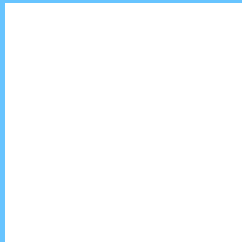
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.5834, 0.2226, 0.2545**

## Background



This preview shows how black text looks on a background with the Yxy color 49.5834, 0.2226, 0.2545.

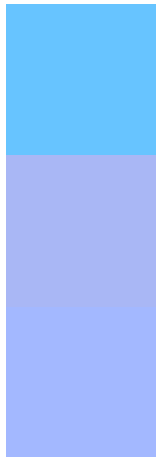


This preview shows how white text looks on a background with the Yxy color 49.5834, 0.2226, 0.2545.

# 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**

49.5834, 0.2226, 0.2545

**Protanopia**

48.8946, 0.2594, 0.2548

**Deuteranopia**

49.2875, 0.2502, 0.2451



## Tritanopia

49.8526, 0.2342, 0.3067

# Trichromacy



**Original Color**

49.5834, 0.2226, 0.2545

**Protanomaly**

48.8257, 0.2433, 0.2541

**Deuteranomaly**

48.8492, 0.2382, 0.2474

**Tritanomaly**

49.4619, 0.2297, 0.2859

# Monochromacy



**Original Color**

49.5834, 0.2226, 0.2545

**Achromatopsia**

42.8690, 0.3127, 0.3290

**Achromatomaly**

44.6162, 0.2710, 0.3005

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.5834, 0.2226, 0.2545 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(103, 196, 255)` looks like.

```
.text, #text, p{  
    color:rgb(103, 196, 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(103, 196, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 196, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 49.5834, 0.2226, 0.2545 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(103, 196, 255) }
```

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

```
.border{ border-color:rgb(103, 196, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(103, 196, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 196, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 196, 255);  
box-shadow:4px 4px 4px 4px rgb(103, 196,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.5834, 0.2226, 0.2545 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 196, 255) }
```

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

```
.background{ background-color: rgb(103,  
196, 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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