

# Converting Colors

$Y_{xy}(45.5318, 0.2193, 0.2445)$

Have a look what the booklet for  
Yxy(45.5318, 0.2193, 0.2445)  
contains.

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# Color

**Yxy(45.2851, 0.2192, 0.2442)**

# Conversions

## Conversions Part 1

Format	Color
Hex	63BBFD
RGB	99, 187, 253
RGB Percent	39%, 73%, 99%
CMY	0.6114, 0.2667, 0.0079
CMYK	0.61, 0.26, 0.00, 0.01
HSL	206°, 97%, 69%
HSV	206°, 61%, 99%
XYZ	40.6490, 45.2851, 99.5085
YIQ	168.2120, -73.6340, 1.8700

# Conversions

## Conversions Part 2

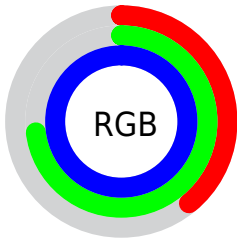
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	99, 155, 253
Decimal	6536189
CIE Lab	73.08, -7.25, -40.50
CIE LCh	73, 41.146, 259.849
Yxy	45.2851, 0.2192, 0.2442
Android (android.graphics.Color)	4284726269 (0xFF63BBFD)
YUV	168.2120, 41.8005, -60.6989
Hunter-Lab	67.2942, -9.9420, -40.5667

# Details

The Yxy color **45.2851, 0.2192, 0.2442** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **48.7167, 0.4563, 0.3954**, and the grayscale version is **39.0957, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.8983, 0.2591, 0.3154**, and **21.1069, 0.1960, 0.2221** is the 20% darker color. If you saturate the color by 10%, you get **39.6469, 0.2069, 0.2273**, and if you desaturate by 10%, it is **51.7203, 0.2331, 0.2606**.

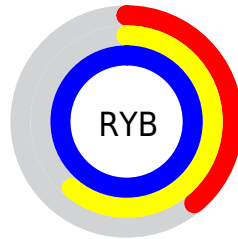
# Distribution



Red (39%)

Green (73%)

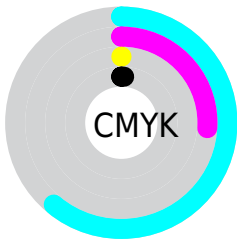
Blue (99%)



Red (39%)

Yellow (61%)

Blue (99%)

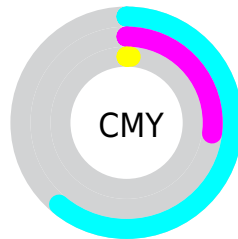


Cyan (61%)

Magenta (26%)

Yellow (0%)

Black (1%)



Cyan (61%)

Magenta (27%)


Yellow (1%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.2851, 0.2192, 0.2442 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 45.2851, 0.2192, 0.2442 by changing the saturation by 10% instead.





 45.2851, 0.2192,  
0.2442


 45.2851, 0.2192,  
0.2442


367.9270, 0.2640,  
0.2857


 31.6820, 0.2088,  
0.2344


 83.1481, 0.2349,  
0.2589

 21.1188, 0.1960,  
0.2221


 108.1768, 0.2410,  
0.2646

 13.2108, 0.1799,  
0.2064


 137.7828, 0.2462,  
0.2694

 7.5739, 0.1592,  
0.1860

172.3506, 0.2507,  
0.2736

 3.8235, 0.1322,  
0.1587

212.2645, 0.2546,  
0.2772

 1.5753, 0.0966,  
0.1215

257.9090, 0.2581,

 0.3409, 0.0250,

0.2804

0.0581

309.6683, 0.2612,  
0.2832

0.0000, 0.0000,  
0.0000

45.2851, 0.2192,  
0.2442

45.2851, 0.2192,  
0.2442

39.6469, 0.2069,  
0.2273

51.7203, 0.2331,  
0.2606

34.7501, 0.1967,  
0.2104

58.9929, 0.2481,  
0.2764

30.5366, 0.1887,  
0.1939

67.1452, 0.2639,  
0.2911

27.1921, 0.1831,  
0.1793

76.2150, 0.2799,  
0.3047

86.2373, 0.2958,  
0.3170

97.2450, 0.3114,  
0.3281

99.8705, 0.3139,  
0.3309

# Harmonies

## Analogous

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



45.2851, 0.2089, 0.2724



45.2851, 0.2192, 0.2442



45.2851, 0.2522, 0.2384

# Triad

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



45.2851, 0.2192, 0.2442



45.2851, 0.4109, 0.3241



45.2851, 0.3127, 0.4252

# Complementary

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



45.2851, 0.2192, 0.2442



48.7167, 0.4563, 0.3954

# 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.



45.2851, 0.3688, 0.4336



45.2851, 0.2192, 0.2442



45.2851, 0.4287, 0.3691

# Square

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



45.2851, 0.2192, 0.2442



45.2851, 0.3633, 0.2829



45.2851, 0.4120, 0.4098

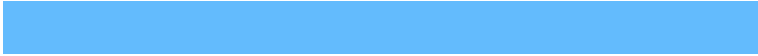


45.2851, 0.2595, 0.3814



# Rectangle

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



45.2851, 0.2192, 0.2442



45.2851, 0.2851, 0.2458



45.2851, 0.4120, 0.4098



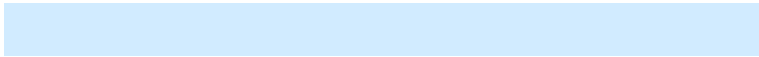
45.2851, 0.3319, 0.4322

# Sweetspot

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



45.2867, 0.2192, 0.2442



80.3898, 0.2844, 0.3083



75.5466, 0.2770, 0.4462



16.5931, 0.2798, 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.



45.2867, 0.2192, 0.2442



39.2120, 0.2045, 0.2236



21.3167, 0.1970, 0.1465



19.1005, 0.2979, 0.3186



14.7631, 0.1839, 0.1818



1.6544, 0.1889, 0.2001



# Inverse Universe

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



33.4064, 0.3910, 0.2421



28.6003, 0.4149, 0.2322



84.1925, 0.4056, 0.4618



18.1610, 0.3204, 0.3155



12.2183, 0.4663, 0.2343

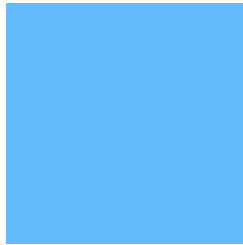


1.2116, 0.4451, 0.2226



# Previews

## White Background



This preview shows how the Yxy color 45.2851, 0.2192, 0.2442 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

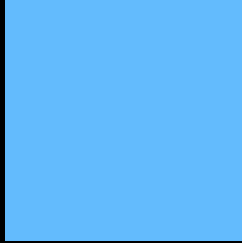
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.2851, 0.2192, 0.2442 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

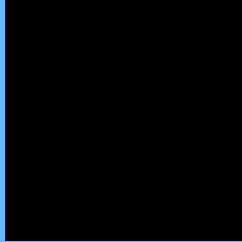
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

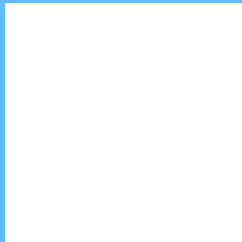
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.2851, 0.2192, 0.2442**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.2851, 0.2192, 0.2442.



This preview shows how white text looks on a background with the Yxy color 45.2851, 0.2192, 0.2442.

# 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

45.2851, 0.2192, 0.2442

### Protanopia

44.8514, 0.2516, 0.2456

### Deuteranopia

45.0538, 0.2403, 0.2345



## Tritanopia

45.4388, 0.2327, 0.3058

# Trichromacy



**Original Color**

45.2851, 0.2192, 0.2442

**Protanomaly**

44.6763, 0.2380, 0.2449

**Deuteranomaly**

45.0288, 0.2317, 0.2383

**Tritanomaly**

45.2165, 0.2275, 0.2818

# Monochromacy



**Original Color**

45.2851, 0.2192, 0.2442

**Achromatopsia**

39.1572, 0.3127, 0.3290

**Achromatomaly**

40.6231, 0.2688, 0.2954

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.2851, 0.2192, 0.2442 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(99, 187, 253)` looks like.

```
.text, #text, p{  
    color:rgb(99, 187, 253)  
}
```

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(99, 187, 253) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 187, 253) }
```

## Border

The CSS property to change the border of an element to Yxy 45.2851, 0.2192, 0.2442 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(99, 187, 253) }
```

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

```
.border{ border-color:rgb(99, 187, 253) }
```

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

Here you see how a box with a 4 pixel rgb(99, 187, 253) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 187, 253); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 187, 253);  
box-shadow:4px 4px 4px 4px rgb(99, 187,  
253) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.2851, 0.2192, 0.2442 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 187, 253) }
```

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

```
.background{ background-color: rgb(99, 187,  
253) }
```

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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