

# Converting Colors

$Yxy(45.6401, 0.2118, 0.2476)$

Have a look what the booklet for  
Yxy(45.6401, 0.2118, 0.2476)  
contains.

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# Color

**Yxy(45.7699, 0.2119, 0.2480)**

# Conversions

## Conversions Part 1

Format	Color
Hex	49BFFD
RGB	73, 191, 253
RGB Percent	29%, 75%, 99%
CMY	0.7135, 0.2510, 0.0079
CMYK	0.71, 0.24, 0.00, 0.01
HSL	201°, 98%, 64%
HSV	201°, 71%, 99%
XYZ	39.1074, 45.7699, 99.6787
YIQ	162.7860, -90.2300, -5.7340

# Conversions

## Conversions Part 2

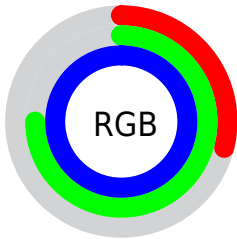
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	73, 144, 253
Decimal	4833277
CIE Lab	73.40, -13.44, -40.07
CIE LCh	73, 42.261, 251.455
Yxy	45.7699, 0.2119, 0.2480
Android (android.graphics.Color)	4283023357 (0xFF49BFFD)
YUV	162.7860, 44.4755, -78.7423
Hunter-Lab	67.6535, -15.2107, -39.9988

# Details

The Yxy color **45.7699, 0.2119, 0.2480** is a light color, and the websafe version is hex **66CCFF**. The color can be described as light washed azure. A complement of this color would be **38.6972, 0.5027, 0.3862**, and the grayscale version is **36.3464, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.4042, 0.2508, 0.3197**, and **22.1625, 0.1970, 0.2292** is the 20% darker color. If you saturate the color by 10%, you get **41.2868, 0.2030, 0.2346**, and if you desaturate by 10%, it is **50.8839, 0.2228, 0.2613**.

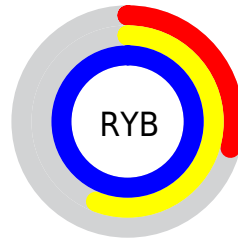
# Distribution



Red (29%)

Green (75%)

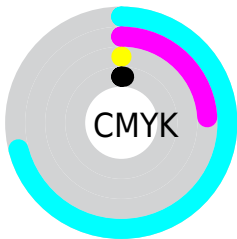
Blue (99%)



Red (29%)

Yellow (56%)

Blue (99%)

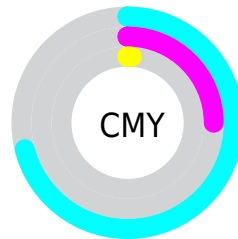


Cyan (71%)

Magenta (24%)

Yellow (0%)

Black (1%)



Cyan (71%)

Magenta (25%)

Yellow (1%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.7699, 0.2119, 0.2480 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 45.7699, 0.2119, 0.2480 by changing the saturation by 10% instead.



■ 45.7699, 0.2119,  
0.2480

■ 45.7699, 0.2119,  
0.2480

■ 369.8828, 0.2598,  
0.2881

■ 32.0643, 0.2009,  
0.2384

■ 83.8745, 0.2286,  
0.2623

■ 21.4106, 0.1874,  
0.2264

■ 109.0423, 0.2351,  
0.2678

■ 13.4245, 0.1705,  
0.2109

■ 138.7996, 0.2407,  
0.2724

■ 7.7215, 0.1491,  
0.1907

■ 173.5309, 0.2455,  
0.2764

■ 3.9173, 0.1213,  
0.1635

■ 213.6204, 0.2498,  
0.2799

■ 1.6274, 0.0856,  
0.1261

■ 259.4526, 0.2535,

■ 0.3760, 0.0050,

0.2830

0.0647

311.4120, 0.2568,  
0.2857

0.0000, 0.0000,  
0.0000

45.7699, 0.2119,  
0.2480

45.7699, 0.2119,  
0.2480

41.2868, 0.2030,  
0.2346

50.8839, 0.2228,  
0.2613

37.3739, 0.1961,  
0.2213

56.6713, 0.2355,  
0.2743

34.3025, 0.1916,  
0.2098

63.1752, 0.2494,  
0.2867

70.4331, 0.2643,  
0.2984

78.4791, 0.2798,  
0.3092

■ 87.3452, 0.2954,  
0.3191

■ 97.0611, 0.3110,  
0.3281

■ 99.8702, 0.3139,  
0.3309

# Harmonies

## Analogous

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



45.7699, 0.2081, 0.2832



45.7699, 0.2119, 0.2480



45.7699, 0.2393, 0.2360

# Triad

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



45.7699, 0.2119, 0.2480



45.7699, 0.4020, 0.3114



45.7699, 0.3290, 0.4340

# Complementary

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



45.7699, 0.2119, 0.2480



38.6972, 0.5027, 0.3862

# 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.



45.7699, 0.3842, 0.4319



45.7699, 0.2119, 0.2480



45.7699, 0.4300, 0.3569

# Square

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



45.7699, 0.2119, 0.2480



45.7699, 0.3477, 0.2719



45.7699, 0.4223, 0.4008



45.7699, 0.2722, 0.3981



# Rectangle

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



45.7699, 0.2119, 0.2480



45.7699, 0.2694, 0.2399



45.7699, 0.4223, 0.4008



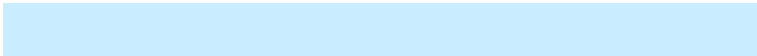
45.7699, 0.3484, 0.4374

# Sweetspot

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



45.7715, 0.2119, 0.2480



80.0105, 0.2800, 0.3093



73.3471, 0.2815, 0.4903



16.6230, 0.2757, 0.3064



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.



45.7715, 0.2119, 0.2480



40.4162, 0.2000, 0.2294



18.2192, 0.1827, 0.1314



19.3661, 0.2980, 0.3206



18.5343, 0.1922, 0.2119



2.0084, 0.1963, 0.2268



# Inverse Universe

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



29.4127, 0.3905, 0.2196



25.9714, 0.4119, 0.2130



74.1287, 0.4276, 0.4655



18.1878, 0.3191, 0.3135



12.5990, 0.4320, 0.2154

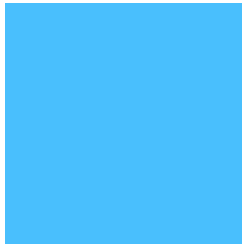


1.2473, 0.4160, 0.2065



# Previews

## White Background



This preview shows how the Yxy color 45.7699, 0.2119, 0.2480 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

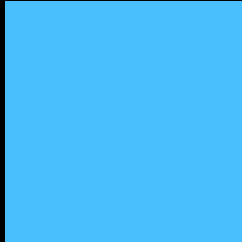
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.7699, 0.2119, 0.2480 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

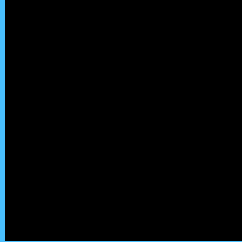
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

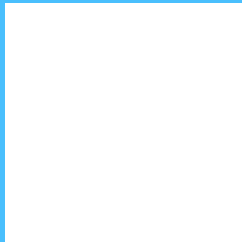
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.7699, 0.2119, 0.2480**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.7699, 0.2119, 0.2480.

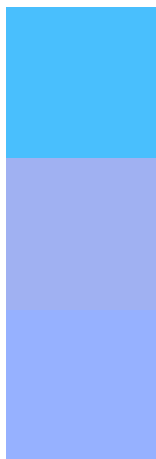


This preview shows how white text looks on a background with the Yxy color 45.7699, 0.2119, 0.2480.

# 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

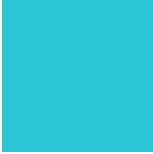
45.7699, 0.2119, 0.2480

### Protanopia

45.3287, 0.2543, 0.2492

### Deuteranopia

45.1483, 0.2409, 0.2347



## **Tritanopia**

45.7568, 0.2225, 0.3055

# Trichromacy



**Original Color**

45.7699, 0.2119, 0.2480

**Protanomaly**

44.6989, 0.2341, 0.2476

**Deuteranomaly**

44.7492, 0.2274, 0.2386

**Tritanomaly**

45.4159, 0.2179, 0.2825

# Monochromacy



**Original Color**

45.7699, 0.2119, 0.2480

**Achromatopsia**

36.6253, 0.3127, 0.3290

**Achromatomaly**

38.6185, 0.2612, 0.2957

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.7699, 0.2119, 0.2480 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(73, 191, 253)` looks like.

```
.text, #text, p{  
    color:rgb(73, 191, 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(73, 191, 253) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 191, 253) }
```

## Border

The CSS property to change the border of an element to Yxy 45.7699, 0.2119, 0.2480 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(73, 191, 253) }
```

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

```
.border{ border-color:rgb(73, 191, 253) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 191, 253)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 191, 253); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 191, 253);  
box-shadow:4px 4px 4px 4px rgb(73, 191,  
253) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.7699, 0.2119, 0.2480 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 191, 253) }
```

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

```
.background{ background-color: rgb(73, 191,  
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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