

# Converting Colors

$Yxy(49.4509, 0.2147, 0.2565)$

Have a look what the booklet for  
Yxy(49.4509, 0.2147, 0.2565)  
contains.

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# Color

**Yxy(49.6033, 0.2147, 0.2569)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4CC7FF
RGB	76, 199, 255
RGB Percent	30%, 78%, 100%
CMY	0.7021, 0.2196, 0.0000
CMYK	0.70, 0.22, 0.00, 0.00
HSL	199°, 100%, 65%
HSV	199°, 70%, 100%
XYZ	41.4552, 49.6033, 102.0256
YIQ	168.6070, -91.2840, -8.6600

# Conversions

## Conversions Part 2

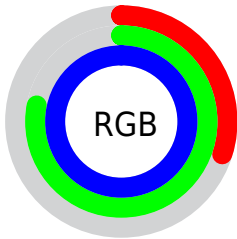
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	76, 149, 255
Decimal	5031935
CIE Lab	75.83, -16.61, -37.39
CIE LCh	76, 40.916, 246.043
Yxy	49.6033, 0.2147, 0.2569
Android (android.graphics.Color)	4283222015 (0xFF4CC7FF)
YUV	168.6070, 42.5917, -81.2163
Hunter-Lab	70.4296, -18.1860, -36.5879

# Details

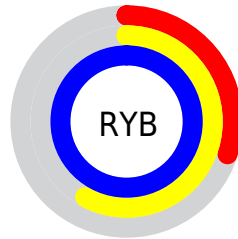
The Yxy color **49.6033, 0.2147, 0.2569** is a light color, and the websafe version is hex **66CCFF**. The color can be described as light washed cyan. A complement of this color would be **38.2721, 0.5049, 0.3804**, and the grayscale version is **39.2861, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.6693, 0.2536, 0.3288**, and **24.3280, 0.1998, 0.2392** is the 20% darker color. If you saturate the color by 10%, you get **45.1832, 0.2061, 0.2449**, and if you desaturate by 10%, it is **54.6283, 0.2253, 0.2689**.

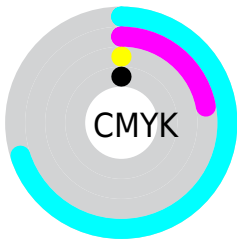
# Distribution



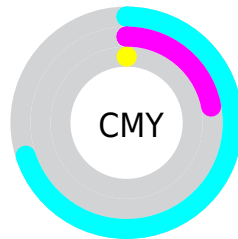
- Red (30%)
- Green (78%)
- Blue (100%)



- Red (30%)
- Yellow (58%)
- Blue (100%)



- Cyan (70%)
- Magenta (22%)
- Yellow (0%)
- Black (0%)




- Cyan (70%)
- Magenta (22%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.6033, 0.2147, 0.2569 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 49.6033, 0.2147, 0.2569 by changing the saturation by 10% instead.




 49.6033, 0.2147,  
0.2569


 49.6033, 0.2147,  
0.2569


385.1126, 0.2608,  
0.2926

 35.0983, 0.2042,  
0.2483


 89.5868, 0.2307,  
0.2696


 23.7386, 0.1914,  
0.2376


 115.8341, 0.2369,  
0.2745

 15.1398, 0.1754,  
0.2239


 146.7643, 0.2423,  
0.2786

 8.9176, 0.1551,  
0.2057

 182.7618, 0.2469,  
0.2822

 4.6875, 0.1287,  
0.1810

224.2110, 0.2510,  
0.2853

 2.0651, 0.0946,  
0.1466

271.4963, 0.2547,

 0.6449, 0.0314,

0.2880

0.0977

325.0020, 0.2579,  
0.2904

0.0000, 0.0000,  
0.0000

49.6033, 0.2147,  
0.2569

49.6033, 0.2147,  
0.2569

45.1832, 0.2061,  
0.2449

54.6283, 0.2253,  
0.2689

41.3143, 0.1995,  
0.2329

60.3061, 0.2377,  
0.2806

37.9754, 0.1948,  
0.2213

66.6772, 0.2514,  
0.2917

73.7785, 0.2660,  
0.3022

81.6439, 0.2813,  
0.3119

■ 90.3045, 0.2969,  
0.3208

99.7898, 0.3124,  
0.3288

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.



49.6033, 0.2154, 0.2944



49.6033, 0.2147, 0.2569



49.6033, 0.2369, 0.2413

# Triad

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



49.6033, 0.2147, 0.2569



49.6033, 0.3890, 0.3051



49.6033, 0.3385, 0.4299

# Complementary

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



49.6033, 0.2147, 0.2569



38.2721, 0.5049, 0.3804

# 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.



49.6033, 0.3887, 0.4226



49.6033, 0.2147, 0.2569



49.6033, 0.4209, 0.3481

# Square

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



49.6033, 0.2147, 0.2569



49.6033, 0.3354, 0.2692



49.6033, 0.4199, 0.3906



49.6033, 0.2838, 0.4022



# Rectangle

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



49.6033, 0.2147, 0.2569



49.6033, 0.2634, 0.2425



49.6033, 0.4199, 0.3906



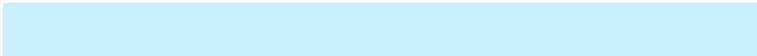
49.6033, 0.3564, 0.4311

# Sweetspot

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



49.6028, 0.2147, 0.2569



80.9956, 0.2801, 0.3112



74.6577, 0.2839, 0.4959



16.8585, 0.2758, 0.3085



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

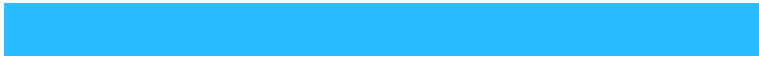


# Same Dimension

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



49.6028, 0.2147, 0.2569



43.6562, 0.2033, 0.2403



20.2920, 0.1858, 0.1407



19.4666, 0.2980, 0.3214



20.1220, 0.1954, 0.2233



2.1547, 0.1991, 0.2368



# Inverse Universe

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



30.5469, 0.3819, 0.2155



26.4632, 0.4006, 0.2075



72.5445, 0.4307, 0.4600



18.1980, 0.3186, 0.3128



12.7593, 0.4197, 0.2086

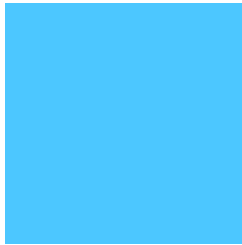


1.2621, 0.4056, 0.2008



# Previews

## White Background



This preview shows how the Yxy color 49.6033, 0.2147, 0.2569 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

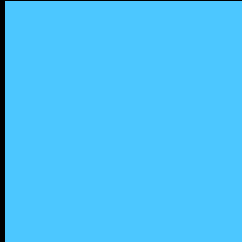
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.6033, 0.2147, 0.2569 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

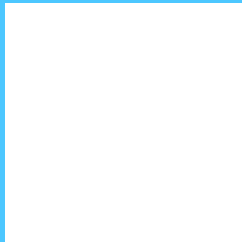
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.6033, 0.2147, 0.2569**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.6033, 0.2147, 0.2569.



This preview shows how white text looks on a background with the Yxy color 49.6033, 0.2147, 0.2569.

# 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

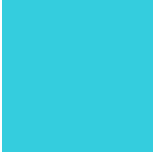
49.6033, 0.2147, 0.2569

### Protanopia

48.7731, 0.2606, 0.2569

### Deuteranopia

49.1824, 0.2495, 0.2450



## Tritanopia

49.6666, 0.2237, 0.3049

# Trichromacy



**Original Color**

49.6033, 0.2147, 0.2569

**Protanomaly**

48.2615, 0.2390, 0.2565

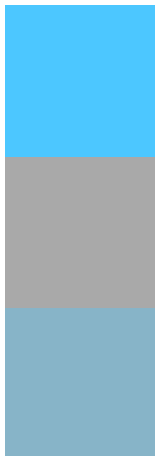
**Deuteranomaly**

48.4405, 0.2332, 0.2476

**Tritanomaly**

49.6445, 0.2202, 0.2866

# Monochromacy



**Original Color**

49.6033, 0.2147, 0.2569

**Achromatopsia**

39.6755, 0.3127, 0.3290

**Achromatomaly**

41.9635, 0.2633, 0.3008

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.6033, 0.2147, 0.2569 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(76, 199, 255)` looks like.

```
.text, #text, p{  
    color:rgb(76, 199, 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(76, 199, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 199, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 49.6033, 0.2147, 0.2569 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(76, 199, 255) }
```

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

```
.border{ border-color:rgb(76, 199, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(76, 199, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 199, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(76, 199, 255);  
box-shadow:4px 4px 4px 4px rgb(76, 199,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.6033, 0.2147, 0.2569 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(76, 199, 255) }
```

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

```
.background{ background-color: rgb(76, 199,  
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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