

# Converting Colors

$Y_{xy}(49.8063, 0.2203, 0.2704)$

Have a look what the booklet for  
Yxy(49.8063, 0.2203, 0.2704)  
contains.

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# Color

**Yxy(49.6505, 0.2203, 0.2698)**

# Conversions

## Conversions Part 1

Format	Color
Hex	51C8F5
RGB	81, 200, 245
RGB Percent	32%, 78%, 96%
CMY	0.6816, 0.2157, 0.0392
CMYK	0.67, 0.18, 0.00, 0.04
HSL	196°, 89%, 64%
HSV	196°, 67%, 96%
XYZ	40.5412, 49.6505, 93.8354
YIQ	169.5490, -85.3690, -11.2330

# Conversions

## Conversions Part 2

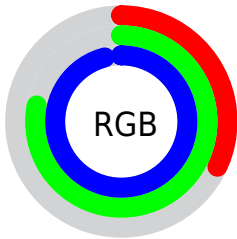
Format	Color
R <sub>YB</sub>	81, 150, 245
Decimal	5359861
CIE <sub>Lab</sub>	75.85, -19.55, -31.96
CIE <sub>LCh</sub>	76, 37.461, 238.547
Yxy	49.6505, 0.2203, 0.2698
Android (android.graphics.Color)	4283549941 (0xFF51C8F5)
YUV	169.5490, 37.1973, -77.6575
Hunter-Lab	70.4631, -20.6099, -29.6320

# Details

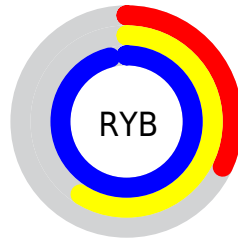
The Yxy color **49.6505, 0.2203, 0.2698** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted cyan. A complement of this color would be **34.9865, 0.4975, 0.3732**, and the grayscale version is **39.8316, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.8510, 0.2545, 0.3288**, and **24.2319, 0.2038, 0.2538** is the 20% darker color. If you saturate the color by 10%, you get **45.7049, 0.2115, 0.2593**, and if you desaturate by 10%, it is **54.1275, 0.2310, 0.2801**.

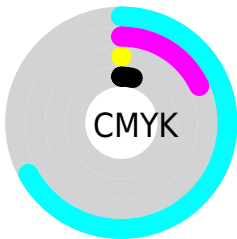
# Distribution



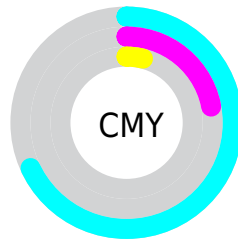
- Red (32%)
- Green (78%)
- Blue (96%)



- Red (32%)
- Yellow (59%)
- Blue (96%)



- Cyan (67%)
- Magenta (18%)
- Yellow (0%)
- Black (4%)




- Cyan (68%)
- Magenta (22%)
- Yellow (4%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.6505, 0.2203, 0.2698 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 49.6505, 0.2203, 0.2698 by changing the saturation by 10% instead.





 49.6505, 0.2203,  
0.2698

 49.6505, 0.2203,  
0.2698


385.2976, 0.2640,  
0.2996


 35.1358, 0.2103,  
0.2625


 89.6568, 0.2355,  
0.2806


 23.7675, 0.1979,  
0.2532


 115.9172, 0.2414,  
0.2846

 15.1612, 0.1824,  
0.2412


 146.8616, 0.2465,  
0.2881

 8.9326, 0.1625,  
0.2249

 182.8744, 0.2509,  
0.2910

 4.6973, 0.1363,  
0.2023

224.3400, 0.2548,  
0.2936

 2.0708, 0.1015,  
0.1692

271.6428, 0.2582,

 0.6481, 0.0258,

0.2958

0.1204

325.1672, 0.2612,  
0.2978

■ 0.0000, 0.0000,  
0.0000

■ 49.6505, 0.2203,  
0.2698

■ 49.6505, 0.2203,  
0.2698

■ 45.7049, 0.2115,  
0.2593

■ 54.1275, 0.2310,  
0.2801

■ 42.2395, 0.2048,  
0.2489

■ 59.1701, 0.2433,  
0.2901

■ 39.1982, 0.2000,  
0.2386

■ 64.8148, 0.2569,  
0.2996

■ 38.3027, 0.1987,  
0.2354

■ 71.0933, 0.2715,  
0.3085

■ 78.0347, 0.2866,  
0.3167

85.6661, 0.3021,  
0.3243

94.0126, 0.3176,  
0.3311

98.6424, 0.3186,  
0.3375

99.3728, 0.3185,  
0.3386

# Harmonies

## Analogous

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



49.6505, 0.2265, 0.3092



49.6505, 0.2203, 0.2698



49.6505, 0.2358, 0.2499

# Triad

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



49.6505, 0.2203, 0.2698



49.6505, 0.3715, 0.2981



49.6505, 0.3493, 0.4222

# Complementary

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



49.6505, 0.2203, 0.2698



34.9865, 0.4975, 0.3732

# 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.



49.6505, 0.3920, 0.4095



49.6505, 0.2203, 0.2698



49.6505, 0.4070, 0.3370

# Square

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



49.6505, 0.2203, 0.2698



49.6505, 0.3205, 0.2671



49.6505, 0.4141, 0.3771



49.6505, 0.2987, 0.4046



# Rectangle

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



49.6505, 0.2203, 0.2698



49.6505, 0.2574, 0.2477



49.6505, 0.4141, 0.3771



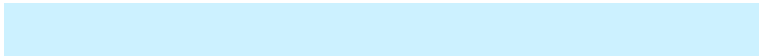
49.6505, 0.3651, 0.4210

# Sweetspot

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



49.6523, 0.2203, 0.2698



82.9584, 0.2818, 0.3142



68.5428, 0.2864, 0.4938



17.2964, 0.2775, 0.3119



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.



49.6523, 0.2203, 0.2698



48.7410, 0.2091, 0.2559



21.6437, 0.1932, 0.1576



17.9426, 0.2980, 0.3223



20.8770, 0.1992, 0.2371



2.0060, 0.2028, 0.2500



# Inverse Universe

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



29.4964, 0.3694, 0.2135



27.7482, 0.3847, 0.2025



64.5302, 0.4295, 0.4513



16.6860, 0.3180, 0.3120



12.2069, 0.4053, 0.2006

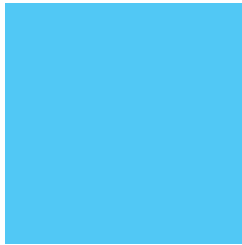


1.0901, 0.3923, 0.1935



# Previews

## White Background



This preview shows how the Yxy color 49.6505, 0.2203, 0.2698 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

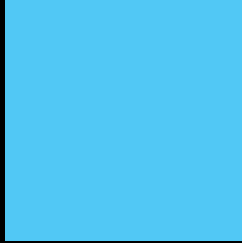
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.6505, 0.2203, 0.2698 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

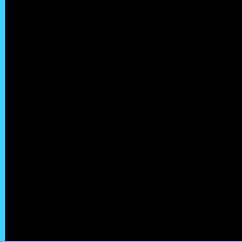
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

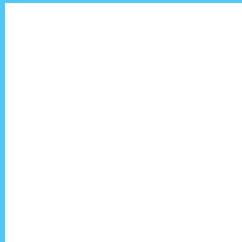
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.6505, 0.2203, 0.2698**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.6505, 0.2203, 0.2698.



This preview shows how white text looks on a background with the Yxy color 49.6505, 0.2203, 0.2698.

# 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

49.6505, 0.2203, 0.2698

### Protanopia

49.1628, 0.2702, 0.2695

### Deuteranopia

49.1415, 0.2571, 0.2507



## Tritanopia

49.5995, 0.2273, 0.3051

# Trichromacy



**Original Color**

49.6505, 0.2203, 0.2698

**Protanomaly**

48.5168, 0.2471, 0.2693

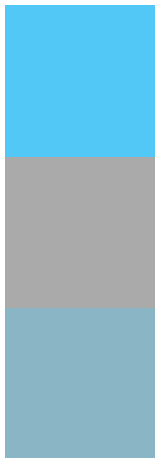
**Deuteranomaly**

48.4909, 0.2396, 0.2556

**Tritanomaly**

49.8028, 0.2246, 0.2920

# Monochromacy



**Original Color**

49.6505, 0.2203, 0.2698

**Achromatopsia**

40.1978, 0.3127, 0.3290

**Achromatomaly**

42.4822, 0.2675, 0.3064

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.6505, 0.2203, 0.2698 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(81, 200, 245)` looks like.

```
.text, #text, p{  
    color:rgb(81, 200, 245)  
}
```

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(81, 200, 245) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(81, 200, 245) }
```

## Border

The CSS property to change the border of an element to Yxy 49.6505, 0.2203, 0.2698 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(81, 200, 245) }
```

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

```
.border{ border-color:rgb(81, 200, 245) }
```

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

Here you see how a box with a 4 pixel rgb(81, 200, 245) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(81, 200, 245); -webkit-box-  
shadow:4px 4px 4px 4px rgb(81, 200, 245);  
box-shadow:4px 4px 4px 4px rgb(81, 200,  
245) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.6505, 0.2203, 0.2698 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(81, 200, 245) }
```

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

```
.background{ background-color: rgb(81, 200,  
245) }
```

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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