

# Converting Colors

$Y_{xy}(50.7465, 0.2261, 0.2651)$

Have a look what the booklet for  
Yxy(50.7465, 0.2261, 0.2651)  
contains.

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# Color

**Yxy(50.5700, 0.2260, 0.2650)**

# Conversions

## Conversions Part 1

Format	Color
Hex	67C7F9
RGB	103, 199, 249
RGB Percent	40%, 78%, 98%
CMY	0.5957, 0.2197, 0.0234
CMYK	0.59, 0.20, 0.00, 0.02
HSL	201°, 92%, 69%
HSV	201°, 59%, 98%
XYZ	43.1276, 50.5700, 97.1326
YIQ	175.9960, -73.2660, -4.8020

# Conversions

## Conversions Part 2

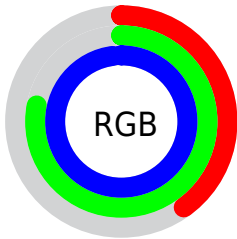
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	103, 161, 249
Decimal	6801401
CIE Lab	76.42, -14.14, -33.19
CIE LCh	76, 36.074, 246.929
Yxy	50.5700, 0.2260, 0.2650
Android (android.graphics.Color)	4284991481 (0xFF67C7F9)
YUV	175.9960, 35.9910, -64.0175
Hunter-Lab	71.1126, -16.1922, -31.2053

# Details

The Yxy color **50.5700, 0.2260, 0.2650** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **43.9572, 0.4586, 0.3807**, and the grayscale version is **43.2658, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.6325, 0.2624, 0.3289**, and **24.2762, 0.2051, 0.2481** is the 20% darker color. If you saturate the color by 10%, you get **45.4903, 0.2146, 0.2518**, and if you desaturate by 10%, it is **56.3125, 0.2390, 0.2778**.

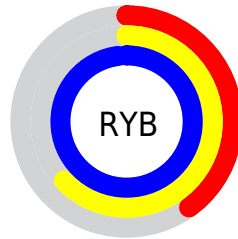
# Distribution



Red (40%)

Green (78%)

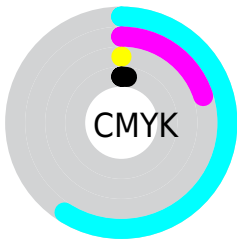
Blue (98%)



Red (40%)

Yellow (63%)

Blue (98%)

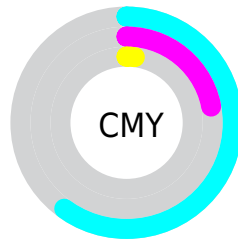


Cyan (59%)

Magenta (20%)

Yellow (0%)

Black (2%)



Cyan (60%)

Magenta (22%)

Yellow (2%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.5700, 0.2260, 0.2650 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 50.5700, 0.2260, 0.2650 by changing the saturation by 10% instead.





 50.5700, 0.2260,  
0.2650

 50.5700, 0.2260,  
0.2650


388.8908, 0.2670,  
0.2966

 35.8665, 0.2166,  
0.2574


 91.0188, 0.2403,  
0.2763

 24.3311, 0.2050,  
0.2478


 117.5330, 0.2459,  
0.2806

 15.5794, 0.1903,  
0.2354


 148.7528, 0.2506,  
0.2843

 9.2270, 0.1715,  
0.2190

185.0627, 0.2548,  
0.2874

 4.8896, 0.1466,  
0.1964

226.8470, 0.2584,  
0.2902

 2.1826, 0.1132,  
0.1640

274.4903, 0.2616,

 0.7105, 0.0542,

0.2926

0.1167

328.3767, 0.2644,  
0.2947

0.0000, 0.0000,  
0.0000

50.5700, 0.2260,  
0.2650

50.5700, 0.2260,  
0.2650

45.4903, 0.2146,  
0.2518

56.3125, 0.2390,  
0.2778

41.0240, 0.2052,  
0.2385

62.7509, 0.2532,  
0.2900

37.1217, 0.1978,  
0.2252

69.9224, 0.2682,  
0.3014

33.7116, 0.1925,  
0.2123

77.8591, 0.2838,  
0.3119

33.2593, 0.1918,  
0.2104

86.5912, 0.2994,  
0.3215

96.1468, 0.3149,  
0.3302

99.6213, 0.3162,  
0.3347

# Harmonies

## Analogous

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



50.5700, 0.2261, 0.2981



50.5700, 0.2260, 0.2650



50.5700, 0.2466, 0.2511

# Triad

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



50.5700, 0.2260, 0.2650



50.5700, 0.3807, 0.3094



50.5700, 0.3346, 0.4164

# Complementary

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



50.5700, 0.2260, 0.2650



43.9572, 0.4586, 0.3807

# 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.



50.5700, 0.3789, 0.4120



50.5700, 0.2260, 0.2650



50.5700, 0.4078, 0.3479

# Square

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



50.5700, 0.2260, 0.2650



50.5700, 0.3344, 0.2767



50.5700, 0.4066, 0.3853



50.5700, 0.2864, 0.3912



# Rectangle

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



50.5700, 0.2260, 0.2650



50.5700, 0.2706, 0.2524



50.5700, 0.4066, 0.3853



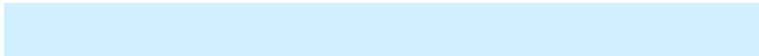
50.5700, 0.3505, 0.4181

# Sweetspot

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



50.5718, 0.2260, 0.2650



82.6749, 0.2847, 0.3125



72.9174, 0.2833, 0.4576



17.1522, 0.2801, 0.3095



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.



50.5718, 0.2260, 0.2650



47.2656, 0.2131, 0.2498



25.0203, 0.2047, 0.1688



18.5475, 0.2980, 0.3207



18.0735, 0.1924, 0.2125



1.8710, 0.1967, 0.2281



# Inverse Universe

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



33.9894, 0.3716, 0.2329



30.3835, 0.3885, 0.2203



74.8189, 0.4097, 0.4483



17.4175, 0.3191, 0.3135



12.2354, 0.4313, 0.2150



1.1531, 0.4147, 0.2058



# Previews

## White Background



This preview shows how the Yxy color 50.5700, 0.2260, 0.2650 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

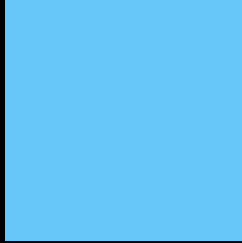
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 50.5700, 0.2260, 0.2650 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

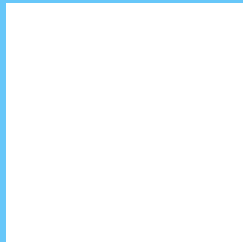
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 50.5700, 0.2260, 0.2650**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.5700, 0.2260, 0.2650.



This preview shows how white text looks on a background with the Yxy color 50.5700, 0.2260, 0.2650.

# 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

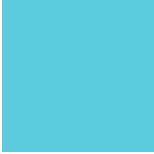
50.5700, 0.2260, 0.2650

### Protanopia

49.9286, 0.2666, 0.2642

### Deuteranopia

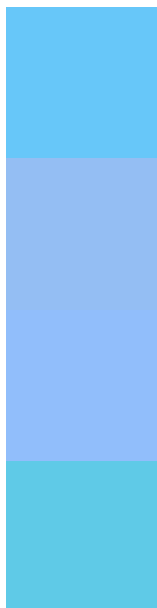
50.1612, 0.2557, 0.2502



## **Tritanopia**

50.6303, 0.2351, 0.3055

# Trichromacy



**Original Color**

50.5700, 0.2260, 0.2650

**Protanomaly**

49.5939, 0.2486, 0.2634

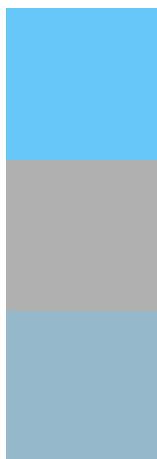
**Deuteranomaly**

49.8117, 0.2427, 0.2545

**Tritanomaly**

50.4435, 0.2315, 0.2900

# Monochromacy



**Original Color**

50.5700, 0.2260, 0.2650

**Achromatopsia**

43.4154, 0.3127, 0.3290

**Achromatomaly**

44.9823, 0.2717, 0.3032

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.5700, 0.2260, 0.2650 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, 199, 249)` looks like.

```
.text, #text, p{  
    color:rgb(103, 199, 249)  
}
```

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, 199, 249) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 199, 249) }
```

## Border

The CSS property to change the border of an element to Yxy 50.5700, 0.2260, 0.2650 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, 199, 249) }
```

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

```
.border{ border-color:rgb(103, 199, 249) }
```

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

Here you see how a box with a 4 pixel `rgb(103, 199, 249)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 199, 249); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 199, 249);  
box-shadow:4px 4px 4px 4px rgb(103, 199,  
249) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.5700, 0.2260, 0.2650 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 199, 249) }
```

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

```
.background{ background-color: rgb(103,  
199, 249) }
```

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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