

# Converting Colors

$Y_{xy}(50.7993, 0.2252, 0.2575)$

Have a look what the booklet for  
Yxy(50.7993, 0.2252, 0.2575)  
contains.

<b>Yxy(50.7963, 0.2252, 0.2575)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(50.7963, 0.2252, 0.2575)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6CC6FF
RGB	108, 198, 255
RGB Percent	42%, 78%, 100%
CMY	0.5764, 0.2235, 0.0001
CMYK	0.58, 0.22, 0.00, 0.00
HSL	203°, 100%, 71%
HSV	203°, 58%, 100%
XYZ	44.4246, 50.7963, 102.0463
YIQ	177.5880, -71.9370, -1.3530

# Conversions

## Conversions Part 2

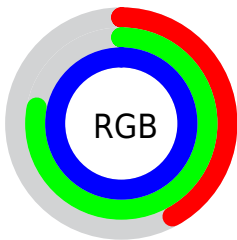
Format	Color
R <sub>Y</sub> B	108, 164, 255
Decimal	7128831
CIE Lab	76.56, -10.92, -36.14
CIE LCh	77, 37.757, 253.195
Yxy	50.7963, 0.2252, 0.2575
Android (android.graphics.Color)	4285318911 (0xFF6CC6FF)
YUV	177.5880, 38.1641, -61.0287
Hunter-Lab	71.2715, -13.4635, -35.0011

# Details

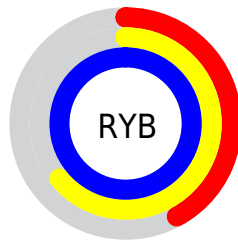
The Yxy color **50.7963, 0.2252, 0.2575** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **49.2375, 0.4508, 0.3868**, and the grayscale version is **44.1167, 0.3127, 0.3290**.

A 20% lighter version of the original color is **87.1750, 0.2647, 0.3289**, and **24.3811, 0.2040, 0.2384** is the 20% darker color. If you saturate the color by 10%, you get **45.0545, 0.2130, 0.2425**, and if you desaturate by 10%, it is **57.3039, 0.2389, 0.2721**.

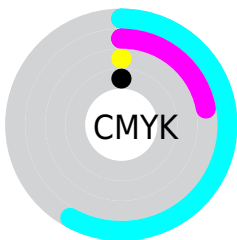
# Distribution



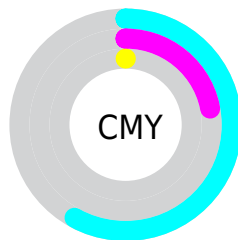
- Red (42%)
- Green (78%)
- Blue (100%)



- Red (42%)
- Yellow (64%)
- Blue (100%)



- Cyan (58%)
- Magenta (22%)
- Yellow (0%)
- Black (0%)




- Cyan (58%)
- Magenta (22%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.7963, 0.2252, 0.2575 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 50.7963, 0.2252, 0.2575 by changing the saturation by 10% instead.





 50.7963, 0.2252,  
0.2575


 50.7963, 0.2252,  
0.2575


389.7718, 0.2665,  
0.2924

 36.0465, 0.2157,  
0.2492


 91.3536, 0.2396,  
0.2699

 24.4701, 0.2041,  
0.2389


 117.9299, 0.2452,  
0.2746

 15.6827, 0.1895,  
0.2257


 149.2172, 0.2500,  
0.2787

 9.2999, 0.1707,  
0.2083

185.5998, 0.2541,  
0.2822

 4.9373, 0.1461,  
0.1848

227.4622, 0.2578,  
0.2852

 2.2105, 0.1132,  
0.1519

275.1887, 0.2610,

 0.7257, 0.0614,

0.2879

0.1052

329.1638, 0.2639,  
0.2903

0.0000, 0.0000,  
0.0000

50.7963, 0.2252,  
0.2575

50.7963, 0.2252,  
0.2575

45.0545, 0.2130,  
0.2425

57.3039, 0.2389,  
0.2721

40.0253, 0.2027,  
0.2272

64.6143, 0.2538,  
0.2859

35.6553, 0.1945,  
0.2121

72.7677, 0.2693,  
0.2988

31.8733, 0.1885,  
0.1974

81.7999, 0.2851,  
0.3107

31.0431, 0.1872,  
0.1940

91.7440, 0.3009,  
0.3215

99.9982, 0.3127,  
0.3290

# Harmonies

## Analogous

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



50.7963, 0.2207, 0.2878



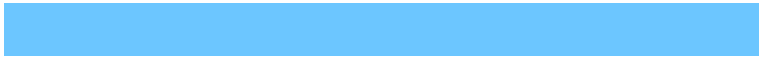
50.7963, 0.2252, 0.2575



50.7963, 0.2508, 0.2474

# Triad

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



50.7963, 0.2252, 0.2575



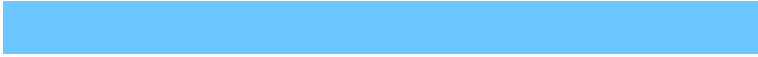
50.7963, 0.3918, 0.3165



50.7963, 0.3247, 0.4176

# Complementary

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



50.7963, 0.2252, 0.2575



49.2375, 0.4508, 0.3868

# 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.



50.7963, 0.3730, 0.4190



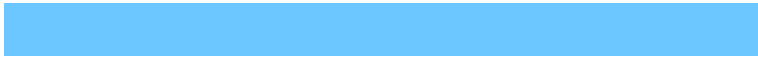
50.7963, 0.2252, 0.2575



50.7963, 0.4144, 0.3569

# Square

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



50.7963, 0.2252, 0.2575



50.7963, 0.3462, 0.2808



50.7963, 0.4066, 0.3945

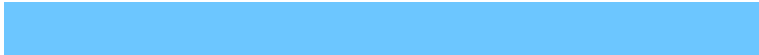


50.7963, 0.2754, 0.3853



# Rectangle

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



50.7963, 0.2252, 0.2575



50.7963, 0.2780, 0.2514



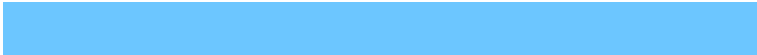
50.7963, 0.4066, 0.3945



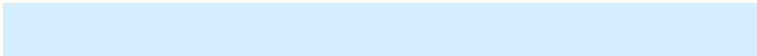
50.7963, 0.3416, 0.4216

# Sweetspot

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



50.7981, 0.2252, 0.2575



82.4291, 0.2861, 0.3114



77.3834, 0.2802, 0.4455



17.2368, 0.2829, 0.3091



0.0000, 0.0000, 0.0000

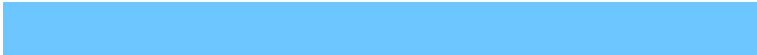


21.4041, 0.3127, 0.3290



# Same Dimension

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



50.7981, 0.2252, 0.2575



44.3405, 0.2115, 0.2404



25.1126, 0.2045, 0.1626



19.2298, 0.2979, 0.3196



16.5232, 0.1879, 0.1964



1.8210, 0.1925, 0.2131



# Inverse Universe

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



36.0587, 0.3780, 0.2400



30.4385, 0.3972, 0.2282



83.3853, 0.4042, 0.4527



18.1741, 0.3198, 0.3145



12.3960, 0.4494, 0.2249

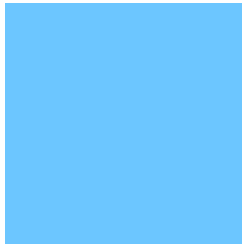


1.2284, 0.4307, 0.2146



# Previews

## White Background



This preview shows how the Yxy color 50.7963, 0.2252, 0.2575 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

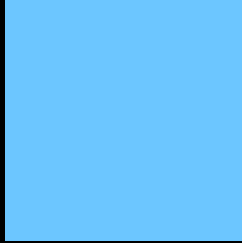
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 50.7963, 0.2252, 0.2575 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

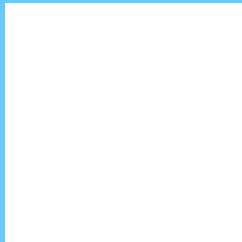
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 50.7963, 0.2252, 0.2575**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.7963, 0.2252, 0.2575.

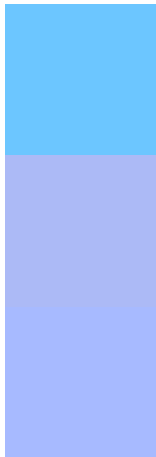


This preview shows how white text looks on a background with the Yxy color 50.7963, 0.2252, 0.2575.

# 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

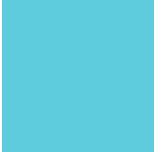
50.7963, 0.2252, 0.2575

### Protanopia

50.5423, 0.2613, 0.2579

### Deuteranopia

50.5533, 0.2530, 0.2481



## **Tritanopia**

50.7859, 0.2362, 0.3056

# Trichromacy



**Original Color**

50.7963, 0.2252, 0.2575

**Protanomaly**

50.0560, 0.2460, 0.2571

**Deuteranomaly**

50.1579, 0.2413, 0.2505

**Tritanomaly**

50.7769, 0.2322, 0.2877

# Monochromacy



**Original Color**

50.7963, 0.2252, 0.2575

**Achromatopsia**

44.5201, 0.3127, 0.3290

**Achromatomaly**

45.9265, 0.2728, 0.3009

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.7963, 0.2252, 0.2575 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(108, 198, 255)` looks like.

```
.text, #text, p{  
    color:rgb(108, 198, 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(108, 198, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(108, 198, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 50.7963, 0.2252, 0.2575 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(108, 198, 255) }
```

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

```
.border{ border-color:rgb(108, 198, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(108, 198, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(108, 198, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(108, 198, 255); box-shadow:4px 4px 4px 4px rgb(108, 198, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.7963, 0.2252, 0.2575 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(108, 198, 255) }
```

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

```
.background{ background-color: rgb(108,  
198, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor