

# Converting Colors

$Y_{xy}(45.0769, 0.2174, 0.2412)$

Have a look what the booklet for  
Yxy(45.0769, 0.2174, 0.2412)  
contains.

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# Color

**Yxy(44.8792, 0.2173, 0.2406)**

# Conversions

## Conversions Part 1

Format	Color
Hex	61BAFF
RGB	97, 186, 255
RGB Percent	38%, 73%, 100%
CMY	0.6197, 0.2705, 0.0001
CMYK	0.62, 0.27, 0.00, 0.00
HSL	206°, 100%, 69%
HSV	206°, 62%, 100%
XYZ	40.5330, 44.8792, 101.1181
YIQ	167.2550, -75.1930, 2.5910

# Conversions

## Conversions Part 2

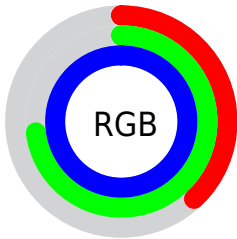
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	97, 154, 255
Decimal	6404863
CIE Lab	72.81, -6.46, -42.00
CIE LCh	73, 42.497, 261.256
Yxy	44.8792, 0.2173, 0.2406
Android (android.graphics.Color)	4284594943 (0xFF61BAFF)
YUV	167.2550, 43.2583, -61.6136
Hunter-Lab	66.9919, -9.2356, -42.5984

# Details

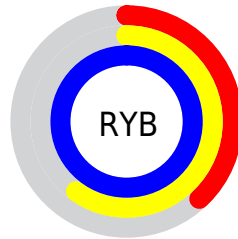
The Yxy color **44.8792, 0.2173, 0.2406** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **49.3696, 0.4590, 0.3975**, and the grayscale version is **38.5839, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.0952, 0.2579, 0.3143**, and **20.8523, 0.1937, 0.2174** is the 20% darker color. If you saturate the color by 10%, you get **39.1899, 0.2051, 0.2234**, and if you desaturate by 10%, it is **51.3868, 0.2311, 0.2574**.

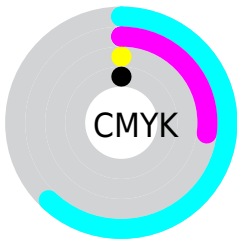
# Distribution



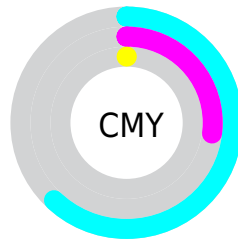
- Red (38%)
- Green (73%)
- Blue (100%)



- Red (38%)
- Yellow (60%)
- Blue (100%)



- Cyan (62%)
- Magenta (27%)
- Yellow (0%)
- Black (0%)




- Cyan (62%)
- Magenta (27%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 44.8792, 0.2173, 0.2406 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 44.8792, 0.2173, 0.2406 by changing the saturation by 10% instead.





 44.8792, 0.2173,  
0.2406

 44.8792, 0.2173,  
0.2406


366.2841, 0.2630,  
0.2838


 31.3623, 0.2067,  
0.2304


 82.5391, 0.2333,  
0.2559


 20.8749, 0.1937,  
0.2177


 107.4509, 0.2395,  
0.2618

 13.0326, 0.1774,  
0.2016


 136.9298, 0.2448,  
0.2668

 7.4510, 0.1564,  
0.1807

 171.3601, 0.2494,  
0.2711

 3.7457, 0.1291,  
0.1529

211.1263, 0.2535,  
0.2749

 1.5324, 0.0936,  
0.1156

256.6128, 0.2570,

 0.3113, 0.0228,

0.2782

0.0513

308.2039, 0.2602,  
0.2811

0.0000, 0.0000,  
0.0000

44.8792, 0.2173,  
0.2406

44.8792, 0.2173,  
0.2406

39.1899, 0.2051,  
0.2234

51.3868, 0.2311,  
0.2574

34.2610, 0.1950,  
0.2062

58.7550, 0.2462,  
0.2736

30.0313, 0.1872,  
0.1894

67.0278, 0.2620,  
0.2887

27.0701, 0.1824,  
0.1765

76.2444, 0.2780,  
0.3027

86.4412, 0.2940,  
0.3154

97.6524, 0.3097,  
0.3269

99.9989, 0.3127,  
0.3290

# Harmonies

## Analogous

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



44.8792, 0.2055, 0.2684



44.8792, 0.2173, 0.2406



44.8792, 0.2523, 0.2358

# Triad

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



44.8792, 0.2173, 0.2406



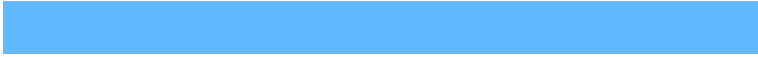
44.8792, 0.4161, 0.3258



44.8792, 0.3097, 0.4276

# Complementary

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



44.8792, 0.2173, 0.2406



49.3696, 0.4590, 0.3975

# 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.



44.8792, 0.3679, 0.4378



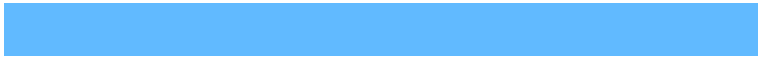
44.8792, 0.2173, 0.2406



44.8792, 0.4328, 0.3722

# Square

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



44.8792, 0.2173, 0.2406



44.8792, 0.3678, 0.2832



44.8792, 0.4137, 0.4140

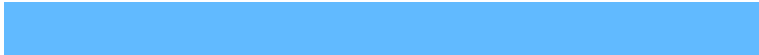


44.8792, 0.2553, 0.3806



# Rectangle

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



44.8792, 0.2173, 0.2406



44.8792, 0.2867, 0.2441



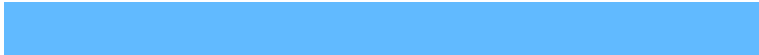
44.8792, 0.4137, 0.4140



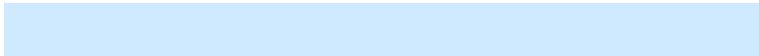
44.8792, 0.3295, 0.4355

# Sweetspot

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



44.8808, 0.2173, 0.2406



79.1821, 0.2828, 0.3066



76.7810, 0.2756, 0.4453



16.3449, 0.2782, 0.3028



0.0000, 0.0000, 0.0000

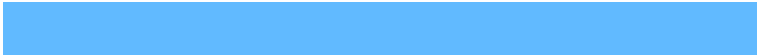


21.4041, 0.3127, 0.3290



# Same Dimension

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



44.8808, 0.2173, 0.2406



38.1358, 0.2029, 0.2199



20.3789, 0.1941, 0.1399



19.0763, 0.2979, 0.3184



14.4495, 0.1831, 0.1791



1.6245, 0.1883, 0.1977



# Inverse Universe

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



33.3457, 0.3947, 0.2421



28.1946, 0.4190, 0.2330



87.0904, 0.4056, 0.4655



18.1586, 0.3205, 0.3157



12.1867, 0.4696, 0.2360

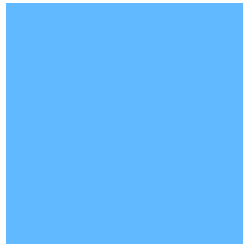


1.2085, 0.4479, 0.2241



# Previews

## White Background



This preview shows how the Yxy color 44.8792, 0.2173, 0.2406 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

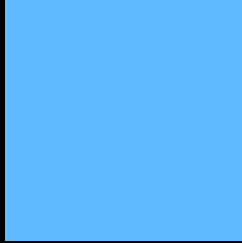
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 44.8792, 0.2173, 0.2406 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

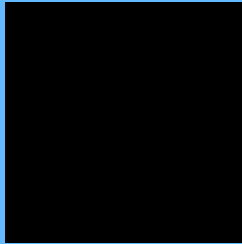
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

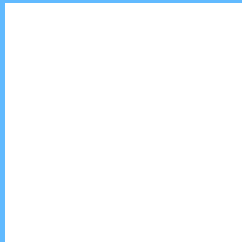
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 44.8792, 0.2173, 0.2406**

## Background



This preview shows how black text looks on a background with the Yxy color 44.8792, 0.2173, 0.2406.



This preview shows how white text looks on a background with the Yxy color 44.8792, 0.2173, 0.2406.

# 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

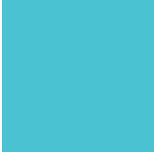
44.8792, 0.2173, 0.2406

### Protanopia

44.3817, 0.2490, 0.2420

### Deuteranopia

44.4737, 0.2389, 0.2330



## Tritanopia

44.7326, 0.2311, 0.3056

# Trichromacy



## Original Color

44.8792, 0.2173, 0.2406

## Protanomaly

44.2306, 0.2357, 0.2413

## Deuteranomaly

44.5296, 0.2299, 0.2358

## Tritanomaly

44.5916, 0.2257, 0.2801

# Monochromacy



## Original Color

44.8792, 0.2173, 0.2406

## Achromatopsia

38.6429, 0.3127, 0.3290

## Achromatomaly

40.1464, 0.2679, 0.2939

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 44.8792, 0.2173, 0.2406 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(97, 186, 255)` looks like.

```
.text, #text, p{  
    color:rgb(97, 186, 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(97, 186, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(97, 186, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 44.8792, 0.2173, 0.2406 is called "border". The border property can be set on classes, ids or directly on the HTML element.

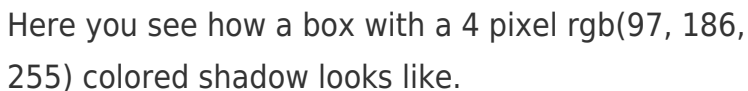
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(97, 186, 255) }
```

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

```
.border{ border-color:rgb(97, 186, 255) }
```

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



Here you see how a box with a 4 pixel `rgb(97, 186, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(97, 186, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(97, 186, 255); box-shadow:4px 4px 4px 4px rgb(97, 186, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 44.8792, 0.2173, 0.2406 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(97, 186, 255) }
```

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

```
.background{ background-color: rgb(97, 186,  
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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