

# Converting Colors

$Y_{xy}(44.7999, 0.2127, 0.2416)$

Have a look what the booklet for  
Yxy(44.7999, 0.2127, 0.2416)  
contains.

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# Color

**Yxy(44.9803, 0.2128, 0.2422)**

# Conversions

## Conversions Part 1

Format	Color
Hex	52BCFF
RGB	82, 188, 255
RGB Percent	32%, 74%, 100%
CMY	0.6780, 0.2628, 0.0000
CMYK	0.68, 0.26, 0.00, 0.00
HSL	203°, 100%, 66%
HSV	203°, 68%, 100%
XYZ	39.5203, 44.9803, 101.2150
YIQ	163.9440, -84.6830, -1.6350

# Conversions

## Conversions Part 2

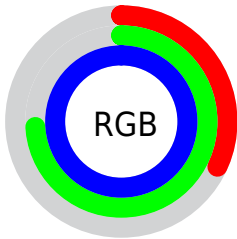
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	82, 148, 255
Decimal	5422335
CIE Lab	72.88, -9.91, -41.95
CIE LCh	73, 43.105, 256.711
Yxy	44.9803, 0.2128, 0.2422
Android (android.graphics.Color)	4283612415 (0xFF52BCFF)
YUV	163.9440, 44.8906, -71.8649
Hunter-Lab	67.0674, -12.1845, -42.5306

# Details

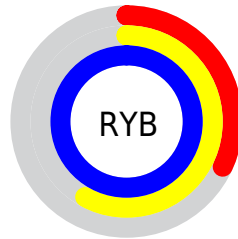
The Yxy color **44.9803, 0.2128, 0.2422** is a light color, and the websafe version is hex **66CCFF**. The color can be described as light muted azure. A complement of this color would be **43.4019, 0.4845, 0.3928**, and the grayscale version is **36.9221, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.2173, 0.2533, 0.3164**, and **21.4052, 0.1948, 0.2211** is the 20% darker color. If you saturate the color by 10%, you get **39.9621, 0.2025, 0.2270**, and if you desaturate by 10%, it is **50.7141, 0.2250, 0.2573**.

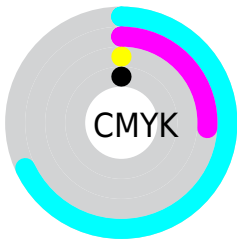
# Distribution



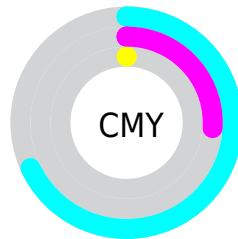
- Red (32%)
- Green (74%)
- Blue (100%)



- Red (32%)
- Yellow (58%)
- Blue (100%)



- Cyan (68%)
- Magenta (26%)
- Yellow (0%)
- Black (0%)



- Cyan (68%)
- Magenta (26%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 44.9803, 0.2128, 0.2422 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 44.9803, 0.2128, 0.2422 by changing the saturation by 10% instead.



■ 44.9803, 0.2128,  
0.2422

■ 44.9803, 0.2128,  
0.2422

■ 366.6938, 0.2604,  
0.2849

■ 31.4419, 0.2019,  
0.2321

■ 82.6908, 0.2294,  
0.2574

■ 20.9356, 0.1884,  
0.2195

■ 107.6318, 0.2359,  
0.2632

■ 13.0769, 0.1715,  
0.2034

■ 137.1424, 0.2414,  
0.2681

■ 7.4815, 0.1501,  
0.1824

■ 171.6070, 0.2462,  
0.2724

■ 3.7650, 0.1223,  
0.1545

■ 211.4101, 0.2505,  
0.2761

■ 1.5430, 0.0867,  
0.1169

■ 256.9360, 0.2542,

■ 0.3187, 0.0102,

0.2794

0.0531

308.5691, 0.2575,  
0.2823

0.0000, 0.0000,  
0.0000

44.9803, 0.2128,  
0.2422

44.9803, 0.2128,  
0.2422

39.9621, 0.2025,  
0.2270

50.7141, 0.2250,  
0.2573

35.6013, 0.1944,  
0.2119

57.2086, 0.2387,  
0.2718

31.8267, 0.1884,  
0.1972

64.5071, 0.2535,  
0.2857

31.0538, 0.1872,  
0.1940

72.6482, 0.2690,  
0.2986

81.6677, 0.2849,  
0.3105

■ 91.5988, 0.3006,  
0.3213

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.



44.9803, 0.2046, 0.2739



44.9803, 0.2128, 0.2422



44.9803, 0.2447, 0.2340

# Triad

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



44.9803, 0.2128, 0.2422



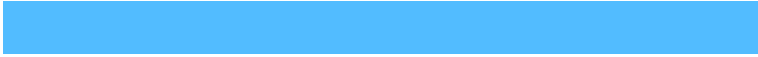
44.9803, 0.4118, 0.3187



44.9803, 0.3187, 0.4333

# Complementary

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



44.9803, 0.2128, 0.2422



43.4019, 0.4845, 0.3928

# 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.



44.9803, 0.3768, 0.4375



44.9803, 0.2128, 0.2422



44.9803, 0.4342, 0.3656

# Square

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



44.9803, 0.2128, 0.2422



44.9803, 0.3594, 0.2768



44.9803, 0.4200, 0.4093



44.9803, 0.2620, 0.3903



# Rectangle

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



44.9803, 0.2128, 0.2422



44.9803, 0.2778, 0.2404



44.9803, 0.4200, 0.4093



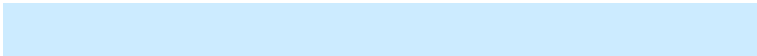
44.9803, 0.3387, 0.4391

# Sweetspot

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



44.9812, 0.2128, 0.2422



79.6080, 0.2814, 0.3080



75.4688, 0.2781, 0.4703



16.4893, 0.2769, 0.3047



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.



44.9812, 0.2128, 0.2422



38.4988, 0.1997, 0.2221



18.5757, 0.1857, 0.1311



19.2299, 0.2979, 0.3196



16.5248, 0.1879, 0.1964



1.8211, 0.1925, 0.2131



# Inverse Universe

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



30.9410, 0.3951, 0.2292



26.5040, 0.4186, 0.2217



81.1896, 0.4175, 0.4680



18.1741, 0.3198, 0.3145



12.3962, 0.4493, 0.2249



1.2284, 0.4307, 0.2146



# Previews

## White Background



This preview shows how the Yxy color 44.9803, 0.2128, 0.2422 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

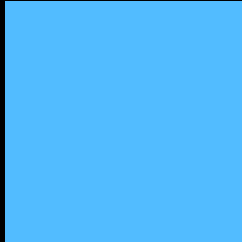
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 44.9803, 0.2128, 0.2422 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

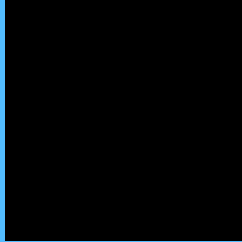
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

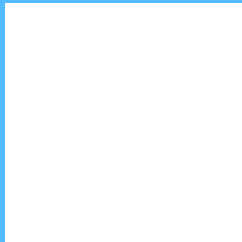
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 44.9803, 0.2128, 0.2422**

## **Background**



This preview shows how black text looks on a background with the Yxy color 44.9803, 0.2128, 0.2422.



This preview shows how white text looks on a background with the Yxy color 44.9803, 0.2128, 0.2422.

# 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

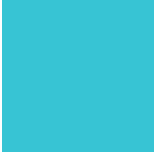
44.9803, 0.2128, 0.2422

### Protanopia

44.4206, 0.2502, 0.2432

### Deuteranopia

44.4737, 0.2389, 0.2330



## **Tritanopia**

45.0455, 0.2251, 0.3054

# Trichromacy



**Original Color**

44.9803, 0.2128, 0.2422

**Protanomaly**

44.2279, 0.2332, 0.2420

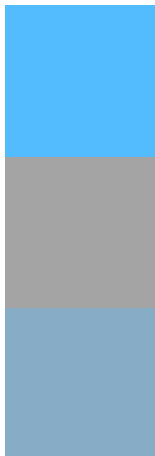
**Deuteranomaly**

44.0735, 0.2269, 0.2351

**Tritanomaly**

44.8652, 0.2199, 0.2798

# Monochromacy



**Original Color**

44.9803, 0.2128, 0.2422

**Achromatopsia**

37.1238, 0.3127, 0.3290

**Achromatomaly**

38.9867, 0.2633, 0.2946

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 44.9803, 0.2128, 0.2422 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(82, 188, 255)` looks like.

```
.text, #text, p{  
    color:rgb(82, 188, 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(82, 188, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(82, 188, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 44.9803, 0.2128, 0.2422 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(82, 188, 255) }
```

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

```
.border{ border-color:rgb(82, 188, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(82, 188, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(82, 188, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(82, 188, 255);  
box-shadow:4px 4px 4px 4px rgb(82, 188,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 44.9803, 0.2128, 0.2422 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(82, 188, 255) }
```

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

```
.background{ background-color: rgb(82, 188,  
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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