

# Converting Colors

$Y_{xy}(52.3239, 0.2296, 0.2608)$

Have a look what the booklet for  
Yxy(52.3239, 0.2296, 0.2608)  
contains.

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# Color

**Yxy(52.3105, 0.2295, 0.2607)**

# Conversions

## Conversions Part 1

Format	Color
Hex	75C8FF
RGB	117, 200, 255
RGB Percent	46%, 78%, 100%
CMY	0.5409, 0.2157, 0.0000
CMYK	0.54, 0.22, 0.00, 0.00
HSL	204°, 100%, 73%
HSV	204°, 54%, 100%
XYZ	46.0501, 52.3105, 102.2934
YIQ	181.4530, -67.1230, -0.4910

# Conversions

## Conversions Part 2

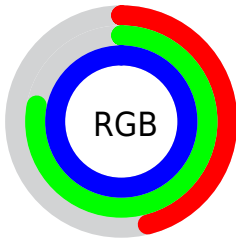
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	117, 169, 255
Decimal	7719167
CIE <sub>Lab</sub>	77.47, -10.17, -34.73
CIE <sub>LCh</sub>	77, 36.190, 253.686
Yxy	52.3105, 0.2295, 0.2607
Android (android.graphics.Color)	4285909247 (0xFF75C8FF)
YUV	181.4530, 36.2587, -56.5253
Hunter-Lab	72.3260, -12.9192, -33.2279

# Details

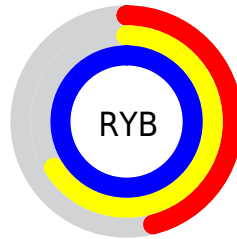
The Yxy color **52.3105, 0.2295, 0.2607** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **52.0855, 0.4384, 0.3855**, and the grayscale version is **46.3031, 0.3127, 0.3290**.

A 20% lighter version of the original color is **88.0871, 0.2686, 0.3289**, and **25.3388, 0.2093, 0.2428** is the 20% darker color. If you saturate the color by 10%, you get **46.2221, 0.2165, 0.2453**, and if you desaturate by 10%, it is **59.1946, 0.2438, 0.2755**.

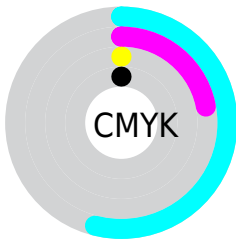
# Distribution



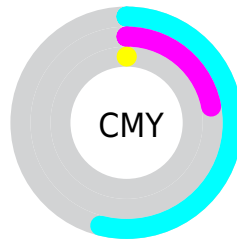
- Red (46%)
- Green (78%)
- Blue (100%)



- Red (46%)
- Yellow (66%)
- Blue (100%)



- Cyan (54%)
- Magenta (22%)
- Yellow (0%)
- Black (0%)



- Cyan (54%)
- Magenta (22%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 52.3105, 0.2295, 0.2607 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 52.3105, 0.2295, 0.2607 by changing the saturation by 10% instead.



■ 52.3105, 0.2295,  
0.2607

■ 52.3105, 0.2295,  
0.2607

■ 395.6341, 0.2687,  
0.2939

■ 37.2526, 0.2205,  
0.2528

■ 93.5890, 0.2432,  
0.2725

■ 25.4032, 0.2095,  
0.2430

■ 120.5784, 0.2485,  
0.2770

■ 16.3777, 0.1956,  
0.2305

■ 152.3138, 0.2530,  
0.2808

■ 9.7918, 0.1777,  
0.2141

■ 189.1796, 0.2570,  
0.2841

■ 5.2611, 0.1541,  
0.1917

■ 231.5601, 0.2604,  
0.2871

■ 2.4013, 0.1223,  
0.1603

■ 279.8398, 0.2635,

■ 0.8265, 0.0752,

0.2896

0.1156

334.4030, 0.2663,  
0.2919

0.0000, 0.0000,  
0.0000

52.3105, 0.2295,  
0.2607

52.3105, 0.2295,  
0.2607

46.2221, 0.2165,  
0.2453

59.1946, 0.2438,  
0.2755

40.8815, 0.2053,  
0.2297

66.9140, 0.2591,  
0.2895

36.2366, 0.1962,  
0.2140

75.5072, 0.2748,  
0.3024

32.2240, 0.1893,  
0.1988

85.0095, 0.2907,  
0.3142

30.0981, 0.1861,  
0.1900

95.4537, 0.3064,  
0.3249

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.



52.3105, 0.2249, 0.2894



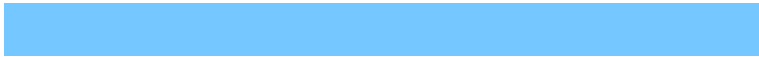
52.3105, 0.2295, 0.2607



52.3105, 0.2543, 0.2512

# Triad

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



52.3105, 0.2295, 0.2607



52.3105, 0.3883, 0.3179



52.3105, 0.3235, 0.4125

# Complementary

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



52.3105, 0.2295, 0.2607



52.0855, 0.4384, 0.3855

# 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.



52.3105, 0.3695, 0.4147



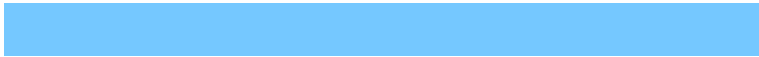
52.3105, 0.2295, 0.2607



52.3105, 0.4093, 0.3565

# Square

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



52.3105, 0.2295, 0.2607



52.3105, 0.3454, 0.2836



52.3105, 0.4017, 0.3922



52.3105, 0.2767, 0.3816



# Rectangle

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



52.3105, 0.2295, 0.2607



52.3105, 0.2805, 0.2551



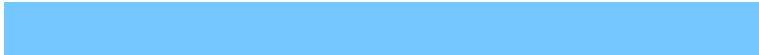
52.3105, 0.4017, 0.3922



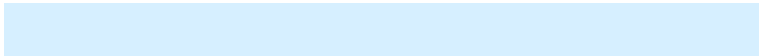
52.3105, 0.3396, 0.4165

# Sweetspot

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



52.3111, 0.2295, 0.2607



83.1193, 0.2877, 0.3121



78.2078, 0.2813, 0.4369



17.3639, 0.2844, 0.3097



0.0000, 0.0000, 0.0000

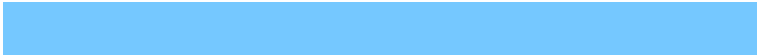


21.4041, 0.3127, 0.3290



# Same Dimension

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



52.3111, 0.2295, 0.2607



45.7040, 0.2154, 0.2439



27.8291, 0.2115, 0.1741



19.1944, 0.2979, 0.3193



16.0270, 0.1868, 0.1924



1.7743, 0.1916, 0.2096



# Inverse Universe

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



38.1707, 0.3741, 0.2460



32.1158, 0.3926, 0.2335



84.2261, 0.3991, 0.4464



18.1705, 0.3200, 0.3148



12.3459, 0.4540, 0.2274

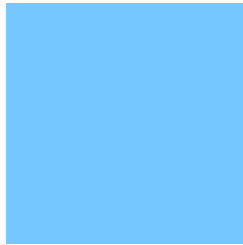


1.2237, 0.4346, 0.2168



# Previews

## White Background



This preview shows how the Yxy color 52.3105, 0.2295, 0.2607 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

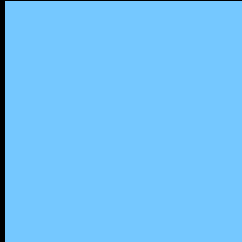
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 52.3105, 0.2295, 0.2607 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

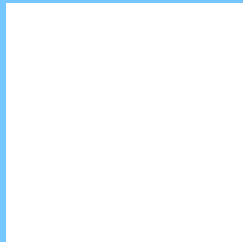
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 52.3105, 0.2295, 0.2607**

## **Background**



This preview shows how black text looks on a background with the Yxy color 52.3105, 0.2295, 0.2607.

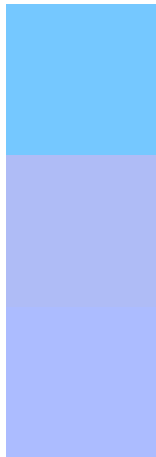


This preview shows how white text looks on a background with the Yxy color 52.3105, 0.2295, 0.2607.

# 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

52.3105, 0.2295, 0.2607

### Protanopia

51.7342, 0.2635, 0.2607

### Deuteranopia

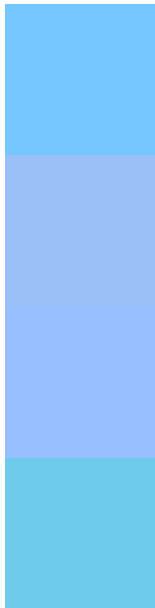
51.9571, 0.2565, 0.2512



## Tritanopia

52.4198, 0.2409, 0.3073

# Trichromacy



## Original Color

52.3105, 0.2295, 0.2607

## Protanomaly

51.4089, 0.2493, 0.2601

## Deuteranomaly

51.5947, 0.2451, 0.2537

## Tritanomaly

52.3775, 0.2364, 0.2897

# Monochromacy



## Original Color

52.3105, 0.2295, 0.2607

## Achromatopsia

46.2077, 0.3127, 0.3290

## Achromatomaly

47.7896, 0.2754, 0.3027

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 52.3105, 0.2295, 0.2607 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(117, 200, 255)` looks like.

```
.text, #text, p{  
    color:rgb(117, 200, 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(117, 200, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 200, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 52.3105, 0.2295, 0.2607 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(117, 200, 255) }
```

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

```
.border{ border-color:rgb(117, 200, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(117, 200, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(117, 200, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(117, 200, 255);  
box-shadow:4px 4px 4px 4px rgb(117, 200,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 52.3105, 0.2295, 0.2607 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 200, 255) }
```

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

```
.background{ background-color: rgb(117,  
200, 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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