

# Converting Colors

$Y_{xy}(52.3914, 0.2356, 0.2737)$

Have a look what the booklet for  
Yxy(52.3914, 0.2356, 0.2737)  
contains.

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# Color

**Yxy(52.3589, 0.2355, 0.2733)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	78C9F5
RGB	120, 201, 245
RGB Percent	47%, 79%, 96%
CMY	0.5292, 0.2118, 0.0393
CMYK	0.51, 0.18, 0.00, 0.04
HSL	201°, 86%, 72%
HSV	201°, 51%, 96%
XYZ	45.1172, 52.3589, 94.1043
YIQ	181.7970, -62.4000, -3.4880

# Conversions

## Conversions Part 2

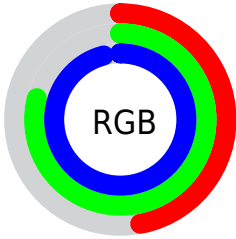
Format	Color
R <sub>Y</sub> B	120, 169, 245
Decimal	7916021
CIE Lab	77.49, -12.96, -29.31
CIE LCh	77, 32.047, 246.147
Yxy	52.3589, 0.2355, 0.2733
Android (android.graphics.Color)	4286106101 (0xFF78C9F5)
YUV	181.7970, 31.1591, -54.1960
Hunter-Lab	72.3594, -15.3317, -26.4557

# Details

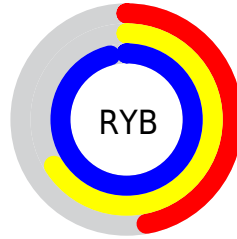
The Yxy color **52.3589, 0.2355, 0.2733** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **47.3347, 0.4321, 0.3765**, and the grayscale version is **46.5230, 0.3127, 0.3290**.

A 20% lighter version of the original color is **88.3237, 0.2696, 0.3289**, and **25.4411, 0.2164, 0.2577** is the 20% darker color. If you saturate the color by 10%, you get **46.9170, 0.2227, 0.2600**, and if you desaturate by 10%, it is **58.4786, 0.2496, 0.2860**.

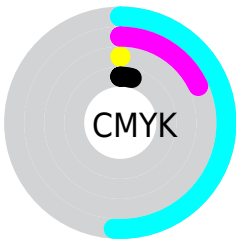
# Distribution



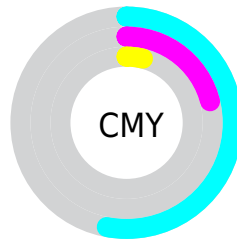
- Red (47%)
- Green (79%)
- Blue (96%)



- Red (47%)
- Yellow (66%)
- Blue (96%)



- Cyan (51%)
- Magenta (18%)
- Yellow (0%)
- Black (4%)




- Cyan (53%)
- Magenta (21%)
- Yellow (4%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 52.3589, 0.2355, 0.2733 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 52.3589, 0.2355, 0.2733 by changing the saturation by 10% instead.





 52.3589, 0.2355,  
0.2733

 52.3589, 0.2355,  
0.2733

395.8206, 0.2720,  
0.3008


 37.2912, 0.2271,  
0.2667


 93.6603, 0.2483,  
0.2831

 25.4331, 0.2166,  
0.2583


 120.6629, 0.2532,  
0.2869

 16.4000, 0.2034,  
0.2475

 152.4125, 0.2575,  
0.2900

 9.8076, 0.1862,  
0.2331

189.2936, 0.2612,  
0.2928

 5.2716, 0.1633,  
0.2129

231.6905, 0.2644,  
0.2952

 2.4075, 0.1316,  
0.1836

279.9878, 0.2672,

 0.8297, 0.0796,

0.2973

0.1398

334.5697, 0.2698,  
0.2991

0.0000, 0.0000,  
0.0000

52.3589, 0.2355,  
0.2733

52.3589, 0.2355,  
0.2733

46.9170, 0.2227,  
0.2600

58.4786, 0.2496,  
0.2860

42.1086, 0.2117,  
0.2464

65.3052, 0.2645,  
0.2979

37.8918, 0.2026,  
0.2327

72.8724, 0.2800,  
0.3089

34.2148, 0.1956,  
0.2192

81.2098, 0.2957,  
0.3190

31.2936, 0.1909,  
0.2072

90.3453, 0.3112,  
0.3281

97.9481, 0.3187,  
0.3365

99.3719, 0.3185,  
0.3386

# Harmonies

## Analogous

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



52.3589, 0.2362, 0.3033



52.3589, 0.2355, 0.2733



52.3589, 0.2535, 0.2600

# Triad

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



52.3589, 0.2355, 0.2733



52.3589, 0.3715, 0.3110



52.3589, 0.3336, 0.4053

# Complementary

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



52.3589, 0.2355, 0.2733



47.3347, 0.4321, 0.3765

# 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.



52.3589, 0.3722, 0.4018



52.3589, 0.2355, 0.2733



52.3589, 0.3958, 0.3455

# Square

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



52.3589, 0.2355, 0.2733



52.3589, 0.3308, 0.2820



52.3589, 0.3957, 0.3786



52.3589, 0.2910, 0.3839



# Rectangle

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



52.3589, 0.2355, 0.2733



52.3589, 0.2748, 0.2607



52.3589, 0.3957, 0.3786



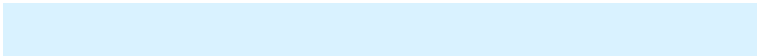
52.3589, 0.3475, 0.4069

# Sweetspot

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



52.3608, 0.2355, 0.2733



85.1593, 0.2893, 0.3151



71.9671, 0.2845, 0.4349



17.8151, 0.2860, 0.3129



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

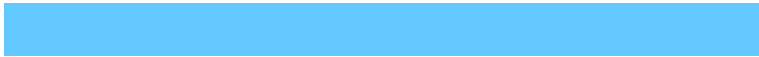


# Same Dimension

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



52.3608, 0.2355, 0.2733



51.3127, 0.2226, 0.2599



28.9944, 0.2190, 0.1900



17.7185, 0.2980, 0.3205



17.1303, 0.1915, 0.2094



1.6983, 0.1961, 0.2261



# Inverse Universe

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



37.0732, 0.3625, 0.2447



34.4500, 0.3769, 0.2310



75.2955, 0.3964, 0.4369



16.6634, 0.3192, 0.3138



11.8287, 0.4348, 0.2169

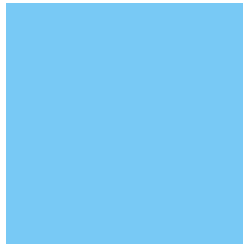


1.0591, 0.4168, 0.2070



# Previews

## White Background



This preview shows how the Yxy color 52.3589, 0.2355, 0.2733 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

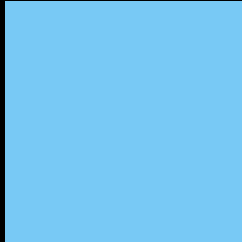
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 52.3589, 0.2355, 0.2733 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

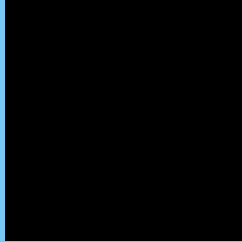
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

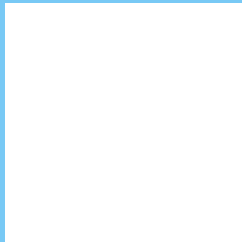
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 52.3589, 0.2355, 0.2733**

## **Background**



This preview shows how black text looks on a background with the Yxy color 52.3589, 0.2355, 0.2733.



This preview shows how white text looks on a background with the Yxy color 52.3589, 0.2355, 0.2733.

# 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

52.3589, 0.2355, 0.2733

### Protanopia

52.0350, 0.2724, 0.2730

### Deuteranopia

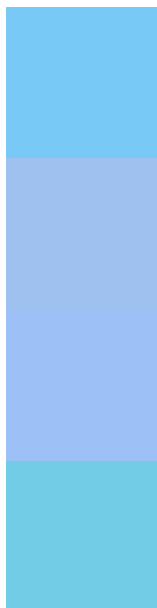
51.7829, 0.2642, 0.2578



## Tritanopia

52.3813, 0.2437, 0.3061

# Trichromacy



**Original Color**

52.3589, 0.2355, 0.2733

**Protanomaly**

51.6410, 0.2573, 0.2726

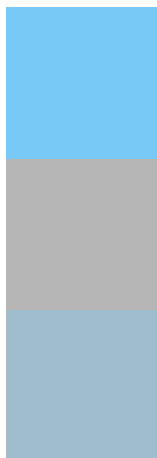
**Deuteranomaly**

51.5828, 0.2522, 0.2626

**Tritanomaly**

52.5437, 0.2410, 0.2948

# Monochromacy



**Original Color**

52.3589, 0.2355, 0.2733

**Achromatopsia**

46.7784, 0.3127, 0.3290

**Achromatomaly**

48.1739, 0.2781, 0.3079

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 52.3589, 0.2355, 0.2733 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(120, 201, 245)` looks like.

```
.text, #text, p{  
    color:rgb(120, 201, 245)  
}
```

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(120, 201, 245) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 201, 245) }
```

## Border

The CSS property to change the border of an element to Yxy 52.3589, 0.2355, 0.2733 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(120, 201, 245) }
```

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

```
.border{ border-color:rgb(120, 201, 245) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 201, 245)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 201, 245); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 201, 245);  
box-shadow:4px 4px 4px 4px rgb(120, 201,  
245) }
```



# Background

The CSS property to change the background color of an element to Yxy 52.3589, 0.2355, 0.2733 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 201, 245) }
```

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

```
.background{ background-color: rgb(120,  
201, 245) }
```

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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