

# Converting Colors

$Y_{xy}(55.8370, 0.2678, 0.2709)$

Have a look what the booklet for  
Yxy(55.8370, 0.2678, 0.2709)  
contains.

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# Color

**Yxy(55.8370, 0.2678, 0.2709)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B4C4F6
RGB	180, 196, 246
RGB Percent	71%, 77%, 96%
CMY	0.2942, 0.2314, 0.0352
CMYK	0.27, 0.20, 0.00, 0.04
HSL	225°, 79%, 84%
HSV	225°, 27%, 96%
XYZ	55.1980, 55.8370, 95.0816
YIQ	196.9160, -25.5860, 12.1580

# Conversions

## Conversions Part 2

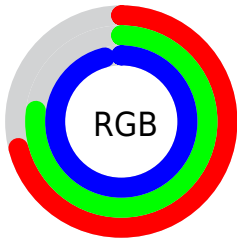
Format	Color
R <sub>Y</sub> B	180, 193, 246
Decimal	11846902
CIE Lab	79.52, 5.43, -26.47
CIE LCh	80, 27.025, 281.586
Yxy	55.8370, 0.2678, 0.2709
Android (android.graphics.Color)	4290036982 (0xFFB4C4F6)
YUV	196.9160, 24.1984, -14.8353
Hunter-Lab	74.7242, 1.0890, -23.1357

# Details

The Yxy color **55.8370, 0.2678, 0.2709** is a light color, and the websafe version is hex **CCCCFF**. A complement of this color would be **79.4958, 0.3573, 0.3810**, and the grayscale version is **55.6451, 0.3127, 0.3290**.

A 20% lighter version of the original color is **95.4751, 0.3017, 0.3270**, and **27.4993, 0.2561, 0.2555** is the 20% darker color. If you saturate the color by 10%, you get **45.2519, 0.2491, 0.2449**, and if you desaturate by 10%, it is **67.9949, 0.2856, 0.2946**.

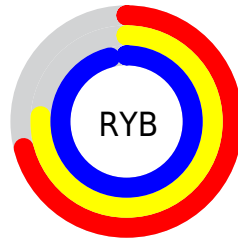
# Distribution



Red (71%)

Green (77%)

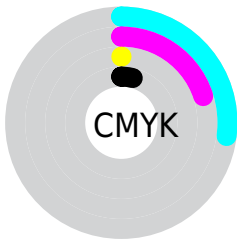
Blue (96%)



Red (71%)

Yellow (76%)

Blue (96%)

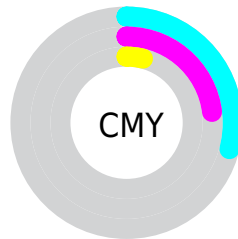


Cyan (27%)

Magenta (20%)

Yellow (0%)

Black (4%)



Cyan (29%)

Magenta (23%)

Yellow (4%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 55.8370, 0.2678, 0.2709 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 55.8370, 0.2678, 0.2709 by changing the saturation by 10% instead.



■ 55.8370, 0.2678,  
0.2709

■ 55.8370, 0.2678,  
0.2709

409.0769, 0.2894,  
0.2983

■ 40.0723, 0.2627,  
0.2646

■ 98.7662, 0.2754,  
0.2805

■ 27.5949, 0.2564,  
0.2567

126.6995, 0.2783,  
0.2842

■ 18.0205, 0.2482,  
0.2467

159.4577, 0.2808,  
0.2874

■ 10.9647, 0.2374,  
0.2336

197.4252, 0.2830,  
0.2901

■ 6.0431, 0.2225,  
0.2157

240.9866, 0.2849,  
0.2926

■ 2.8713, 0.2008,  
0.1903

290.5260, 0.2866,

■ 1.0649, 0.1671,

0.2947

0.1522

346.4280, 0.2880,  
0.2966

0.0000, 0.0384,  
0.0000

0.0000, 0.0000,  
0.0000

55.8370, 0.2678,  
0.2709

55.8370, 0.2678,  
0.2709

45.2519, 0.2491,  
0.2449

67.9949, 0.2856,  
0.2946

36.1672, 0.2299,  
0.2170

81.7809, 0.3022,  
0.3159

28.5143, 0.2111,  
0.1882

97.2555, 0.3173,  
0.3347

22.2166, 0.1937,  
0.1595

99.4358, 0.3179,  
0.3376

■ 17.1894, 0.1786,  
0.1326

■ 13.3378, 0.1668,  
0.1089

■ 10.5494, 0.1588,  
0.0898

■ 9.8523, 0.1569,  
0.0848

# Harmonies

## Analogous

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



55.8370, 0.2498, 0.2799



55.8370, 0.2678, 0.2709



55.8370, 0.2983, 0.2762

# Triad

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



55.8370, 0.2678, 0.2709



55.8370, 0.3827, 0.3487



55.8370, 0.2890, 0.3687

# Complementary

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



55.8370, 0.2678, 0.2709



79.4958, 0.3573, 0.3810

# 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.



55.8370, 0.3240, 0.3896



55.8370, 0.2678, 0.2709



55.8370, 0.3791, 0.3751

# Square

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



55.8370, 0.2678, 0.2709



55.8370, 0.3660, 0.3194



55.8370, 0.3572, 0.3911



55.8370, 0.2614, 0.3357



# Rectangle

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



55.8370, 0.2678, 0.2709



55.8370, 0.3224, 0.2866



55.8370, 0.3572, 0.3911



55.8370, 0.3003, 0.3776

# Sweetspot

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



55.8392, 0.2678, 0.2709



86.8680, 0.3003, 0.3135



81.3189, 0.2820, 0.3474



18.0929, 0.2979, 0.3104



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.



55.8392, 0.2678, 0.2709



54.3731, 0.2581, 0.2576



51.0963, 0.2778, 0.2541



16.5792, 0.2979, 0.3105



5.4392, 0.1576, 0.0873



0.6322, 0.1640, 0.1102



# Inverse Universe

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



56.2220, 0.3568, 0.3120



55.1594, 0.3686, 0.3085



85.9694, 0.3419, 0.3989



16.5484, 0.3255, 0.3233



10.6485, 0.5954, 0.3054



0.9515, 0.5607, 0.2862



# Previews

## White Background



This preview shows how the Yxy color 55.8370, 0.2678, 0.2709 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

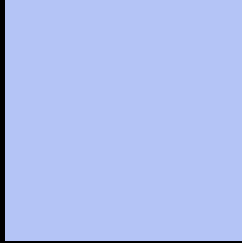
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 55.8370, 0.2678, 0.2709 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

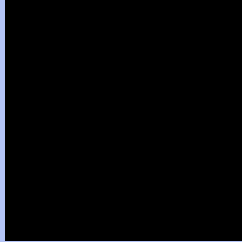
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 55.8370, 0.2678, 0.2709**

## **Background**



This preview shows how black text looks on a background with the Yxy color 55.8370, 0.2678, 0.2709.



This preview shows how white text looks on a background with the Yxy color 55.8370, 0.2678, 0.2709.

# 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

55.8370, 0.2678, 0.2709

### Protanopia

55.9371, 0.2716, 0.2713

### Deuteranopia

55.8025, 0.2736, 0.2674



## Tritanopia

55.7817, 0.2820, 0.3092

# Trichromacy



## Original Color

55.8370, 0.2678, 0.2709

## Protanomaly

55.6901, 0.2703, 0.2711

## Deuteranomaly

55.7381, 0.2710, 0.2682

## Tritanomaly

55.6784, 0.2763, 0.2940

# Monochromacy



## Original Color

55.8370, 0.2678, 0.2709

## Achromatopsia

55.8340, 0.3127, 0.3290

## Achromatomaly

55.9152, 0.2953, 0.3074

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 55.8370, 0.2678, 0.2709 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(180, 196, 246)` looks like.

```
.text, #text, p{  
    color:rgb(180, 196, 246)  
}
```

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(180, 196, 246) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 196, 246) }
```

## Border

The CSS property to change the border of an element to Yxy 55.8370, 0.2678, 0.2709 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(180, 196, 246) }
```

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

```
.border{ border-color:rgb(180, 196, 246) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 196, 246)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 196, 246); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 196, 246);  
box-shadow:4px 4px 4px 4px rgb(180, 196,  
246) }
```



# Background

The CSS property to change the background color of an element to Yxy 55.8370, 0.2678, 0.2709 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 196, 246) }
```

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

```
.background{ background-color: rgb(180,  
196, 246) }
```

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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