

# Converting Colors

$Y_{xy}(57.7359, 0.4526, 0.4249)$

Have a look what the booklet for  
Yxy(57.7359, 0.4526, 0.4249)  
contains.

|   |    |
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# Color

**Yxy(57.4725, 0.4500, 0.4262)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | FFBB56                      |
| RGB         | 255, 187, 86                |
| RGB Percent | 100%, 73%, 34%              |
| CMY         | 0.0001, 0.2666, 0.6628      |
| CMYK        | 0.00, 0.27, 0.66, 0.00      |
| HSL         | 36°, 100%, 67%              |
| HSV         | 36°, 66%, 100%              |
| XYZ         | 60.6819, 57.4725, 16.6943   |
| YIQ         | 195.8180, 72.9490, -16.9950 |

# Conversions

## Conversions Part 2

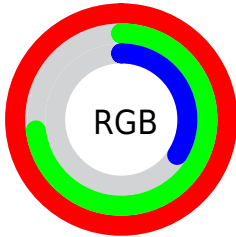
| <b>Format</b>                       | <b>Color</b>                   |
|-------------------------------------|--------------------------------|
| R <sub>Y</sub> B                    | 200, 255, 86                   |
| Decimal                             | 16759638                       |
| CIE Lab                             | 80.44, 14.83, 59.24            |
| CIE LCh                             | 80, 61.066, 75.948             |
| Yxy                                 | 57.4725, 0.4500,<br>0.4262     |
| Android<br>(android.graphics.Color) | 4294949718<br>(0xFFFFBB56)     |
| YUV                                 | 195.8180, -54.1403,<br>51.9026 |
| Hunter-Lab                          | 75.8106, 10.2101,<br>40.0112   |

# Details

The Yxy color **57.4725, 0.4500, 0.4262** is a light color, and the websafe version is hex **FFCC66**. The color can be described as light muted orange. A complement of this color would be **32.2846, 0.2029, 0.1959**, and the grayscale version is **55.3850, 0.3127, 0.3290**.

A 20% lighter version of the original color is **87.2253, 0.3853, 0.4311**, and **28.6185, 0.4785, 0.4415** is the 20% darker color. If you saturate the color by 10%, you get **52.9385, 0.4725, 0.4332**, and if you desaturate by 10%, it is **62.4693, 0.4263, 0.4151**.

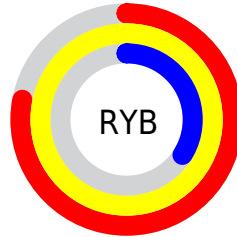
# Distribution



Red (100%)

Green (73%)

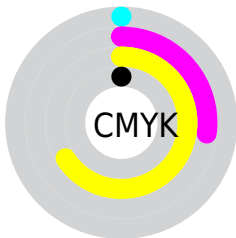
Blue (34%)



Red (78%)

Yellow (100%)

Blue (34%)

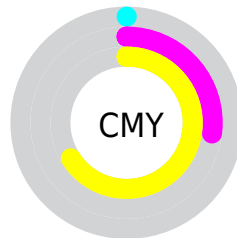


Cyan (0%)

Magenta (27%)

Yellow (66%)

Black (0%)



Cyan (0%)

Magenta (27%)

Yellow (66%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 57.4725, 0.4500, 0.4262 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 57.4725, 0.4500, 0.4262 by changing the saturation by 10% instead.





 57.4725, 0.4500,  
0.4262


 57.4725, 0.4500,  
0.4262

415.2175, 0.3869,  
0.3854


 41.3847, 0.4632,  
0.4335


 101.1543, 0.4288,  
0.4135

 28.6198, 0.4786,  
0.4412


 129.5171, 0.4204,  
0.4080

 18.7934, 0.4962,  
0.4487


 162.7404, 0.4129,  
0.4032

 11.5211, 0.5162,  
0.4548

 201.2085, 0.4064,  
0.3988

 6.4185, 0.5408,  
0.4592

245.3059, 0.4007,  
0.3949

 3.1012, 0.5547,  
0.4453

295.4169, 0.3956,

 1.1848, 0.5784,

0.3914

0.4216

351.9260, 0.3910,  
0.3882

0.0492, 0.8925,  
0.1075

0.0000, 0.0000,  
0.0000

57.4725, 0.4500,  
0.4262

57.4725, 0.4500,  
0.4262

52.9385, 0.4725,  
0.4332

62.4693, 0.4263,  
0.4151

48.8360, 0.4925,  
0.4353

67.9406, 0.4027,  
0.4013


45.1406, 0.5091,  
0.4318

73.9076, 0.3801,  
0.3858

43.8566, 0.5146,  
0.4296

80.3875, 0.3590,  
0.3698

 87.3962, 0.3398,  
0.3537

 94.9488, 0.3226,  
0.3383

99.9947, 0.3127,  
0.3290

# Harmonies

## Analogous

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



57.4725, 0.4701, 0.3695



57.4725, 0.4500, 0.4262



57.4725, 0.3935, 0.4684

# Triad

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



57.4725, 0.4500, 0.4262



57.4725, 0.1970, 0.3274



57.4725, 0.2894, 0.2253

# Complementary

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



57.4725, 0.4500, 0.4262



32.2846, 0.2029, 0.1959

# 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.



57.4725, 0.2245, 0.2097



57.4725, 0.4500, 0.4262



57.4725, 0.1770, 0.2573

# Square

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



57.4725, 0.4500, 0.4262



57.4725, 0.2474, 0.4129



57.4725, 0.1866, 0.2189



57.4725, 0.3706, 0.2615



# Rectangle

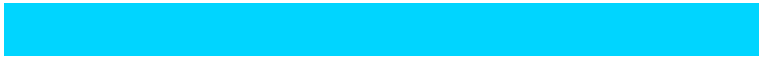
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



57.4725, 0.4500, 0.4262



57.4725, 0.3448, 0.4755



57.4725, 0.1866, 0.2189



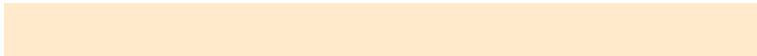
57.4725, 0.2651, 0.2176

# Sweetspot

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



57.4753, 0.4500, 0.4262



84.7462, 0.3467, 0.3597



30.3208, 0.4372, 0.2620



17.7178, 0.3522, 0.3642



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.



57.4753, 0.4500, 0.4262



51.3749, 0.4803, 0.4346



90.8552, 0.3940, 0.4859



19.7935, 0.3279, 0.3432



23.2220, 0.5126, 0.4312



2.4753, 0.4990, 0.4420



# Inverse Universe

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



32.2846, 0.2029, 0.1959



24.7069, 0.1849, 0.1642



16.5835, 0.1908, 0.1188



18.5766, 0.2979, 0.3144



9.0667, 0.1685, 0.1265



1.0900, 0.1747, 0.1488



# Previews

## White Background



This preview shows how the Yxy color 57.4725, 0.4500, 0.4262 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 57.4725, 0.4500, 0.4262 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 57.4725, 0.4500, 0.4262**

## Background



This preview shows how black text looks on a background with the Yxy color 57.4725, 0.4500, 0.4262.



This preview shows how white text looks on a background with the Yxy color 57.4725, 0.4500, 0.4262.

# 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

57.4725, 0.4500, 0.4262

### Protanopia

57.5763, 0.4104, 0.4491

### Deuteranopia

57.4392, 0.4425, 0.4326



## Tritanopia

57.2618, 0.3692, 0.3166

# Trichromacy



## Original Color

57.4725, 0.4500, 0.4262

## Protanomaly

57.2439, 0.4247, 0.4401

## Deuteranomaly

57.5603, 0.4458, 0.4304

## Tritanomaly

57.0158, 0.4020, 0.3597

# Monochromacy



## Original Color

57.4725, 0.4500, 0.4262

## Achromatopsia

55.2011, 0.3127, 0.3290

## Achromatomaly

55.2919, 0.3621, 0.3729

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 57.4725, 0.4500, 0.4262 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(255, 187, 86)` looks like.

```
.text, #text, p{  
    color:rgb(255, 187, 86)  
}
```

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(255, 187, 86) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 187, 86) }
```

## Border

The CSS property to change the border of an element to Yxy 57.4725, 0.4500, 0.4262 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(255, 187, 86) }
```

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

```
.border{ border-color:rgb(255, 187, 86) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 187, 86)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 187, 86); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 187, 86);  
box-shadow:4px 4px 4px 4px rgb(255, 187,  
86) }
```



# Background

The CSS property to change the background color of an element to Yxy 57.4725, 0.4500, 0.4262 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 187, 86) }
```

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

```
.background{ background-color: rgb(255,  
187, 86) }
```

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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