

# Converting Colors

$Y_{xy}(72.5284, 0.5066, 0.4126)$

Have a look what the booklet for  
Yxy(72.5284, 0.5066, 0.4126)  
contains.

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# **Color**

**Yxy(57.5966, 0.4608, 0.4412)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFBC40
RGB	255, 188, 64
RGB Percent	100%, 74%, 25%
CMY	0.0000, 0.2628, 0.7491
CMYK	0.00, 0.26, 0.75, 0.00
HSL	39°, 100%, 63%
HSV	39°, 75%, 100%
XYZ	60.1553, 57.5966, 12.7934
YIQ	193.8970, 79.7360, -24.3600

# Conversions

## Conversions Part 2

Format	Color
<a href="#">RYB</a>	167, 255, 64
Decimal	16759872
CIELab	80.51, 13.28, 68.45
CIELCh	81, 69.722, 79.020
Yxy	57.5966, 0.4608, 0.4412
Android (android.graphics.Color)	4294949952 (0xFFFFBC40)
YUV	193.8970, -64.0392, 53.5873
Hunter-Lab	75.8924, 8.6743, 43.1300

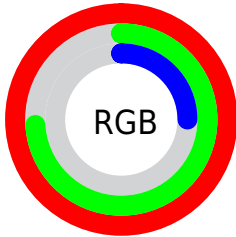
# Details

The Yxy color **57.5966, 0.4608, 0.4412** is a light color, and the websafe version is hex **FFCC33**.

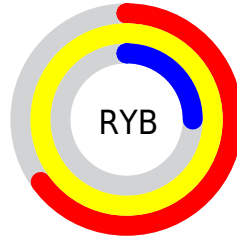
The color can be described as light washed orange. A complement of this color would be **24.5373, 0.1877, 0.1629**, and the grayscale version is **54.2317, 0.3127, 0.3290**.

A 20% lighter version of the original color is **87.2933, 0.3956, 0.4489**, and **28.7973, 0.4857, 0.4525** is the 20% darker color. If you saturate the color by 10%, you get **53.6638, 0.4787, 0.4450**, and if you desaturate by 10%, it is **61.8948, 0.4404, 0.4325**.

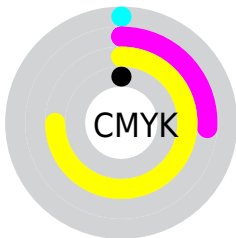
# Distribution



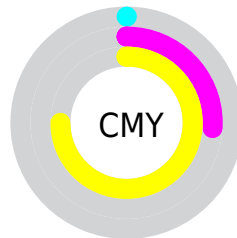
- Red (100%)
- Green (74%)
- Blue (25%)



- Red (65%)
- Yellow (100%)
- Blue (25%)



- Cyan (0%)
- Magenta (26%)
- Yellow (75%)
- Black (0%)




- Cyan (0%)
- Magenta (26%)
- Yellow (75%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 57.5966, 0.4608, 0.4412 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 57.5966, 0.4608, 0.4412 by changing the saturation by 10% instead.




 57.5966, 0.4608,  
0.4412

 57.5966, 0.4608,  
0.4412


415.6811, 0.3947,  
0.3953

 41.4844, 0.4738,  
0.4488


 101.3352, 0.4393,  
0.4274


 28.6978, 0.4883,  
0.4564


 129.7304, 0.4304,  
0.4213


 18.8523, 0.5040,  
0.4629


 162.9887, 0.4226,  
0.4159

 11.5636, 0.5250,  
0.4710

 201.4946, 0.4157,  
0.4109

 6.4473, 0.5353,  
0.4647

 245.6323, 0.4096,  
0.4064

 3.1189, 0.5479,  
0.4521

295.7864, 0.4041,

 1.1941, 0.5693,

0.4024

0.4307

352.3412, 0.3991,  
0.3987

0.0569, 0.8692,  
0.1308

0.0000, 0.0000,  
0.0000

57.5966, 0.4608,  
0.4412

57.5966, 0.4608,  
0.4412

53.6638, 0.4787,  
0.4450

61.8948, 0.4404,  
0.4325


50.0785, 0.4934,  
0.4436

66.5846, 0.4187,  
0.4200


48.3706, 0.4999,  
0.4413

71.6818, 0.3968,  
0.4048

77.2024, 0.3756,  
0.3881

 83.1614, 0.3555,  
0.3707

 89.5727, 0.3371,  
0.3535

 96.4493, 0.3203,  
0.3368

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.



57.5966, 0.4909, 0.3777



57.5966, 0.4608, 0.4412



57.5966, 0.3931, 0.4895

# Triad

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



57.5966, 0.4608, 0.4412



57.5966, 0.1790, 0.3160



57.5966, 0.2945, 0.2167

# Complementary

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



57.5966, 0.4608, 0.4412



24.5373, 0.1877, 0.1629

# 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.



57.5966, 0.2196, 0.1969



57.5966, 0.4608, 0.4412



57.5966, 0.1614, 0.2408

# Square

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



57.5966, 0.4608, 0.4412



57.5966, 0.2307, 0.4162



57.5966, 0.1752, 0.2031



57.5966, 0.3877, 0.2583



# Rectangle

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



57.5966, 0.4608, 0.4412



57.5966, 0.3377, 0.4964



57.5966, 0.1752, 0.2031



57.5966, 0.2664, 0.2075

# Sweetspot

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



57.5946, 0.4608, 0.4412



84.9800, 0.3500, 0.3657



26.6462, 0.4774, 0.2685



17.8263, 0.3551, 0.3704



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.



57.5946, 0.4608, 0.4412



51.7975, 0.4867, 0.4450



88.6353, 0.3927, 0.5033



19.9554, 0.3278, 0.3444



25.5657, 0.4982, 0.4426



2.6945, 0.4868, 0.4516



# Inverse Universe

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



24.5373, 0.1877, 0.1629



17.7414, 0.1710, 0.1284



13.0305, 0.1809, 0.0980



18.4199, 0.2979, 0.3131



7.7970, 0.1645, 0.1121



0.9551, 0.1707, 0.1345



# Previews

## White Background



This preview shows how the Yxy color 57.5966, 0.4608, 0.4412 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 57.5966, 0.4608, 0.4412 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 57.5966, 0.4608, 0.4412**

## **Background**



This preview shows how black text looks on a background with the Yxy color 57.5966, 0.4608, 0.4412.



This preview shows how white text looks on a background with the Yxy color 57.5966, 0.4608, 0.4412.

# 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

57.5966, 0.4608, 0.4412

### Protanopia

57.5611, 0.4239, 0.4656

### Deuteranopia

57.6950, 0.4563, 0.4455



## Tritanopia

57.6641, 0.3689, 0.3177

# Trichromacy



**Original Color**

57.5966, 0.4608, 0.4412

**Protanomaly**

57.5354, 0.4368, 0.4571

**Deuteranomaly**

57.4495, 0.4579, 0.4441

**Tritanomaly**

57.1713, 0.4084, 0.3690

# Monochromacy



**Original Color**

57.5966, 0.4608, 0.4412

**Achromatopsia**

53.9479, 0.3127, 0.3290

**Achromatomaly**

54.4048, 0.3688, 0.3826

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 57.5966, 0.4608, 0.4412 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, 188, 64)` looks like.

```
.text, #text, p{  
    color:rgb(255, 188, 64)  
}
```

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, 188, 64) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 188, 64) }
```

## Border

The CSS property to change the border of an element to Yxy 57.5966, 0.4608, 0.4412 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, 188, 64) }
```

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

```
.border{ border-color:rgb(255, 188, 64) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 188, 64)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 188, 64); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 188, 64);  
box-shadow:4px 4px 4px 4px rgb(255, 188,  
64) }
```



# Background

The CSS property to change the background color of an element to Yxy 57.5966, 0.4608, 0.4412 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 188, 64) }
```

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

```
.background{ background-color: rgb(255,  
188, 64) }
```

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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