

# Converting Colors

$Y_{xy}(72.5233, 0.4947, 0.4051)$

Have a look what the booklet for  
Yxy(72.5233, 0.4947, 0.4051)  
contains.

<b>Yxy(58.3111, 0.4490, 0.4287)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(58.3111, 0.4490, 0.4287)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFBD55
RGB	255, 189, 85
RGB Percent	100%, 74%, 33%
CMY	0.0001, 0.2588, 0.6666
CMYK	0.00, 0.26, 0.67, 0.00
HSL	37°, 100%, 67%
HSV	37°, 67%, 100%
XYZ	61.0723, 58.3111, 16.6351
YIQ	196.8780, 72.7200, -18.3520

# Conversions

## Conversions Part 2

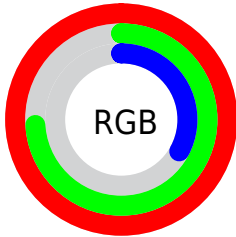
Format	Color
<a href="#">RYB</a>	<a href="#">193, 255, 85</a>
Decimal	<a href="#">16760149</a>
CIELab	<a href="#">80.91, 13.74, 60.17</a>
CIElCh	<a href="#">81, 61.719, 77.140</a>
Yxy	<a href="#">58.3111, 0.4490, 0.4287</a>
Android (android.graphics.Color)	<a href="#">4294950229</a> ( <a href="#">0xFFFFBD55</a> )
YUV	<a href="#">196.8780, -55.1559, 50.9730</a>
Hunter-Lab	<a href="#">76.3617, 9.1271, 40.5371</a>

# Details

The Yxy color **58.3111, 0.4490, 0.4287** 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 **31.2802, 0.2015, 0.1919**, and the grayscale version is **56.0663, 0.3127, 0.3290**.

A 20% lighter version of the original color is **88.4289, 0.3844, 0.4328**, and **29.1664, 0.4769, 0.4447** is the 20% darker color. If you saturate the color by 10%, you get **53.8651, 0.4708, 0.4359**, and if you desaturate by 10%, it is **63.1993, 0.4259, 0.4175**.

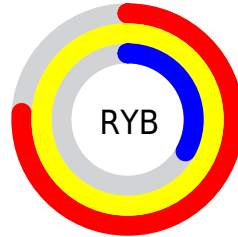
# Distribution



Red (100%)

Green (74%)

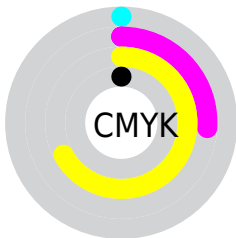
Blue (33%)



Red (76%)

Yellow (100%)

Blue (33%)

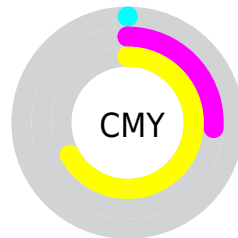


Cyan (0%)

Magenta (26%)

Yellow (67%)

Black (0%)



Cyan (0%)

Magenta (26%)


Yellow (67%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 58.3111, 0.4490, 0.4287 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 58.3111, 0.4490, 0.4287 by changing the saturation by 10% instead.




 58.3111, 0.4490,  
0.4287

 58.3111, 0.4490,  
0.4287


418.3442, 0.3867,  
0.3868


 42.0588, 0.4619,  
0.4362


 102.3758, 0.4282,  
0.4156


 29.1473, 0.4769,  
0.4442

 130.9569, 0.4198,  
0.4100

 19.1923, 0.4940,  
0.4521


 164.4165, 0.4125,  
0.4051

 11.8093, 0.5133,  
0.4586

 203.1388, 0.4061,  
0.4006

 6.6140, 0.5365,  
0.4635

247.5084, 0.4004,  
0.3966

 3.2219, 0.5492,  
0.4508

297.9095, 0.3953,

 1.2486, 0.5708,

0.3930

0.4292

354.7267, 0.3908,  
0.3897

0.1009, 0.8104,  
0.1896

0.0000, 0.0000,  
0.0000

58.3111, 0.4490,  
0.4287

58.3111, 0.4490,  
0.4287

53.8651, 0.4708,  
0.4359

63.1993, 0.4259,  
0.4175

49.8305, 0.4900,  
0.4380

68.5408, 0.4028,  
0.4034

46.1833, 0.5058,  
0.4347

74.3563, 0.3805,  
0.3877

45.0381, 0.5105,  
0.4328

80.6622, 0.3596,  
0.3713

 87.4741, 0.3404,  
0.3549

 94.8064, 0.3232,  
0.3391

99.9959, 0.3127,  
0.3290

# Harmonies

## Analogous

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



58.3111, 0.4711, 0.3719



58.3111, 0.4490, 0.4287



58.3111, 0.3911, 0.4702

# Triad

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



58.3111, 0.4490, 0.4287



58.3111, 0.1951, 0.3240



58.3111, 0.2923, 0.2259

# Complementary

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



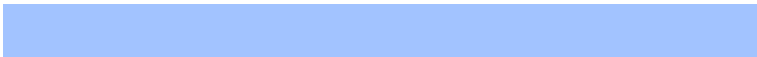
58.3111, 0.4490, 0.4287



31.2802, 0.2015, 0.1919

# 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.



58.3111, 0.2261, 0.2093



58.3111, 0.4490, 0.4287



58.3111, 0.1762, 0.2547

# Square

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



58.3111, 0.4490, 0.4287



58.3111, 0.2445, 0.4102



58.3111, 0.1869, 0.2174



58.3111, 0.3742, 0.2629



# Rectangle

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



58.3111, 0.4490, 0.4287



58.3111, 0.3419, 0.4761



58.3111, 0.1869, 0.2174



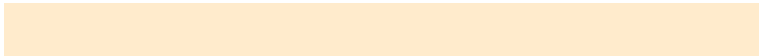
58.3111, 0.2676, 0.2179

# Sweetspot

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



58.3140, 0.4490, 0.4287



85.1542, 0.3466, 0.3604



30.0568, 0.4423, 0.2646



17.8159, 0.3520, 0.3650



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.



58.3140, 0.4490, 0.4287



52.4803, 0.4775, 0.4372



90.3367, 0.3923, 0.4878



19.8374, 0.3279, 0.3435



23.8364, 0.5086, 0.4343

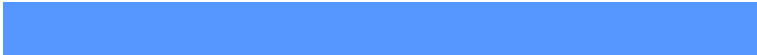


2.5331, 0.4957, 0.4446



# Inverse Universe

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



31.2802, 0.2015, 0.1919



23.9362, 0.1839, 0.1605



16.5454, 0.1917, 0.1184



18.5338, 0.2979, 0.3140



8.7007, 0.1673, 0.1224



1.0516, 0.1736, 0.1448



# Previews

## White Background



This preview shows how the Yxy color 58.3111, 0.4490, 0.4287 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 58.3111, 0.4490, 0.4287 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 58.3111, 0.4490, 0.4287**

## **Background**



This preview shows how black text looks on a background with the Yxy color 58.3111, 0.4490, 0.4287.



This preview shows how white text looks on a background with the Yxy color 58.3111, 0.4490, 0.4287.

# 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

58.3111, 0.4490, 0.4287

### Protanopia

58.3419, 0.4121, 0.4499

### Deuteranopia

58.2257, 0.4440, 0.4333



## Tritanopia

58.1580, 0.3669, 0.3166

# Trichromacy



**Original Color**

58.3111, 0.4490, 0.4287

**Protanomaly**

58.2993, 0.4247, 0.4423

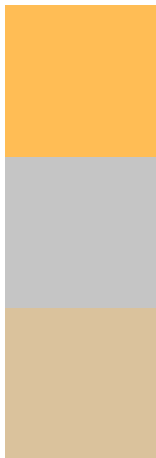
**Deuteranomaly**

58.1625, 0.4464, 0.4316

**Tritanomaly**

57.8741, 0.4002, 0.3607

# Monochromacy



**Original Color**

58.3111, 0.4490, 0.4287

**Achromatopsia**

55.8340, 0.3127, 0.3290

**Achromatomaly**

55.8893, 0.3626, 0.3739

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 58.3111, 0.4490, 0.4287 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, 189, 85)` looks like.

```
.text, #text, p{  
    color:rgb(255, 189, 85)  
}
```

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, 189, 85) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 189, 85) }
```

## Border

The CSS property to change the border of an element to Yxy 58.3111, 0.4490, 0.4287 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, 189, 85) }
```

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

```
.border{ border-color:rgb(255, 189, 85) }
```

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

Here you see how a box with a 4 pixel rgb(255, 189, 85) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 189, 85); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 189, 85);  
box-shadow:4px 4px 4px 4px rgb(255, 189,  
85) }
```



# Background

The CSS property to change the background color of an element to Yxy 58.3111, 0.4490, 0.4287 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 189, 85) }
```

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

```
.background{ background-color: rgb(255,  
189, 85) }
```

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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