

# Converting Colors

$Y_{xy}(57.9710, 0.4620, 0.4447)$

Have a look what the booklet for  
Yxy(57.9710, 0.4620, 0.4447)  
contains.

<b>Yxy(57.9710, 0.4620, 0.4447)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# **Color**

**Yxy(57.9710, 0.4620, 0.4447)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFBD3B
RGB	255, 189, 59
RGB Percent	100%, 74%, 23%
CMY	0.0000, 0.2588, 0.7683
CMYK	0.00, 0.26, 0.77, 0.00
HSL	40°, 100%, 62%
HSV	40°, 77%, 100%
XYZ	60.2262, 57.9710, 12.1626
YIQ	193.9140, 81.0660, -26.4380

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	159, 255, 59
Decimal	16760123
CIELab	80.72, 12.55, 70.44
CIELCh	81, 71.552, 79.900
Yxy	57.9710, 0.4620, 0.4447
Android (android.graphics.Color)	4294950203 (0xFFFFBD3B)
YUV	193.9140, -66.5126, 53.5724
Hunter-Lab	76.1387, 7.9520, 43.8260

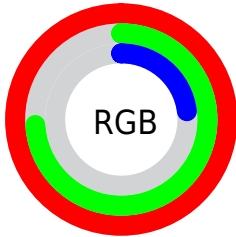
# Details

The Yxy color **57.9710, 0.4620, 0.4447** is a light color, and the websafe version is hex **FFCC33**.

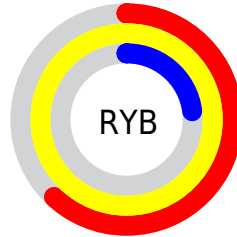
The color can be described as light washed orange. A complement of this color would be **22.8333, 0.1843, 0.1547**, and the grayscale version is **54.2665, 0.3127, 0.3290**.

A 20% lighter version of the original color is **87.8026, 0.3970, 0.4528**, and **28.9458, 0.4834, 0.4544** is the 20% darker color. If you saturate the color by 10%, you get **54.1842, 0.4787, 0.4478**, and if you desaturate by 10%, it is **62.1115, 0.4426, 0.4366**.

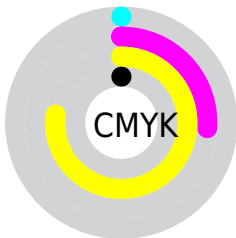
# Distribution



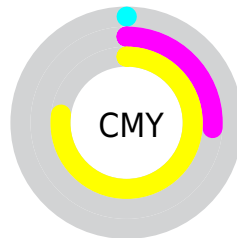
- Red (100%)
- Green (74%)
- Blue (23%)



- Red (62%)
- Yellow (100%)
- Blue (23%)



- Cyan (0%)
- Magenta (26%)
- Yellow (77%)
- Black (0%)




- Cyan (0%)
- Magenta (26%)
- Yellow (77%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 57.9710, 0.4620, 0.4447 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 57.9710, 0.4620, 0.4447 by changing the saturation by 10% instead.





 57.9710, 0.4620,  
0.4447

 57.9710, 0.4620,  
0.4447


417.0779, 0.3959,  
0.3977

 41.7853, 0.4747,  
0.4524


 101.8806, 0.4407,  
0.4306

 28.9332, 0.4889,  
0.4600


 130.3734, 0.4318,  
0.4244


 19.0303, 0.5040,  
0.4665


 163.7373, 0.4240,  
0.4188

 11.6922, 0.5248,  
0.4752

 202.3567, 0.4171,  
0.4137

 6.5344, 0.5326,  
0.4674

 246.6161, 0.4109,  
0.4091

 3.1727, 0.5444,  
0.4556

296.8998, 0.4054,

 1.2225, 0.5645,

0.4049

353.5923, 0.4004,  
0.4011

0.4355

0.0800, 0.8270,  
0.1730

0.0000, 0.0000,  
0.0000

57.9710, 0.4620,  
0.4447

57.9710, 0.4620,  
0.4447

54.1842, 0.4787,  
0.4478

62.1115, 0.4426,  
0.4366

50.7177, 0.4922,  
0.4457

66.6172, 0.4217,  
0.4245

49.6763, 0.4960,  
0.4444

71.5087, 0.4002,  
0.4094

76.8020, 0.3791,  
0.3926

82.5116, 0.3590,  
0.3750

88.6513, 0.3404,  
0.3573

95.2337, 0.3234,  
0.3402

99.9983, 0.3127,  
0.3290

# Harmonies

## Analogous

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



57.9710, 0.4946, 0.3799



57.9710, 0.4620, 0.4447



57.9710, 0.3919, 0.4939

# Triad

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



57.9710, 0.4620, 0.4447



57.9710, 0.1752, 0.3125



57.9710, 0.2966, 0.2155

# Complementary

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



57.9710, 0.4620, 0.4447



22.8333, 0.1843, 0.1547

# 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.



57.9710, 0.2194, 0.1947



57.9710, 0.4620, 0.4447



57.9710, 0.1585, 0.2370

# Square

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



57.9710, 0.4620, 0.4447



57.9710, 0.2267, 0.4155



57.9710, 0.1734, 0.2000



57.9710, 0.3921, 0.2583



# Rectangle

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



57.9710, 0.4620, 0.4447



57.9710, 0.3352, 0.5004



57.9710, 0.1734, 0.2000



57.9710, 0.2677, 0.2059

# Sweetspot

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



57.9739, 0.4620, 0.4447



84.8199, 0.3517, 0.3682



25.9432, 0.4889, 0.2717



17.6902, 0.3586, 0.3746



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.



57.9739, 0.4620, 0.4447



52.3586, 0.4861, 0.4474



87.9354, 0.3912, 0.5075



19.9996, 0.3278, 0.3447



26.2461, 0.4944, 0.4456



2.7575, 0.4836, 0.4542



# Inverse Universe

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



22.8333, 0.1843, 0.1547



16.3746, 0.1683, 0.1206



12.4525, 0.1796, 0.0944



18.3774, 0.2979, 0.3128



7.4859, 0.1635, 0.1084



0.9211, 0.1697, 0.1308



# Previews

## White Background



This preview shows how the Yxy color 57.9710, 0.4620, 0.4447 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 57.9710, 0.4620, 0.4447 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 57.9710, 0.4620, 0.4447**

## **Background**



This preview shows how black text looks on a background with the Yxy color 57.9710, 0.4620, 0.4447.



This preview shows how white text looks on a background with the Yxy color 57.9710, 0.4620, 0.4447.

# 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

57.9710, 0.4620, 0.4447

### Protanopia

58.1286, 0.4261, 0.4690

### Deuteranopia

57.8381, 0.4588, 0.4471



## Tritanopia

58.1135, 0.3678, 0.3177

# Trichromacy



**Original Color**

57.9710, 0.4620, 0.4447

**Protanomaly**

58.1023, 0.4389, 0.4604

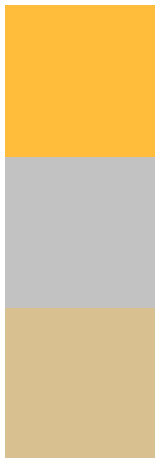
**Deuteranomaly**

58.0253, 0.4596, 0.4466

**Tritanomaly**

57.5546, 0.4088, 0.3710

# Monochromacy



**Original Color**

57.9710, 0.4620, 0.4447

**Achromatopsia**

53.9479, 0.3127, 0.3290

**Achromatomaly**

54.3425, 0.3704, 0.3850

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 57.9710, 0.4620, 0.4447 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, 59)` looks like.

```
.text, #text, p{  
    color:rgb(255, 189, 59)  
}
```

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, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 189, 59) }
```

## Border

The CSS property to change the border of an element to Yxy 57.9710, 0.4620, 0.4447 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, 59) }
```

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

```
.border{ border-color:rgb(255, 189, 59) }
```

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, 59) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 189, 59); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 189, 59);  
box-shadow:4px 4px 4px 4px rgb(255, 189,  
59) }
```



# Background

The CSS property to change the background color of an element to Yxy 57.9710, 0.4620, 0.4447 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, 59) }
```

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

```
.background{ background-color: rgb(255,  
189, 59) }
```

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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