

# Converting Colors

$Y_{xy}(57.7350, 0.4720, 0.4571)$

Have a look what the booklet for  
Yxy(57.7350, 0.4720, 0.4571)  
contains.

<b>Yxy(57.7298, 0.4720, 0.4570)</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(57.7298, 0.4720, 0.4570)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFBD1A
RGB	255, 189, 26
RGB Percent	100%, 74%, 10%
CMY	0.0000, 0.2588, 0.8986
CMYK	0.00, 0.26, 0.90, 0.00
HSL	43°, 100%, 55%
HSV	43°, 90%, 100%
XYZ	59.6247, 57.7298, 8.9690
YIQ	190.1520, 91.6590, -36.7010

# Conversions

## Conversions Part 2

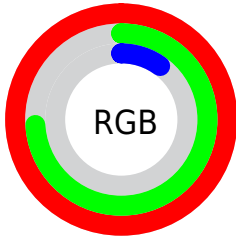
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	119, 255, 26
Decimal	16760090
CIE <sub>Lab</sub>	80.59, 11.69, 79.51
CIE <sub>LCh</sub>	81, 80.366, 81.634
Yxy	57.7298, 0.4720, 0.4570
Android (android.graphics.Color)	4294950170 (0xFFFFBD1A)
YUV	190.1520, -80.9269, 56.8717
Hunter-Lab	75.9801, 7.1109, 46.1873

# Details

The Yxy color **57.7298, 0.4720, 0.4570** 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 **15.0671, 0.1667, 0.1127**, and the grayscale version is **52.0130, 0.3127, 0.3290**.

A 20% lighter version of the original color is **87.3551, 0.4069, 0.4685**, and **28.9458, 0.4834, 0.4544** is the 20% darker color. If you saturate the color by 10%, you get **54.5781, 0.4826, 0.4549**, and if you desaturate by 10%, it is **61.1401, 0.4584, 0.4545**.

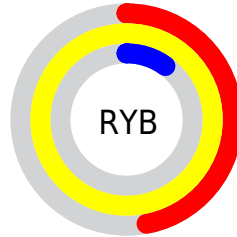
# Distribution



Red (100%)

Green (74%)

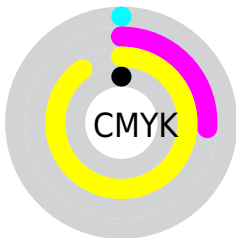
Blue (10%)



Red (47%)

Yellow (100%)

Blue (10%)

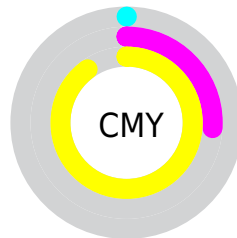


Cyan (0%)

Magenta (26%)

Yellow (90%)

Black (0%)



Cyan (0%)

Magenta (26%)

Yellow (90%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 57.7298, 0.4720, 0.4570 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 57.7298, 0.4720, 0.4570 by changing the saturation by 10% instead.




 57.7298, 0.4720,  
0.4570


 57.7298, 0.4720,  
0.4570


416.1784, 0.4039,  
0.4070


 41.5915, 0.4841,  
0.4643


 101.5293, 0.4508,  
0.4427


 28.7815, 0.4968,  
0.4709


 129.9592, 0.4418,  
0.4362


 18.9156, 0.5102,  
0.4762


 163.2551, 0.4337,  
0.4302

 11.6093, 0.5224,  
0.4776

 201.8014, 0.4265,  
0.4247

 6.4782, 0.5297,  
0.4703

 245.9825, 0.4199,  
0.4196

 3.1380, 0.5409,  
0.4591

 296.1828, 0.4141,

 1.2042, 0.5599,

0.4150

352.7866, 0.4088,  
0.4108

0.4401

0.0651, 0.8421,  
0.1579

0.0000, 0.0000,  
0.0000

57.7298, 0.4720,  
0.4570

57.7298, 0.4720,  
0.4570

54.5781, 0.4826,  
0.4549

61.1401, 0.4584,  
0.4545

54.5348, 0.4828,  
0.4549

64.8343, 0.4418,  
0.4469

68.8341, 0.4232,  
0.4351

73.1564, 0.4034,  
0.4199

77.8162, 0.3834,  
0.4024

82.8272, 0.3639,  
0.3839

88.2021, 0.3454,  
0.3650

93.9525, 0.3282,  
0.3465

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.



57.7298, 0.5141, 0.3852



57.7298, 0.4720, 0.4570



57.7298, 0.3918, 0.5144

# Triad

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



57.7298, 0.4720, 0.4570



57.7298, 0.1589, 0.3026



57.7298, 0.2997, 0.2066

# Complementary

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



57.7298, 0.4720, 0.4570



15.0671, 0.1667, 0.1127

# 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.



57.7298, 0.2133, 0.1826



57.7298, 0.4720, 0.4570



57.7298, 0.1440, 0.2222

# Square

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



57.7298, 0.4720, 0.4570



57.7298, 0.2116, 0.4204



57.7298, 0.1621, 0.1857



57.7298, 0.4075, 0.2538



# Rectangle

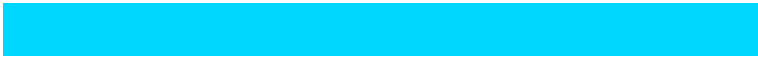
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



57.7298, 0.4720, 0.4570



57.7298, 0.3290, 0.5224



57.7298, 0.1621, 0.1857



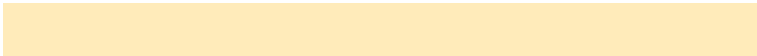
57.7298, 0.2672, 0.1958

# Sweetspot

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



57.7315, 0.4720, 0.4570



84.3259, 0.3585, 0.3785



22.8117, 0.5505, 0.2877



17.6668, 0.3650, 0.3849



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.



57.7315, 0.4720, 0.4570



54.5348, 0.4828, 0.4549



85.1744, 0.3855, 0.5271



20.1548, 0.3276, 0.3458



28.7645, 0.4815, 0.4559



2.9882, 0.4727, 0.4629



# Inverse Universe

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



15.0671, 0.1667, 0.1127



12.0435, 0.1594, 0.0938



9.3184, 0.1676, 0.0741



18.2298, 0.2979, 0.3116



6.5128, 0.1602, 0.0966



0.8117, 0.1662, 0.1183



# Previews

## White Background



This preview shows how the Yxy color 57.7298, 0.4720, 0.4570 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 57.7298, 0.4720, 0.4570 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 57.7298, 0.4720, 0.4570**

## **Background**



This preview shows how black text looks on a background with the Yxy color 57.7298, 0.4720, 0.4570.



This preview shows how white text looks on a background with the Yxy color 57.7298, 0.4720, 0.4570.

# 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

57.7298, 0.4720, 0.4570

### Protanopia

58.0358, 0.4367, 0.4829

### Deuteranopia

57.7797, 0.4696, 0.4592



## Tritanopia

57.6641, 0.3689, 0.3177

# Trichromacy



## Original Color

57.7298, 0.4720, 0.4570

## Protanomaly

58.0209, 0.4497, 0.4736

## Deuteranomaly

57.9679, 0.4704, 0.4586

## Tritanomaly

56.7657, 0.4202, 0.3831

# Monochromacy



## Original Color

57.7298, 0.4720, 0.4570

## Achromatopsia

51.4918, 0.3127, 0.3290

## Achromatomaly

52.7348, 0.3814, 0.4008

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 57.7298, 0.4720, 0.4570 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, 26)` looks like.

```
.text, #text, p{  
    color:rgb(255, 189, 26)  
}
```

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, 26) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 189, 26) }
```

## Border

The CSS property to change the border of an element to Yxy 57.7298, 0.4720, 0.4570 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, 26) }
```

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

```
.border{ border-color:rgb(255, 189, 26) }
```

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, 26) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 189, 26); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 189, 26);  
box-shadow:4px 4px 4px 4px rgb(255, 189,  
26) }
```



# Background

The CSS property to change the background color of an element to Yxy 57.7298, 0.4720, 0.4570 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, 26) }
```

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

```
.background{ background-color: rgb(255,  
189, 26) }
```

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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