

# Converting Colors

$Y_{xy}(47.1760, 0.4517, 0.4402)$

Have a look what the booklet for  
Yxy(47.1760, 0.4517, 0.4402)  
contains.

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# Color

**Yxy(47.3118, 0.4511, 0.4409)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E5AE41
RGB	229, 174, 65
RGB Percent	90%, 68%, 25%
CMY	0.1019, 0.3176, 0.7449
CMYK	0.00, 0.24, 0.72, 0.10
HSL	40°, 76%, 58%
HSV	40°, 72%, 90%
XYZ	48.4063, 47.3118, 11.5892
YIQ	178.0190, 67.7690, -22.2390

# Conversions

## Conversions Part 2

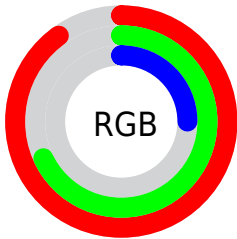
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	148, 229, 65
Decimal	15052353
CIE <sub>Lab</sub>	74.39, 9.69, 61.06
CIE <sub>LCh</sub>	74, 61.824, 80.986
Yxy	47.3118, 0.4511, 0.4409
Android (android.graphics.Color)	4293242433 (0xFFE5AE41)
YUV	178.0190, -55.7184, 44.7103
Hunter-Lab	68.7836, 5.2478, 38.1589

# Details

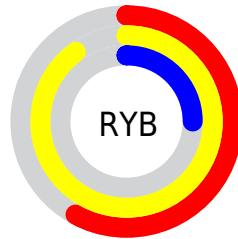
The Yxy color **47.3118, 0.4511, 0.4409** is a light color, and the websafe version is hex **CC9933**. The color can be described as light muted orange. A complement of this color would be **20.2300, 0.1919, 0.1684**, and the grayscale version is **44.8093, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.6305, 0.4032, 0.4368**, and **22.3541, 0.4783, 0.4584** is the 20% darker color. If you saturate the color by 10%, you get **44.2158, 0.4693, 0.4469**, and if you desaturate by 10%, it is **50.6898, 0.4309, 0.4304**.

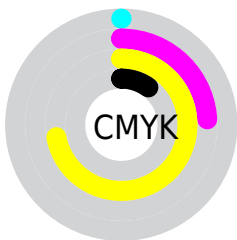
# Distribution



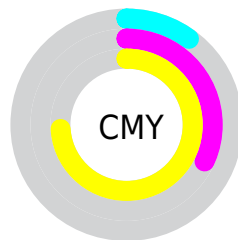
- Red (90%)
- Green (68%)
- Blue (25%)



- Red (58%)
- Yellow (90%)
- Blue (25%)



- Cyan (0%)
- Magenta (24%)
- Yellow (72%)
- Black (10%)




- Cyan (10%)
- Magenta (32%)
- Yellow (74%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.3118, 0.4511, 0.4409 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 47.3118, 0.4511, 0.4409 by changing the saturation by 10% instead.




 47.3118, 0.4511,  
0.4409


 47.3118, 0.4511,  
0.4409


376.0577, 0.3866,  
0.3919


 33.2822, 0.4644,  
0.4498


 86.1789, 0.4295,  
0.4254


 22.3427, 0.4795,  
0.4591


 111.7851, 0.4208,  
0.4188

 14.1089, 0.4962,  
0.4678


 142.0191, 0.4132,  
0.4130

 8.1965, 0.5200,  
0.4800

 177.2651, 0.4065,  
0.4078

 4.2209, 0.5279,  
0.4721

 217.9075, 0.4007,  
0.4032

 1.7979, 0.5407,  
0.4593

264.3309, 0.3954,

 0.4859, 0.5897,

0.3990

0.4103

316.9195, 0.3908,  
0.3953

0.0000, 0.0000,  
0.0000

47.3118, 0.4511,  
0.4409

47.3118, 0.4511,  
0.4409

44.2158, 0.4693,  
0.4469

50.6898, 0.4309,  
0.4304

41.3781, 0.4845,  
0.4478

54.3572, 0.4097,  
0.4166

39.1732, 0.4951,  
0.4451

58.3291, 0.3885,  
0.4005

62.6171, 0.3680,  
0.3832

67.2320, 0.3488,  
0.3655

■ 72.1839, 0.3311,  
0.3482

■ 77.4823, 0.3151,  
0.3316

■ 83.1363, 0.3007,  
0.3159

■ 88.0695, 0.2968,  
0.3170

# Harmonies

## Analogous

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



47.3118, 0.4818, 0.3809



47.3118, 0.4511, 0.4409



47.3118, 0.3854, 0.4833

# Triad

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



47.3118, 0.4511, 0.4409



47.3118, 0.1831, 0.3116



47.3118, 0.3012, 0.2236

# Complementary

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



47.3118, 0.4511, 0.4409



20.2300, 0.1919, 0.1684

# 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.



47.3118, 0.2278, 0.2031



47.3118, 0.4511, 0.4409



47.3118, 0.1678, 0.2421

# Square

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



47.3118, 0.4511, 0.4409



47.3118, 0.2309, 0.4052



47.3118, 0.1830, 0.2076



47.3118, 0.3896, 0.2648



# Rectangle

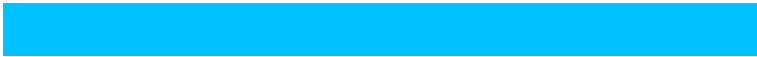
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



47.3118, 0.4511, 0.4409



47.3118, 0.3322, 0.4859



47.3118, 0.1830, 0.2076



47.3118, 0.2740, 0.2142

# Sweetspot

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



47.3141, 0.4511, 0.4409



86.0865, 0.3479, 0.3647



21.8618, 0.4695, 0.2719



18.0656, 0.3531, 0.3696



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.



47.3141, 0.4511, 0.4409



54.6069, 0.4772, 0.4480



69.3209, 0.3888, 0.4992



15.9598, 0.3276, 0.3446



22.6263, 0.4936, 0.4463



1.8416, 0.4800, 0.4571



# Inverse Universe

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



20.2300, 0.1919, 0.1684



18.5855, 0.1736, 0.1330



11.6000, 0.1887, 0.1083



14.6733, 0.2981, 0.3129



6.4542, 0.1636, 0.1089



0.6433, 0.1717, 0.1381



# Previews

## White Background



This preview shows how the Yxy color 47.3118, 0.4511, 0.4409 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 47.3118, 0.4511, 0.4409 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 47.3118, 0.4511, 0.4409**

## **Background**



This preview shows how black text looks on a background with the Yxy color 47.3118, 0.4511, 0.4409.



This preview shows how white text looks on a background with the Yxy color 47.3118, 0.4511, 0.4409.

# 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

47.3118, 0.4511, 0.4409

### Protanopia

47.6775, 0.4193, 0.4610

### Deuteranopia

47.3118, 0.4511, 0.4409



## Tritanopia

47.2941, 0.3722, 0.3157

# Trichromacy



**Original Color**

47.3118, 0.4511, 0.4409

**Protanomaly**

47.3439, 0.4313, 0.4531

**Deuteranomaly**

47.3118, 0.4511, 0.4409

**Tritanomaly**

46.8791, 0.4065, 0.3656

# Monochromacy



**Original Color**

47.3118, 0.4511, 0.4409

**Achromatopsia**

44.5201, 0.3127, 0.3290

**Achromatomaly**

45.1207, 0.3652, 0.3808

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.3118, 0.4511, 0.4409 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(229, 174, 65)` looks like.

```
.text, #text, p{  
    color:rgb(229, 174, 65)  
}
```

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(229, 174, 65) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 174, 65) }
```

## Border

The CSS property to change the border of an element to Yxy 47.3118, 0.4511, 0.4409 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(229, 174, 65) }
```

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

```
.border{ border-color:rgb(229, 174, 65) }
```

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

Here you see how a box with a 4 pixel `rgb(229, 174, 65)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 174, 65); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 174, 65);  
box-shadow:4px 4px 4px 4px rgb(229, 174,  
65) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.3118, 0.4511, 0.4409 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 174, 65) }
```

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

```
.background{ background-color: rgb(229,  
174, 65) }
```

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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