

# Converting Colors

$Yxy(48.5657, 0.4566, 0.4551)$

Have a look what the booklet for  
Yxy(48.5657, 0.4566, 0.4551)  
contains.

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# **Color**

**Yxy(48.6961, 0.4561, 0.4558)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E5B22E
RGB	229, 178, 46
RGB Percent	90%, 70%, 18%
CMY	0.1019, 0.3019, 0.8197
CMYK	0.00, 0.22, 0.80, 0.10
HSL	43°, 78%, 54%
HSV	43°, 80%, 90%
XYZ	48.7282, 48.6961, 9.4123
YIQ	178.2010, 72.7680, -30.2400

# Conversions

## Conversions Part 2

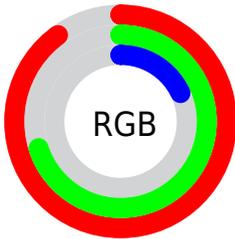
Format	Color
<a href="#">RYB</a>	<a href="#">117, 229, 46</a>
Decimal	<a href="#">15053358</a>
CIELab	<a href="#">75.26, 6.81, 68.92</a>
CIELCh	<a href="#">75, 69.251, 84.360</a>
Yxy	<a href="#">48.6961, 0.4561, 0.4558</a>
Android (android.graphics.Color)	<a href="#">4293243438</a> ( <a href="#">0xFFE5B22E</a> )
YUV	<a href="#">178.2010, -65.1751, 44.5507</a>
Hunter-Lab	<a href="#">69.7826, 2.5244, 40.8508</a>

# Details

The Yxy color **48.6961, 0.4561, 0.4558** is a light color, and the websafe version is hex **CC9900**. The color can be described as light washed orange. A complement of this color would be **14.7826, 0.1772, 0.1340**, and the grayscale version is **44.9561, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.5171, 0.4094, 0.4527**, and **23.3567, 0.4724, 0.4631** is the 20% darker color. If you saturate the color by 10%, you get **46.0828, 0.4694, 0.4587**, and if you desaturate by 10%, it is **51.5285, 0.4400, 0.4480**.

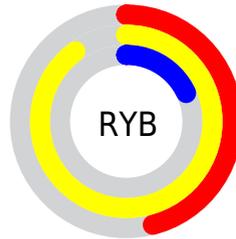
# Distribution



Red (90%)

Green (70%)

Blue (18%)



Red (46%)

Yellow (90%)

Blue (18%)

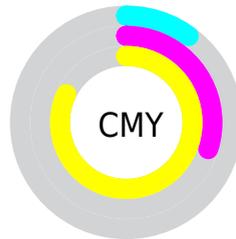


Cyan (0%)

Magenta (22%)

Yellow (80%)

Black (10%)



Cyan (10%)

Magenta (30%)

Yellow (82%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.6961, 0.4561, 0.4558 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 48.6961, 0.4561, 0.4558 by changing the saturation by 10% instead.

 48.6961, 0.4561,  
0.4558

 48.6961, 0.4561,  
0.4558

381.5447, 0.3916,  
0.4014

 34.3785, 0.4684,  
0.4652

 88.2399, 0.4353,  
0.4390

 23.1845, 0.4817,  
0.4746

 114.2349, 0.4266,  
0.4318

 14.7298, 0.4958,  
0.4833

 144.8911, 0.4190,  
0.4253

 8.6300, 0.5101,  
0.4899

 180.5930, 0.4122,  
0.4194

 4.5006, 0.5155,  
0.4845

 221.7249, 0.4062,  
0.4142

 1.9574, 0.5242,  
0.4758

 268.6712, 0.4008,

 0.5825, 0.5527,

0.4095

0.4473

321.8164, 0.3959,  
0.4053

■ 0.0000, 0.0000,  
0.0000

■ 48.6961, 0.4561,  
0.4558

■ 48.6961, 0.4561,  
0.4558

■ 46.0828, 0.4694,  
0.4587

■ 51.5285, 0.4400,  
0.4480

■ 43.6568, 0.4798,  
0.4572

■ 54.5878, 0.4218,  
0.4359

■ 43.6393, 0.4799,  
0.4572

■ 57.8893, 0.4024,  
0.4205

■ 61.4443, 0.3827,  
0.4030

■ 65.2632, 0.3635,  
0.3843

■ 69.3555, 0.3452,  
0.3654

■ 73.7301, 0.3282,  
0.3467

■ 78.3955, 0.3126,  
0.3289

■ 83.3595, 0.2985,  
0.3120

# Harmonies

## Analogous

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



48.6961, 0.4972, 0.3902



48.6961, 0.4561, 0.4558



48.6961, 0.3805, 0.5020

# Triad

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



48.6961, 0.4561, 0.4558



48.6961, 0.1675, 0.2977



48.6961, 0.3100, 0.2184

# Complementary

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



48.6961, 0.4561, 0.4558



14.7826, 0.1772, 0.1340

# 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.



48.6961, 0.2270, 0.1935



48.6961, 0.4561, 0.4558



48.6961, 0.1557, 0.2267

# Square

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



48.6961, 0.4561, 0.4558



48.6961, 0.2145, 0.4021



48.6961, 0.1755, 0.1946



48.6961, 0.4082, 0.2646

# Rectangle

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



48.6961, 0.4561, 0.4558



48.6961, 0.3218, 0.5022



48.6961, 0.1755, 0.1946



48.6961, 0.2793, 0.2075

# Sweetspot

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



48.6985, 0.4561, 0.4558



86.2638, 0.3528, 0.3734



19.4897, 0.5190, 0.2850



18.0661, 0.3594, 0.3802



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.



48.6985, 0.4561, 0.4558



56.7318, 0.4764, 0.4579



67.1036, 0.3826, 0.5177



16.1025, 0.3274, 0.3459



25.1615, 0.4787, 0.4581



2.0138, 0.4681, 0.4666



# Inverse Universe

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



14.7826, 0.1772, 0.1340



12.7938, 0.1614, 0.0986



9.5702, 0.1829, 0.0925



14.5377, 0.2981, 0.3115



5.4935, 0.1598, 0.0953



0.5588, 0.1677, 0.1237



# Previews

## White Background



This preview shows how the Yxy color 48.6961, 0.4561, 0.4558 looks on a white background.

## Color Contrast Check

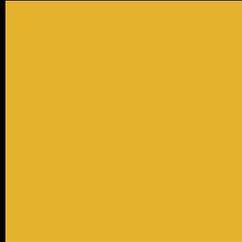
Large Text (above 18pt) WCAG AA × Fail

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 48.6961, 0.4561, 0.4558 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

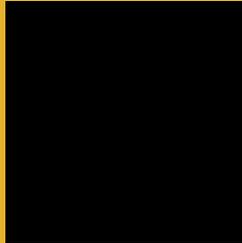
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 48.6961, 0.4561, 0.4558**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.6961, 0.4561, 0.4558.



This preview shows how white text looks on a background with the Yxy color 48.6961, 0.4561, 0.4558.

# 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

48.6961, 0.4561, 0.4558

### Protanopia

48.7411, 0.4293, 0.4745

### Deuteranopia

48.5795, 0.4611, 0.4512



## Tritanopia

48.7043, 0.3685, 0.3147

# Trichromacy



## Original Color

48.6961, 0.4561, 0.4558

## Protanomaly

48.6711, 0.4396, 0.4675

## Deuteranomaly

48.8053, 0.4592, 0.4527

## Tritanomaly

48.0503, 0.4096, 0.3732

# Monochromacy



## Original Color

48.6961, 0.4561, 0.4558

## Achromatopsia

44.5201, 0.3127, 0.3290

## Achromatomaly

45.3228, 0.3708, 0.3910

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.6961, 0.4561, 0.4558 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, 178, 46)` looks like.

```
.text, #text, p{  
    color:rgb(229, 178, 46)  
}
```

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, 178, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 178, 46) }
```

## Border

The CSS property to change the border of an element to Yxy 48.6961, 0.4561, 0.4558 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, 178, 46) }
```

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

```
.border{ border-color:rgb(229, 178, 46) }
```

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

Here you see how a box with a 4 pixel rgb(229, 178, 46) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 178, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 178, 46);  
box-shadow:4px 4px 4px 4px rgb(229, 178,  
46) }
```

# Background

The CSS property to change the background color of an element to Yxy 48.6961, 0.4561, 0.4558 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 178, 46) }
```

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

```
.background{ background-color: rgb(229,  
178, 46) }
```

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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