

Converting Colors

$Y_{xy}(49.8593, 0.4629, 0.4707)$

Have a look what the booklet for
Yxy(49.8593, 0.4629, 0.4707)
contains.

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Color

Yxy(49.8707, 0.4635, 0.4702)

Conversions

Conversions Part 1

Format	Color
Hex	E6B500
RGB	230, 181, 0
RGB Percent	90%, 71%, 0%
CMY	0.0980, 0.2902, 1.0000
CMYK	0.00, 0.21, 1.00, 0.10
HSL	47°, 100%, 45%
HSV	47°, 100%, 90%
XYZ	49.1601, 49.8707, 7.0320
YIQ	175.0170, 87.3050, -45.9030

Conversions

Conversions Part 2

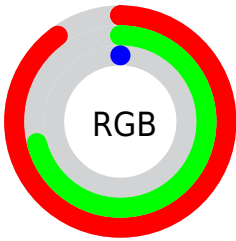
Format	Color
RYB	62, 230, 0
Decimal	15119616
CIELab	75.99, 4.85, 78.36
CIELCh	76, 78.511, 86.461
Yxy	49.8707, 0.4635, 0.4702
Android (android.graphics.Color)	4293309696 (0xFFE6B500)
YUV	175.0170, -86.2834, 48.2201
Hunter-Lab	70.6192, 0.6755, 43.5296

Details

The Yxy color **49.8707, 0.4635, 0.4702** is a dark color, and the websafe version is hex **FFCC33**. The color can be described as middle washed orange. A complement of this color would be **7.9117, 0.1556, 0.0800**, and the grayscale version is **43.3028, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.8450, 0.4172, 0.4695**, and **24.1355, 0.4680, 0.4666** is the 20% darker color. If you saturate the color by 10%, you get **49.8734, 0.4635, 0.4702**, and if you desaturate by 10%, it is **51.9637, 0.4556, 0.4703**.

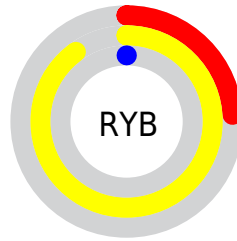
Distribution



Red (90%)

Green (71%)

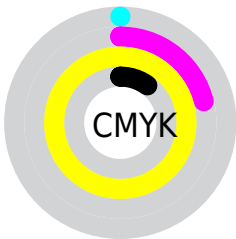
Blue (0%)



Red (24%)

Yellow (90%)

Blue (0%)

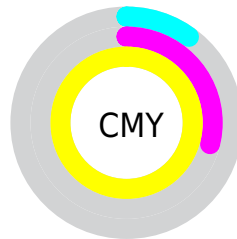


Cyan (0%)

Magenta (21%)

Yellow (100%)

Black (10%)



Cyan (10%)


Magenta (29%)

Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 49.8707, 0.4635, 0.4702 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 49.8707, 0.4635, 0.4702 by changing the saturation by 10% instead.


 49.8707, 0.4635,
0.4702

 49.8707, 0.4635,
0.4702


386.1601, 0.3988,
0.4119


 35.3107, 0.4745,
0.4793


 89.9833, 0.4436,
0.4529


 23.9023, 0.4856,
0.4877


 116.3046, 0.4350,
0.4452


 15.2612, 0.4997,
0.4982


 147.3152, 0.4273,
0.4382

 9.0029, 0.5033,
0.4967

 183.3993, 0.4203,
0.4319

 4.7431, 0.5071,
0.4929

 224.9415, 0.4141,
0.4261

 2.0973, 0.5132,
0.4868

 272.3261, 0.4084,

 0.6631, 0.5303,

0.4209

0.4697

325.9375, 0.4034,
0.4162

■ 0.0000, 0.0000,
0.0000

■ 49.8707, 0.4635,
0.4702

■ 49.8707, 0.4635,
0.4702

■ 49.8734, 0.4635,
0.4702

■ 51.9637, 0.4556,
0.4703

■ 54.1985, 0.4449,
0.4663

■ 56.6018, 0.4315,
0.4575

■ 59.1880, 0.4157,
0.4444

■ 61.9691, 0.3984,
0.4280

■ 64.9558, 0.3803,
0.4092

■ 68.1578, 0.3623,
0.3892

■ 71.5839, 0.3448,
0.3687

■ 75.2424, 0.3282,
0.3485

Harmonies

Analogous

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



49.8707, 0.5153, 0.3971



49.8707, 0.4635, 0.4702



49.8707, 0.3775, 0.5240

Triad

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



49.8707, 0.4635, 0.4702



49.8707, 0.1508, 0.2850



49.8707, 0.3163, 0.2104

Complementary

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



49.8707, 0.4635, 0.4702



7.9117, 0.1556, 0.0800

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.



49.8707, 0.2228, 0.1819



49.8707, 0.4635, 0.4702



49.8707, 0.1416, 0.2109

Square

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



49.8707, 0.4635, 0.4702



49.8707, 0.1977, 0.4027



49.8707, 0.1651, 0.1803



49.8707, 0.4269, 0.2615

Rectangle

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



49.8707, 0.4635, 0.4702



49.8707, 0.3128, 0.5239



49.8707, 0.1651, 0.1803



49.8707, 0.2816, 0.1981

Sweetspot

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



49.8734, 0.4635, 0.4702



86.0512, 0.3626, 0.3895



17.0542, 0.6060, 0.3112



18.0445, 0.3702, 0.3981



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.



49.8734, 0.4635, 0.4702



62.8760, 0.4638, 0.4700



64.5840, 0.3694, 0.5449



16.2684, 0.3273, 0.3474



28.4162, 0.4626, 0.4709



2.2303, 0.4551, 0.4769

Inverse Universe

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



7.9117, 0.1556, 0.0800



9.8899, 0.1554, 0.0793



6.8436, 0.1670, 0.0694



14.3824, 0.2980, 0.3099



4.6230, 0.1562, 0.0822



0.4753, 0.1635, 0.1086

Previews

White Background



This preview shows how the Yxy color 49.8707, 0.4635, 0.4702 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 49.8707, 0.4635, 0.4702 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 49.8707, 0.4635, 0.4702

Background



This preview shows how black text looks on a background with the Yxy color 49.8707, 0.4635, 0.4702.



This preview shows how white text looks on a background with the Yxy color 49.8707, 0.4635, 0.4702.

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

49.8707, 0.4635, 0.4702

Protanopia

49.9877, 0.4398, 0.4864

Deuteranopia

49.8770, 0.4708, 0.4611



Tritanopia

49.6922, 0.3670, 0.3147

Trichromacy



Original Color

49.8707, 0.4635, 0.4702

Protanomaly

49.7733, 0.4493, 0.4799

Deuteranomaly

49.7523, 0.4679, 0.4647

Tritanomaly

48.9578, 0.4228, 0.3933

Monochromacy



Original Color

49.8707, 0.4635, 0.4702

Achromatopsia

42.8690, 0.3127, 0.3290

Achromatomaly

44.1941, 0.3852, 0.4142

CSS Examples

Text

The CSS property to change the color of the text to Yxy 49.8707, 0.4635, 0.4702 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(230, 181, 0)` looks like.

```
.text, #text, p{  
    color:rgb(230, 181, 0)  
}
```

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(230, 181, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 181, 0) }
```

Border

The CSS property to change the border of an element to Yxy 49.8707, 0.4635, 0.4702 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(230, 181, 0) }
```

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

```
.border{ border-color:rgb(230, 181, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(230, 181, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 181, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(230, 181, 0);  
box-shadow:4px 4px 4px 4px rgb(230, 181,  
0) }
```


Background

The CSS property to change the background color of an element to Yxy 49.8707, 0.4635, 0.4702 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 181, 0) }
```

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

```
.background{ background-color: rgb(230,  
181, 0) }
```

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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