

Converting Colors

$Y_{xy}(49.3208, 0.4705, 0.4602)$

Have a look what the booklet for
Yxy(49.3208, 0.4705, 0.4602)
contains.

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Color

Yxy(49.3208, 0.4705, 0.4602)

Conversions

Conversions Part 1

Format	Color
Hex	ECB112
RGB	236, 177, 18
RGB Percent	93%, 69%, 7%
CMY	0.0745, 0.3059, 0.9300
CMYK	0.00, 0.25, 0.92, 0.07
HSL	44°, 86%, 50%
HSV	44°, 92%, 93%
XYZ	50.4247, 49.3208, 7.4271
YIQ	176.5150, 86.2030, -36.9410

Conversions

Conversions Part 2

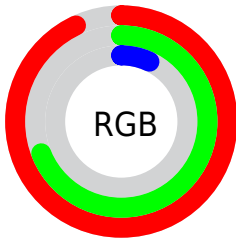
Format	Color
R _Y B	99, 236, 18
Decimal	15511826
CIE Lab	75.65, 9.72, 76.30
CIE LCh	76, 76.917, 82.739
Yxy	49.3208, 0.4705, 0.4602
Android (android.graphics.Color)	4293701906 (0xFFECB112)
YUV	176.5150, -78.1479, 52.1683
Hunter-Lab	70.2288, 5.2637, 42.8899

Details

The Yxy color **49.3208, 0.4705, 0.4602** 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 **11.4697, 0.1637, 0.1041**, and the grayscale version is **44.0747, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.6451, 0.4178, 0.4636**, and **23.7812, 0.4804, 0.4568** is the 20% darker color. If you saturate the color by 10%, you get **47.4076, 0.4779, 0.4588**, and if you desaturate by 10%, it is **52.0243, 0.4584, 0.4584**.

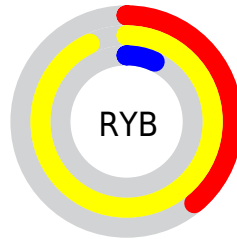
Distribution



Red (93%)

Green (69%)

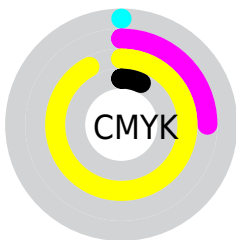
Blue (7%)



Red (39%)

Yellow (93%)

Blue (7%)

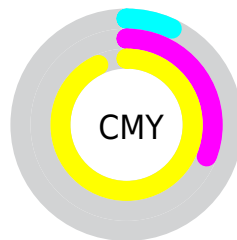


Cyan (0%)

Magenta (25%)

Yellow (92%)

Black (7%)



Cyan (7%)

Magenta (31%)

Yellow (93%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 49.3208, 0.4705, 0.4602 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 49.3208, 0.4705, 0.4602 by changing the saturation by 10% instead.


 49.3208, 0.4705,
0.4602

 49.3208, 0.4705,
0.4602


384.0039, 0.4014,
0.4069


 34.8740, 0.4829,
0.4682


 89.1677, 0.4488,
0.4447

 23.5659, 0.4958,
0.4753


 115.3367, 0.4396,
0.4377

 15.0119, 0.5115,
0.4831


 146.1818, 0.4313,
0.4313


 8.8277, 0.5193,
0.4807

 182.0875, 0.4240,
0.4254

 4.6290, 0.5268,
0.4732

 223.4381, 0.4174,
0.4201

 2.0313, 0.5388,
0.4612

 270.6182, 0.4115,

 0.6255, 0.5708,

0.4153

0.4292

324.0119, 0.4062,
0.4109

■ 0.0000, 0.0000,
0.0000

■ 49.3208, 0.4705,
0.4602

■ 49.3208, 0.4705,
0.4602

■ 47.4076, 0.4779,
0.4588

■ 52.0243, 0.4584,
0.4584

■ 54.9437, 0.4433,
0.4517

■ 58.0984, 0.4258,
0.4405

■ 61.5025, 0.4069,
0.4258

■ 65.1685, 0.3874,
0.4085

■ 69.1077, 0.3682,
0.3898

■ 73.3304, 0.3497,
0.3706

■ 77.8461, 0.3324,
0.3516

■ 82.6640, 0.3164,
0.3333

Harmonies

Analogous

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



49.3208, 0.5150, 0.3879



49.3208, 0.4705, 0.4602



49.3208, 0.3887, 0.5171

Triad

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



49.3208, 0.4705, 0.4602



49.3208, 0.1566, 0.2984



49.3208, 0.3033, 0.2072

Complementary

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



49.3208, 0.4705, 0.4602



11.4697, 0.1637, 0.1041

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.



49.3208, 0.2151, 0.1820



49.3208, 0.4705, 0.4602



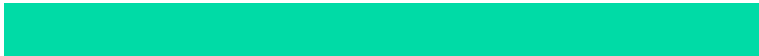
49.3208, 0.1431, 0.2193

Square

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



49.3208, 0.4705, 0.4602



49.3208, 0.2081, 0.4168



49.3208, 0.1624, 0.1841



49.3208, 0.4122, 0.2553

Rectangle

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



49.3208, 0.4705, 0.4602



49.3208, 0.3253, 0.5235



49.3208, 0.1624, 0.1841



49.3208, 0.2703, 0.1960

Sweetspot

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



49.3233, 0.4705, 0.4602



84.5162, 0.3601, 0.3815



18.8359, 0.5634, 0.2928



17.6321, 0.3682, 0.3898



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.



49.3233, 0.4705, 0.4602



56.3920, 0.4782, 0.4585



70.8247, 0.3825, 0.5309



16.8978, 0.3275, 0.3461



26.3551, 0.4767, 0.4597



2.2273, 0.4669, 0.4674

Inverse Universe

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



11.4697, 0.1637, 0.1041



11.4721, 0.1584, 0.0900



7.6116, 0.1670, 0.0724



15.2117, 0.2980, 0.3113



5.5320, 0.1593, 0.0933



0.5894, 0.1667, 0.1199

Previews

White Background



This preview shows how the Yxy color 49.3208, 0.4705, 0.4602 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 49.3208, 0.4705, 0.4602 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 49.3208, 0.4705, 0.4602

Background



This preview shows how black text looks on a background with the Yxy color 49.3208, 0.4705, 0.4602.



This preview shows how white text looks on a background with the Yxy color 49.3208, 0.4705, 0.4602.

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

49.3208, 0.4705, 0.4602

Protanopia

49.4475, 0.4383, 0.4840

Deuteranopia

49.3208, 0.4705, 0.4602



Tritanopia

49.3177, 0.3762, 0.3161

Trichromacy



Original Color

49.3208, 0.4705, 0.4602

Protanomaly

49.1331, 0.4504, 0.4752

Deuteranomaly

49.3208, 0.4705, 0.4602

Tritanomaly

48.4086, 0.4264, 0.3837

Monochromacy



Original Color

49.3208, 0.4705, 0.4602

Achromatopsia

43.9657, 0.3127, 0.3290

Achromatomaly

44.7820, 0.3815, 0.4035

CSS Examples

Text

The CSS property to change the color of the text to Yxy 49.3208, 0.4705, 0.4602 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(236, 177, 18)` looks like.

```
.text, #text, p{  
    color:rgb(236, 177, 18)  
}
```

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(236, 177, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 177, 18) }
```

Border

The CSS property to change the border of an element to Yxy 49.3208, 0.4705, 0.4602 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(236, 177, 18) }
```

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

```
.border{ border-color:rgb(236, 177, 18) }
```

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

Here you see how a box with a 4 pixel `rgb(236, 177, 18)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 177, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 177, 18);  
box-shadow:4px 4px 4px 4px rgb(236, 177,  
18) }
```


Background

The CSS property to change the background color of an element to Yxy 49.3208, 0.4705, 0.4602 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 177, 18) }
```

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

```
.background{ background-color: rgb(236,  
177, 18) }
```

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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