

Converting Colors

$Y_{xy}(46.6306, 0.4733, 0.4478)$

Have a look what the booklet for
Yxy(46.6306, 0.4733, 0.4478)
contains.

Yxy(46.7223, 0.4729, 0.4480)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(46.7223, 0.4729, 0.4480)

Conversions

Conversions Part 1

Format	Color
Hex	ECAA26
RGB	236, 170, 38
RGB Percent	93%, 67%, 15%
CMY	0.0745, 0.3333, 0.8511
CMYK	0.00, 0.28, 0.84, 0.07
HSL	40°, 84%, 54%
HSV	40°, 84%, 93%
XYZ	49.3191, 46.7223, 8.2494
YIQ	174.6860, 81.7080, -27.0600

Conversions

Conversions Part 2

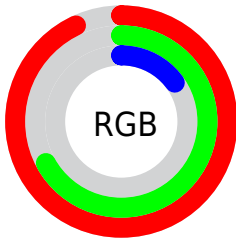
Format	Color
RYB	137, 236, 38
Decimal	15510054
CIELab	74.01, 13.80, 70.56
CIElCh	74, 71.902, 78.931
Yxy	46.7223, 0.4729, 0.4480
Android (android.graphics.Color)	4293700134 (0xFFECA26)
YUV	174.6860, -67.3862, 53.7724
Hunter-Lab	68.3537, 9.1738, 40.6921

Details

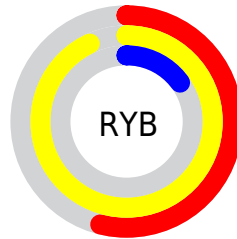
The Yxy color **46.7223, 0.4729, 0.4480** is a dark color, and the websafe version is hex **CC9900**. The color can be described as middle washed orange. A complement of this color would be **16.3643, 0.1760, 0.1379**, and the grayscale version is **43.0221, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.9735, 0.4172, 0.4507**, and **22.0708, 0.4909, 0.4485** is the 20% darker color. If you saturate the color by 10%, you get **43.7559, 0.4872, 0.4477**, and if you desaturate by 10%, it is **49.9663, 0.4554, 0.4432**.

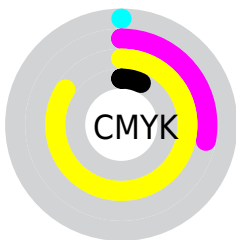
Distribution



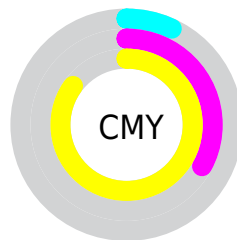
- Red (93%)
- Green (67%)
- Blue (15%)



- Red (54%)
- Yellow (93%)
- Blue (15%)



- Cyan (0%)
- Magenta (28%)
- Yellow (84%)
- Black (7%)



- Cyan (7%)
- Magenta (33%)
- Yellow (85%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 46.7223, 0.4729, 0.4480 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 46.7223, 0.4729, 0.4480 by changing the saturation by 10% instead.


 46.7223, 0.4729,
0.4480

 46.7223, 0.4729,
0.4480


373.7050, 0.4002,
0.3993


 32.8162, 0.4869,
0.4553


 85.2990, 0.4493,
0.4337


 21.9857, 0.5021,
0.4619


 110.7383, 0.4395,
0.4273

 13.8464, 0.5197,
0.4678


 140.7908, 0.4309,
0.4215


 8.0139, 0.5338,
0.4662

 175.8409, 0.4233,
0.4161

 4.1038, 0.5449,
0.4551

 216.2729, 0.4165,
0.4113

 1.7318, 0.5630,
0.4370

 262.4714, 0.4105,

 0.4441, 0.6309,

0.4069

0.3691

314.8206, 0.4050,
0.4029

■ 0.0000, 0.0000,
0.0000

■ 46.7223, 0.4729,
0.4480

■ 46.7223, 0.4729,
0.4480

■ 43.7559, 0.4872,
0.4477

■ 49.9663, 0.4554,
0.4432

■ 42.0663, 0.4946,
0.4455

■ 53.4995, 0.4356,
0.4337

■ 57.3402, 0.4146,
0.4205

■ 61.5026, 0.3934,
0.4047

■ 65.9992, 0.3727,
0.3875

■ 70.8418, 0.3532,
0.3698

■ 76.0415, 0.3351,
0.3523

■ 81.6086, 0.3187,
0.3354

■ 87.5527, 0.3039,
0.3194

Harmonies

Analogous

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



46.7223, 0.5079, 0.3786



46.7223, 0.4729, 0.4480



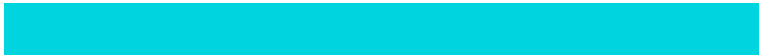
46.7223, 0.3981, 0.5045

Triad

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



46.7223, 0.4729, 0.4480



46.7223, 0.1671, 0.3134



46.7223, 0.2917, 0.2073

Complementary

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



46.7223, 0.4729, 0.4480



16.3643, 0.1760, 0.1379

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.



46.7223, 0.2108, 0.1862



46.7223, 0.4729, 0.4480



46.7223, 0.1491, 0.2316

Square

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



46.7223, 0.4729, 0.4480



46.7223, 0.2221, 0.4267



46.7223, 0.1638, 0.1921



46.7223, 0.3947, 0.2516

Rectangle

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



46.7223, 0.4729, 0.4480



46.7223, 0.3378, 0.5153



46.7223, 0.1638, 0.1921



46.7223, 0.2612, 0.1975

Sweetspot

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



46.7246, 0.4729, 0.4480



83.7369, 0.3554, 0.3719



20.2181, 0.5176, 0.2769



17.4807, 0.3622, 0.3782



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.



46.7246, 0.4729, 0.4480



50.0119, 0.4950, 0.4451



72.8342, 0.3905, 0.5173



16.7319, 0.3276, 0.3447



23.4329, 0.4931, 0.4467



2.0156, 0.4803, 0.4568

Inverse Universe

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



16.3643, 0.1760, 0.1379



13.7160, 0.1624, 0.1046



8.7796, 0.1718, 0.0818



15.3692, 0.2980, 0.3128



6.6063, 0.1634, 0.1082



0.6899, 0.1711, 0.1358

Previews

White Background



This preview shows how the Yxy color 46.7223, 0.4729, 0.4480 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 46.7223, 0.4729, 0.4480 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 46.7223, 0.4729, 0.4480

Background



This preview shows how black text looks on a background with the Yxy color 46.7223, 0.4729, 0.4480.



This preview shows how white text looks on a background with the Yxy color 46.7223, 0.4729, 0.4480.

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

46.7223, 0.4729, 0.4480

Protanopia

47.0062, 0.4318, 0.4775

Deuteranopia

46.8375, 0.4654, 0.4551



Tritanopia

46.5891, 0.3853, 0.3161

Trichromacy



Original Color

46.7223, 0.4729, 0.4480

Protanomaly

46.5929, 0.4468, 0.4666

Deuteranomaly

46.7944, 0.4678, 0.4526

Tritanomaly

45.9466, 0.4280, 0.3731

Monochromacy



Original Color

46.7223, 0.4729, 0.4480

Achromatopsia

42.8690, 0.3127, 0.3290

Achromatomaly

43.2381, 0.3772, 0.3914

CSS Examples

Text

The CSS property to change the color of the text to Yxy 46.7223, 0.4729, 0.4480 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, 170, 38)` looks like.

```
.text, #text, p{  
    color:rgb(236, 170, 38)  
}
```

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, 170, 38) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 170, 38) }
```

Border

The CSS property to change the border of an element to Yxy 46.7223, 0.4729, 0.4480 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, 170, 38) }
```

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

```
.border{ border-color:rgb(236, 170, 38) }
```

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

Here you see how a box with a 4 pixel `rgb(236, 170, 38)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 170, 38); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 170, 38);  
box-shadow:4px 4px 4px 4px rgb(236, 170,  
38) }
```


Background

The CSS property to change the background color of an element to Yxy 46.7223, 0.4729, 0.4480 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 170, 38) }
```

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

```
.background{ background-color: rgb(236,  
170, 38) }
```

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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