

Converting Colors

$Y_{xy}(47.1768, 0.4771, 0.4563)$

Have a look what the booklet for
Yxy(47.1768, 0.4771, 0.4563)
contains.

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Color

Yxy(46.9877, 0.4776, 0.4559)

Conversions

Conversions Part 1

Format	Color
Hex	ECAB0D
RGB	236, 171, 13
RGB Percent	93%, 67%, 5%
CMY	0.0746, 0.3294, 0.9492
CMYK	0.00, 0.28, 0.95, 0.07
HSL	43°, 90%, 49%
HSV	43°, 95%, 93%
XYZ	49.2242, 46.9877, 6.8539
YIQ	172.4230, 89.4580, -35.3580

Conversions

Conversions Part 2

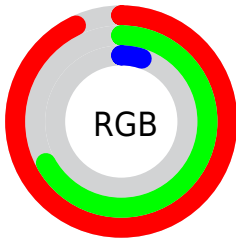
Format	Color
R _Y B	105, 236, 13
Decimal	15510285
CIE Lab	74.18, 12.81, 75.93
CIE LCh	74, 77.001, 80.421
Yxy	46.9877, 0.4776, 0.4559
Android (android.graphics.Color)	4293700365 (0xFFECAB0D)
YUV	172.4230, -78.5955, 55.7570
Hunter-Lab	68.5476, 8.2232, 42.0551

Details

The Yxy color **46.9877, 0.4776, 0.4559** 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 **11.5792, 0.1635, 0.1050**, and the grayscale version is **41.8520, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.2928, 0.4225, 0.4603**, and **22.1923, 0.4883, 0.4505** is the 20% darker color. If you saturate the color by 10%, you get **45.5555, 0.4833, 0.4544**, and if you desaturate by 10%, it is **49.7573, 0.4653, 0.4556**.

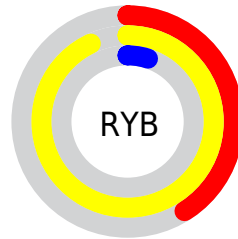
Distribution



Red (93%)

Green (67%)

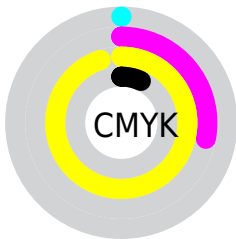
Blue (5%)



Red (41%)

Yellow (93%)

Blue (5%)

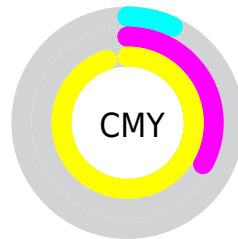


Cyan (0%)

Magenta (28%)

Yellow (95%)

Black (7%)



Cyan (7%)

Magenta (33%)

Yellow (95%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 46.9877, 0.4776, 0.4559 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 46.9877, 0.4776, 0.4559 by changing the saturation by 10% instead.

 46.9877, 0.4776,
0.4559

 46.9877, 0.4776,
0.4559


374.7654, 0.4045,
0.4052

 33.0259, 0.4908,
0.4630


 85.6953, 0.4545,
0.4415


 22.1463, 0.5047,
0.4689


 111.2098, 0.4447,
0.4348

 13.9644, 0.5231,
0.4763


 141.3442, 0.4360,
0.4287

 8.0959, 0.5304,
0.4696

 176.4826, 0.4283,
0.4231

 4.1564, 0.5407,
0.4593

 217.0095, 0.4213,
0.4180

 1.7614, 0.5575,
0.4425

 263.3094, 0.4151,

 0.4630, 0.6192,

0.4133

0.3808

315.7666, 0.4095,
0.4091

■ 0.0000, 0.0000,
0.0000

■ 46.9877, 0.4776,
0.4559

■ 46.9877, 0.4776,
0.4559

■ 45.5555, 0.4833,
0.4544

■ 49.7573, 0.4653,
0.4556

■ 52.7569, 0.4499,
0.4503

■ 56.0068, 0.4320,
0.4403

■ 59.5220, 0.4125,
0.4265

■ 63.3157, 0.3925,
0.4101

■ 67.3997, 0.3727,
0.3920

■ 71.7849, 0.3537,
0.3734

■ 76.4814, 0.3359,
0.3548

■ 81.4987, 0.3196,
0.3368

Harmonies

Analogous

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



46.9877, 0.5192, 0.3824



46.9877, 0.4776, 0.4559



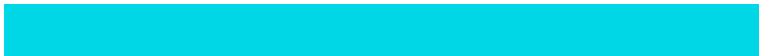
46.9877, 0.3964, 0.5170

Triad

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



46.9877, 0.4776, 0.4559



46.9877, 0.1570, 0.3058



46.9877, 0.2950, 0.2027

Complementary

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



46.9877, 0.4776, 0.4559



11.5792, 0.1635, 0.1050

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.



46.9877, 0.2082, 0.1793



46.9877, 0.4776, 0.4559



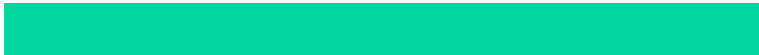
46.9877, 0.1407, 0.2219

Square

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



46.9877, 0.4776, 0.4559



46.9877, 0.2120, 0.4280



46.9877, 0.1577, 0.1835



46.9877, 0.4054, 0.2497

Rectangle

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



46.9877, 0.4776, 0.4559



46.9877, 0.3325, 0.5284



46.9877, 0.1577, 0.1835



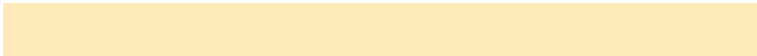
46.9877, 0.2622, 0.1920

Sweetspot

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



46.9901, 0.4776, 0.4559



83.6633, 0.3604, 0.3801



18.6945, 0.5640, 0.2915



17.4251, 0.3687, 0.3882



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.



46.9901, 0.4776, 0.4559



54.1911, 0.4836, 0.4542



71.1379, 0.3849, 0.5302



16.8426, 0.3275, 0.3456



25.3481, 0.4820, 0.4555



2.1549, 0.4713, 0.4640

Inverse Universe

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



11.5792, 0.1635, 0.1050



12.1560, 0.1596, 0.0946



7.2285, 0.1634, 0.0695



15.2639, 0.2980, 0.3118



5.8612, 0.1606, 0.0980



0.6210, 0.1681, 0.1250

Previews

White Background



This preview shows how the Yxy color 46.9877, 0.4776, 0.4559 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 46.9877, 0.4776, 0.4559 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 46.9877, 0.4776, 0.4559

Background



This preview shows how black text looks on a background with the Yxy color 46.9877, 0.4776, 0.4559.



This preview shows how white text looks on a background with the Yxy color 46.9877, 0.4776, 0.4559.

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

46.9877, 0.4776, 0.4559

Protanopia

47.0358, 0.4382, 0.4849

Deuteranopia

46.8914, 0.4720, 0.4617



Tritanopia

46.9696, 0.3839, 0.3161

Trichromacy



Original Color

46.9877, 0.4776, 0.4559

Protanomaly

47.0324, 0.4524, 0.4745

Deuteranomaly

46.8484, 0.4745, 0.4593

Tritanomaly

46.1101, 0.4347, 0.3824

Monochromacy



Original Color

46.9877, 0.4776, 0.4559

Achromatopsia

41.2543, 0.3127, 0.3290

Achromatomaly

42.3221, 0.3853, 0.4047

CSS Examples

Text

The CSS property to change the color of the text to Yxy 46.9877, 0.4776, 0.4559 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, 171, 13)` looks like.

```
.text, #text, p{  
    color:rgb(236, 171, 13)  
}
```

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, 171, 13) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 171, 13) }
```

Border

The CSS property to change the border of an element to Yxy 46.9877, 0.4776, 0.4559 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, 171, 13) }
```

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

```
.border{ border-color:rgb(236, 171, 13) }
```

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

Here you see how a box with a 4 pixel `rgb(236, 171, 13)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 171, 13); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 171, 13);  
box-shadow:4px 4px 4px 4px rgb(236, 171,  
13) }
```


Background

The CSS property to change the background color of an element to Yxy 46.9877, 0.4776, 0.4559 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 171, 13) }
```

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

```
.background{ background-color: rgb(236,  
171, 13) }
```

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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