

Converting Colors

$Y_{xy}(46.9884, 0.4529, 0.4786)$

Have a look what the booklet for
Yxy(46.9884, 0.4529, 0.4786)
contains.

Yxy(46.8391, 0.4536, 0.4781)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(46.8391, 0.4536, 0.4781)

Conversions

Conversions Part 1

Format	Color
Hex	D8B300
RGB	216, 179, 0
RGB Percent	85%, 70%, 0%
CMY	0.1529, 0.2980, 1.0000
CMYK	0.00, 0.17, 1.00, 0.15
HSL	50°, 100%, 42%
HSV	50°, 100%, 85%
XYZ	44.4389, 46.8391, 6.6913
YIQ	169.6570, 79.5110, -47.8250

Conversions

Conversions Part 2

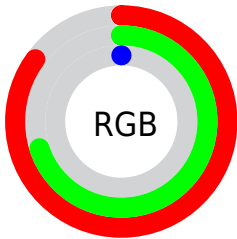
Format	Color
R _Y B	45, 216, 0
Decimal	14201600
CIE Lab	74.09, -0.23, 76.40
CIE LCh	74, 76.398, 90.175
Yxy	46.8391, 0.4536, 0.4781
Android (android.graphics.Color)	4292391680 (0xFFD8B300)
YUV	169.6570, -83.6409, 40.6428
Hunter-Lab	68.4391, -3.8649, 42.1106

Details

The Yxy color **46.8391, 0.4536, 0.4781** 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 **6.2811, 0.1539, 0.0740**, and the grayscale version is **40.4154, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.6848, 0.4189, 0.4687**, and **22.2467, 0.4559, 0.4762** is the 20% darker color. If you saturate the color by 10%, you get **46.8419, 0.4536, 0.4781**, and if you desaturate by 10%, it is **48.4014, 0.4470, 0.4772**.

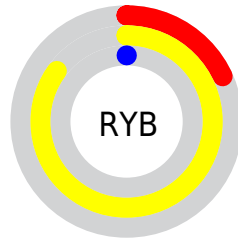
Distribution



Red (85%)

Green (70%)

Blue (0%)



Red (18%)

Yellow (85%)

Blue (0%)

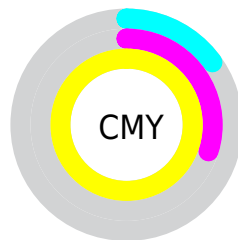


Cyan (0%)

Magenta (17%)

Yellow (100%)

Black (15%)



Cyan (15%)

Magenta (30%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 46.8391, 0.4536, 0.4781 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 46.8391, 0.4536, 0.4781 by changing the saturation by 10% instead.

46.8391, 0.4536,
0.4781

46.8391, 0.4536,
0.4781

374.1719, 0.3930,
0.4139

32.9085, 0.4637,
0.4889

85.4734, 0.4351,
0.4584

22.0563, 0.4736,
0.4994

110.9459, 0.4270,
0.4499

13.8983, 0.4866,
0.5134

141.0344, 0.4198,
0.4422

8.0500, 0.4865,
0.5135

176.1234, 0.4132,
0.4353

4.1269, 0.4863,
0.5137

216.5973, 0.4074,
0.4291

1.7448, 0.4860,
0.5140

262.8404, 0.4021,

0.4524, 0.4840,

0.4235

0.5160

315.2371, 0.3973,
0.4184

■ 0.0000, 0.0000,
0.0000

■ 46.8391, 0.4536,
0.4781

■ 46.8391, 0.4536,
0.4781

■ 46.8419, 0.4536,
0.4781

■ 48.4014, 0.4470,
0.4772

■ 50.0642, 0.4378,
0.4723

■ 51.8513, 0.4259,
0.4629

■ 53.7746, 0.4115,
0.4492

■ 55.8443, 0.3955,
0.4321

■ 58.0692, 0.3785,
0.4127

■ 60.4573, 0.3612,
0.3919

■ 63.0159, 0.3442,
0.3705

■ 65.7517, 0.3280,
0.3494

Harmonies

Analogous

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



46.8391, 0.5107, 0.4060



46.8391, 0.4536, 0.4781



46.8391, 0.3656, 0.5257

Triad

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



46.8391, 0.4536, 0.4781



46.8391, 0.1486, 0.2735



46.8391, 0.3298, 0.2162

Complementary

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



46.8391, 0.4536, 0.4781



6.2811, 0.1539, 0.0740

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.



46.8391, 0.2330, 0.1847



46.8391, 0.4536, 0.4781



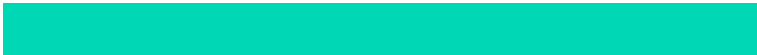
46.8391, 0.1436, 0.2058

Square

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



46.8391, 0.4536, 0.4781



46.8391, 0.1905, 0.3866



46.8391, 0.1710, 0.1796



46.8391, 0.4388, 0.2693

Rectangle

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



46.8391, 0.4536, 0.4781



46.8391, 0.3010, 0.5178



46.8391, 0.1710, 0.1796



46.8391, 0.2943, 0.2030

Sweetspot

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



46.8419, 0.4536, 0.4781



87.9373, 0.3617, 0.3925



14.7500, 0.6138, 0.3155



18.4997, 0.3691, 0.4014



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.



46.8419, 0.4536, 0.4781



68.0088, 0.4539, 0.4778



55.3725, 0.3640, 0.5492



14.1411, 0.3271, 0.3482



27.8641, 0.4530, 0.4786



1.7784, 0.4462, 0.4839

Inverse Universe

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



6.2811, 0.1539, 0.0740



8.9974, 0.1536, 0.0730



6.2015, 0.1714, 0.0718



12.3491, 0.2982, 0.3091



3.8263, 0.1544, 0.0759



0.3382, 0.1625, 0.1051

Previews

White Background



This preview shows how the Yxy color 46.8391, 0.4536, 0.4781 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 46.8391, 0.4536, 0.4781 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 46.8391, 0.4536, 0.4781

Background



This preview shows how black text looks on a background with the Yxy color 46.8391, 0.4536, 0.4781.



This preview shows how white text looks on a background with the Yxy color 46.8391, 0.4536, 0.4781.

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

46.8391, 0.4536, 0.4781

Protanopia

47.0063, 0.4397, 0.4871

Deuteranopia

46.7538, 0.4697, 0.4605



Tritanopia

46.6959, 0.3574, 0.3140

Trichromacy



Original Color

46.8391, 0.4536, 0.4781

Protanomaly

47.1685, 0.4446, 0.4839

Deuteranomaly

46.6917, 0.4643, 0.4668

Tritanomaly

45.8703, 0.4119, 0.3959

Monochromacy



Original Color

46.8391, 0.4536, 0.4781

Achromatopsia

40.1978, 0.3127, 0.3290

Achromatomaly

41.5346, 0.3819, 0.4159

CSS Examples

Text

The CSS property to change the color of the text to Yxy 46.8391, 0.4536, 0.4781 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(216, 179, 0)` looks like.

```
.text, #text, p{  
    color:rgb(216, 179, 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(216, 179, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(216, 179, 0) }
```

Border

The CSS property to change the border of an element to Yxy 46.8391, 0.4536, 0.4781 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(216, 179, 0) }
```

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

```
.border{ border-color:rgb(216, 179, 0) }
```

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

Here you see how a box with a 4 pixel rgb(216, 179, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(216, 179, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(216, 179, 0);  
box-shadow:4px 4px 4px 4px rgb(216, 179,  
0) }
```


Background

The CSS property to change the background color of an element to Yxy 46.8391, 0.4536, 0.4781 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(216, 179, 0) }
```

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

```
.background{ background-color: rgb(216,  
179, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor