

# Converting Colors

$Y_{xy}(16.4690, 0.4305, 0.4345)$

Have a look what the booklet for  
Yxy(16.4690, 0.4305, 0.4345)  
contains.

<b>Yxy(16.4690, 0.4305, 0.4345)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

**Color**

**Yxy(16.4690, 0.4305, 0.4345)**

# Conversions

## Conversions Part 1

Format	Color
Hex	896D30
RGB	137, 109, 48
RGB Percent	54%, 43%, 19%
CMY	0.4628, 0.5725, 0.8117
CMYK	0.00, 0.20, 0.65, 0.46
HSL	41°, 48%, 36%
HSV	41°, 65%, 54%
XYZ	16.3174, 16.4690, 5.1170
YIQ	110.4180, 36.2690, -13.0350

# Conversions

## Conversions Part 2

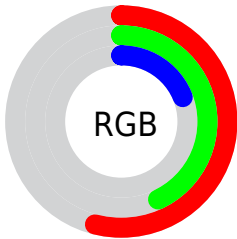
<b>Format</b>	<b>Color</b>
<b>RYB</b>	89, 137, 48
Decimal	9006384
CIELab	47.58, 3.82, 37.45
CIELCh	48, 37.648, 84.173
Yxy	16.4690, 0.4305, 0.4345
Android (android.graphics.Color)	4287196464 (0xFF896D30)
YUV	110.4180, -30.7721, 23.3124
Hunter-Lab	40.5820, 0.7535, 20.9316

# Details

The Yxy color **16.4690, 0.4305, 0.4345** is a dark color, and the websafe version is hex **996633**. A complement of this color would be **7.6032, 0.2048, 0.1872**, and the grayscale version is **15.8025, 0.3127, 0.3290**.

A 20% lighter version of the original color is **37.3421, 0.4051, 0.4120**, and **5.3301, 0.4696, 0.4653** is the 20% darker color. If you saturate the color by 10%, you get **15.4767, 0.4490, 0.4446**, and if you desaturate by 10%, it is **17.5429, 0.4109, 0.4211**.

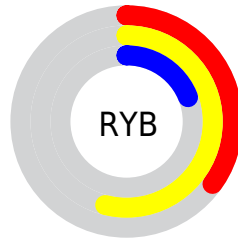
# Distribution



Red (54%)

Green (43%)

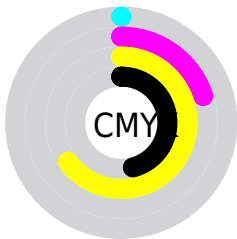
Blue (19%)



Red (35%)

Yellow (54%)

Blue (19%)

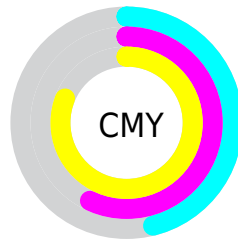


Cyan (0%)

Magenta (20%)

Yellow (65%)

Black (46%)



Cyan (46%)

Magenta (57%)


Yellow (81%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 16.4690, 0.4305, 0.4345 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 16.4690, 0.4305, 0.4345 by changing the saturation by 10% instead.





 16.4690, 0.4305,  
0.4345


 16.4690, 0.4305,  
0.4345


232.0935, 0.3641,  
0.3765


 9.8566, 0.4483,  
0.4490


 37.4105, 0.4050,  
0.4128


 5.3040, 0.4712,  
0.4667

 52.5085, 0.3957,  
0.4047

 2.4267, 0.5068,  
0.4932

 71.2037, 0.3881,  
0.3980

 0.8396, 0.5152,  
0.4848

 93.8807, 0.3817,  
0.3923

 0.0000, 0.0000,  
0.0000

 120.9237, 0.3763,  
0.3875

 152.7173, 0.3716,

0.3833

189.6458, 0.3676,  
0.3797

■ 16.4690, 0.4305,  
0.4345

■ 16.4690, 0.4305,  
0.4345

■ 15.4767, 0.4490,  
0.4446

■ 17.5429, 0.4109,  
0.4211

■ 14.5597, 0.4655,  
0.4506

■ 18.6995, 0.3910,  
0.4054

■ 13.7135, 0.4794,  
0.4521

■ 19.9428, 0.3715,  
0.3885

■ 13.3061, 0.4862,  
0.4521

■ 21.2760, 0.3530,  
0.3710

■ 22.7016, 0.3358,  
0.3537

■ 24.2224, 0.3200,  
0.3370

■ 25.8409, 0.3056,  
0.3211

■ 27.5594, 0.2927,  
0.3062

■ 29.3801, 0.2811,  
0.2924

# Harmonies

## Analogous

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



16.4690, 0.4597, 0.3835



16.4690, 0.4305, 0.4345



16.4690, 0.3713, 0.4648

# Triad

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



16.4690, 0.4305, 0.4345



16.4690, 0.1956, 0.3075



16.4690, 0.3113, 0.2386

# Complementary

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



16.4690, 0.4305, 0.4345



7.6032, 0.2048, 0.1872

# 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.



16.4690, 0.2442, 0.2180



16.4690, 0.4305, 0.4345



16.4690, 0.1841, 0.2491

# Square

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



16.4690, 0.4305, 0.4345



16.4690, 0.2361, 0.3860



16.4690, 0.2007, 0.2202



16.4690, 0.3875, 0.2776



# Rectangle

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



16.4690, 0.4305, 0.4345



16.4690, 0.3240, 0.4610



16.4690, 0.2007, 0.2202



16.4690, 0.2869, 0.2295

# Sweetspot

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



16.4698, 0.4305, 0.4345



39.4999, 0.3434, 0.3614



7.9572, 0.4469, 0.2804



8.7176, 0.3477, 0.3657



69.2071, 0.3127, 0.3290



10.0482, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



16.4698, 0.4305, 0.4345



26.9209, 0.4572, 0.4481



22.1428, 0.3796, 0.4854



5.5841, 0.3265, 0.3439



12.4190, 0.4860, 0.4523



0.1088, 0.4499, 0.4810



# Inverse Universe

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



7.6032, 0.2048, 0.1872



9.8661, 0.1835, 0.1505



5.0223, 0.2086, 0.1359



5.1323, 0.2991, 0.3136



3.3172, 0.1633, 0.1078



0.0460, 0.1856, 0.1883



# Previews

## White Background



This preview shows how the Yxy color 16.4690, 0.4305, 0.4345 looks on a white 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 × Fail



# Black Background



This preview shows how the Yxy color 16.4690, 0.4305, 0.4345 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

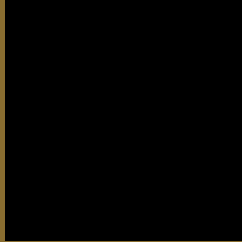
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 16.4690, 0.4305, 0.4345**

## **Background**



This preview shows how black text looks on a background with the Yxy color 16.4690, 0.4305, 0.4345.



This preview shows how white text looks on a background with the Yxy color 16.4690, 0.4305, 0.4345.

# 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

16.4690, 0.4305, 0.4345

### Protanopia

16.4676, 0.4091, 0.4472

### Deuteranopia

16.5140, 0.4360, 0.4309



## Tritanopia

16.3793, 0.3598, 0.3148

# Trichromacy



## Original Color

16.4690, 0.4305, 0.4345

## Protanomaly

16.5559, 0.4160, 0.4428

## Deuteranomaly

16.4275, 0.4346, 0.4316

## Tritanomaly

16.3667, 0.3891, 0.3621

# Monochromacy



## Original Color

16.4690, 0.4305, 0.4345

## Achromatopsia

15.5926, 0.3127, 0.3290

## Achromatomaly

15.8331, 0.3568, 0.3756

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 16.4690, 0.4305, 0.4345 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(137, 109, 48)` looks like.

```
.text, #text, p{  
    color:rgb(137, 109, 48)  
}
```

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(137, 109, 48) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 109, 48) }
```

## Border

The CSS property to change the border of an element to Yxy 16.4690, 0.4305, 0.4345 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(137, 109, 48) }
```

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

```
.border{ border-color:rgb(137, 109, 48) }
```

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

Here you see how a box with a 4 pixel `rgb(137, 109, 48)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 109, 48); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 109, 48);  
box-shadow:4px 4px 4px 4px rgb(137, 109,  
48) }
```



# Background

The CSS property to change the background color of an element to Yxy 16.4690, 0.4305, 0.4345 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 109, 48) }
```

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

```
.background{ background-color: rgb(137,  
109, 48) }
```

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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