

# Converting Colors

$Y_{xy}(46.5333, 0.3812, 0.4422)$

Have a look what the booklet for  
Yxy(46.5333, 0.3812, 0.4422)  
contains.

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# Color

**Yxy(46.4578, 0.3809, 0.4417)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BABA63
RGB	186, 186, 99
RGB Percent	73%, 73%, 39%
CMY	0.2705, 0.2706, 0.6118
CMYK	0.00, 0.00, 0.47, 0.27
HSL	60°, 39%, 56%
HSV	60°, 47%, 73%
XYZ	40.0629, 46.4578, 18.6588
YIQ	176.0820, 27.9270, -27.0570

# Conversions

## Conversions Part 2

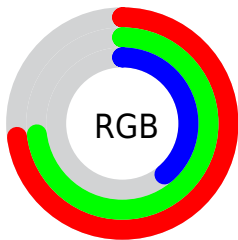
Format	Color
<b>RYB</b>	99, 186, 99
Decimal	12237411
CIELab	73.84, -12.36, 43.81
CIELCh	74, 45.520, 105.752
Yxy	46.4578, 0.3809, 0.4417
Android (android.graphics.Color)	4290427491 (0xFFBABA63)
YUV	176.0820, -38.0014, 8.6981
Hunter-Lab	68.1600, -14.3617, 31.4813

# Details

The Yxy color **46.4578, 0.3809, 0.4417** is a light color, and the websafe version is hex **CCCC66**. A complement of this color would be **15.1235, 0.2253, 0.1844**, and the grayscale version is **43.6539, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.0044, 0.3701, 0.4210**, and **21.8221, 0.3955, 0.4716** is the 20% darker color. If you saturate the color by 10%, you get **46.1432, 0.3931, 0.4618**, and if you desaturate by 10%, it is **46.8586, 0.3672, 0.4191**.

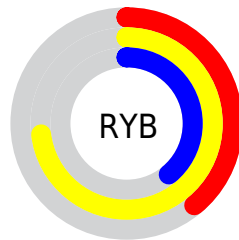
# Distribution



Red (73%)

Green (73%)

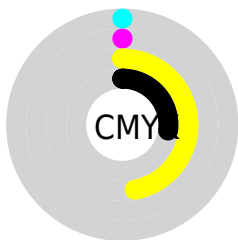
Blue (39%)



Red (39%)

Yellow (73%)

Blue (39%)

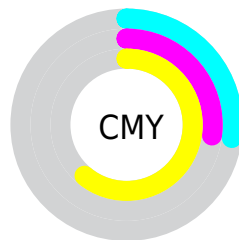


Cyan (0%)

Magenta (0%)

Yellow (47%)

Black (27%)



Cyan (27%)

Magenta (27%)


Yellow (61%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.4578, 0.3809, 0.4417 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 46.4578, 0.3809, 0.4417 by changing the saturation by 10% instead.




 46.4578, 0.3809,  
0.4417

 46.4578, 0.3809,  
0.4417


372.6461, 0.3490,  
0.3853

 32.6072, 0.3877,  
0.4552


 84.9037, 0.3701,  
0.4215

 21.8257, 0.3956,  
0.4720


 110.2679, 0.3658,  
0.4138

 13.7289, 0.4045,  
0.4932


 140.2387, 0.3620,  
0.4073

 7.9324, 0.4136,  
0.5198

 175.2005, 0.3587,  
0.4016

 4.0517, 0.4317,  
0.5683

215.5377, 0.3559,  
0.3968

 1.7025, 0.4125,  
0.5875

261.6348, 0.3533,

 0.4253, 0.1943,

0.3925

0.8057

313.8762, 0.3510,  
0.3887

0.0000, 0.0000,  
0.0000

46.4578, 0.3809,  
0.4417

46.4578, 0.3809,  
0.4417

46.1432, 0.3931,  
0.4618

46.8586, 0.3672,  
0.4191

45.9027, 0.4032,  
0.4785

47.3444, 0.3526,  
0.3949

45.7319, 0.4109,  
0.4912


47.9220, 0.3375,  
0.3700


45.6235, 0.4160,  
0.4997


48.5959, 0.3226,  
0.3453

45.5672, 0.4187,  
0.5042

49.3701, 0.3081,  
0.3214

 45.5538, 0.4193,  
0.5052

 50.2485, 0.2944,  
0.2987

 51.2349, 0.2815,  
0.2775

 52.3326, 0.2697,  
0.2579

 52.7882, 0.2654,  
0.2508

# Harmonies

## Analogous

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



46.4578, 0.4254, 0.4109



46.4578, 0.3809, 0.4417



46.4578, 0.3206, 0.4392

# Triad

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



46.4578, 0.3809, 0.4417



46.4578, 0.2005, 0.2727



46.4578, 0.3593, 0.2735

# Complementary

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



46.4578, 0.3809, 0.4417



15.1235, 0.2253, 0.1844

# 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.



46.4578, 0.2943, 0.2429



46.4578, 0.3809, 0.4417



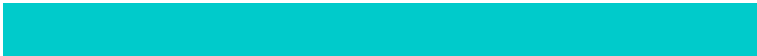
46.4578, 0.2082, 0.2393

# Square

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



46.4578, 0.3809, 0.4417



46.4578, 0.2185, 0.3296



46.4578, 0.2405, 0.2303



46.4578, 0.4149, 0.3165



# Rectangle

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



46.4578, 0.3809, 0.4417



46.4578, 0.2799, 0.4138



46.4578, 0.2405, 0.2303



46.4578, 0.3375, 0.2616

# Sweetspot

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



46.4599, 0.3809, 0.4417



87.1427, 0.3337, 0.3637



20.2927, 0.4361, 0.3273



19.1349, 0.3370, 0.3691



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290



# Same Dimension

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



46.4599, 0.3809, 0.4417



83.6172, 0.3932, 0.4621



41.9492, 0.3421, 0.4584



10.5032, 0.3264, 0.3516



30.6426, 0.4193, 0.5052



1.0803, 0.4193, 0.5052



# Inverse Universe

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



15.1235, 0.2253, 0.1844



19.9600, 0.2039, 0.1491



18.1364, 0.2668, 0.1990



8.7197, 0.2984, 0.3054



2.3855, 0.1500, 0.0600



0.0842, 0.1500, 0.0601



# Previews

## White Background



This preview shows how the Yxy color 46.4578, 0.3809, 0.4417 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

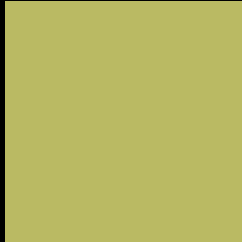
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.4578, 0.3809, 0.4417 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

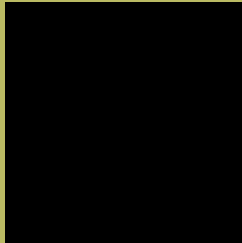
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 46.4578, 0.3809, 0.4417**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.4578, 0.3809, 0.4417.



This preview shows how white text looks on a background with the Yxy color 46.4578, 0.3809, 0.4417.

# 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

46.4578, 0.3809, 0.4417

### Protanopia

46.5983, 0.3978, 0.4341

### Deuteranopia

46.2186, 0.4196, 0.4113



## Tritanopia

46.5041, 0.3188, 0.3115

# Trichromacy



## Original Color

46.4578, 0.3809, 0.4417

## Protanomaly

46.3509, 0.3918, 0.4360

## Deuteranomaly

46.1903, 0.4049, 0.4223

## Tritanomaly

46.2833, 0.3424, 0.3590

# Monochromacy



## Original Color

46.4578, 0.3809, 0.4417

## Achromatopsia

43.4154, 0.3127, 0.3290

## Achromatomaly

44.4839, 0.3390, 0.3724

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.4578, 0.3809, 0.4417 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(186, 186, 99)` looks like.

```
.text, #text, p{  
    color:rgb(186, 186, 99)  
}
```

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(186, 186, 99) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(186, 186, 99) }
```

## Border

The CSS property to change the border of an element to Yxy 46.4578, 0.3809, 0.4417 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(186, 186, 99) }
```

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

```
.border{ border-color:rgb(186, 186, 99) }
```

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

Here you see how a box with a 4 pixel `rgb(186, 186, 99)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(186, 186, 99); -webkit-box-  
shadow:4px 4px 4px 4px rgb(186, 186, 99);  
box-shadow:4px 4px 4px 4px rgb(186, 186,  
99) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.4578, 0.3809, 0.4417 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(186, 186, 99) }
```

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

```
.background{ background-color: rgb(186,  
186, 99) }
```

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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