

# Converting Colors

$Y_{xy}(46.6053, 0.4175, 0.3782)$

Have a look what the booklet for  
Yxy(46.6053, 0.4175, 0.3782)  
contains.

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# Color

**Yxy(46.5599, 0.4176, 0.3788)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	EAA77B
RGB	234, 167, 123
RGB Percent	92%, 65%, 48%
CMY	0.0823, 0.3451, 0.5176
CMYK	0.00, 0.29, 0.47, 0.08
HSL	24°, 73%, 70%
HSV	24°, 47%, 92%
XYZ	51.3290, 46.5599, 25.0253
YIQ	182.0170, 54.0560, 0.5200

# Conversions

## Conversions Part 2

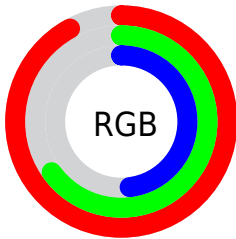
Format	Color
<a href="#">RYB</a>	<a href="#">234, 196, 123</a>
Decimal	<a href="#">15378299</a>
CIELab	<a href="#">73.91, 19.64, 32.50</a>
CIELCh	<a href="#">74, 37.976, 58.857</a>
Yxy	<a href="#">46.5599, 0.4176, 0.3788</a>
Android (android.graphics.Color)	<a href="#">4293568379</a> ( <a href="#">0xFFEAA77B</a> )
YUV	<a href="#">182.0170, -29.0954, 45.5891</a>
Hunter-Lab	<a href="#">68.2348, 14.8639, 26.0196</a>

# Details

The Yxy color **46.5599, 0.4176, 0.3788** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **46.9919, 0.2393, 0.2714**, and the grayscale version is **46.9303, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.6371, 0.3691, 0.3762**, and **21.9726, 0.4473, 0.3894** is the 20% darker color. If you saturate the color by 10%, you get **41.1475, 0.4484, 0.3877**, and if you desaturate by 10%, it is **52.6824, 0.3896, 0.3684**.

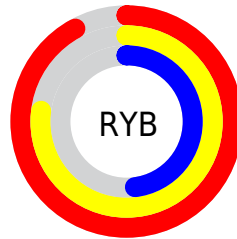
# Distribution



Red (92%)

Green (65%)

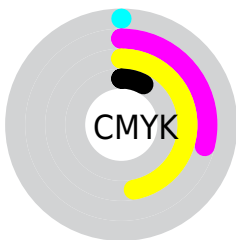
Blue (48%)



Red (92%)

Yellow (77%)

Blue (48%)

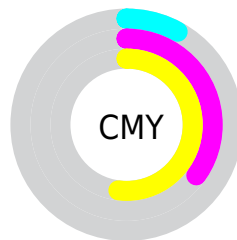


Cyan (0%)

Magenta (29%)

Yellow (47%)

Black (8%)



Cyan (8%)

Magenta (35%)


Yellow (52%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.5599, 0.4176, 0.3788 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 46.5599, 0.4176, 0.3788 by changing the saturation by 10% instead.





 46.5599, 0.4176,  
0.3788


 46.5599, 0.4176,  
0.3788


373.0551, 0.3652,  
0.3564


 32.6879, 0.4304,  
0.3834


 85.0563, 0.3987,  
0.3714

 21.8874, 0.4465,  
0.3887


 110.4495, 0.3916,  
0.3684

 13.7742, 0.4672,  
0.3945


 140.4519, 0.3855,  
0.3657

 7.9638, 0.4946,  
0.4004

175.4478, 0.3803,  
0.3634

 4.0718, 0.5335,  
0.4058

215.8217, 0.3757,  
0.3614

 1.7138, 0.5926,  
0.4074

261.9579, 0.3718,

 0.4326, 0.6733,

0.3595

0.3267

314.2409, 0.3683,  
0.3579

0.0000, 0.0000,  
0.0000

46.5599, 0.4176,  
0.3788

46.5599, 0.4176,  
0.3788

41.1475, 0.4484,  
0.3877

52.6824, 0.3896,  
0.3684

36.4103, 0.4809,  
0.3940

59.5347, 0.3648,  
0.3575

32.3198, 0.5132,  
0.3963

67.1438, 0.3433,  
0.3467

28.8425, 0.5429,  
0.3935

75.5335, 0.3247,  
0.3363

25.9391, 0.5675,  
0.3855

84.7263, 0.3089,  
0.3266

■ 25.2759, 0.5732,  
0.3830

■ 94.1892, 0.2999,  
0.3258

■ 96.2342, 0.2999,  
0.3290

# Harmonies

## Analogous

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



46.5599, 0.4106, 0.3375



46.5599, 0.4176, 0.3788



46.5599, 0.3943, 0.4124

# Triad

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



46.5599, 0.4176, 0.3788



46.5599, 0.2518, 0.3609



46.5599, 0.2701, 0.2474

# Complementary

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



46.5599, 0.4176, 0.3788



46.9919, 0.2393, 0.2714

# 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.



46.5599, 0.2336, 0.2472



46.5599, 0.4176, 0.3788



46.5599, 0.2235, 0.3078

# Square

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



46.5599, 0.4176, 0.3788



46.5599, 0.2976, 0.4072



46.5599, 0.2174, 0.2673



46.5599, 0.3212, 0.2654



# Rectangle

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



46.5599, 0.4176, 0.3788



46.5599, 0.3662, 0.4244



46.5599, 0.2174, 0.2673



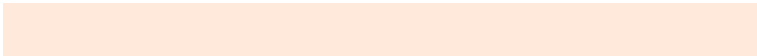
46.5599, 0.2559, 0.2452

# Sweetspot

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



46.5622, 0.4176, 0.3788



84.9214, 0.3367, 0.3431



35.4462, 0.3614, 0.2538



17.7158, 0.3409, 0.3454



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.



46.5622, 0.4176, 0.3788



50.1065, 0.4479, 0.3876



70.6701, 0.3886, 0.4333



16.0334, 0.3283, 0.3384



14.4316, 0.5704, 0.3853



1.3163, 0.5450, 0.4054



# Inverse Universe

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



46.9919, 0.2393, 0.2714



50.6280, 0.2257, 0.2568



27.7519, 0.2255, 0.1967



16.0620, 0.2981, 0.3194



14.3408, 0.1872, 0.1939



1.3130, 0.1929, 0.2145



# Previews

## White Background



This preview shows how the Yxy color 46.5599, 0.4176, 0.3788 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 46.5599, 0.4176, 0.3788 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

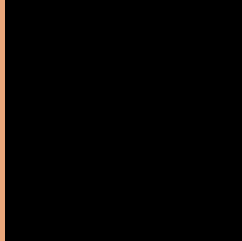
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 46.5599, 0.4176, 0.3788**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.5599, 0.4176, 0.3788.



This preview shows how white text looks on a background with the Yxy color 46.5599, 0.4176, 0.3788.

# 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

46.5599, 0.4176, 0.3788

### Protanopia

46.7766, 0.3691, 0.3973

### Deuteranopia

46.5827, 0.3995, 0.3913



## Tritanopia

46.3359, 0.3760, 0.3146

# Trichromacy



**Original Color**

46.5599, 0.4176, 0.3788

**Protanomaly**

46.6782, 0.3861, 0.3907

**Deuteranomaly**

46.3783, 0.4068, 0.3865

**Tritanomaly**

46.5655, 0.3918, 0.3383

# Monochromacy



**Original Color**

46.5599, 0.4176, 0.3788

**Achromatopsia**

46.7784, 0.3127, 0.3290

**Achromatomaly**

46.4350, 0.3479, 0.3493

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.5599, 0.4176, 0.3788 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(234, 167, 123)` looks like.

```
.text, #text, p{  
    color:rgb(234, 167, 123)  
}
```

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(234, 167, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(234, 167, 123) }
```

## Border

The CSS property to change the border of an element to Yxy 46.5599, 0.4176, 0.3788 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(234, 167, 123) }
```

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

```
.border{ border-color:rgb(234, 167, 123) }
```

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

Here you see how a box with a 4 pixel `rgb(234, 167, 123)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(234, 167, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(234, 167, 123);  
box-shadow:4px 4px 4px 4px rgb(234, 167,  
123) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.5599, 0.4176, 0.3788 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(234, 167, 123) }
```

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

```
.background{ background-color: rgb(234,  
167, 123) }
```

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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