

# Converting Colors

$Y_{xy}(46.8454, 0.4317, 0.4294)$

Have a look what the booklet for  
Yxy(46.8454, 0.4317, 0.4294)  
contains.

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# Color

**Yxy(46.8454, 0.4317, 0.4294)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DEAF55
RGB	222, 175, 85
RGB Percent	87%, 69%, 33%
CMY	0.1294, 0.3137, 0.6667
CMYK	0.00, 0.21, 0.62, 0.13
HSL	39°, 67%, 60%
HSV	39°, 62%, 87%
XYZ	47.0963, 46.8454, 15.1533
YIQ	178.7930, 56.9020, -18.0260

# Conversions

## Conversions Part 2

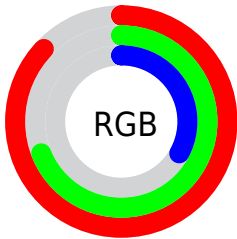
<b>Format</b>	<b>Color</b>
<b>RYB</b>	157, 222, 85
Decimal	14593877
CIELab	74.09, 7.34, 51.68
CIElCh	74, 52.202, 81.922
Yxy	46.8454, 0.4317, 0.4294
Android (android.graphics.Color)	4292783957 (0xFFDEAF55)
YUV	178.7930, -46.2399, 37.8925
Hunter-Lab	68.4437, 3.0499, 34.7839

# Details

The Yxy color **46.8454, 0.4317, 0.4294** is a light color, and the websafe version is hex **CC9933**. The color can be described as light muted orange. A complement of this color would be **23.7104, 0.2077, 0.1955**, and the grayscale version is **45.1930, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.6598, 0.3921, 0.4218**, and **22.0623, 0.4581, 0.4499** is the 20% darker color. If you saturate the color by 10%, you get **43.6663, 0.4522, 0.4397**, and if you desaturate by 10%, it is **50.3069, 0.4103, 0.4157**.

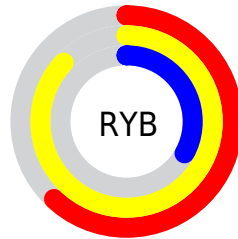
# Distribution



Red (87%)

Green (69%)

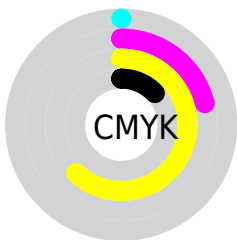
Blue (33%)



Red (62%)

Yellow (87%)

Blue (33%)

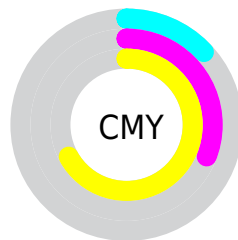


Cyan (0%)

Magenta (21%)

Yellow (62%)

Black (13%)



Cyan (13%)

Magenta (31%)


Yellow (67%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.8454, 0.4317, 0.4294 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 46.8454, 0.4317, 0.4294 by changing the saturation by 10% instead.





 46.8454, 0.4317,  
0.4294

 46.8454, 0.4317,  
0.4294


374.1971, 0.3748,  
0.3834

 32.9135, 0.4442,  
0.4388


 85.4828, 0.4121,  
0.4141


 22.0602, 0.4590,  
0.4493

 110.9571, 0.4044,  
0.4079

 13.9011, 0.4762,  
0.4607


 141.0475, 0.3978,  
0.4025

 8.0519, 0.4974,  
0.4734

 176.1386, 0.3920,  
0.3977

 4.1282, 0.5185,  
0.4815

 216.6147, 0.3869,  
0.3935

 1.7455, 0.5285,  
0.4715

262.8603, 0.3824,

 0.4529, 0.5737,

0.3898

0.4263

315.2596, 0.3784,  
0.3864

0.0000, 0.0000,  
0.0000

46.8454, 0.4317,  
0.4294

46.8454, 0.4317,  
0.4294

43.6663, 0.4522,  
0.4397

50.3069, 0.4103,  
0.4157

40.7495, 0.4707,  
0.4456

54.0562, 0.3889,  
0.3998

38.0814, 0.4863,  
0.4463

58.1064, 0.3683,  
0.3827

36.0392, 0.4970,  
0.4436

62.4677, 0.3490,  
0.3653

67.1497, 0.3313,  
0.3481

■ 72.1613, 0.3153,  
0.3317

■ 77.5111, 0.3009,  
0.3163

■ 82.7074, 0.2924,  
0.3094

■ 87.1863, 0.2926,  
0.3173

# Harmonies

## Analogous

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



46.8454, 0.4572, 0.3788



46.8454, 0.4317, 0.4294



46.8454, 0.3754, 0.4610

# Triad

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



46.8454, 0.4317, 0.4294



46.8454, 0.1998, 0.3135



46.8454, 0.3059, 0.2380

# Complementary

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



46.8454, 0.4317, 0.4294



23.7104, 0.2077, 0.1955

# 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.



46.8454, 0.2415, 0.2194



46.8454, 0.4317, 0.4294



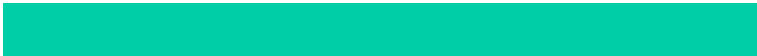
46.8454, 0.1863, 0.2541

# Square

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



46.8454, 0.4317, 0.4294



46.8454, 0.2418, 0.3905



46.8454, 0.2006, 0.2235



46.8454, 0.3806, 0.2752



# Rectangle

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



46.8454, 0.4317, 0.4294



46.8454, 0.3294, 0.4596



46.8454, 0.2006, 0.2235



46.8454, 0.2824, 0.2295

# Sweetspot

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



46.8477, 0.4317, 0.4294



87.1116, 0.3443, 0.3608



23.7202, 0.4368, 0.2755



18.2607, 0.3496, 0.3658



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.



46.8477, 0.4317, 0.4294



58.5950, 0.4578, 0.4419



65.3854, 0.3826, 0.4814



15.1963, 0.3276, 0.3444



21.6187, 0.4956, 0.4447



1.6631, 0.4808, 0.4564



# Inverse Universe

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



23.7104, 0.2077, 0.1955



24.6330, 0.1884, 0.1632



14.8080, 0.2068, 0.1372



14.0083, 0.2981, 0.3132



6.4031, 0.1642, 0.1111



0.6065, 0.1728, 0.1421



# Previews

## White Background



This preview shows how the Yxy color 46.8454, 0.4317, 0.4294 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

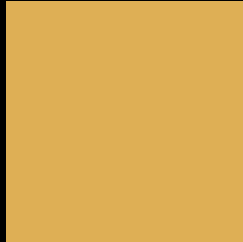
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.8454, 0.4317, 0.4294 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 46.8454, 0.4317, 0.4294**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.8454, 0.4317, 0.4294.



This preview shows how white text looks on a background with the Yxy color 46.8454, 0.4317, 0.4294.

# 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

46.8454, 0.4317, 0.4294

### Protanopia

47.1116, 0.4059, 0.4446

### Deuteranopia

46.9355, 0.4352, 0.4271



## Tritanopia

46.7826, 0.3613, 0.3142

# Trichromacy



**Original Color**

46.8454, 0.4317, 0.4294

**Protanomaly**

46.8697, 0.4152, 0.4393

**Deuteranomaly**

46.7753, 0.4343, 0.4275

**Tritanomaly**

46.5583, 0.3896, 0.3586

# Monochromacy



**Original Color**

46.8454, 0.4317, 0.4294

**Achromatopsia**

45.0786, 0.3127, 0.3290

**Achromatomaly**

45.4872, 0.3560, 0.3719

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.8454, 0.4317, 0.4294 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(222, 175, 85)` looks like.

```
.text, #text, p{  
    color:rgb(222, 175, 85)  
}
```

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(222, 175, 85) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 175, 85) }
```

## Border

The CSS property to change the border of an element to Yxy 46.8454, 0.4317, 0.4294 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(222, 175, 85) }
```

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

```
.border{ border-color:rgb(222, 175, 85) }
```

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

Here you see how a box with a 4 pixel `rgb(222, 175, 85)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 175, 85); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 175, 85);  
box-shadow:4px 4px 4px 4px rgb(222, 175,  
85) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.8454, 0.4317, 0.4294 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 175, 85) }
```

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

```
.background{ background-color: rgb(222,  
175, 85) }
```

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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