

# Converting Colors

$Y_{xy}(45.6948, 0.4050, 0.3948)$

Have a look what the booklet for  
Yxy(45.6948, 0.4050, 0.3948)  
contains.

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# **Color**

**Yxy(45.6948, 0.4050, 0.3948)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DAAC75
RGB	218, 172, 117
RGB Percent	85%, 67%, 46%
CMY	0.1451, 0.3255, 0.5413
CMYK	0.00, 0.21, 0.46, 0.15
HSL	33°, 58%, 66%
HSV	33°, 46%, 85%
XYZ	46.8754, 45.6948, 23.1715
YIQ	179.4840, 45.0710, -7.3530

# Conversions

## Conversions Part 2

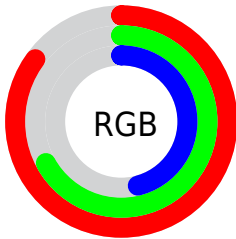
Format	Color
R <sub>Y</sub> B	201, 218, 117
Decimal	14330997
CIE Lab	73.35, 9.92, 34.64
CIE LCh	73, 36.033, 74.018
Yxy	45.6948, 0.4050, 0.3948
Android (android.graphics.Color)	4292521077 (0xFFDAAC75)
YUV	179.4840, -30.8046, 33.7785
Hunter-Lab	67.5979, 5.4833, 26.9949

# Details

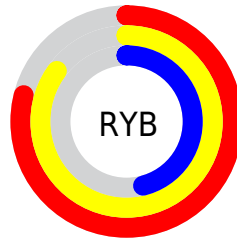
The Yxy color **45.6948, 0.4050, 0.3948** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **35.0252, 0.2372, 0.2512**, and the grayscale version is **45.5010, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.1004, 0.3717, 0.3871**, and **21.4274, 0.4294, 0.4097** is the 20% darker color. If you saturate the color by 10%, you get **41.6046, 0.4301, 0.4074**, and if you desaturate by 10%, it is **50.1909, 0.3813, 0.3807**.

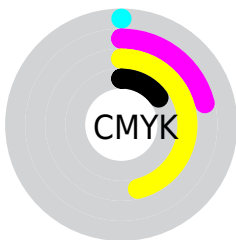
# Distribution



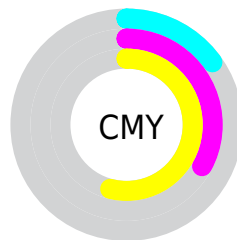
- Red (85%)
- Green (67%)
- Blue (46%)



- Red (79%)
- Yellow (85%)
- Blue (46%)



- Cyan (0%)
- Magenta (21%)
- Yellow (46%)
- Black (15%)




- Cyan (15%)
- Magenta (33%)
- Yellow (54%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.6948, 0.4050, 0.3948 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 45.6948, 0.4050, 0.3948 by changing the saturation by 10% instead.





 45.6948, 0.4050,  
0.3948

 45.6948, 0.4050,  
0.3948


369.5803, 0.3591,  
0.3636

 32.0050, 0.4161,  
0.4018


 83.7621, 0.3886,  
0.3840

 21.3654, 0.4299,  
0.4101


 108.9083, 0.3823,  
0.3798

 13.3913, 0.4476,  
0.4201


 138.6423, 0.3770,  
0.3762

 7.6986, 0.4704,  
0.4317

173.3482, 0.3724,  
0.3730

 3.9027, 0.5060,  
0.4489

213.4106, 0.3684,  
0.3702

 1.6193, 0.5438,  
0.4562

259.2138, 0.3649,

 0.3705, 0.6160,

0.3678

0.3840

311.1423, 0.3619,  
0.3656

0.0000, 0.0000,  
0.0000

45.6948, 0.4050,  
0.3948

45.6948, 0.4050,  
0.3948

41.6046, 0.4301,  
0.4074

50.1909, 0.3813,  
0.3807

37.8992, 0.4558,  
0.4175

55.0999, 0.3596,  
0.3660

34.5651, 0.4808,  
0.4236

60.4367, 0.3400,  
0.3515

31.5844, 0.5035,  
0.4248

66.2133, 0.3226,  
0.3375

28.9365, 0.5226,  
0.4205

72.4413, 0.3073,  
0.3243

■ 28.0401, 0.5291,  
0.4181

■ 79.1316, 0.2939,  
0.3120

■ 85.3200, 0.2901,  
0.3150

■ 91.3723, 0.2904,  
0.3253

■ 93.6452, 0.2906,  
0.3289

# Harmonies

## Analogous

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



45.6948, 0.4134, 0.3578



45.6948, 0.4050, 0.3948



45.6948, 0.3712, 0.4184

# Triad

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



45.6948, 0.4050, 0.3948



45.6948, 0.2382, 0.3334



45.6948, 0.2956, 0.2575

# Complementary

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



45.6948, 0.4050, 0.3948



35.0252, 0.2372, 0.2512

# 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.



45.6948, 0.2524, 0.2483



45.6948, 0.4050, 0.3948



45.6948, 0.2215, 0.2872

# Square

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



45.6948, 0.4050, 0.3948



45.6948, 0.2747, 0.3834



45.6948, 0.2265, 0.2577



45.6948, 0.3473, 0.2822



# Rectangle

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



45.6948, 0.4050, 0.3948



45.6948, 0.3400, 0.4203



45.6948, 0.2265, 0.2577



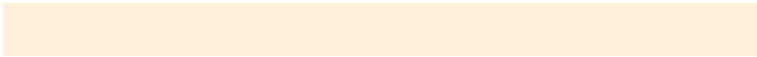
45.6948, 0.2797, 0.2525

# Sweetspot

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



45.6970, 0.4050, 0.3948



87.9754, 0.3360, 0.3483



30.3072, 0.3779, 0.2728



18.4579, 0.3399, 0.3514



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.



45.6970, 0.4050, 0.3948



59.2565, 0.4305, 0.4076



65.8170, 0.3782, 0.4430



14.2211, 0.3278, 0.3417



17.0171, 0.5270, 0.4197



1.2739, 0.5047, 0.4374

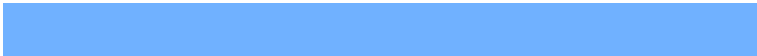


# Inverse Universe

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



35.0252, 0.2372, 0.2512



42.2055, 0.2210, 0.2302



21.7969, 0.2277, 0.1851



13.5888, 0.2982, 0.3159



8.6162, 0.1733, 0.1440

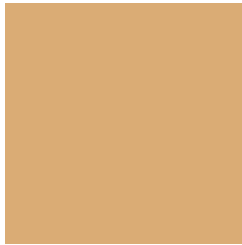


0.7290, 0.1820, 0.1752



# Previews

## White Background



This preview shows how the Yxy color 45.6948, 0.4050, 0.3948 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

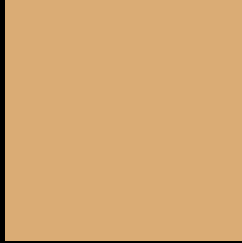
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.6948, 0.4050, 0.3948 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

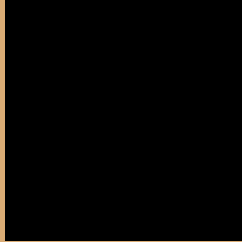
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.6948, 0.4050, 0.3948**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.6948, 0.4050, 0.3948.



This preview shows how white text looks on a background with the Yxy color 45.6948, 0.4050, 0.3948.

# 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

45.6948, 0.4050, 0.3948

### Protanopia

45.7343, 0.3773, 0.4063

### Deuteranopia

45.5411, 0.4040, 0.3950



## Tritanopia

45.5725, 0.3578, 0.3139

# Trichromacy



## Original Color

45.6948, 0.4050, 0.3948

## Protanomaly

45.6136, 0.3872, 0.4019

## Deuteranomaly

45.5411, 0.4040, 0.3950

## Tritanomaly

45.5336, 0.3761, 0.3435

# Monochromacy



## Original Color

45.6948, 0.4050, 0.3948

## Achromatopsia

45.0786, 0.3127, 0.3290

## Achromatomaly

44.7884, 0.3451, 0.3552

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.6948, 0.4050, 0.3948 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(218, 172, 117)` looks like.

```
.text, #text, p{  
    color:rgb(218, 172, 117)  
}
```

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(218, 172, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(218, 172, 117) }
```

## Border

The CSS property to change the border of an element to Yxy 45.6948, 0.4050, 0.3948 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(218, 172, 117) }
```

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

```
.border{ border-color:rgb(218, 172, 117) }
```

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

Here you see how a box with a 4 pixel `rgb(218, 172, 117)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(218, 172, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(218, 172, 117);  
box-shadow:4px 4px 4px 4px rgb(218, 172,  
117) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.6948, 0.4050, 0.3948 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(218, 172, 117) }
```

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

```
.background{ background-color: rgb(218,  
172, 117) }
```

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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