

# Converting Colors

$Yxy(45.7841, 0.3897, 0.3687)$

Have a look what the booklet for  
Yxy(45.7841, 0.3897, 0.3687)  
contains.

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# Color

**Yxy(45.7712, 0.3900, 0.3687)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DCAA89
RGB	220, 170, 137
RGB Percent	86%, 67%, 54%
CMY	0.1371, 0.3334, 0.4627
CMYK	0.00, 0.23, 0.38, 0.14
HSL	24°, 54%, 70%
HSV	24°, 38%, 86%
XYZ	48.4154, 45.7712, 29.9555
YIQ	181.1880, 40.3930, 0.3370

# Conversions

## Conversions Part 2

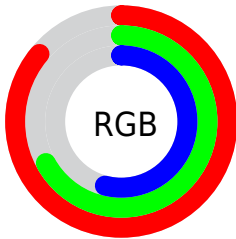
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	220, 192, 137
Decimal	14461577
CIE Lab	73.40, 13.99, 24.05
CIE LCh	73, 27.826, 59.825
Yxy	45.7712, 0.3900, 0.3687
Android (android.graphics.Color)	4292651657 (0xFFDCAA89)
YUV	181.1880, -21.7847, 34.0381
Hunter-Lab	67.6544, 9.3445, 21.1061

# Details

The Yxy color **45.7712, 0.3900, 0.3687** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **46.0599, 0.2540, 0.2851**, and the grayscale version is **46.4222, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.8720, 0.3577, 0.3637**, and **21.4315, 0.4113, 0.3782** is the 20% darker color. If you saturate the color by 10%, you get **40.4799, 0.4179, 0.3790**, and if you desaturate by 10%, it is **51.6975, 0.3653, 0.3578**.

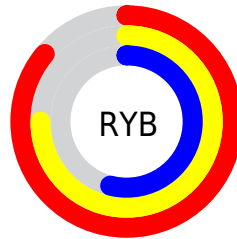
# Distribution



Red (86%)

Green (67%)

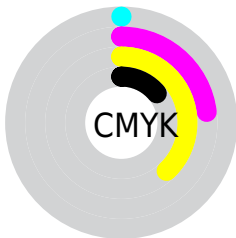
Blue (54%)



Red (86%)

Yellow (75%)

Blue (54%)

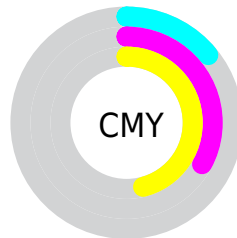


Cyan (0%)

Magenta (23%)

Yellow (38%)

Black (14%)



Cyan (14%)

Magenta (33%)

Yellow (46%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.7712, 0.3900, 0.3687 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 45.7712, 0.3900, 0.3687 by changing the saturation by 10% instead.





 45.7712, 0.3900,  
0.3687

 45.7712, 0.3900,  
0.3687


369.8880, 0.3511,  
0.3500


 32.0653, 0.3997,  
0.3729


 83.8765, 0.3758,  
0.3622

 21.4114, 0.4121,  
0.3780


 109.0446, 0.3705,  
0.3597

 13.4250, 0.4284,  
0.3842


 138.8024, 0.3660,  
0.3575

 7.7219, 0.4507,  
0.3918

173.5340, 0.3622,  
0.3556

 3.9175, 0.4824,  
0.4002

213.6240, 0.3588,  
0.3540

 1.6275, 0.5655,  
0.4345

259.4568, 0.3559,

 0.3760, 0.6502,

0.3525

0.3498

311.4166, 0.3533,  
0.3512

0.0000, 0.0000,  
0.0000

45.7712, 0.3900,  
0.3687

45.7712, 0.3900,  
0.3687

40.4799, 0.4179,  
0.3790

51.6975, 0.3653,  
0.3578

35.7945, 0.4486,  
0.3879

58.2737, 0.3437,  
0.3470

31.6928, 0.4810,  
0.3942

65.5223, 0.3252,  
0.3366

28.1486, 0.5131,  
0.3964

73.4626, 0.3093,  
0.3268

25.1331, 0.5427,  
0.3937

82.1132, 0.2957,  
0.3178

■ 22.6117, 0.5672,  
0.3858

■ 90.5541, 0.2916,  
0.3234

■ 22.1006, 0.5724,  
0.3837

■ 93.9621, 0.2917,  
0.3289

# Harmonies

## Analogous

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



45.7712, 0.3851, 0.3377



45.7712, 0.3900, 0.3687



45.7712, 0.3729, 0.3921

# Triad

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



45.7712, 0.3900, 0.3687



45.7712, 0.2667, 0.3514



45.7712, 0.2824, 0.2673

# Complementary

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



45.7712, 0.3900, 0.3687



46.0599, 0.2540, 0.2851

# 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.



45.7712, 0.2539, 0.2673



45.7712, 0.3900, 0.3687



45.7712, 0.2452, 0.3133

# Square

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



45.7712, 0.3900, 0.3687



45.7712, 0.3011, 0.3843



45.7712, 0.2408, 0.2830



45.7712, 0.3208, 0.2815



# Rectangle

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



45.7712, 0.3900, 0.3687



45.7712, 0.3522, 0.3992



45.7712, 0.2408, 0.2830



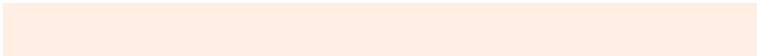
45.7712, 0.2714, 0.2656

# Sweetspot

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



45.7734, 0.3900, 0.3687



88.0043, 0.3311, 0.3400



36.7582, 0.3482, 0.2691



18.5377, 0.3336, 0.3414



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.



45.7734, 0.3900, 0.3687



58.2026, 0.4111, 0.3767



63.2975, 0.3729, 0.4128



13.8958, 0.3282, 0.3383



13.1690, 0.5697, 0.3859



1.0186, 0.5398, 0.4096

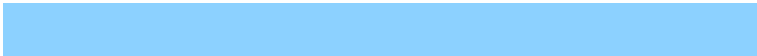


# Inverse Universe

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



46.0599, 0.2540, 0.2851



58.6297, 0.2425, 0.2744



31.2643, 0.2457, 0.2284



13.9166, 0.2982, 0.3195



13.0423, 0.1872, 0.1940



1.0115, 0.1940, 0.2184



# Previews

## White Background



This preview shows how the Yxy color 45.7712, 0.3900, 0.3687 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

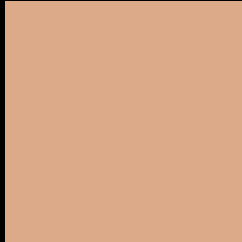
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.7712, 0.3900, 0.3687 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

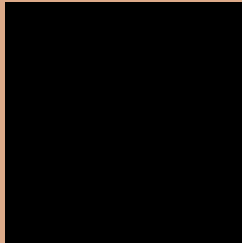
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.7712, 0.3900, 0.3687**

## Background



This preview shows how black text looks on a background with the Yxy color 45.7712, 0.3900, 0.3687.



This preview shows how white text looks on a background with the Yxy color 45.7712, 0.3900, 0.3687.

# 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

45.7712, 0.3900, 0.3687

### Protanopia

45.8020, 0.3551, 0.3788

### Deuteranopia

45.8108, 0.3829, 0.3746



## Tritanopia

45.5725, 0.3578, 0.3139

# Trichromacy



**Original Color**

45.7712, 0.3900, 0.3687

**Protanomaly**

45.5007, 0.3676, 0.3749

**Deuteranomaly**

45.8816, 0.3862, 0.3729

**Tritanomaly**

45.5690, 0.3707, 0.3339

# Monochromacy



**Original Color**

45.7712, 0.3900, 0.3687

**Achromatopsia**

46.2077, 0.3127, 0.3290

**Achromatomaly**

45.7630, 0.3389, 0.3445

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.7712, 0.3900, 0.3687 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(220, 170, 137)` looks like.

```
.text, #text, p{  
    color:rgb(220, 170, 137)  
}
```

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(220, 170, 137) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 170, 137) }
```

## Border

The CSS property to change the border of an element to Yxy 45.7712, 0.3900, 0.3687 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(220, 170, 137) }
```

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

```
.border{ border-color:rgb(220, 170, 137) }
```

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

Here you see how a box with a 4 pixel `rgb(220, 170, 137)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 170, 137); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 170, 137);  
box-shadow:4px 4px 4px 4px rgb(220, 170,  
137) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.7712, 0.3900, 0.3687 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 170, 137) }
```

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

```
.background{ background-color: rgb(220,  
170, 137) }
```

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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