

# Converting Colors

$Y_{xy}(44.8412, 0.4307, 0.4231)$

Have a look what the booklet for  
Yxy(44.8412, 0.4307, 0.4231)  
contains.

|  |    |
|--|----|
| <b>Yxy(45.0460, 0.4308, 0.4234)</b> .....      | 3  |
| <b><i>Conversions</i></b> .....                | 4  |
| <b><i>Details</i></b> .....                    | 6  |
| <b><i>Harmonies</i></b> .....                  | 12 |
| <b><i>Previews</i></b> .....                   | 24 |
| <b><i>Color Blindness Simulation</i></b> ..... | 27 |
| <b><i>CSS Examples</i></b> .....               | 30 |

# Color

**Yxy(45.0460, 0.4308, 0.4234)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | DCAB58                      |
| RGB         | 220, 171, 88                |
| RGB Percent | 86%, 67%, 35%               |
| CMY         | 0.1374, 0.3293, 0.6549      |
| CMYK        | 0.00, 0.22, 0.60, 0.14      |
| HSL         | 38°, 65%, 60%               |
| HSV         | 38°, 60%, 86%               |
| XYZ         | 45.8333, 45.0460, 15.5118   |
| YIQ         | 176.1890, 55.8470, -15.4250 |

# Conversions

## Conversions Part 2

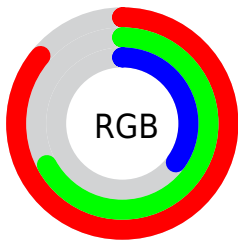
| Format                              | Color                          |
|-------------------------------------|--------------------------------|
| R <sub>Y</sub> B                    | 166, 220, 88                   |
| Decimal                             | 14461784                       |
| CIE Lab                             | 72.92, 8.80, 48.86             |
| CIE LCh                             | 73, 49.645, 79.786             |
| Yxy                                 | 45.0460, 0.4308,<br>0.4234     |
| Android<br>(android.graphics.Color) | 4292651864<br>(0xFFDCAB58)     |
| YUV                                 | 176.1890, -43.4772,<br>38.4222 |
| Hunter-Lab                          | 67.1163, 4.4429,<br>33.2784    |

# Details

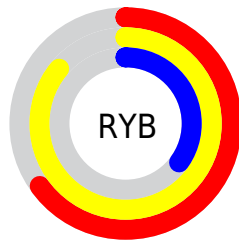
The Yxy color **45.0460, 0.4308, 0.4234** is a light color, and the websafe version is hex **CC9933**. The color can be described as light muted orange. A complement of this color would be **25.1200, 0.2118, 0.2056**, and the grayscale version is **43.7297, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.5462, 0.3920, 0.4155**, and **21.0086, 0.4597, 0.4423** is the 20% darker color. If you saturate the color by 10%, you get **41.7484, 0.4527, 0.4338**, and if you desaturate by 10%, it is **48.6483, 0.4084, 0.4098**.

# Distribution



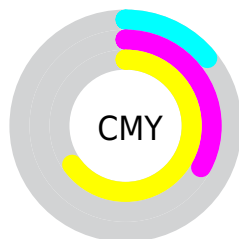
- Red (86%)
- Green (67%)
- Blue (35%)



- Red (65%)
- Yellow (86%)
- Blue (35%)



- Cyan (0%)
- Magenta (22%)
- Yellow (60%)
- Black (14%)




- Cyan (14%)
- Magenta (33%)
- Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.0460, 0.4308, 0.4234 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 45.0460, 0.4308, 0.4234 by changing the saturation by 10% instead.




 45.0460, 0.4308,  
0.4234

 45.0460, 0.4308,  
0.4234


366.9598, 0.3736,  
0.3799

 31.4937, 0.4437,  
0.4324


 82.7894, 0.4109,  
0.4089

 20.9750, 0.4591,  
0.4425


 107.7493, 0.4031,  
0.4030

 13.1058, 0.4774,  
0.4535

 137.2805, 0.3964,  
0.3979

 7.5014, 0.5002,  
0.4655

 171.7674, 0.3906,  
0.3934

 3.7776, 0.5256,  
0.4744

211.5944, 0.3855,  
0.3894

 1.5500, 0.5384,  
0.4616

257.1458, 0.3811,

 0.3235, 0.6176,

0.3859

0.3824

308.8062, 0.3771,  
0.3827

0.0000, 0.0000,  
0.0000

45.0460, 0.4308,  
0.4234

45.0460, 0.4308,  
0.4234

41.7484, 0.4527,  
0.4338

48.6483, 0.4084,  
0.4098

38.7352, 0.4729,  
0.4400

52.5610, 0.3863,  
0.3942

35.9930, 0.4903,  
0.4411

56.7975, 0.3655,  
0.3776

33.4967, 0.5047,  
0.4374

61.3684, 0.3461,  
0.3609

33.4951, 0.5047,  
0.4374

66.2835, 0.3285,  
0.3446

■ 71.5521, 0.3127,  
0.3290

■ 77.1832, 0.2986,  
0.3144

■ 82.5933, 0.2911,  
0.3097

■ 87.4079, 0.2914,  
0.3182

# Harmonies

## Analogous

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



45.0460, 0.4523, 0.3740



45.0460, 0.4308, 0.4234



45.0460, 0.3782, 0.4552

# Triad

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



45.0460, 0.4308, 0.4234



45.0460, 0.2055, 0.3194



45.0460, 0.3013, 0.2389

# Complementary

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



45.0460, 0.4308, 0.4234



25.1200, 0.2118, 0.2056

# 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.



45.0460, 0.2403, 0.2223



45.0460, 0.4308, 0.4234



45.0460, 0.1903, 0.2601

# Square

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



45.0460, 0.4308, 0.4234



45.0460, 0.2483, 0.3932



45.0460, 0.2022, 0.2281



45.0460, 0.3733, 0.2740



# Rectangle

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



45.0460, 0.4308, 0.4234



45.0460, 0.3341, 0.4556



45.0460, 0.2022, 0.2281



45.0460, 0.2789, 0.2311

# Sweetspot

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



45.0482, 0.4308, 0.4234



87.0018, 0.3427, 0.3579



24.0434, 0.4247, 0.2714



18.2047, 0.3482, 0.3627



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.



45.0482, 0.4308, 0.4234



57.2152, 0.4582, 0.4359



64.7949, 0.3848, 0.4758



14.4096, 0.3276, 0.3437



19.8835, 0.5031, 0.4387



1.4510, 0.4859, 0.4524



# Inverse Universe

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



25.1200, 0.2118, 0.2056



27.1873, 0.1929, 0.1749



15.0531, 0.2069, 0.1413



13.4045, 0.2981, 0.3139



6.7360, 0.1663, 0.1188



0.5982, 0.1755, 0.1517



# Previews

## White Background



This preview shows how the Yxy color 45.0460, 0.4308, 0.4234 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 45.0460, 0.4308, 0.4234 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 45.0460, 0.4308, 0.4234**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.0460, 0.4308, 0.4234.



This preview shows how white text looks on a background with the Yxy color 45.0460, 0.4308, 0.4234.

# 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

45.0460, 0.4308, 0.4234

### Protanopia

45.0013, 0.4021, 0.4382

### Deuteranopia

45.2026, 0.4318, 0.4230



## Tritanopia

44.8766, 0.3643, 0.3140

# Trichromacy



**Original Color**

45.0460, 0.4308, 0.4234

**Protanomaly**

44.9107, 0.4125, 0.4326

**Deuteranomaly**

45.2026, 0.4318, 0.4230

**Tritanomaly**

44.7407, 0.3903, 0.3553

# Monochromacy



**Original Color**

45.0460, 0.4308, 0.4234

**Achromatopsia**

43.4154, 0.3127, 0.3290

**Achromatomaly**

43.4922, 0.3552, 0.3687

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.0460, 0.4308, 0.4234 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, 171, 88)` looks like.

```
.text, #text, p{  
    color:rgb(220, 171, 88)  
}
```

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, 171, 88) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 171, 88) }
```

## Border

The CSS property to change the border of an element to Yxy 45.0460, 0.4308, 0.4234 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, 171, 88) }
```

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

```
.border{ border-color:rgb(220, 171, 88) }
```

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

Here you see how a box with a 4 pixel rgb(220, 171, 88) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 171, 88); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 171, 88);  
box-shadow:4px 4px 4px 4px rgb(220, 171,  
88) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.0460, 0.4308, 0.4234 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 171, 88) }
```

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

```
.background{ background-color: rgb(220,  
171, 88) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor