

# Converting Colors

$Y_{xy}(44.9234, 0.4236, 0.3745)$

Have a look what the booklet for  
Yxy(44.9234, 0.4236, 0.3745)  
contains.

<b>Yxy(45.0540, 0.4243, 0.3751)</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(45.0540, 0.4243, 0.3751)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ECA279
RGB	236, 162, 121
RGB Percent	93%, 64%, 47%
CMY	0.0745, 0.3647, 0.5255
CMYK	0.00, 0.31, 0.49, 0.07
HSL	21°, 75%, 70%
HSV	21°, 49%, 93%
XYZ	50.9635, 45.0540, 24.0945
YIQ	179.4520, 57.2650, 2.9370

# Conversions

## Conversions Part 2

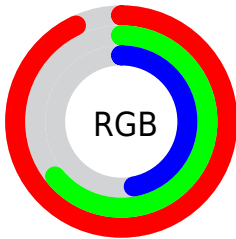
Format	Color
R <sub>Y</sub> B	236, 185, 121
Decimal	15508089
CIE Lab	72.93, 22.90, 32.35
CIE LCh	73, 39.634, 54.713
Yxy	45.0540, 0.4243, 0.3751
Android (android.graphics.Color)	4293698169 (0xFFECA279)
YUV	179.4520, -28.8168, 49.5926
Hunter-Lab	67.1223, 18.0646, 25.7026

# Details

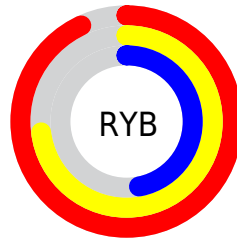
The Yxy color **45.0540, 0.4243, 0.3751** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **49.1426, 0.2386, 0.2756**, and the grayscale version is **45.4679, 0.3127, 0.3290**.

A 20% lighter version of the original color is **73.9417, 0.3721, 0.3733**, and **20.9669, 0.4547, 0.3832** is the 20% darker color. If you saturate the color by 10%, you get **39.5159, 0.4570, 0.3828**, and if you desaturate by 10%, it is **51.3840, 0.3947, 0.3659**.

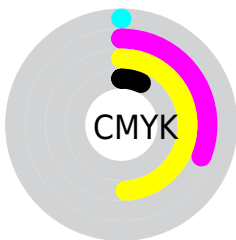
# Distribution



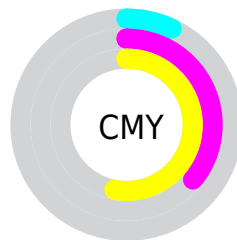
- Red (93%)
- Green (64%)
- Blue (47%)



- Red (93%)
- Yellow (73%)
- Blue (47%)



- Cyan (0%)
- Magenta (31%)
- Yellow (49%)
- Black (7%)




- Cyan (7%)
- Magenta (36%)
- Yellow (53%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.0540, 0.4243, 0.3751 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 45.0540, 0.4243, 0.3751 by changing the saturation by 10% instead.





 45.0540, 0.4243,  
0.3751


 45.0540, 0.4243,  
0.3751


366.9922, 0.3681,  
0.3548

 31.5000, 0.4381,  
0.3791


 82.8014, 0.4040,  
0.3685

 20.9799, 0.4555,  
0.3835


 107.7636, 0.3963,  
0.3658

 13.1093, 0.4780,  
0.3882


 137.2973, 0.3898,  
0.3634

 7.5038, 0.5078,  
0.3922

171.7869, 0.3843,  
0.3612

 3.7791, 0.5519,  
0.3956

211.6168, 0.3794,  
0.3594

 1.5508, 0.6118,  
0.3882

257.1714, 0.3752,

 0.3241, 0.7280,

0.3577

0.2720

308.8351, 0.3715,  
0.3562

0.0000, 0.0000,  
0.0000

45.0540, 0.4243,  
0.3751

45.0540, 0.4243,  
0.3751

39.5159, 0.4570,  
0.3828

51.3840, 0.3947,  
0.3659

34.7297, 0.4915,  
0.3877

58.5306, 0.3687,  
0.3561

30.6613, 0.5256,  
0.3886

66.5252, 0.3463,  
0.3462

27.2709, 0.5564,  
0.3845

75.3958, 0.3271,  
0.3368

24.5097, 0.5813,  
0.3755

85.1687, 0.3108,  
0.3279

■ 24.2002, 0.5843,  
0.3743

■ 95.3709, 0.3011,  
0.3271

■ 96.5733, 0.3011,  
0.3290

# Harmonies

## Analogous

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



45.0540, 0.4124, 0.3315



45.0540, 0.4243, 0.3751



45.0540, 0.4035, 0.4126

# Triad

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



45.0540, 0.4243, 0.3751



45.0540, 0.2542, 0.3705



45.0540, 0.2613, 0.2422

# Complementary

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



45.0540, 0.4243, 0.3751



49.1426, 0.2386, 0.2756

# 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.



45.0540, 0.2259, 0.2446



45.0540, 0.4243, 0.3751



45.0540, 0.2217, 0.3136

# Square

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



45.0540, 0.4243, 0.3751



45.0540, 0.3040, 0.4167



45.0540, 0.2122, 0.2685



45.0540, 0.3136, 0.2587



# Rectangle

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



45.0540, 0.4243, 0.3751



45.0540, 0.3755, 0.4279



45.0540, 0.2122, 0.2685



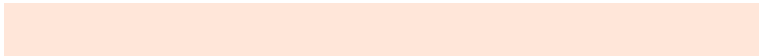
45.0540, 0.2473, 0.2407

# Sweetspot

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



45.0562, 0.4243, 0.3751



83.0686, 0.3389, 0.3427



35.4787, 0.3590, 0.2480



17.3124, 0.3431, 0.3447



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.



45.0562, 0.4243, 0.3751



47.4125, 0.4553, 0.3825



69.7461, 0.3926, 0.4325



15.9331, 0.3284, 0.3375



13.5613, 0.5813, 0.3766



1.2410, 0.5549, 0.3976



# Inverse Universe

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



49.1426, 0.2386, 0.2756



52.7116, 0.2261, 0.2630



28.3657, 0.2238, 0.1975



16.1656, 0.2981, 0.3204



15.9399, 0.1911, 0.2080



1.4322, 0.1963, 0.2267



# Previews

## White Background



This preview shows how the Yxy color 45.0540, 0.4243, 0.3751 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

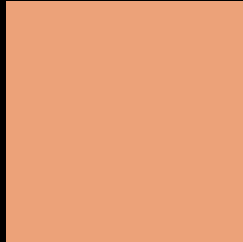
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.0540, 0.4243, 0.3751 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

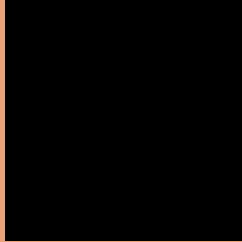
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.0540, 0.4243, 0.3751**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.0540, 0.4243, 0.3751.



This preview shows how white text looks on a background with the Yxy color 45.0540, 0.4243, 0.3751.

# 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

45.0540, 0.4243, 0.3751

### Protanopia

45.1362, 0.3683, 0.3957

### Deuteranopia

45.2840, 0.4004, 0.3932



## Tritanopia

45.1294, 0.3842, 0.3158

# Trichromacy



**Original Color**

45.0540, 0.4243, 0.3751

**Protanomaly**

44.9231, 0.3889, 0.3887

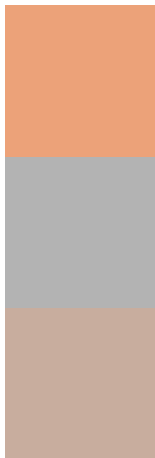
**Deuteranomaly**

45.0493, 0.4094, 0.3856

**Tritanomaly**

45.0388, 0.3998, 0.3371

# Monochromacy



**Original Color**

45.0540, 0.4243, 0.3751

**Achromatopsia**

45.0786, 0.3127, 0.3290

**Achromatomaly**

44.6351, 0.3506, 0.3483

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.0540, 0.4243, 0.3751 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(236, 162, 121)` looks like.

```
.text, #text, p{  
    color:rgb(236, 162, 121)  
}
```

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(236, 162, 121) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 162, 121) }
```

## Border

The CSS property to change the border of an element to Yxy 45.0540, 0.4243, 0.3751 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(236, 162, 121) }
```

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

```
.border{ border-color:rgb(236, 162, 121) }
```

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

Here you see how a box with a 4 pixel `rgb(236, 162, 121)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 162, 121); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 162, 121);  
box-shadow:4px 4px 4px 4px rgb(236, 162,  
121) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.0540, 0.4243, 0.3751 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 162, 121) }
```

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

```
.background{ background-color: rgb(236,  
162, 121) }
```

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