

# Converting Colors

$Y_{xy}(37.8772, 0.4555, 0.3965)$

Have a look what the booklet for  
Yxy(37.8772, 0.4555, 0.3965)  
contains.

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# Color

**Yxy(38.0367, 0.4560, 0.3972)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E29457
RGB	226, 148, 87
RGB Percent	89%, 58%, 34%
CMY	0.1138, 0.4195, 0.6588
CMYK	0.00, 0.34, 0.61, 0.11
HSL	26°, 71%, 61%
HSV	26°, 61%, 89%
XYZ	43.6675, 38.0367, 14.0579
YIQ	164.3680, 66.0690, -2.4350

# Conversions

## Conversions Part 2

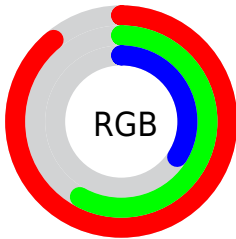
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	226, 196, 87
Decimal	14849111
CIE <sub>Lab</sub>	68.05, 23.54, 43.83
CIE <sub>LCh</sub>	68, 49.747, 61.760
Yxy	38.0367, 0.4560, 0.3972
Android (android.graphics.Color)	4293039191 (0xFFE29457)
YUV	164.3680, -38.1424, 54.0513
Hunter-Lab	61.6739, 18.4556, 29.6572

# Details

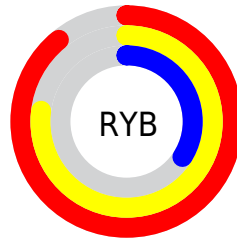
The Yxy color **38.0367, 0.4560, 0.3972** is a light color, and the websafe version is hex **FF9966**. The color can be described as light muted orange. A complement of this color would be **34.4095, 0.2183, 0.2416**, and the grayscale version is **37.4721, 0.3127, 0.3290**.

A 20% lighter version of the original color is **65.3360, 0.4047, 0.3950**, and **16.9048, 0.4957, 0.4076** is the 20% darker color. If you saturate the color by 10%, you get **33.9634, 0.4866, 0.4030**, and if you desaturate by 10%, it is **42.6649, 0.4262, 0.3882**.

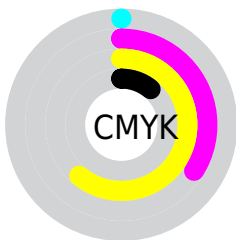
# Distribution



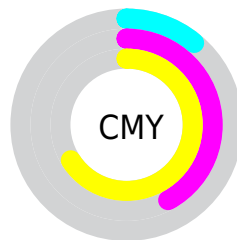
- Red (89%)
- Green (58%)
- Blue (34%)



- Red (89%)
- Yellow (77%)
- Blue (34%)



- Cyan (0%)
- Magenta (34%)
- Yellow (61%)
- Black (11%)



- Cyan (11%)
- Magenta (42%)
- Yellow (66%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.0367, 0.4560, 0.3972 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 38.0367, 0.4560, 0.3972 by changing the saturation by 10% instead.





 38.0367, 0.4560,  
0.3972


 38.0367, 0.4560,  
0.3972


337.7774, 0.3833,  
0.3675


 26.0112, 0.4735,  
0.4024


 72.1644, 0.4298,  
0.3879


 16.8320, 0.4951,  
0.4075


 95.0353, 0.4199,  
0.3839


 10.1148, 0.5220,  
0.4114


 122.2902, 0.4114,  
0.3804

 5.4751, 0.5606,  
0.4154

 154.3134, 0.4042,  
0.3772

 2.5286, 0.5976,  
0.4024

 191.4893, 0.3979,  
0.3744

 0.8909, 0.6372,  
0.3628

234.2024, 0.3924,

 0.0000, 1.0000,

0.3719

0.0000

282.8369, 0.3876,  
0.3696

■ 0.0000, 0.0000,  
0.0000

■ 38.0367, 0.4560,  
0.3972

■ 38.0367, 0.4560,  
0.3972

■ 33.9634, 0.4866,  
0.4030

■ 42.6649, 0.4262,  
0.3882

■ 30.4141, 0.5159,  
0.4043

■ 47.8652, 0.3984,  
0.3772

■ 27.3626, 0.5419,  
0.4002

■ 53.6612, 0.3733,  
0.3654

■ 25.1289, 0.5606,  
0.3931

■ 60.0731, 0.3511,  
0.3533

■ 67.1198, 0.3317,  
0.3417

■ 74.8197, 0.3150,  
0.3306

■ 83.1902, 0.3006,  
0.3203

■ 91.3971, 0.2951,  
0.3233

■ 94.9039, 0.2952,  
0.3289

# Harmonies

## Analogous

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



38.0367, 0.4529, 0.3422



38.0367, 0.4560, 0.3972



38.0367, 0.4176, 0.4450

# Triad

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



38.0367, 0.4560, 0.3972



38.0367, 0.2232, 0.3658



38.0367, 0.2593, 0.2213

# Complementary

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



38.0367, 0.4560, 0.3972



34.4095, 0.2183, 0.2416

# 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.



38.0367, 0.2092, 0.2174



38.0367, 0.4560, 0.3972



38.0367, 0.1900, 0.2901

# Square

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



38.0367, 0.4560, 0.3972



38.0367, 0.2825, 0.4376



38.0367, 0.1858, 0.2391



38.0367, 0.3306, 0.2470



# Rectangle

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



38.0367, 0.4560, 0.3972



38.0367, 0.3768, 0.4637



38.0367, 0.1858, 0.2391



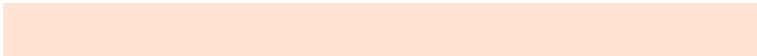
38.0367, 0.2398, 0.2174

# Sweetspot

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



38.0386, 0.4560, 0.3972



82.0475, 0.3442, 0.3493



25.7252, 0.3924, 0.2425



16.9968, 0.3502, 0.3528



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.



38.0386, 0.4560, 0.3972



43.2004, 0.4956, 0.4039



66.3262, 0.4045, 0.4641



14.6859, 0.3281, 0.3393



14.5678, 0.5579, 0.3952



1.1858, 0.5313, 0.4163



# Inverse Universe

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



34.4095, 0.2183, 0.2416



37.9495, 0.2027, 0.2192



15.9309, 0.1958, 0.1427



14.5124, 0.2981, 0.3185



11.9985, 0.1831, 0.1791



1.0091, 0.1901, 0.2043



# Previews

## White Background



This preview shows how the Yxy color 38.0367, 0.4560, 0.3972 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

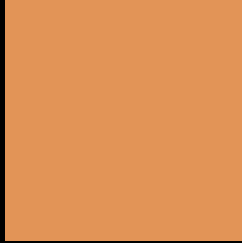
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.0367, 0.4560, 0.3972 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

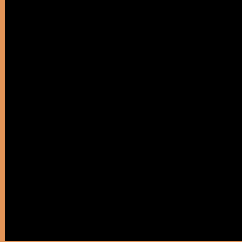
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 38.0367, 0.4560, 0.3972**

## Background



This preview shows how black text looks on a background with the Yxy color 38.0367, 0.4560, 0.3972.



This preview shows how white text looks on a background with the Yxy color 38.0367, 0.4560, 0.3972.

# 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

38.0367, 0.4560, 0.3972

### Protanopia

38.1300, 0.3942, 0.4278

### Deuteranopia

37.9470, 0.4280, 0.4189



## Tritanopia

37.8135, 0.3984, 0.3165

# Trichromacy



**Original Color**

38.0367, 0.4560, 0.3972

**Protanomaly**

37.6937, 0.4171, 0.4155

**Deuteranomaly**

37.7801, 0.4383, 0.4101

**Tritanomaly**

37.8614, 0.4215, 0.3467

# Monochromacy



**Original Color**

38.0367, 0.4560, 0.3972

**Achromatopsia**

37.1238, 0.3127, 0.3290

**Achromatomaly**

36.7961, 0.3629, 0.3593

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.0367, 0.4560, 0.3972 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(226, 148, 87)` looks like.

```
.text, #text, p{  
    color:rgb(226, 148, 87)  
}
```

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(226, 148, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(226, 148, 87) }
```

## Border

The CSS property to change the border of an element to Yxy 38.0367, 0.4560, 0.3972 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(226, 148, 87) }
```

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

```
.border{ border-color:rgb(226, 148, 87) }
```

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

Here you see how a box with a 4 pixel `rgb(226, 148, 87)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(226, 148, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(226, 148, 87);  
box-shadow:4px 4px 4px 4px rgb(226, 148,  
87) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.0367, 0.4560, 0.3972 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(226, 148, 87) }
```

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

```
.background{ background-color: rgb(226,  
148, 87) }
```

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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