

# Converting Colors

$Y_{xy}(37.9856, 0.5111, 0.4590)$

Have a look what the booklet for  
Yxy(37.9856, 0.5111, 0.4590)  
contains.

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**Color**

**Yxy(38.3067, 0.4969, 0.4437)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E49600
RGB	228, 150, 0
RGB Percent	89%, 59%, 0%
CMY	0.1059, 0.4117, 1.0000
CMYK	0.00, 0.34, 1.00, 0.11
HSL	39°, 100%, 45%
HSV	39°, 100%, 89%
XYZ	42.8997, 38.3067, 5.1283
YIQ	156.2220, 94.6380, -30.1140

# Conversions

## Conversions Part 2

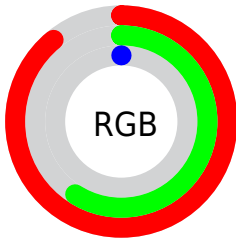
Format	Color
R <sub>Y</sub> B	119, 228, 0
Decimal	14980608
CIE Lab	68.25, 20.41, 73.02
CIE LCh	68, 75.823, 74.386
Yxy	38.3067, 0.4969, 0.4437
Android (android.graphics.Color)	4293170688 (0xFFE49600)
YUV	156.2220, -77.0174, 62.9493
Hunter-Lab	61.8924, 15.4126, 38.4120

# Details

The Yxy color **38.3067, 0.4969, 0.4437** is a dark color, and the websafe version is hex **FF9900**. The color can be described as dark washed orange. A complement of this color would be **11.0480, 0.1633, 0.1079**, and the grayscale version is **33.6711, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.9537, 0.4425, 0.4484**, and **17.0307, 0.5118, 0.4318** is the 20% darker color. If you saturate the color by 10%, you get **38.3090, 0.4969, 0.4437**, and if you desaturate by 10%, it is **40.9426, 0.4838, 0.4467**.

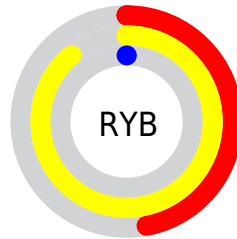
# Distribution



Red (89%)

Green (59%)

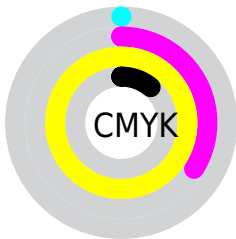
Blue (0%)



Red (47%)

Yellow (89%)

Blue (0%)

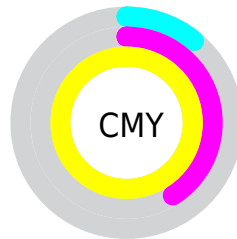


Cyan (0%)

Magenta (34%)

Yellow (100%)

Black (11%)



Cyan (11%)

Magenta (41%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.3067, 0.4969, 0.4437 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 38.3067, 0.4969, 0.4437 by changing the saturation by 10% instead.





 38.3067, 0.4969,  
0.4437


 38.3067, 0.4969,  
0.4437


338.9338, 0.4117,  
0.3996


 26.2208, 0.5130,  
0.4483


 72.5780, 0.4693,  
0.4322


 16.9889, 0.5304,  
0.4508


 95.5322, 0.4578,  
0.4265

 10.2266, 0.5499,  
0.4501


 122.8779, 0.4477,  
0.4210

 5.5494, 0.5632,  
0.4368

 154.9996, 0.4387,  
0.4160

 2.5731, 0.5836,  
0.4164

 192.2817, 0.4308,  
0.4114

 0.9132, 0.6188,  
0.3812

 235.1084, 0.4237,

 0.0000, 1.0000,

0.4071


0.0000


 283.8644, 0.4173,  
0.4032


 0.0000, 0.0000,  
0.0000


 38.3067, 0.4969,  
0.4437


 38.3067, 0.4969,  
0.4437

 38.3090, 0.4969,  
0.4437

 40.9426, 0.4838,  
0.4467

 43.8170, 0.4678,  
0.4451

 46.9583, 0.4489,  
0.4385

 50.3828, 0.4281,  
0.4275

 54.1044, 0.4067,  
0.4134

■ 58.1358, 0.3854,  
0.3971

■ 62.4886, 0.3650,  
0.3799

■ 67.1734, 0.3459,  
0.3624

■ 72.2003, 0.3285,  
0.3453

# Harmonies

## Analogous

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



38.3067, 0.5301, 0.3675



38.3067, 0.4969, 0.4437



38.3067, 0.4172, 0.5150

# Triad

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



38.3067, 0.4969, 0.4437



38.3067, 0.1581, 0.3276



38.3067, 0.2726, 0.1905

# Complementary

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



38.3067, 0.4969, 0.4437



11.0480, 0.1633, 0.1079

# 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.



38.3067, 0.1900, 0.1717



38.3067, 0.4969, 0.4437



38.3067, 0.1344, 0.2296

# Square

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



38.3067, 0.4969, 0.4437



38.3067, 0.2227, 0.4596



38.3067, 0.1454, 0.1820



38.3067, 0.3864, 0.2346



# Rectangle

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



38.3067, 0.4969, 0.4437



38.3067, 0.3520, 0.5396



38.3067, 0.1454, 0.1820



38.3067, 0.2407, 0.1813

# Sweetspot

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



38.3090, 0.4969, 0.4437



80.4408, 0.3654, 0.3802



17.0695, 0.5611, 0.2865



16.6979, 0.3739, 0.3876



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.



38.3090, 0.4969, 0.4437



49.1831, 0.4975, 0.4432



66.9267, 0.3927, 0.5264



15.9434, 0.3276, 0.3444



22.3505, 0.4954, 0.4449



1.8226, 0.4814, 0.4559



# Inverse Universe

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



11.0480, 0.1633, 0.1079



14.0725, 0.1630, 0.1068



5.9447, 0.1554, 0.0630



14.6891, 0.2981, 0.3131



6.5779, 0.1641, 0.1106



0.6538, 0.1722, 0.1399



# Previews

## White Background



This preview shows how the Yxy color 38.3067, 0.4969, 0.4437 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 38.3067, 0.4969, 0.4437 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 38.3067, 0.4969, 0.4437**

## Background



This preview shows how black text looks on a background with the Yxy color 38.3067, 0.4969, 0.4437.



This preview shows how white text looks on a background with the Yxy color 38.3067, 0.4969, 0.4437.

# 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

38.3067, 0.4969, 0.4437

### Protanopia

38.3662, 0.4381, 0.4851

### Deuteranopia

38.3026, 0.4725, 0.4630



## Tritanopia

38.1597, 0.4039, 0.3167

# Trichromacy



## Original Color

38.3067, 0.4969, 0.4437

## Protanomaly

38.2082, 0.4602, 0.4698

## Deuteranomaly

38.1944, 0.4815, 0.4559

## Tritanomaly

37.6269, 0.4585, 0.3820

# Monochromacy



## Original Color

38.3067, 0.4969, 0.4437

## Achromatopsia

33.2452, 0.3127, 0.3290

## Achromatomaly

33.9571, 0.3956, 0.4058

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.3067, 0.4969, 0.4437 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(228, 150, 0)` looks like.

```
.text, #text, p{  
    color:rgb(228, 150, 0)  
}
```

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(228, 150, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 150, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 38.3067, 0.4969, 0.4437 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(228, 150, 0) }
```

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

```
.border{ border-color:rgb(228, 150, 0) }
```

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

Here you see how a box with a 4 pixel rgb(228, 150, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 150, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 150, 0);  
box-shadow:4px 4px 4px 4px rgb(228, 150,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.3067, 0.4969, 0.4437 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 150, 0) }
```

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

```
.background{ background-color: rgb(228,  
150, 0) }
```

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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