

# Converting Colors

$Y_{xy}(37.1597, 0.5092, 0.4362)$

Have a look what the booklet for  
Yxy(37.1597, 0.5092, 0.4362)  
contains.

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**Color**

**Yxy(37.2702, 0.5082, 0.4347)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E99000
RGB	233, 144, 0
RGB Percent	91%, 56%, 0%
CMY	0.0864, 0.4352, 1.0000
CMYK	0.00, 0.38, 1.00, 0.09
HSL	37°, 100%, 46%
HSV	37°, 100%, 91%
XYZ	43.5719, 37.2702, 4.8956
YIQ	154.1950, 99.2680, -25.9160

# Conversions

## Conversions Part 2

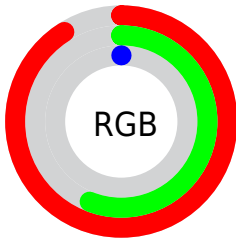
Format	Color
<a href="#">RYB</a>	144, 233, 0
Decimal	15306752
CIELab	67.48, 25.71, 72.81
CIELCh	67, 77.217, 70.554
Yxy	37.2702, 0.5082, 0.4347
Android (android.graphics.Color)	4293496832 (0xFFE99000)
YUV	154.1950, -76.0181, 69.1120
Hunter-Lab	61.0493, 20.5621, 37.9800

# Details

The Yxy color **37.2702, 0.5082, 0.4347** 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 **13.0195, 0.1662, 0.1184**, and the grayscale version is **32.7149, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.1426, 0.4477, 0.4439**, and **16.4866, 0.5271, 0.4197** is the 20% darker color. If you saturate the color by 10%, you get **37.2723, 0.5082, 0.4347**, and if you desaturate by 10%, it is **40.1376, 0.4934, 0.4388**.

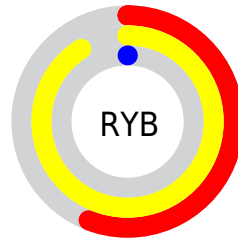
# Distribution



Red (91%)

Green (56%)

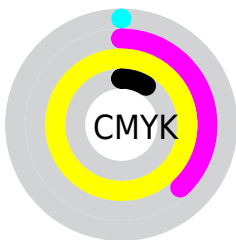
Blue (0%)



Red (56%)

Yellow (91%)

Blue (0%)

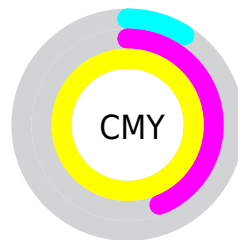


Cyan (0%)

Magenta (38%)

Yellow (100%)

Black (9%)



Cyan (9%)

Magenta (44%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.2702, 0.5082, 0.4347 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 37.2702, 0.5082, 0.4347 by changing the saturation by 10% instead.




 37.2702, 0.5082,  
0.4347


 37.2702, 0.5082,  
0.4347


334.4789, 0.4169,  
0.3963


 25.4168, 0.5257,  
0.4376


 70.9882, 0.4784,  
0.4255

 16.3878, 0.5451,  
0.4380

 93.6215, 0.4661,  
0.4206


 9.7990, 0.5662,  
0.4338


 120.6169, 0.4553,  
0.4158

 5.2659, 0.5829,  
0.4171

 152.3587, 0.4457,  
0.4113

 2.4041, 0.6085,  
0.3915

 189.2315, 0.4372,  
0.4071

 0.8280, 0.6524,  
0.3476

 231.6195, 0.4296,

 0.0000, 1.0000,

0.4032

0.0000


 279.9071, 0.4229,  
0.3996

 0.0000, 0.0000,  
0.0000

 37.2702, 0.5082,  
0.4347

 37.2702, 0.5082,  
0.4347


 37.2723, 0.5082,  
0.4347

 40.1376, 0.4934,  
0.4388

 43.2959, 0.4755,  
0.4382

 46.7758, 0.4548,  
0.4323

 50.5958, 0.4324,  
0.4221

 54.7719, 0.4095,  
0.4088

■ 59.3186, 0.3871,  
0.3934

■ 64.2494, 0.3659,  
0.3770

■ 69.5766, 0.3464,  
0.3605

■ 75.3120, 0.3286,  
0.3444

# Harmonies

## Analogous

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



37.2702, 0.5348, 0.3577



37.2702, 0.5082, 0.4347



37.2702, 0.4305, 0.5108

# Triad

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



37.2702, 0.5082, 0.4347



37.2702, 0.1605, 0.3437



37.2702, 0.2584, 0.1837

# Complementary

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



37.2702, 0.5082, 0.4347



13.0195, 0.1662, 0.1184

# 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.



37.2702, 0.1794, 0.1682



37.2702, 0.5082, 0.4347



37.2702, 0.1318, 0.2365

# Square

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



37.2702, 0.5082, 0.4347



37.2702, 0.2313, 0.4794



37.2702, 0.1389, 0.1825



37.2702, 0.3725, 0.2255



# Rectangle

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



37.2702, 0.5082, 0.4347



37.2702, 0.3649, 0.5430



37.2702, 0.1389, 0.1825



37.2702, 0.2275, 0.1755

# Sweetspot

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



37.2723, 0.5082, 0.4347



78.7731, 0.3662, 0.3773



18.0462, 0.5482, 0.2794



16.2999, 0.3750, 0.3843



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.



37.2723, 0.5082, 0.4347



45.5889, 0.5087, 0.4343



71.3575, 0.3986, 0.5217



16.6048, 0.3277, 0.3435



21.4005, 0.5064, 0.4361



1.8653, 0.4912, 0.4482



# Inverse Universe

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



13.0195, 0.1662, 0.1184



15.8372, 0.1660, 0.1176



6.1174, 0.1536, 0.0620



15.4917, 0.2980, 0.3140



7.6105, 0.1670, 0.1213



0.7784, 0.1747, 0.1489



# Previews

## White Background



This preview shows how the Yxy color 37.2702, 0.5082, 0.4347 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 37.2702, 0.5082, 0.4347 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 37.2702, 0.5082, 0.4347**

## **Background**



This preview shows how black text looks on a background with the Yxy color 37.2702, 0.5082, 0.4347.



This preview shows how white text looks on a background with the Yxy color 37.2702, 0.5082, 0.4347.

# 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

37.2702, 0.5082, 0.4347

### Protanopia

37.3898, 0.4381, 0.4846

### Deuteranopia

37.1868, 0.4722, 0.4633



## Tritanopia

37.4145, 0.4180, 0.3182

# Trichromacy



## Original Color

37.2702, 0.5082, 0.4347

## Protanomaly

36.8346, 0.4647, 0.4658

## Deuteranomaly

37.2082, 0.4851, 0.4530

## Tritanomaly

36.9542, 0.4701, 0.3781

# Monochromacy



## Original Color

37.2702, 0.5082, 0.4347

## Achromatopsia

32.3143, 0.3127, 0.3290

## Achromatomaly

32.7618, 0.4002, 0.4017

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.2702, 0.5082, 0.4347 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(233, 144, 0)` looks like.

```
.text, #text, p{  
    color:rgb(233, 144, 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(233, 144, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 144, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 37.2702, 0.5082, 0.4347 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(233, 144, 0) }
```

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

```
.border{ border-color:rgb(233, 144, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(233, 144, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 144, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 144, 0);  
box-shadow:4px 4px 4px 4px rgb(233, 144,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 37.2702, 0.5082, 0.4347 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 144, 0) }
```

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

```
.background{ background-color: rgb(233,  
144, 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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