

# Converting Colors

$Y_{xy}(33.7717, 0.5298, 0.4176)$

Have a look what the booklet for  
Yxy(33.7717, 0.5298, 0.4176)  
contains.

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**Color**

**Yxy(33.7050, 0.5298, 0.4175)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	ED8100
RGB	237, 129, 0
RGB Percent	93%, 51%, 0%
CMY	0.0707, 0.4940, 0.9995
CMYK	0.00, 0.46, 1.00, 0.07
HSL	33°, 100%, 46%
HSV	33°, 100%, 93%
XYZ	42.7710, 33.7050, 4.2545
YIQ	146.5860, 105.7770, -17.2230

# Conversions

## Conversions Part 2

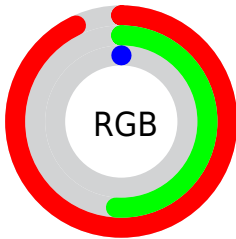
Format	Color
<a href="#">RYB</a>	<a href="#">198, 237, 0</a>
Decimal	<a href="#">15565056</a>
CIELab	<a href="#">64.73, 35.19, 71.32</a>
CIElCh	<a href="#">65, 79.528, 63.737</a>
Yxy	<a href="#">33.7050, 0.5298, 0.4175</a>
Android (android.graphics.Color)	<a href="#">4293755136</a> ( <a href="#">0xFFED8100</a> )
YUV	<a href="#">146.5860, -72.2669, 79.2931</a>
Hunter-Lab	<a href="#">58.0560, 29.9066, 36.2943</a>

# Details

The Yxy color **33.7050, 0.5298, 0.4175** is a dark color, and the websafe version is hex **FF9933**. The color can be described as dark washed orange. A complement of this color would be **16.8555, 0.1724, 0.1407**, and the grayscale version is **29.2763, 0.3127, 0.3290**.

A 20% lighter version of the original color is **55.5949, 0.4612, 0.4321**, and **14.4474, 0.5551, 0.3974** is the 20% darker color. If you saturate the color by 10%, you get **33.6926, 0.5299, 0.4175**, and if you desaturate by 10%, it is **36.7699, 0.5118, 0.4236**.

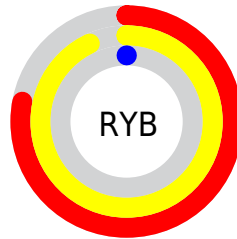
# Distribution



Red (93%)

Green (51%)

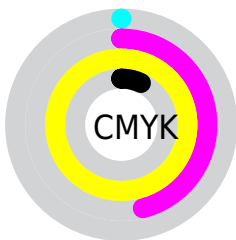
Blue (0%)



Red (78%)

Yellow (93%)

Blue (0%)

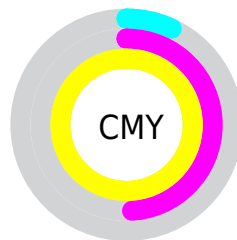


Cyan (0%)

Magenta (46%)

Yellow (100%)

Black (7%)



Cyan (7%)

Magenta (49%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 33.7050, 0.5298, 0.4175 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 33.7050, 0.5298, 0.4175 by changing the saturation by 10% instead.



 33.7050, 0.5298,  
0.4175


 33.7050, 0.5298,  
0.4175


318.8146, 0.4259,  
0.3895


 22.6671, 0.5503,  
0.4172


 65.4747, 0.4954,  
0.4126


 14.3479, 0.5744,  
0.4139


 86.9752, 0.4814,  
0.4091

 8.3630, 0.5979,  
0.4021


 112.7320, 0.4690,  
0.4055

 4.3281, 0.6218,  
0.3782

 143.1295, 0.4582,  
0.4020

 1.8587, 0.6584,  
0.3416

 178.5522, 0.4487,  
0.3986


 0.5234, 0.7372,  
0.2628


 219.3843, 0.4402,


 0.0000, 1.0000,


0.3954


0.0000


 266.0103, 0.4327,  
0.3923


 0.0000, 0.0000,  
0.0000

 33.7050, 0.5298,  
0.4175


 33.7050, 0.5298,  
0.4175


 33.6926, 0.5299,  
0.4175

 36.7699, 0.5118,  
0.4236

 40.2221, 0.4903,  
0.4246

 44.0966, 0.4659,  
0.4203

 48.4162, 0.4402,  
0.4117

 53.2013, 0.4146,  
0.3998

■ 58.4700, 0.3901,  
0.3861

■ 64.2396, 0.3675,  
0.3715

■ 70.5260, 0.3470,  
0.3568

■ 77.3443, 0.3288,  
0.3425

# Harmonies

## Analogous

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



33.7050, 0.5433, 0.3392



33.7050, 0.5298, 0.4175



33.7050, 0.4554, 0.5012

# Triad

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



33.7050, 0.5298, 0.4175



33.7050, 0.1648, 0.3770



33.7050, 0.2323, 0.1708

# Complementary

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



33.7050, 0.5298, 0.4175



16.8555, 0.1724, 0.1407

# 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.



33.7050, 0.1600, 0.1611



33.7050, 0.5298, 0.4175



33.7050, 0.1264, 0.2504

# Square

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



33.7050, 0.5298, 0.4175



33.7050, 0.2473, 0.5176



33.7050, 0.1265, 0.1833



33.7050, 0.3461, 0.2082



# Rectangle

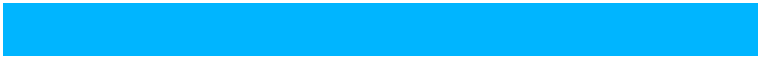
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



33.7050, 0.5298, 0.4175



33.7050, 0.3889, 0.5465



33.7050, 0.1265, 0.1833



33.7050, 0.2034, 0.1644

# Sweetspot

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



33.7068, 0.5298, 0.4175



75.7500, 0.3679, 0.3718



19.1437, 0.5135, 0.2603



15.5815, 0.3772, 0.3780



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.



33.7068, 0.5298, 0.4175



39.6594, 0.5304, 0.4170



77.2290, 0.4134, 0.5099



16.4125, 0.3279, 0.3418



18.6644, 0.5276, 0.4193



1.6576, 0.5085, 0.4344



# Inverse Universe

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



16.8555, 0.1724, 0.1407



19.7634, 0.1722, 0.1399



6.1675, 0.1508, 0.0604



15.6800, 0.2980, 0.3158



9.4518, 0.1732, 0.1436



0.9323, 0.1806, 0.1700



# Previews

## White Background



This preview shows how the Yxy color 33.7050, 0.5298, 0.4175 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 33.7050, 0.5298, 0.4175 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 33.7050, 0.5298, 0.4175**

## Background



This preview shows how black text looks on a background with the Yxy color 33.7050, 0.5298, 0.4175.



This preview shows how white text looks on a background with the Yxy color 33.7050, 0.5298, 0.4175.

# 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

33.7050, 0.5298, 0.4175

### Protanopia

33.9657, 0.4372, 0.4837

### Deuteranopia

33.6370, 0.4723, 0.4632



## Tritanopia

33.6922, 0.4464, 0.3208

# Trichromacy



## Original Color

33.7050, 0.5298, 0.4175

## Protanomaly

33.0361, 0.4728, 0.4587

## Deuteranomaly

33.4921, 0.4941, 0.4459

## Tritanomaly

33.2853, 0.4964, 0.3713

# Monochromacy



## Original Color

33.7050, 0.5298, 0.4175

## Achromatopsia

29.1771, 0.3127, 0.3290

## Achromatomaly

29.2676, 0.4076, 0.3948

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 33.7050, 0.5298, 0.4175 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(237, 129, 0)` looks like.

```
.text, #text, p{  
    color:rgb(237, 129, 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(237, 129, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 129, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 33.7050, 0.5298, 0.4175 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(237, 129, 0) }
```

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

```
.border{ border-color:rgb(237, 129, 0) }
```

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

Here you see how a box with a 4 pixel rgb(237, 129, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 129, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 129, 0);  
box-shadow:4px 4px 4px 4px rgb(237, 129,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 33.7050, 0.5298, 0.4175 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 129, 0) }
```

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

```
.background{ background-color: rgb(237,  
129, 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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