

# Converting Colors

Yxy(32.9087, 0.5300, 0.4174)

Have a look what the booklet for  
Yxy(32.9087, 0.5300, 0.4174)  
contains.

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# Color

**Yxy(33.1005, 0.5297, 0.4176)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EB8000
RGB	235, 128, 0
RGB Percent	92%, 50%, 0%
CMY	0.0783, 0.4981, 0.9998
CMYK	0.00, 0.46, 1.00, 0.08
HSL	33°, 100%, 46%
HSV	33°, 100%, 92%
XYZ	41.9860, 33.1005, 4.1772
YIQ	145.4010, 104.8600, -17.1240

# Conversions

## Conversions Part 2

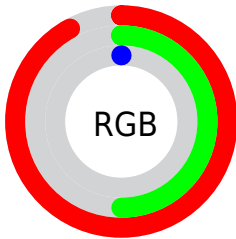
<b>Format</b>	<b>Color</b>
<b>RYB</b>	196, 235, 0
Decimal	15433728
CIELab	64.24, 34.92, 70.90
CIELCh	64, 79.030, 63.774
Yxy	33.1005, 0.5297, 0.4176
Android (android.graphics.Color)	4293623808 (0xFFEB8000)
YUV	145.4010, -71.6827, 78.5783
Hunter-Lab	57.5330, 29.5814, 35.9684

# Details

The Yxy color **33.1005, 0.5297, 0.4176** 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 **16.5312, 0.1724, 0.1407**, and the grayscale version is **28.7557, 0.3127, 0.3290**.

A 20% lighter version of the original color is **55.1708, 0.4626, 0.4318**, and **14.0784, 0.5552, 0.3974** is the 20% darker color. If you saturate the color by 10%, you get **33.0967, 0.5297, 0.4176**, and if you desaturate by 10%, it is **36.1077, 0.5117, 0.4236**.

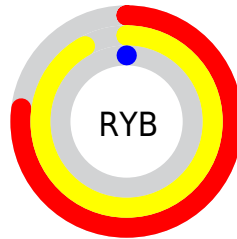
# Distribution



Red (92%)

Green (50%)

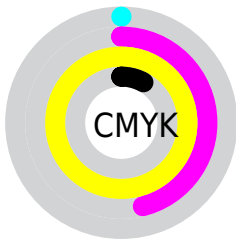
Blue (0%)



Red (77%)

Yellow (92%)

Blue (0%)

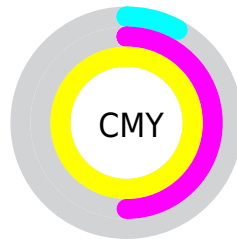


Cyan (0%)

Magenta (46%)

Yellow (100%)

Black (8%)



Cyan (8%)

Magenta (50%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 33.1005, 0.5297, 0.4176 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 33.1005, 0.5297, 0.4176 by changing the saturation by 10% instead.




 33.1005, 0.5297,  
0.4176


 33.1005, 0.5297,  
0.4176


316.1023, 0.4256,  
0.3894

 22.2034, 0.5503,  
0.4173


 64.5324, 0.4952,  
0.4126

 14.0065, 0.5747,  
0.4141


 85.8360, 0.4811,  
0.4091

 8.1252, 0.5981,  
0.4019


 111.3773, 0.4687,  
0.4055


 4.1751, 0.6223,  
0.3777

 141.5407, 0.4578,  
0.4019

 1.7720, 0.6596,  
0.3404

 176.7104, 0.4483,  
0.3985

 0.4696, 0.7470,  
0.2530

 217.2710, 0.4398,


 0.0000, 1.0000,


0.3953

0.0000


 263.6069, 0.4323,  
0.3923

 0.0000, 0.0000,  
0.0000


 33.1005, 0.5297,  
0.4176


 33.1005, 0.5297,  
0.4176


 33.0967, 0.5297,  
0.4176

 36.1077, 0.5117,  
0.4236

 39.4940, 0.4902,  
0.4247

 43.2940, 0.4659,  
0.4204

 47.5301, 0.4402,  
0.4117

 52.2221, 0.4146,  
0.3999

■ 57.3880, 0.3901,  
0.3862

■ 63.0445, 0.3675,  
0.3716

■ 69.2072, 0.3471,  
0.3569

■ 75.8909, 0.3288,  
0.3426

# Harmonies

## Analogous

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



33.1005, 0.5433, 0.3393



33.1005, 0.5297, 0.4176



33.1005, 0.4553, 0.5013

# Triad

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



33.1005, 0.5297, 0.4176



33.1005, 0.1648, 0.3768



33.1005, 0.2324, 0.1708

# Complementary

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



33.1005, 0.5297, 0.4176



16.5312, 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.



33.1005, 0.1601, 0.1611



33.1005, 0.5297, 0.4176



33.1005, 0.1264, 0.2503

# Square

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



33.1005, 0.5297, 0.4176



33.1005, 0.2471, 0.5175



33.1005, 0.1265, 0.1832



33.1005, 0.3463, 0.2082



# Rectangle

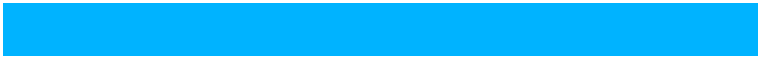
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



33.1005, 0.5297, 0.4176



33.1005, 0.3888, 0.5466



33.1005, 0.1265, 0.1832



33.1005, 0.2035, 0.1644

# Sweetspot

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



33.1023, 0.5297, 0.4176



75.7621, 0.3679, 0.3718



18.7863, 0.5134, 0.2602



15.5843, 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.



33.1023, 0.5297, 0.4176



39.6814, 0.5303, 0.4171



75.7913, 0.4134, 0.5099



16.4133, 0.3279, 0.3418



18.6746, 0.5275, 0.4194



1.6584, 0.5084, 0.4345



# Inverse Universe

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



16.5312, 0.1724, 0.1407



19.7457, 0.1722, 0.1398



6.0513, 0.1508, 0.0604



15.6792, 0.2980, 0.3158



9.4436, 0.1732, 0.1435



0.9317, 0.1805, 0.1699



# Previews

## White Background



This preview shows how the Yxy color 33.1005, 0.5297, 0.4176 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 33.1005, 0.5297, 0.4176 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 33.1005, 0.5297, 0.4176**

## **Background**



This preview shows how black text looks on a background with the Yxy color 33.1005, 0.5297, 0.4176.



This preview shows how white text looks on a background with the Yxy color 33.1005, 0.5297, 0.4176.

# 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

33.1005, 0.5297, 0.4176

### Protanopia

33.3911, 0.4363, 0.4843

### Tritanopia

33.0767, 0.4462, 0.3207

# Trichromacy



## Original Color

33.1005, 0.5297, 0.4176

## Protanomaly

32.4546, 0.4722, 0.4592

## Tritanomaly

32.6903, 0.4956, 0.3707

# Monochromacy



## Original Color

33.1005, 0.5297, 0.4176

## Achromatopsia

28.3149, 0.3127, 0.3290

## Achromatomaly

28.7029, 0.4082, 0.3968

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 33.1005, 0.5297, 0.4176 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(235, 128, 0)` looks like.

```
.text, #text, p{  
    color:rgb(235, 128, 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(235, 128, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(235, 128, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 33.1005, 0.5297, 0.4176 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(235, 128, 0) }
```

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

```
.border{ border-color:rgb(235, 128, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(235, 128, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(235, 128, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(235, 128, 0);  
box-shadow:4px 4px 4px 4px rgb(235, 128,  
0) }
```

# Background

The CSS property to change the background color of an element to Yxy 33.1005, 0.5297, 0.4176 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(235, 128, 0) }
```

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

```
.background{ background-color: rgb(235,  
128, 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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