

# Converting Colors

$Y_{xy}(31.2000, 0.5115, 0.3879)$

Have a look what the booklet for  
Yxy(31.2000, 0.5115, 0.3879)  
contains.

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**Color**

**Yxy(31.3246, 0.5111, 0.3880)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E9793C
RGB	233, 121, 60
RGB Percent	91%, 47%, 24%
CMY	0.0862, 0.5255, 0.7647
CMYK	0.00, 0.48, 0.74, 0.09
HSL	21°, 80%, 57%
HSV	21°, 74%, 91%
XYZ	41.2629, 31.3246, 8.1460
YIQ	147.5340, 86.3330, 4.7730

# Conversions

## Conversions Part 2

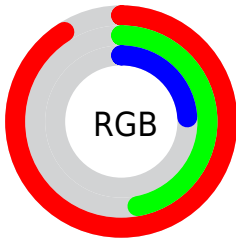
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	233, 154, 60
Decimal	15300924
CIE <sub>Lab</sub>	62.78, 39.02, 51.56
CIE <sub>LCh</sub>	63, 64.660, 52.876
Yxy	31.3246, 0.5111, 0.3880
Android (android.graphics.Color)	4293491004 (0xFFE9793C)
YUV	147.5340, -43.1543, 74.9537
Hunter-Lab	55.9684, 33.6551, 30.5484

# Details

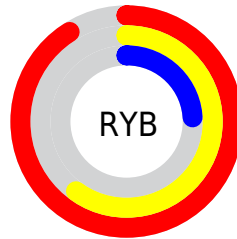
The Yxy color **31.3246, 0.5111, 0.3880** is a dark color, and the websafe version is hex **CC6633**. The color can be described as middle washed orange. A complement of this color would be **36.3619, 0.2087, 0.2421**, and the grayscale version is **29.5662, 0.3127, 0.3290**.

A 20% lighter version of the original color is **53.0676, 0.4414, 0.3941**, and **13.0514, 0.5633, 0.3866** is the 20% darker color. If you saturate the color by 10%, you get **27.7472, 0.5440, 0.3862**, and if you desaturate by 10%, it is **35.5873, 0.4763, 0.3852**.

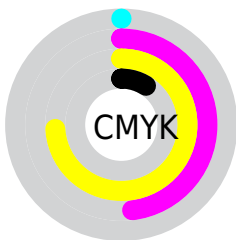
# Distribution



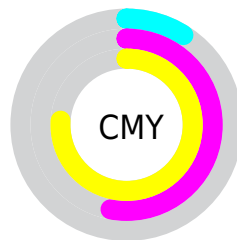
- Red (91%)
- Green (47%)
- Blue (24%)



- Red (91%)
- Yellow (60%)
- Blue (24%)



- Cyan (0%)
- Magenta (48%)
- Yellow (74%)
- Black (9%)




- Cyan (9%)
- Magenta (53%)
- Yellow (76%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.3246, 0.5111, 0.3880 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 31.3246, 0.5111, 0.3880 by changing the saturation by 10% instead.




 31.3246, 0.5111,  
0.3880


 31.3246, 0.5111,  
0.3880


308.0310, 0.4090,  
0.3679


 20.8461, 0.5351,  
0.3885


 61.7508, 0.4745,  
0.3838


 13.0116, 0.5640,  
0.3861

 82.4673, 0.4605,  
0.3812

 7.4365, 0.6021,  
0.3801


 107.3652, 0.4486,  
0.3787

 3.7366, 0.6408,  
0.3592

 136.8291, 0.4384,  
0.3762

 1.5273, 0.6835,  
0.3165

 171.2432, 0.4295,  
0.3739

 0.3078, 0.8101,  
0.1899

 210.9919, 0.4218,

 0.0000, 1.0000,

0.3717

0.0000

256.4597, 0.4150,  
0.3697

■ 0.0000, 0.0000,  
0.0000

■ 31.3246, 0.5111,  
0.3880

■ 31.3246, 0.5111,  
0.3880

■ 27.7472, 0.5440,  
0.3862

■ 35.5873, 0.4763,  
0.3852

■ 24.8081, 0.5718,  
0.3791


■ 40.5678, 0.4422,  
0.3790


■ 23.3835, 0.5852,  
0.3735

■ 46.3020, 0.4107,  
0.3706


■ 52.8218, 0.3827,  
0.3611

■ 60.1571, 0.3582,  
0.3514

 68.3359, 0.3373,  
0.3418

 77.3851, 0.3195,  
0.3327

 87.3302, 0.3043,  
0.3242

 96.0675, 0.2994,  
0.3290

# Harmonies

## Analogous

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



31.3246, 0.4927, 0.3192



31.3246, 0.5111, 0.3880



31.3246, 0.4678, 0.4589

# Triad

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



31.3246, 0.5111, 0.3880



31.3246, 0.2100, 0.4142



31.3246, 0.2173, 0.1845

# Complementary

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



31.3246, 0.5111, 0.3880



36.3619, 0.2087, 0.2421

# 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.



31.3246, 0.1651, 0.1866



31.3246, 0.5111, 0.3880



31.3246, 0.1593, 0.2990

# Square

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



31.3246, 0.5111, 0.3880



31.3246, 0.2938, 0.5066



31.3246, 0.1459, 0.2213



31.3246, 0.3042, 0.2094



# Rectangle

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



31.3246, 0.5111, 0.3880



31.3246, 0.4168, 0.4995



31.3246, 0.1459, 0.2213



31.3246, 0.1960, 0.1820

# Sweetspot

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



31.3263, 0.5111, 0.3880



75.8728, 0.3535, 0.3493



23.5555, 0.3962, 0.2184



15.6804, 0.3596, 0.3519



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.



31.3263, 0.5111, 0.3880



32.0801, 0.5592, 0.3832



62.3129, 0.4287, 0.4707



15.9227, 0.3284, 0.3374



13.4765, 0.5824, 0.3757



1.2335, 0.5559, 0.3968



# Inverse Universe

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



36.3619, 0.2087, 0.2421



38.1270, 0.1967, 0.2215



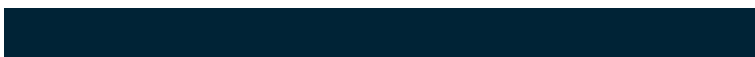
13.4931, 0.1776, 0.1204



16.1764, 0.2981, 0.3205



16.1142, 0.1915, 0.2095



1.4451, 0.1967, 0.2279



# Previews

## White Background



This preview shows how the Yxy color 31.3246, 0.5111, 0.3880 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 31.3246, 0.5111, 0.3880 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 31.3246, 0.5111, 0.3880**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.3246, 0.5111, 0.3880.



This preview shows how white text looks on a background with the Yxy color 31.3246, 0.5111, 0.3880.

# 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

31.3246, 0.5111, 0.3880

### Protanopia

31.6472, 0.4078, 0.4477

### Deuteranopia

31.4550, 0.4494, 0.4417



## Tritanopia

31.2726, 0.4525, 0.3207

# Trichromacy



## Original Color

31.3246, 0.5111, 0.3880

## Protanomaly

30.6496, 0.4462, 0.4241

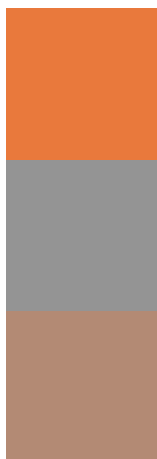
## Deuteranomaly

31.0157, 0.4734, 0.4199

## Tritanomaly

31.2856, 0.4777, 0.3486

# Monochromacy



## Original Color

31.3246, 0.5111, 0.3880

## Achromatopsia

29.6138, 0.3127, 0.3290

## Achromatomaly

29.0216, 0.3837, 0.3612

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.3246, 0.5111, 0.3880 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, 121, 60)` looks like.

```
.text, #text, p{  
    color:rgb(233, 121, 60)  
}
```

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, 121, 60) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 121, 60) }
```

## Border

The CSS property to change the border of an element to Yxy 31.3246, 0.5111, 0.3880 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, 121, 60) }
```

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

```
.border{ border-color:rgb(233, 121, 60) }
```

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

Here you see how a box with a 4 pixel `rgb(233, 121, 60)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 121, 60); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 121, 60);  
box-shadow:4px 4px 4px 4px rgb(233, 121,  
60) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.3246, 0.5111, 0.3880 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 121, 60) }
```

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

```
.background{ background-color: rgb(233,  
121, 60) }
```

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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