

# Converting Colors

$Y_{xy}(31.3211, 0.5212, 0.3770)$

Have a look what the booklet for  
Yxy(31.3211, 0.5212, 0.3770)  
contains.

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**Color**

**Yxy(31.3211, 0.5212, 0.3770)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F1733F
RGB	241, 115, 63
RGB Percent	95%, 45%, 25%
CMY	0.0549, 0.5490, 0.7532
CMYK	0.00, 0.52, 0.74, 0.05
HSL	18°, 86%, 60%
HSV	18°, 74%, 95%
XYZ	43.3012, 31.3211, 8.4575
YIQ	146.7460, 91.7880, 10.5400

# Conversions

## Conversions Part 2

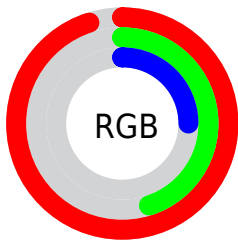
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	241, 136, 63
Decimal	15823679
CIE <sub>Lab</sub>	62.78, 45.17, 50.49
CIE <sub>LCh</sub>	63, 67.747, 48.182
Yxy	31.3211, 0.5212, 0.3770
Android (android.graphics.Color)	4294013759 (0xFFFF1733F)
YUV	146.7460, -41.2868, 82.6608
Hunter-Lab	55.9653, 40.1691, 30.2157

# Details

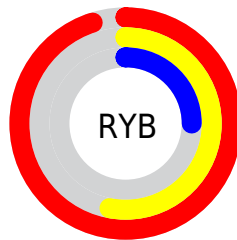
The Yxy color **31.3211, 0.5212, 0.3770** is a dark color, and the websafe version is hex **FF6633**. The color can be described as middle washed orange. A complement of this color would be **43.7685, 0.2128, 0.2580**, and the grayscale version is **29.2121, 0.3127, 0.3290**.

A 20% lighter version of the original color is **50.8282, 0.4439, 0.3863**, and **12.9368, 0.5779, 0.3710** is the 20% darker color. If you saturate the color by 10%, you get **27.5737, 0.5568, 0.3744**, and if you desaturate by 10%, it is **35.9091, 0.4834, 0.3753**.

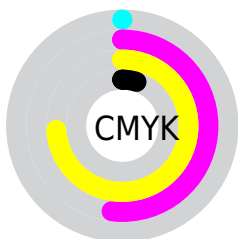
# Distribution



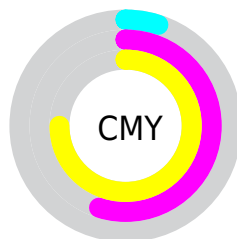
- Red (95%)
- Green (45%)
- Blue (25%)



- Red (95%)
- Yellow (53%)
- Blue (25%)



- Cyan (0%)
- Magenta (52%)
- Yellow (74%)
- Black (5%)




- Cyan (5%)
- Magenta (55%)
- Yellow (75%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.3211, 0.5212, 0.3770 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 31.3211, 0.5212, 0.3770 by changing the saturation by 10% instead.



 31.3211, 0.5212,  
0.3770


 31.3211, 0.5212,  
0.3770

308.0149, 0.4136,  
0.3632

 20.8435, 0.5467,  
0.3758


 61.7453, 0.4826,  
0.3752


 13.0096, 0.5775,  
0.3714


 82.4606, 0.4678,  
0.3735

 7.4352, 0.6173,  
0.3622


 107.3573, 0.4552,  
0.3717

 3.7357, 0.6608,  
0.3392

 136.8197, 0.4445,  
0.3698

 1.5269, 0.7070,  
0.2930

 171.2323, 0.4352,  
0.3680

 0.3075, 0.8322,  
0.1678

 210.9794, 0.4270,

 0.0000, 1.0000,

0.3663

0.0000

256.4455, 0.4199,  
0.3647

■ 0.0000, 0.0000,  
0.0000

■ 31.3211, 0.5212,  
0.3770

■ 31.3211, 0.5212,  
0.3770

■ 27.5737, 0.5568,  
0.3744

■ 35.9091, 0.4834,  
0.3753

■ 24.6052, 0.5863,  
0.3671


■ 41.3828, 0.4467,  
0.3704

■ 23.1402, 0.6008,  
0.3612


■ 47.7900, 0.4132,  
0.3634


■ 55.1732, 0.3837,  
0.3555

■ 63.5722, 0.3584,  
0.3474

 73.0246, 0.3369,  
0.3394

 83.5658, 0.3189,  
0.3318

 95.1820, 0.3042,  
0.3255

 97.4399, 0.3041,  
0.3290

# Harmonies

## Analogous

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



31.3211, 0.4915, 0.3072



31.3211, 0.5212, 0.3770



31.3211, 0.4833, 0.4509

# Triad

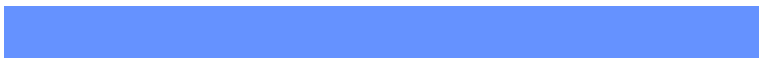
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



31.3211, 0.5212, 0.3770



31.3211, 0.2169, 0.4380



31.3211, 0.2025, 0.1778

# Complementary

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



31.3211, 0.5212, 0.3770



43.7685, 0.2128, 0.2580

# 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.



31.3211, 0.1545, 0.1842



31.3211, 0.5212, 0.3770



31.3211, 0.1588, 0.3138

# Square

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



31.3211, 0.5212, 0.3770



31.3211, 0.3070, 0.5235



31.3211, 0.1398, 0.2257



31.3211, 0.2871, 0.1993



# Rectangle

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



31.3211, 0.5212, 0.3770



31.3211, 0.4331, 0.4967



31.3211, 0.1398, 0.2257



31.3211, 0.1826, 0.1766

# Sweetspot

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



31.3228, 0.5212, 0.3770



74.1358, 0.3542, 0.3459



25.9904, 0.3794, 0.2080



15.2746, 0.3605, 0.3481



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.



31.3228, 0.5212, 0.3770



29.4244, 0.5737, 0.3711



61.4954, 0.4378, 0.4611



16.5120, 0.3286, 0.3360



12.7508, 0.5979, 0.3634



1.2264, 0.5722, 0.3839



# Inverse Universe

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



43.7685, 0.2128, 0.2580



43.7037, 0.2020, 0.2408



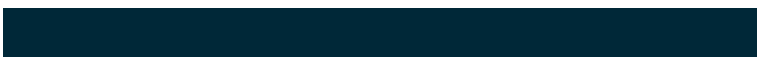
16.8145, 0.1814, 0.1348



17.1026, 0.2981, 0.3219



19.3845, 0.1975, 0.2309



1.7835, 0.2015, 0.2453



# Previews

## White Background



This preview shows how the Yxy color 31.3211, 0.5212, 0.3770 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 31.3211, 0.5212, 0.3770 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 31.3211, 0.5212, 0.3770**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.3211, 0.5212, 0.3770.



This preview shows how white text looks on a background with the Yxy color 31.3211, 0.5212, 0.3770.

# 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

31.3211, 0.5212, 0.3770

### Protanopia

31.3859, 0.4047, 0.4406

### Deuteranopia

31.4738, 0.4481, 0.4400



## Tritanopia

31.4313, 0.4709, 0.3223

# Trichromacy



**Original Color**

31.3211, 0.5212, 0.3770

**Protanomaly**

30.5095, 0.4480, 0.4162

**Deuteranomaly**

30.9110, 0.4771, 0.4144

**Tritanomaly**

31.2866, 0.4919, 0.3435

# Monochromacy



**Original Color**

31.3211, 0.5212, 0.3770

**Achromatopsia**

29.1771, 0.3127, 0.3290

**Achromatomaly**

28.4127, 0.3875, 0.3567

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.3211, 0.5212, 0.3770 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(241, 115, 63)` looks like.

```
.text, #text, p{  
    color:rgb(241, 115, 63)  
}
```

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(241, 115, 63) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(241, 115, 63) }
```

## Border

The CSS property to change the border of an element to Yxy 31.3211, 0.5212, 0.3770 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(241, 115, 63) }
```

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

```
.border{ border-color:rgb(241, 115, 63) }
```

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

Here you see how a box with a 4 pixel rgb(241, 115, 63) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(241, 115, 63); -webkit-box-  
shadow:4px 4px 4px 4px rgb(241, 115, 63);  
box-shadow:4px 4px 4px 4px rgb(241, 115,  
63) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.3211, 0.5212, 0.3770 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(241, 115, 63) }
```

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

```
.background{ background-color: rgb(241,  
115, 63) }
```

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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