

# Converting Colors

Yxy(31.5284, 0.5644, 0.3828)

Have a look what the booklet for  
Yxy(31.5284, 0.5644, 0.3828)  
contains.

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# Color

**Yxy(31.6222, 0.5639, 0.3832)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF6A15
RGB	255, 106, 21
RGB Percent	100%, 42%, 8%
CMY	0.0000, 0.5843, 0.9172
CMYK	0.00, 0.58, 0.92, 0.00
HSL	22°, 100%, 54%
HSV	22°, 92%, 100%
XYZ	46.5338, 31.6222, 4.3654
YIQ	140.8610, 116.0890, 5.1530

# Conversions

## Conversions Part 2

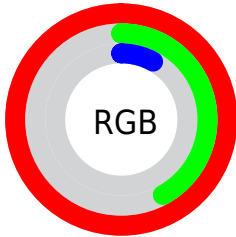
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 154, 21
Decimal	16738837
CIE <sub>Lab</sub>	63.03, 53.43, 67.81
CIE <sub>LCh</sub>	63, 86.329, 51.761
Yxy	31.6222, 0.5639, 0.3832
Android (android.graphics.Color)	4294928917 (0xFFFF6A15)
YUV	140.8610, -59.0915, 100.0999
Hunter-Lab	56.2336, 49.3015, 34.7609

# Details

The Yxy color **31.6222, 0.5639, 0.3832** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark washed orange. A complement of this color would be **36.1705, 0.1941, 0.2143**, and the grayscale version is **26.7836, 0.3127, 0.3290**.

A 20% lighter version of the original color is **47.2998, 0.4769, 0.4075**, and **13.2284, 0.6051, 0.3577** is the 20% darker color. If you saturate the color by 10%, you get **29.0102, 0.5833, 0.3751**, and if you desaturate by 10%, it is **35.4401, 0.5350, 0.3891**.

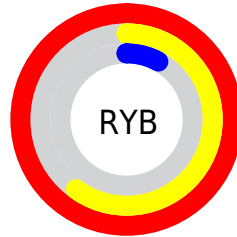
# Distribution



Red (100%)

Green (42%)

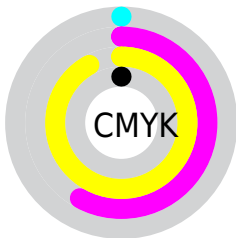
Blue (8%)



Red (100%)

Yellow (60%)

Blue (8%)

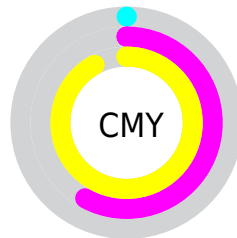


Cyan (0%)

Magenta (58%)

Yellow (92%)

Black (0%)



Cyan (0%)

Magenta (58%)


Yellow (92%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.6222, 0.5639, 0.3832 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 31.6222, 0.5639, 0.3832 by changing the saturation by 10% instead.




 31.6222, 0.5639,  
0.3832


 31.6222, 0.5639,  
0.3832


309.3946, 0.4406,  
0.3749


 21.0731, 0.5894,  
0.3778


 62.2183, 0.5222,  
0.3857

 13.1774, 0.6196,  
0.3680


 83.0342, 0.5055,  
0.3850

 7.5508, 0.6515,  
0.3485


 108.0410, 0.4909,  
0.3837


 3.8089, 0.6850,  
0.3150

 137.6233, 0.4782,  
0.3821

 1.5673, 0.7342,  
0.2658

 172.1654, 0.4670,  
0.3803

 0.3354, 0.8493,  
0.1507

 212.0518, 0.4572,


 0.0000, 1.0000,


0.3785


0.0000

 257.6667, 0.4484,  
0.3767

 0.0000, 0.0000,  
0.0000


 31.6222, 0.5639,  
0.3832


 31.6222, 0.5639,  
0.3832


 29.0102, 0.5833,  
0.3751


 35.4401, 0.5350,  
0.3891

 40.0457, 0.5018,  
0.3896

 45.4872, 0.4673,  
0.3857


 51.8089, 0.4340,  
0.3786

 59.0511, 0.4034,  
0.3696

 67.2516, 0.3763,  
0.3597

 76.4455, 0.3527,  
0.3496

 86.6664, 0.3326,  
0.3398

 97.9459, 0.3154,  
0.3305

# Harmonies

## Analogous

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



31.6222, 0.5464, 0.3049



31.6222, 0.5639, 0.3832



31.6222, 0.5003, 0.4730

# Triad

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



31.6222, 0.5639, 0.3832



31.6222, 0.1802, 0.4508



31.6222, 0.1883, 0.1513

# Complementary

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



31.6222, 0.5639, 0.3832



36.1705, 0.1941, 0.2143

# 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.



31.6222, 0.1301, 0.1529



31.6222, 0.5639, 0.3832



31.6222, 0.1223, 0.2877

# Square

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



31.6222, 0.5639, 0.3832



31.6222, 0.2818, 0.5771



31.6222, 0.1090, 0.1913



31.6222, 0.2938, 0.1793



# Rectangle

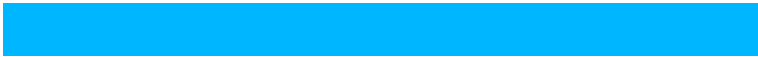
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



31.6222, 0.5639, 0.3832



31.6222, 0.4334, 0.5347



31.6222, 0.1090, 0.1913



31.6222, 0.1641, 0.1484

# Sweetspot

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



31.6216, 0.5639, 0.3832



70.5577, 0.3671, 0.3559



24.8225, 0.4241, 0.2145



14.2850, 0.3778, 0.3603



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.



31.6216, 0.5639, 0.3832



29.0102, 0.5833, 0.3751



72.4566, 0.4446, 0.4812



19.0663, 0.3285, 0.3377



15.4161, 0.5803, 0.3774



1.6999, 0.5587, 0.3946

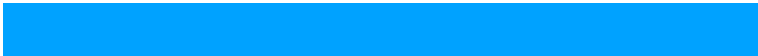


# Inverse Universe

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



36.1705, 0.1941, 0.2143



33.2190, 0.1897, 0.2030



10.2271, 0.1576, 0.0815



19.3076, 0.2980, 0.3202



17.6515, 0.1904, 0.2052



1.9265, 0.1947, 0.2209



# Previews

## White Background



This preview shows how the Yxy color 31.6222, 0.5639, 0.3832 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 31.6222, 0.5639, 0.3832 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 31.6222, 0.5639, 0.3832**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.6222, 0.5639, 0.3832.



This preview shows how white text looks on a background with the Yxy color 31.6222, 0.5639, 0.3832.

# 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

31.6222, 0.5639, 0.3832

### Protanopia

31.6686, 0.4316, 0.4764

### Deuteranopia

31.5883, 0.4716, 0.4638



## Tritanopia

31.6289, 0.4972, 0.3240

# Trichromacy



**Original Color**

31.6222, 0.5639, 0.3832

**Protanomaly**

30.2536, 0.4847, 0.4392

**Deuteranomaly**

30.8491, 0.5096, 0.4309

**Tritanomaly**

31.4823, 0.5308, 0.3526

# Monochromacy



**Original Color**

31.6222, 0.5639, 0.3832

**Achromatopsia**

26.6356, 0.3127, 0.3290

**Achromatomaly**

26.2465, 0.4152, 0.3736

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.6222, 0.5639, 0.3832 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(255, 106, 21)` looks like.

```
.text, #text, p{  
    color:rgb(255, 106, 21)  
}
```

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(255, 106, 21) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 106, 21) }
```

## Border

The CSS property to change the border of an element to Yxy 31.6222, 0.5639, 0.3832 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(255, 106, 21) }
```

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

```
.border{ border-color:rgb(255, 106, 21) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 106, 21)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 106, 21); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 106, 21);  
box-shadow:4px 4px 4px 4px rgb(255, 106,  
21) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.6222, 0.5639, 0.3832 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 106, 21) }
```

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

```
.background{ background-color: rgb(255,  
106, 21) }
```

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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