

# Converting Colors

$Y_{xy}(32.6687, 0.5675, 0.3817)$

Have a look what the booklet for  
Yxy(32.6687, 0.5675, 0.3817)  
contains.

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# Color

**Yxy(31.6151, 0.5645, 0.3837)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF6A13
RGB	255, 106, 19
RGB Percent	100%, 42%, 7%
CMY	0.0000, 0.5843, 0.9254
CMYK	0.00, 0.58, 0.93, 0.00
HSL	22°, 100%, 54%
HSV	22°, 93%, 100%
XYZ	46.5122, 31.6151, 4.2681
YIQ	140.6330, 116.7310, 4.5310

# Conversions

## Conversions Part 2

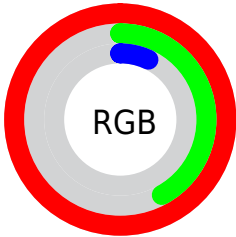
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 157, 19
Decimal	16738835
CIE Lab	63.02, 53.40, 68.31
CIE LCh	63, 86.702, 51.985
Yxy	31.6151, 0.5645, 0.3837
Android (android.graphics.Color)	4294928915 (0xFFFF6A13)
YUV	140.6330, -59.9651, 100.2999
Hunter-Lab	56.2273, 49.2604, 34.8586

# Details

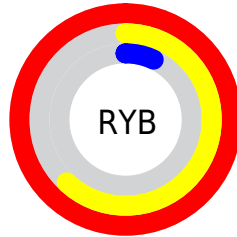
The Yxy color **31.6151, 0.5645, 0.3837** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark washed orange. A complement of this color would be **35.3721, 0.1931, 0.2113**, and the grayscale version is **26.6924, 0.3127, 0.3290**.

A 20% lighter version of the original color is **47.2856, 0.4776, 0.4082**, and **13.2284, 0.6051, 0.3577** is the 20% darker color. If you saturate the color by 10%, you get **29.2641, 0.5817, 0.3763**, and if you desaturate by 10%, it is **35.3916, 0.5363, 0.3899**.

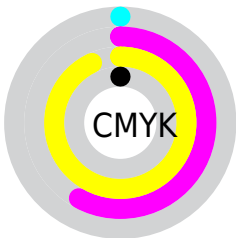
# Distribution



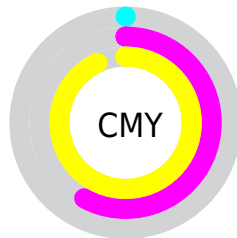
- Red (100%)
- Green (42%)
- Blue (7%)



- Red (100%)
- Yellow (62%)
- Blue (7%)



- Cyan (0%)
- Magenta (58%)
- Yellow (93%)
- Black (0%)




- Cyan (0%)
- Magenta (58%)
- Yellow (93%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.6151, 0.5645, 0.3837 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 31.6151, 0.5645, 0.3837 by changing the saturation by 10% instead.





 31.6151, 0.5645,  
0.3837


 31.6151, 0.5645,  
0.3837

309.3622, 0.4412,  
0.3754

 21.0677, 0.5899,  
0.3783


 62.2072, 0.5229,  
0.3863

 13.1735, 0.6201,  
0.3684

 83.0207, 0.5061,  
0.3856


 7.5481, 0.6514,  
0.3486


 108.0249, 0.4915,  
0.3842

 3.8072, 0.6849,  
0.3151

 137.6044, 0.4788,  
0.3826

 1.5663, 0.7341,  
0.2659

 172.1435, 0.4676,  
0.3808

 0.3347, 0.8494,  
0.1506

 212.0265, 0.4577,


 0.0000, 1.0000,


0.3790


0.0000


 257.6379, 0.4490,  
0.3772

 0.0000, 0.0000,  
0.0000

 31.6151, 0.5645,  
0.3837


 31.6151, 0.5645,  
0.3837


 29.2641, 0.5817,  
0.3763

 35.3916, 0.5363,  
0.3899

 39.9396, 0.5036,  
0.3908

 45.3096, 0.4693,  
0.3871

 51.5449, 0.4361,  
0.3801

 58.6856, 0.4055,  
0.3710

66.7687, 0.3782,  
0.3610

75.8290, 0.3545,  
0.3507

85.8994, 0.3341,  
0.3407

97.0112, 0.3167,  
0.3313

# Harmonies

## Analogous

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



31.6151, 0.5479, 0.3052



31.6151, 0.5645, 0.3837



31.6151, 0.5001, 0.4738

# Triad

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



31.6151, 0.5645, 0.3837



31.6151, 0.1790, 0.4501



31.6151, 0.1885, 0.1509

# Complementary

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



31.6151, 0.5645, 0.3837



35.3721, 0.1931, 0.2113

# 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.



31.6151, 0.1298, 0.1522



31.6151, 0.5645, 0.3837



31.6151, 0.1214, 0.2865

# Square

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



31.6151, 0.5645, 0.3837



31.6151, 0.2806, 0.5779



31.6151, 0.1085, 0.1903



31.6151, 0.2947, 0.1792



# Rectangle

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



31.6151, 0.5645, 0.3837



31.6151, 0.4327, 0.5359



31.6151, 0.1085, 0.1903



31.6151, 0.1641, 0.1479

# Sweetspot

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



31.6168, 0.5645, 0.3837



70.7566, 0.3670, 0.3563



24.5717, 0.4314, 0.2182



14.3320, 0.3776, 0.3607



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.



31.6168, 0.5645, 0.3837



29.2641, 0.5817, 0.3763



74.3700, 0.4418, 0.4840



19.0835, 0.3285, 0.3378



15.5512, 0.5788, 0.3787

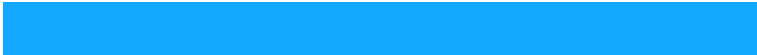


1.7144, 0.5573, 0.3957

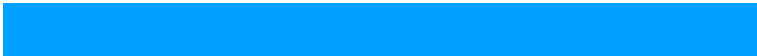


# Inverse Universe

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



35.3721, 0.1931, 0.2113



32.7124, 0.1892, 0.2009



9.6823, 0.1563, 0.0777



19.2897, 0.2979, 0.3200



17.3880, 0.1898, 0.2032



1.9019, 0.1942, 0.2191



# Previews

## White Background



This preview shows how the Yxy color 31.6151, 0.5645, 0.3837 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

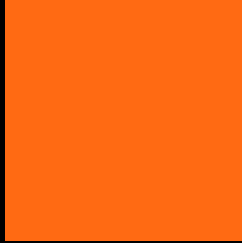
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.6151, 0.5645, 0.3837 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 31.6151, 0.5645, 0.3837**

## Background



This preview shows how black text looks on a background with the Yxy color 31.6151, 0.5645, 0.3837.



This preview shows how white text looks on a background with the Yxy color 31.6151, 0.5645, 0.3837.

# 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

31.6151, 0.5645, 0.3837

### Protanopia

31.6574, 0.4324, 0.4776

### Deuteranopia

31.5883, 0.4716, 0.4638



## Tritanopia

31.6289, 0.4972, 0.3240

## Trichromacy



**Original Color**

31.6151, 0.5645, 0.3837

**Protanomaly**

30.2440, 0.4854, 0.4401

**Deuteranomaly**

30.8469, 0.5097, 0.4311

**Tritanomaly**

31.4685, 0.5318, 0.3533

## Monochromacy



**Original Color**

31.6151, 0.5645, 0.3837

**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 31.6151, 0.5645, 0.3837 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, 19)` looks like.

```
.text, #text, p{  
    color:rgb(255, 106, 19)  
}
```

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, 19) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 106, 19) }
```

## Border

The CSS property to change the border of an element to Yxy 31.6151, 0.5645, 0.3837 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, 19) }
```

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

```
.border{ border-color:rgb(255, 106, 19) }
```

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, 19)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 106, 19); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 106, 19);  
box-shadow:4px 4px 4px 4px rgb(255, 106,  
19) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.6151, 0.5645, 0.3837 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, 19) }
```

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

```
.background{ background-color: rgb(255,  
106, 19) }
```

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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