

# Converting Colors

$Y_{xy}(30.8927, 0.5662, 0.3788)$

Have a look what the booklet for  
Yxy(30.8927, 0.5662, 0.3788)  
contains.

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**Color**

**Yxy(30.8373, 0.5665, 0.3783)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF661A
RGB	255, 102, 26
RGB Percent	100%, 40%, 10%
CMY	0.0000, 0.6000, 0.8978
CMYK	0.00, 0.60, 0.90, 0.00
HSL	20°, 100%, 55%
HSV	20°, 90%, 100%
XYZ	46.1785, 30.8373, 4.4997
YIQ	139.0830, 115.5840, 8.8000

# Conversions

## Conversions Part 2

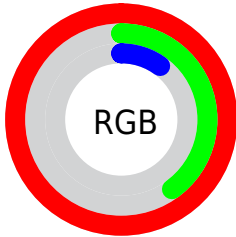
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 140, 26
Decimal	16737818
CIE Lab	62.37, 55.27, 65.97
CIE LCh	62, 86.065, 50.046
Yxy	30.8373, 0.5665, 0.3783
Android (android.graphics.Color)	4294927898 (0xFFFF661A)
YUV	139.0830, -55.7499, 101.6592
Hunter-Lab	55.5313, 51.2564, 34.0677

# Details

The Yxy color **30.8373, 0.5665, 0.3783** 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 **39.7063, 0.1980, 0.2272**, and the grayscale version is **26.0425, 0.3127, 0.3290**.

A 20% lighter version of the original color is **45.9680, 0.4784, 0.4014**, and **12.8239, 0.6108, 0.3532** is the 20% darker color. If you saturate the color by 10%, you get **27.7528, 0.5911, 0.3687**, and if you desaturate by 10%, it is **34.7094, 0.5354, 0.3835**.

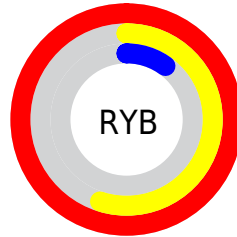
# Distribution



Red (100%)

Green (40%)

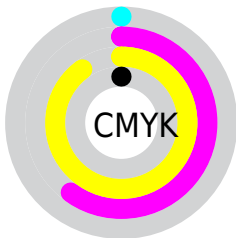
Blue (10%)



Red (100%)

Yellow (55%)

Blue (10%)

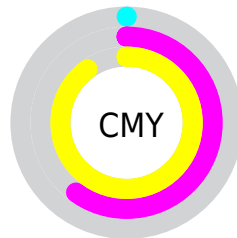


Cyan (0%)

Magenta (60%)

Yellow (90%)

Black (0%)



Cyan (0%)

Magenta (60%)


Yellow (90%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 30.8373, 0.5665, 0.3783 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 30.8373, 0.5665, 0.3783 by changing the saturation by 10% instead.




 30.8373, 0.5665,  
0.3783


 30.8373, 0.5665,  
0.3783


305.7881, 0.4409,  
0.3722


 20.4750, 0.5929,  
0.3725


 60.9838, 0.5237,  
0.3815

 12.7408, 0.6241,  
0.3619


 81.5368, 0.5066,  
0.3811


 7.2503, 0.6581,  
0.3419


 106.2555, 0.4917,  
0.3800

 3.6191, 0.6930,  
0.3070

 135.5243, 0.4788,  
0.3786

 1.4629, 0.7442,  
0.2558

 169.7275, 0.4675,  
0.3770


 0.2624, 0.8757,  
0.1243

 209.2496, 0.4575,

 0.0000, 1.0000,

0.3754


0.0000

 254.4750, 0.4487,  
0.3738


 0.0000, 0.0000,  
0.0000


 30.8373, 0.5665,  
0.3783


 30.8373, 0.5665,  
0.3783


 27.7528, 0.5911,  
0.3687


 34.7094, 0.5354,  
0.3835

 27.6915, 0.5916,  
0.3685

 39.4307, 0.5002,  
0.3837

 45.0565, 0.4642,  
0.3797

 51.6351, 0.4301,  
0.3729

 59.2110, 0.3992,  
0.3645

67.8256, 0.3721,  
0.3553

77.5178, 0.3489,  
0.3461

88.3245, 0.3291,  
0.3372

99.9999, 0.3127,  
0.3290

# Harmonies

## Analogous

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



30.8373, 0.5434, 0.3004



30.8373, 0.5665, 0.3783



30.8373, 0.5059, 0.4677

# Triad

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



30.8373, 0.5665, 0.3783



30.8373, 0.1844, 0.4615



30.8373, 0.1832, 0.1500

# Complementary

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



30.8373, 0.5665, 0.3783



39.7063, 0.1980, 0.2272

# 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.



30.8373, 0.1273, 0.1533



30.8373, 0.5665, 0.3783



30.8373, 0.1235, 0.2952

# Square

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



30.8373, 0.5665, 0.3783



30.8373, 0.2879, 0.5814



30.8373, 0.1081, 0.1944



30.8373, 0.2863, 0.1764



# Rectangle

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



30.8373, 0.5665, 0.3783



30.8373, 0.4398, 0.5303



30.8373, 0.1081, 0.1944



30.8373, 0.1599, 0.1476

# Sweetspot

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



30.8391, 0.5665, 0.3783



70.4064, 0.3653, 0.3527



25.4002, 0.4097, 0.2077



14.3929, 0.3737, 0.3559



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.



30.8391, 0.5665, 0.3783



27.6917, 0.5916, 0.3685



68.9381, 0.4498, 0.4754



18.9713, 0.3286, 0.3369



14.7125, 0.5886, 0.3709



1.6233, 0.5666, 0.3883

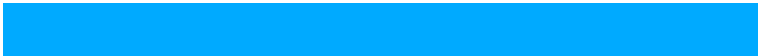


# Inverse Universe

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



39.7063, 0.1980, 0.2272



36.1257, 0.1929, 0.2144



11.5799, 0.1607, 0.0905



19.4065, 0.2980, 0.3209



19.1620, 0.1935, 0.2165



2.0664, 0.1975, 0.2308



# Previews

## White Background



This preview shows how the Yxy color 30.8373, 0.5665, 0.3783 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 30.8373, 0.5665, 0.3783 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 30.8373, 0.5665, 0.3783**

## Background



This preview shows how black text looks on a background with the Yxy color 30.8373, 0.5665, 0.3783.



This preview shows how white text looks on a background with the Yxy color 30.8373, 0.5665, 0.3783.

# 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

30.8373, 0.5665, 0.3783

### Protanopia

31.1490, 0.4284, 0.4736

### Deuteranopia

30.7213, 0.4722, 0.4633



## Tritanopia

30.7887, 0.5049, 0.3241

# Trichromacy



## Original Color

30.8373, 0.5665, 0.3783

## Protanomaly

29.5832, 0.4840, 0.4352

## Deuteranomaly

29.7542, 0.5116, 0.4288

## Tritanomaly

30.6917, 0.5352, 0.3497

# Monochromacy



## Original Color

30.8373, 0.5665, 0.3783

## Achromatopsia

25.8183, 0.3127, 0.3290

## Achromatomaly

25.6273, 0.4142, 0.3696

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 30.8373, 0.5665, 0.3783 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, 102, 26)` looks like.

```
.text, #text, p{  
    color:rgb(255, 102, 26)  
}
```

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, 102, 26) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 102, 26) }
```

## Border

The CSS property to change the border of an element to Yxy 30.8373, 0.5665, 0.3783 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, 102, 26) }
```

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

```
.border{ border-color:rgb(255, 102, 26) }
```

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

Here you see how a box with a 4 pixel rgb(255, 102, 26) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 102, 26); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 102, 26);  
box-shadow:4px 4px 4px 4px rgb(255, 102,  
26) }
```



# Background

The CSS property to change the background color of an element to Yxy 30.8373, 0.5665, 0.3783 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 102, 26) }
```

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

```
.background{ background-color: rgb(255,  
102, 26) }
```

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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