

# Converting Colors

$Y_{xy}(30.6235, 0.5779, 0.3993)$

Have a look what the booklet for  
Yxy(30.6235, 0.5779, 0.3993)  
contains.

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**Color**

**Yxy(30.8394, 0.5647, 0.3898)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FA6B00
RGB	250, 107, 0
RGB Percent	98%, 42%, 0%
CMY	0.0197, 0.5803, 0.9997
CMYK	0.00, 0.57, 1.00, 0.02
HSL	26°, 100%, 49%
HSV	26°, 100%, 98%
XYZ	44.6768, 30.8394, 3.5998
YIQ	137.5590, 119.5750, -2.9610

# Conversions

## Conversions Part 2

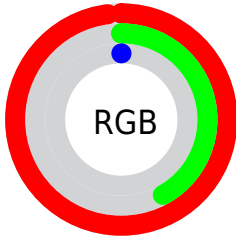
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	250, 187, 0
Decimal	16411392
CIE <sub>Lab</sub>	62.37, 50.95, 70.93
CIE <sub>LCh</sub>	62, 87.337, 54.310
Yxy	30.8394, 0.5647, 0.3898
Android (android.graphics.Color)	4294601472 (0xFFFA6B00)
YUV	137.5590, -67.8166, 98.6108
Hunter-Lab	55.5332, 46.4210, 35.0300

# Details

The Yxy color **30.8394, 0.5647, 0.3898** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **26.5535, 0.1833, 0.1797**, and the grayscale version is **25.4744, 0.3127, 0.3290**.

A 20% lighter version of the original color is **47.5303, 0.4817, 0.4145**, and **12.8605, 0.5994, 0.3622** is the 20% darker color. If you saturate the color by 10%, you get **30.8323, 0.5648, 0.3898**, and if you desaturate by 10%, it is **34.1447, 0.5424, 0.3985**.

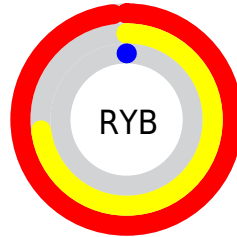
# Distribution



Red (98%)

Green (42%)

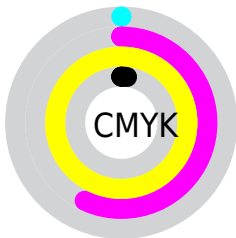
Blue (0%)



Red (98%)

Yellow (73%)

Blue (0%)

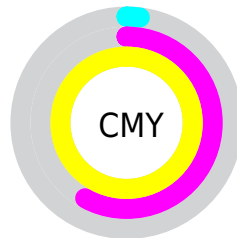


Cyan (0%)

Magenta (57%)

Yellow (100%)

Black (2%)



Cyan (2%)

Magenta (58%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 30.8394, 0.5647, 0.3898 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 30.8394, 0.5647, 0.3898 by changing the saturation by 10% instead.




 30.8394, 0.5647,  
0.3898

 30.8394, 0.5647,  
0.3898


305.7978, 0.4422,  
0.3795


 20.4766, 0.5893,  
0.3843


 60.9871, 0.5238,  
0.3921

 12.7419, 0.6203,  
0.3753


 81.5408, 0.5072,  
0.3911


 7.2511, 0.6468,  
0.3532


 106.2603, 0.4926,  
0.3896

 3.6196, 0.6802,  
0.3198

 135.5299, 0.4799,  
0.3877

 1.4631, 0.7299,  
0.2701

 169.7341, 0.4687,  
0.3856

 0.2626, 0.8646,  
0.1354

 209.2572, 0.4588,

 0.0000, 1.0000,


0.3835


0.0000

 254.4836, 0.4500,  
0.3815


 0.0000, 0.0000,  
0.0000


 30.8394, 0.5647,  
0.3898

 30.8394, 0.5647,  
0.3898


 30.8323, 0.5648,  
0.3898

 34.1447, 0.5424,  
0.3985

 38.0539, 0.5153,  
0.4023

 42.6176, 0.4849,  
0.4006

 47.8726, 0.4536,  
0.3946

 53.8518, 0.4234,  
0.3855

60.5856, 0.3954,  
0.3746

68.1023, 0.3703,  
0.3629

76.4285, 0.3483,  
0.3511

85.5894, 0.3292,  
0.3397

# Harmonies

## Analogous

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



30.8394, 0.5562, 0.3102



30.8394, 0.5647, 0.3898



30.8394, 0.4942, 0.4819

# Triad

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



30.8394, 0.5647, 0.3898



30.8394, 0.1707, 0.4382



30.8394, 0.1934, 0.1502

# Complementary

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



30.8394, 0.5647, 0.3898



26.5535, 0.1833, 0.1797

# 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.



30.8394, 0.1310, 0.1490



30.8394, 0.5647, 0.3898



30.8394, 0.1168, 0.2752

# Square

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



30.8394, 0.5647, 0.3898



30.8394, 0.2706, 0.5774



30.8394, 0.1069, 0.1837



30.8394, 0.3046, 0.1809



# Rectangle

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



30.8394, 0.5647, 0.3898



30.8394, 0.4245, 0.5445



30.8394, 0.1069, 0.1837



30.8394, 0.1676, 0.1465

# Sweetspot

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



30.8412, 0.5647, 0.3898



71.2025, 0.3705, 0.3629



22.3923, 0.4641, 0.2330



14.5085, 0.3807, 0.3679



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.



30.8412, 0.5647, 0.3898



32.2260, 0.5649, 0.3896



76.4433, 0.4350, 0.4928



18.4466, 0.3283, 0.3392



16.6297, 0.5619, 0.3920



1.7458, 0.5409, 0.4087



# Inverse Universe

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



26.5535, 0.1833, 0.1797



27.7364, 0.1832, 0.1795



7.4338, 0.1512, 0.0641



18.2916, 0.2980, 0.3186



14.3737, 0.1840, 0.1823



1.5416, 0.1893, 0.2014



# Previews

## White Background



This preview shows how the Yxy color 30.8394, 0.5647, 0.3898 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 30.8394, 0.5647, 0.3898 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 30.8394, 0.5647, 0.3898**

## Background



This preview shows how black text looks on a background with the Yxy color 30.8394, 0.5647, 0.3898.



This preview shows how white text looks on a background with the Yxy color 30.8394, 0.5647, 0.3898.

# 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

30.8394, 0.5647, 0.3898

### Protanopia

31.0685, 0.4342, 0.4822

### Deuteranopia

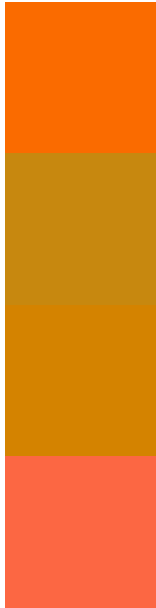
31.0229, 0.4709, 0.4643



## Tritanopia

31.0376, 0.4975, 0.3239

# Trichromacy



## Original Color

30.8394, 0.5647, 0.3898

## Protanomaly

29.7849, 0.4863, 0.4464

## Deuteranomaly

30.2296, 0.5076, 0.4351

## Tritanomaly

30.8012, 0.5372, 0.3597

# Monochromacy



## Original Color

30.8394, 0.5647, 0.3898

## Achromatopsia

25.4152, 0.3127, 0.3290

## Achromatomaly

25.4670, 0.4228, 0.3854

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 30.8394, 0.5647, 0.3898 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(250, 107, 0)` looks like.

```
.text, #text, p{  
    color:rgb(250, 107, 0)  
}
```

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(250, 107, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(250, 107, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 30.8394, 0.5647, 0.3898 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(250, 107, 0) }
```

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

```
.border{ border-color:rgb(250, 107, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(250, 107, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(250, 107, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(250, 107, 0);  
box-shadow:4px 4px 4px 4px rgb(250, 107,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 30.8394, 0.5647, 0.3898 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(250, 107, 0) }
```

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

```
.background{ background-color: rgb(250,  
107, 0) }
```

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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