

# Converting Colors

$Y_{xy}(31.6950, 0.5589, 0.3898)$

Have a look what the booklet for  
Yxy(31.6950, 0.5589, 0.3898)  
contains.

<b>Yxy(31.6956, 0.5589, 0.3898)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(31.6956, 0.5589, 0.3898)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FB6E0F
RGB	251, 110, 15
RGB Percent	98%, 43%, 6%
CMY	0.0157, 0.5686, 0.9415
CMYK	0.00, 0.56, 0.94, 0.02
HSL	24°, 97%, 52%
HSV	24°, 94%, 98%
XYZ	45.4455, 31.6956, 4.1713
YIQ	141.3290, 114.5310, 0.3470

# Conversions

## Conversions Part 2

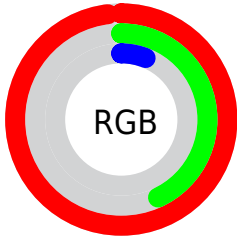
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	251, 174, 15
Decimal	16477711
CIE <sub>Lab</sub>	63.09, 50.07, 68.94
CIE <sub>LCh</sub>	63, 85.206, 54.009
Yxy	31.6956, 0.5589, 0.3898
Android (android.graphics.Color)	4294667791 (0xFFFB6E0F)
YUV	141.3290, -62.2802, 96.1815
Hunter-Lab	56.2988, 45.5657, 35.0162

# Details

The Yxy color **31.6956, 0.5589, 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 **30.8125, 0.1890, 0.1976**, and the grayscale version is **26.9860, 0.3127, 0.3290**.

A 20% lighter version of the original color is **48.6783, 0.4753, 0.4134**, and **13.2675, 0.5960, 0.3650** is the 20% darker color. If you saturate the color by 10%, you get **29.8359, 0.5720, 0.3840**, and if you desaturate by 10%, it is **35.3297, 0.5328, 0.3963**.

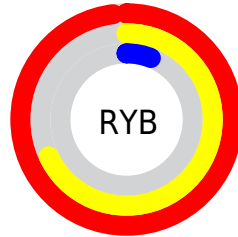
# Distribution



Red (98%)

Green (43%)

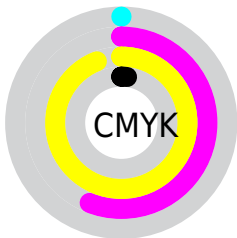
Blue (6%)



Red (98%)

Yellow (68%)

Blue (6%)

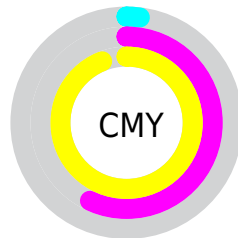


Cyan (0%)

Magenta (56%)

Yellow (94%)

Black (2%)



Cyan (2%)

Magenta (57%)

Yellow (94%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.6956, 0.5589, 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 31.6956, 0.5589, 0.3898 by changing the saturation by 10% instead.





 31.6956, 0.5589,  
0.3898


 31.6956, 0.5589,  
0.3898


309.7303, 0.4386,  
0.3781

 21.1291, 0.5835,  
0.3851


 62.3336, 0.5185,  
0.3912


 13.2184, 0.6129,  
0.3764

 83.1739, 0.5021,  
0.3900

 7.5791, 0.6425,  
0.3575


 108.2075, 0.4879,  
0.3882

 3.8268, 0.6748,  
0.3252

 137.8189, 0.4754,  
0.3863

 1.5772, 0.7226,  
0.2774

 172.3925, 0.4645,  
0.3842

 0.3421, 0.8375,  
0.1625

 212.3127, 0.4549,

 0.0000, 1.0000,

0.3821


0.0000

 257.9638, 0.4463,  
0.3801

 0.0000, 0.0000,  
0.0000

 31.6956, 0.5589,  
0.3898

 31.6956, 0.5589,  
0.3898


 29.8359, 0.5720,  
0.3840

 35.3297, 0.5328,  
0.3963

 39.6454, 0.5022,  
0.3973

 44.6870, 0.4698,  
0.3934

 50.4924, 0.4378,  
0.3860

 57.0961, 0.4079,  
0.3763

64.5300, 0.3810,  
0.3655

72.8242, 0.3573,  
0.3544

82.0071, 0.3368,  
0.3434

92.1056, 0.3191,  
0.3330

# Harmonies

## Analogous

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



31.6956, 0.5482, 0.3112



31.6956, 0.5589, 0.3898



31.6956, 0.4923, 0.4794

# Triad

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



31.6956, 0.5589, 0.3898



31.6956, 0.1759, 0.4362



31.6956, 0.1958, 0.1541

# Complementary

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



31.6956, 0.5589, 0.3898



30.8125, 0.1890, 0.1976

# 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.



31.6956, 0.1347, 0.1534



31.6956, 0.5589, 0.3898



31.6956, 0.1218, 0.2789

# Square

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



31.6956, 0.5589, 0.3898



31.6956, 0.2744, 0.5687



31.6956, 0.1112, 0.1885



31.6956, 0.3039, 0.1840



# Rectangle

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



31.6956, 0.5589, 0.3898



31.6956, 0.4250, 0.5392



31.6956, 0.1112, 0.1885



31.6956, 0.1706, 0.1505

# Sweetspot

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



31.6974, 0.5589, 0.3898



71.9706, 0.3663, 0.3588



23.2682, 0.4464, 0.2258



14.6194, 0.3767, 0.3636



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.



31.6974, 0.5589, 0.3898



30.9031, 0.5722, 0.3839



75.6962, 0.4361, 0.4895



18.3728, 0.3284, 0.3386



15.9502, 0.5691, 0.3863



1.6789, 0.5474, 0.4036



# Inverse Universe

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



30.8125, 0.1890, 0.1976



29.7705, 0.1857, 0.1885



8.4861, 0.1543, 0.0715



18.3671, 0.2980, 0.3192



15.4032, 0.1864, 0.1911



1.6343, 0.1915, 0.2093



# Previews

## White Background



This preview shows how the Yxy color 31.6956, 0.5589, 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 31.6956, 0.5589, 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 31.6956, 0.5589, 0.3898**

## Background



This preview shows how black text looks on a background with the Yxy color 31.6956, 0.5589, 0.3898.



This preview shows how white text looks on a background with the Yxy color 31.6956, 0.5589, 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

31.6956, 0.5589, 0.3898

### Protanopia

31.6370, 0.4339, 0.4797

### Deuteranopia

31.5883, 0.4716, 0.4638



## Tritanopia

31.6777, 0.4932, 0.3229

# Trichromacy



## Original Color

31.6956, 0.5589, 0.3898

## Protanomaly

30.3707, 0.4846, 0.4435

## Deuteranomaly

30.8096, 0.5071, 0.4339

## Tritanomaly

31.4938, 0.5286, 0.3555

# Monochromacy



## Original Color

31.6956, 0.5589, 0.3898

## Achromatopsia

26.6356, 0.3127, 0.3290

## Achromatomaly

26.6152, 0.4149, 0.3794

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.6956, 0.5589, 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(251, 110, 15)` looks like.

```
.text, #text, p{  
    color:rgb(251, 110, 15)  
}
```

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(251, 110, 15) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(251, 110, 15) }
```

## Border

The CSS property to change the border of an element to Yxy 31.6956, 0.5589, 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(251, 110, 15) }
```

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

```
.border{ border-color:rgb(251, 110, 15) }
```

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

Here you see how a box with a 4 pixel `rgb(251, 110, 15)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(251, 110, 15); -webkit-box-  
shadow:4px 4px 4px 4px rgb(251, 110, 15);  
box-shadow:4px 4px 4px 4px rgb(251, 110,  
15) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.6956, 0.5589, 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(251, 110, 15) }
```

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

```
.background{ background-color: rgb(251,  
110, 15) }
```

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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