

Converting Colors

$Y_{xy}(31.7241, 0.5648, 0.3850)$

Have a look what the booklet for
Yxy(31.7241, 0.5648, 0.3850)
contains.

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Color

Yxy(31.8099, 0.5644, 0.3854)

Conversions

Conversions Part 1

Format	Color
Hex	FF6B0F
RGB	255, 107, 15
RGB Percent	100%, 42%, 6%
CMY	0.0000, 0.5804, 0.9404
CMYK	0.00, 0.58, 0.94, 0.00
HSL	23°, 100%, 53%
HSV	23°, 94%, 100%
XYZ	46.5841, 31.8099, 4.1434
YIQ	140.7640, 117.7400, 2.7640

Conversions

Conversions Part 2

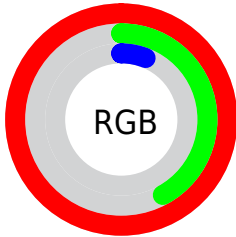
Format	Color
R _Y B	255, 164, 15
Decimal	16739087
CIE Lab	63.19, 52.90, 69.26
CIE LCh	63, 87.149, 52.625
Yxy	31.8099, 0.5644, 0.3854
Android (android.graphics.Color)	4294929167 (0xFFFF6B0F)
YUV	140.7640, -62.0017, 100.1850
Hunter-Lab	56.4003, 48.7325, 35.1245

Details

The Yxy color **31.8099, 0.5644, 0.3854** 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 **33.5782, 0.1909, 0.2043**, and the grayscale version is **26.7615, 0.3127, 0.3290**.

A 20% lighter version of the original color is **47.6087, 0.4780, 0.4105**, and **13.4031, 0.6027, 0.3596** is the 20% darker color. If you saturate the color by 10%, you get **29.9272, 0.5778, 0.3794**, and if you desaturate by 10%, it is **35.5200, 0.5376, 0.3922**.

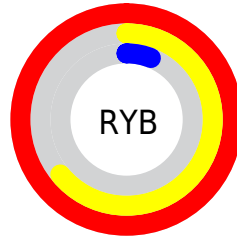
Distribution



Red (100%)

Green (42%)

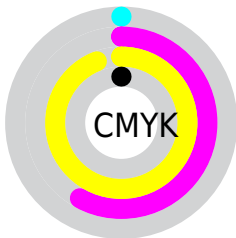
Blue (6%)



Red (100%)

Yellow (64%)

Blue (6%)

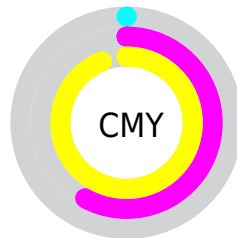


Cyan (0%)

Magenta (58%)

Yellow (94%)

Black (0%)



Cyan (0%)


Magenta (58%)


Yellow (94%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 31.8099, 0.5644, 0.3854 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 31.8099, 0.5644, 0.3854 by changing the saturation by 10% instead.

 31.8099, 0.5644,
0.3854


 31.8099, 0.5644,
0.3854


310.2524, 0.4416,
0.3766


 21.2163, 0.5895,
0.3800


 62.5130, 0.5232,
0.3879


 13.2822, 0.6195,
0.3703


 83.3912, 0.5065,
0.3871


 7.6232, 0.6496,
0.3504


 108.4665, 0.4919,
0.3857


 3.8548, 0.6828,
0.3172

 138.1233, 0.4792,
0.3840

 1.5927, 0.7315,
0.2685

 172.7458, 0.4680,
0.3822

 0.3526, 0.8432,
0.1568

 212.7186, 0.4582,


 0.0000, 1.0000,


0.3803


0.0000


 258.4260, 0.4494,
0.3784


 0.0000, 0.0000,
0.0000


 31.8099, 0.5644,
0.3854

 31.8099, 0.5644,
0.3854


 29.9272, 0.5778,
0.3794

 35.5200, 0.5376,
0.3922

 39.9701, 0.5060,
0.3936

 45.2093, 0.4726,
0.3902

 51.2796, 0.4397,
0.3833

 58.2195, 0.4091,
0.3741

66.0645, 0.3816,
0.3638

74.8482, 0.3576,
0.3531

84.6020, 0.3369,
0.3427

95.3560, 0.3191,
0.3328

Harmonies

Analogous

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



31.8099, 0.5500, 0.3067



31.8099, 0.5644, 0.3854



31.8099, 0.4984, 0.4760

Triad

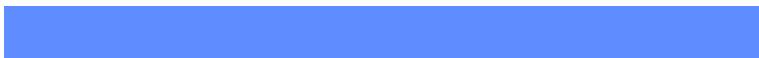
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



31.8099, 0.5644, 0.3854



31.8099, 0.1768, 0.4468



31.8099, 0.1899, 0.1508

Complementary

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



31.8099, 0.5644, 0.3854



33.5782, 0.1909, 0.2043

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.



31.8099, 0.1303, 0.1515



31.8099, 0.5644, 0.3854



31.8099, 0.1203, 0.2834

Square

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



31.8099, 0.5644, 0.3854



31.8099, 0.2780, 0.5775



31.8099, 0.1082, 0.1886



31.8099, 0.2974, 0.1798

Rectangle

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



31.8099, 0.5644, 0.3854



31.8099, 0.4305, 0.5381



31.8099, 0.1082, 0.1886



31.8099, 0.1652, 0.1477

Sweetspot

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



31.8117, 0.5644, 0.3854



71.2623, 0.3667, 0.3573



24.3986, 0.4339, 0.2187



14.4516, 0.3772, 0.3619



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.



31.8117, 0.5644, 0.3854



29.9282, 0.5778, 0.3794



74.0809, 0.4426, 0.4842



19.1272, 0.3285, 0.3382



15.9042, 0.5748, 0.3818



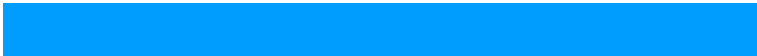
1.7519, 0.5536, 0.3986

Inverse Universe

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



33.5782, 0.1909, 0.2043



31.4558, 0.1877, 0.1957



9.3687, 0.1554, 0.0755



19.2446, 0.2979, 0.3197



16.7341, 0.1884, 0.1981



1.8408, 0.1930, 0.2146

Previews

White Background



This preview shows how the Yxy color 31.8099, 0.5644, 0.3854 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 31.8099, 0.5644, 0.3854 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 31.8099, 0.5644, 0.3854

Background



This preview shows how black text looks on a background with the Yxy color 31.8099, 0.5644, 0.3854.



This preview shows how white text looks on a background with the Yxy color 31.8099, 0.5644, 0.3854.

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

31.8099, 0.5644, 0.3854

Protanopia

32.0841, 0.4335, 0.4794

Deuteranopia

32.0271, 0.4713, 0.4640



Tritanopia

31.8455, 0.4953, 0.3239

Trichromacy



Original Color

31.8099, 0.5644, 0.3854

Protanomaly

30.6538, 0.4862, 0.4417

Deuteranomaly

31.1146, 0.5086, 0.4323

Tritanomaly

31.6550, 0.5319, 0.3550

Monochromacy



Original Color

31.8099, 0.5644, 0.3854

Achromatopsia

26.6356, 0.3127, 0.3290

Achromatomaly

26.4718, 0.4168, 0.3778

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.8099, 0.5644, 0.3854 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, 107, 15)` looks like.

```
.text, #text, p{  
    color:rgb(255, 107, 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(255, 107, 15) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 107, 15) }
```

Border

The CSS property to change the border of an element to Yxy 31.8099, 0.5644, 0.3854 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, 107, 15) }
```

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

```
.border{ border-color:rgb(255, 107, 15) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 107, 15)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 107, 15); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 107, 15);  
box-shadow:4px 4px 4px 4px rgb(255, 107,  
15) }
```


Background

The CSS property to change the background color of an element to Yxy 31.8099, 0.5644, 0.3854 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 107, 15) }
```

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

```
.background{ background-color: rgb(255,  
107, 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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