

# Converting Colors

XYZ(46.5585, 31.6072, 4.5963)

Have a look what the booklet for  
XYZ(46.5585, 31.6072, 4.5963)  
contains.

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# Color

**XYZ(46.5805, 31.6426,  
4.6299)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF6A1A
RGB	255, 106, 26
RGB Percent	100%, 42%, 10%
CMY	0.0000, 0.5843, 0.8980
CMYK	0.00, 0.58, 0.90, 0.00
HSL	21°, 100%, 55%
HSV	21°, 90%, 100%
XYZ	46.5805, 31.6426, 4.6299
YIQ	141.4310, 114.4840, 6.7080

# Conversions

## Conversions Part 2

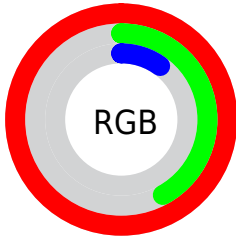
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 149, 26
Decimal	16738842
CIE Lab	63.05, 53.49, 66.48
CIE LCh	63, 85.328, 51.179
Yxy	31.6426, 0.5622, 0.3819
Android (android.graphics.Color)	4294928922 (0xFFFF6A1A)
YUV	141.4310, -56.9075, 99.6000
Hunter-Lab	56.2518, 49.3703, 34.4963

# Details

The XYZ color **46.5805, 31.6426, 4.6299** 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 **33.8049, 38.0974, 100.1789**, and the grayscale version is **25.6735, 27.0105, 29.4145**.

A 20% lighter version of the original color is **55.4701, 47.3438, 13.9993**, and **22.3758, 13.2284, 1.3740** is the 20% darker color. If you saturate the color by 10%, you get **44.8498, 28.4755, 3.1470**, and if you desaturate by 10%, it is **48.8819, 35.5702, 7.4800**.

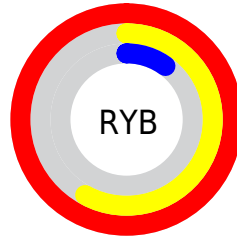
# Distribution



Red (100%)

Green (42%)

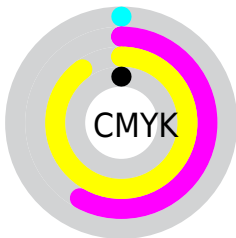
Blue (10%)



Red (100%)

Yellow (58%)

Blue (10%)

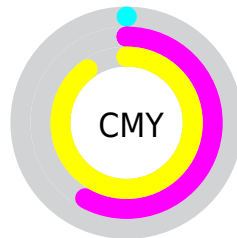


Cyan (0%)

Magenta (58%)

Yellow (90%)

Black (0%)



Cyan (0%)

Magenta (58%)


Yellow (90%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.5805, 31.6426, 4.6299 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 XYZ color 46.5805, 31.6426, 4.6299 by changing the saturation by 10% instead.





 46.5805, 31.6426,  
4.6299


 46.5805, 31.6426,  
4.6299


363.8145,  
309.4879, 154.9886


 32.9107, 21.0887,  
1.9769


 84.3097, 62.2504,  
15.4383


 22.2170, 13.1888,  
0.5410


 109.0997, 83.0730,  
24.4307


 14.1339, 7.5587,  
0.0000


 138.3273,  
108.0873, 36.3733

 8.2962, 3.8139,  
0.0000

 172.3577,  
137.6777, 51.6847

 4.3384, 1.5700,  
0.0000

 211.5562,  
172.2286, 70.7834


 1.8953, 0.3373,  
0.0000

 256.2883,


 0.5741, 0.0000,


212.1243, 94.0879


0.0000


 306.9193,  
257.7493, 122.0168


 0.0000, 0.0000,  
0.0000


 46.5805, 31.6426,  
4.6299


 46.5805, 31.6426,  
4.6299


 44.8498, 28.4755,  
3.1470


 48.8819, 35.5702,  
7.4800

 44.8196, 28.4196,  
3.1233

 51.8397, 40.3163,  
12.0715

 55.5150, 45.9330,  
18.6418

 59.9598, 52.4656,  
27.3901

 65.2210, 59.9560,  
38.4908

71.3410, 68.4431,  
52.1006

78.3593, 77.9636,  
68.3625

86.3125, 88.5520,  
87.4087

95.0497, 99.9999,  
108.9000

# Harmonies

## Analogous

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



56.4480, 31.6426, 15.9633



46.5805, 31.6426, 4.6299



33.6750, 31.6426, 1.9103

# Triad

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



46.5805, 31.6426, 4.6299



12.8167, 31.6426, 25.4524



38.9998, 31.6426, 136.8775

# Complementary

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



46.5805, 31.6426, 4.6299



33.8049, 38.0974, 100.1789

# 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.



26.7418, 31.6426, 146.1227



46.5805, 31.6426, 4.6299



13.5430, 31.6426, 63.5204

# Square

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



46.5805, 31.6426, 4.6299



15.6823, 31.6426, 7.7251



18.0178, 31.6426, 113.4642



51.3383, 31.6426, 93.0260



# Rectangle

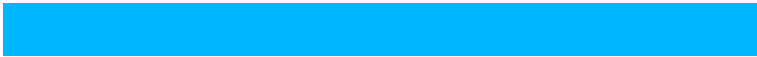
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



46.5805, 31.6426, 4.6299



25.9038, 31.6426, 1.9783



18.0178, 31.6426, 113.4642



34.6723, 31.6426, 144.9141

# Sweetspot

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



46.5812, 31.6444, 4.6304



73.2160, 71.0057, 56.3846



49.7123, 25.2401, 44.7235



15.1844, 14.5323, 10.9574



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



46.5812, 31.6444, 4.6304



44.8199, 28.4198, 3.1233



66.1961, 70.8743, 11.1687



18.5284, 19.0250, 18.8400



23.5451, 15.1015, 1.6739



2.3903, 1.6659, 0.1956

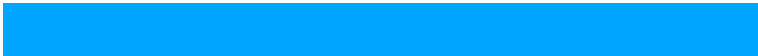


# Inverse Universe

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



33.8049, 38.0974, 100.1789



31.6698, 34.4596, 99.5899



20.3190, 11.1256, 95.6836



17.9894, 19.3505, 23.0368



16.6935, 18.2965, 52.0863



1.7279, 1.9864, 5.1056



# Previews

## White Background



This preview shows how the XYZ color 46.5805, 31.6426, 4.6299 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 XYZ color 46.5805, 31.6426, 4.6299 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](#).

**XYZ 46.5805, 31.6426, 4.6299**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.5805, 31.6426, 4.6299.



This preview shows how white text looks on a background with the XYZ color 46.5805, 31.6426,

4.6299.

# 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

46.5805, 31.6426, 4.6299

### Protanopia

28.7543, 31.6931, 6.4356

### Deuteranopia

32.1177, 31.5883, 4.4044



## Tritanopia

48.5475, 31.6289, 17.4562

# Trichromacy



## Original Color

46.5805, 31.6426, 4.6299

## Protanomaly

33.4500, 30.2804, 5.5951

## Deuteranomaly

36.4845, 30.8513, 4.2904

## Tritanomaly

47.4654, 31.5106, 10.7882

# Monochromacy



## Original Color

46.5805, 31.6426, 4.6299

## Achromatopsia

25.3171, 26.6356, 29.0061

## Achromatomaly

29.2627, 26.2843, 15.3354

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.5805, 31.6426, 4.6299 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, 26)` looks like.

```
.text, #text, p{  
    color:rgb(255, 106, 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, 106, 26) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 106, 26) }
```

## Border

The CSS property to change the border of an element to XYZ 46.5805, 31.6426, 4.6299 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, 26) }
```



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

```
.border{ border-color:rgb(255, 106, 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, 106, 26)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 106, 26); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 106, 26);  
box-shadow:4px 4px 4px 4px rgb(255, 106,  
26) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.5805, 31.6426, 4.6299 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, 26) }
```

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

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