

Converting Colors

XYZ(46.1963, 31.1735, 3.5823)

Have a look what the booklet for
XYZ(46.1963, 31.1735, 3.5823)
contains.

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Color

**XYZ(46.1903, 31.1606,
3.5801)**

Conversions

Conversions Part 1

Format	Color
Hex	FF6800
RGB	255, 104, 0
RGB Percent	100%, 41%, 0%
CMY	0.0000, 0.5921, 1.0000
CMYK	0.00, 0.59, 1.00, 0.00
HSL	24°, 100%, 50%
HSV	24°, 100%, 100%
XYZ	46.1903, 31.1606, 3.5801
YIQ	137.2930, 123.3800, -0.3320

Conversions

Conversions Part 2

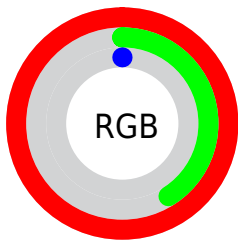
Format	Color
R_{YB}	255, 176, 0
Decimal	16738304
CIE _{Lab}	62.64, 54.13, 71.52
CIE _{LCh}	63, 89.691, 52.881
Yxy	31.1606, 0.5707, 0.3850
Android (android.graphics.Color)	4294928384 (0xFFFF6800)
YUV	137.2930, -67.6854, 103.2290
Hunter-Lab	55.8217, 50.0140, 35.2726

Details

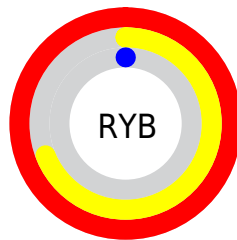
The XYZ color **46.1903, 31.1606, 3.5801** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **29.1159, 29.3520, 98.7379**, and the grayscale version is **24.1061, 25.3615, 27.6187**.

A 20% lighter version of the original color is **54.7123, 46.4859, 11.7193**, and **22.2922, 13.0611, 1.3461** is the 20% darker color. If you saturate the color by 10%, you get **46.1905, 31.1616, 3.5803**, and if you desaturate by 10%, it is **48.0304, 34.5518, 5.0863**.

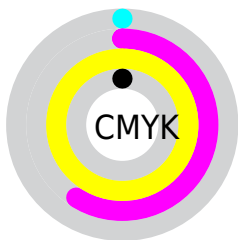
Distribution



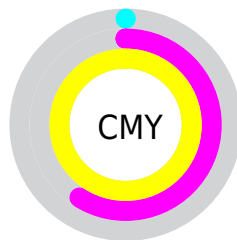
- Red (100%)
- Green (41%)
- Blue (0%)



- Red (100%)
- Yellow (69%)
- Blue (0%)



- Cyan (0%)
- Magenta (59%)
- Yellow (100%)
- Black (0%)



- Cyan (0%)
- Magenta (59%)
- Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 46.1903, 31.1606, 3.5801 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 46.1903, 31.1606, 3.5801 by changing the saturation by 10% instead.

46.1903, 31.1606,
3.5801

46.1903, 31.1606,
3.5801

362.2763,
307.2775, 143.4371

32.6013, 20.7212,
1.3979

83.7298, 61.4928,
13.0291

21.9789, 12.9203,
0.1401

108.4111, 82.1544,
21.1331

13.9579, 7.3737,
0.0000

137.5204,
106.9922, 32.0481

8.1729, 3.6969,
0.0000

171.4232,
136.3905, 46.1926

4.2585, 1.5055,
0.0000

210.4849,
170.7338, 63.9853


1.8494, 0.2926,
0.0000

255.0707,


0.5472, 0.0000,


210.4065, 85.8445


0.0000


 305.5461,
255.7929, 112.1890


 0.0000, 0.0000,
0.0000


 46.1903, 31.1606,
3.5801


 46.1903, 31.1606,
3.5801


 46.1905, 31.1616,
3.5803

 48.0304, 34.5518,
5.0863

 50.3913, 38.6067,
7.9287

 53.3580, 43.3811,
12.4913

 56.9867, 48.9161,
19.0102

 61.3253, 55.2489,
27.6840

66.4168, 62.4137,
38.6861

72.3003, 70.4422,
52.1724

79.0118, 79.3644,
68.2850

86.5850, 89.2088,
87.1551

Harmonies

Analogous

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



56.9858, 31.1606, 13.9054



46.1903, 31.1606, 3.5801



32.6272, 31.1606, 1.3766

Triad

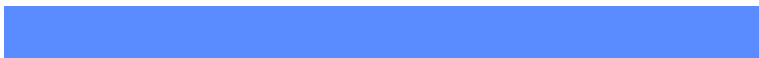
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



46.1903, 31.1606, 3.5801



11.8779, 31.1606, 26.2501



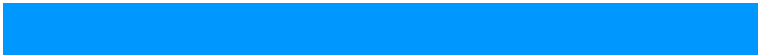
39.7309, 31.1606, 141.4431

Complementary

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



46.1903, 31.1606, 3.5801



29.1159, 29.3520, 98.7379

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.



26.7983, 31.1606, 154.1865



46.1903, 31.1606, 3.5801



12.8086, 31.1606, 67.4182

Square

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



46.1903, 31.1606, 3.5801



14.5481, 31.1606, 7.3586



17.5748, 31.1606, 120.9125



52.5966, 31.1606, 92.9370

Rectangle

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



46.1903, 31.1606, 3.5801



24.6793, 31.1606, 1.5201



17.5748, 31.1606, 120.9125



35.1734, 31.1606, 150.9841

Sweetspot

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



46.1910, 31.1624, 3.5806



72.2992, 70.4405, 52.1690



46.9897, 23.5599, 32.2088



14.9229, 14.3297, 9.8825



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.



46.1910, 31.1624, 3.5806



46.1909, 31.1618, 3.5803



69.3975, 77.5755, 11.3161



18.6177, 19.2036, 18.8697



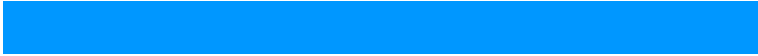
24.2735, 16.5582, 1.9167



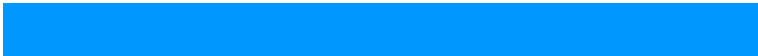
2.4676, 1.8205, 0.2213

Inverse Universe

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



29.1159, 29.3520, 98.7379



29.1157, 29.3513, 98.7386



18.4085, 7.9371, 95.1687



17.8972, 19.1661, 23.0061



15.3641, 15.6377, 51.6432



1.6034, 1.7375, 5.0641

Previews

White Background



This preview shows how the XYZ color 46.1903, 31.1606, 3.5801 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 46.1903, 31.1606, 3.5801 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 46.1903, 31.1606, 3.5801

Background



This preview shows how black text looks on a background with the XYZ color 46.1903, 31.1606, 3.5801.



This preview shows how white text looks on a background with the XYZ color 46.1903, 31.1606,

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

46.1903, 31.1606, 3.5801

Protanopia

28.1983, 31.1846, 5.4527

Deuteranopia

31.7115, 31.1530, 4.3418



Tritanopia

48.2516, 31.2036, 16.8444

Trichromacy



Original Color

46.1903, 31.1606, 3.5801

Protanomaly

33.1146, 29.9219, 4.5204

Deuteranomaly

35.8746, 30.1476, 3.9283

Tritanomaly

46.9068, 30.9726, 8.8162

Monochromacy



Original Color

46.1903, 31.1606, 3.5801

Achromatopsia

23.7775, 25.0158, 27.2422

Achromatomaly

27.8763, 25.0586, 12.3844

CSS Examples

Text

The CSS property to change the color of the text to XYZ 46.1903, 31.1606, 3.5801 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, 104, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 104, 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(255, 104, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 104, 0) }
```

Border

The CSS property to change the border of an element to XYZ 46.1903, 31.1606, 3.5801 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, 104, 0) }
```


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

```
.border{ border-color:rgb(255, 104, 0) }
```

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

Here you see how a box with a 4 pixel rgb(255, 104, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 104, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 104, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 104,  
0) }
```

Background

The CSS property to change the background color of an element to XYZ 46.1903, 31.1606, 3.5801 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 104, 0) }
```

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

```
.background{ background-color: rgb(255,  
104, 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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