

Converting Colors

XYZ(46.8668, 32.3996, 4.1573)

Have a look what the booklet for
XYZ(46.8668, 32.3996, 4.1573)
contains.

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Color

**XYZ(46.8886, 32.4409,
4.1712)**

Conversions

Conversions Part 1

Format	Color
Hex	FF6E0D
RGB	255, 110, 13
RGB Percent	100%, 43%, 5%
CMY	0.0000, 0.5686, 0.9490
CMYK	0.00, 0.57, 0.95, 0.00
HSL	24°, 100%, 53%
HSV	24°, 95%, 100%
XYZ	46.8886, 32.4409, 4.1712
YIQ	142.2970, 117.5570, 0.5730

Conversions

Conversions Part 2

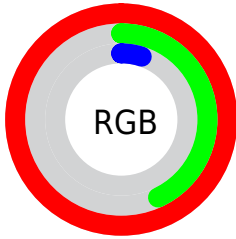
Format	Color
R _Y B	255, 175, 13
Decimal	16739853
CIE Lab	63.71, 51.52, 70.00
CIE LCh	64, 86.915, 53.650
Yxy	32.4409, 0.5615, 0.3885
Android (android.graphics.Color)	4294929933 (0xFFFF6E0D)
YUV	142.2970, -63.7434, 98.8405
Hunter-Lab	56.9569, 47.2718, 35.5278

Details

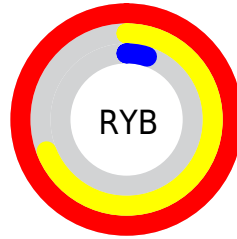
The XYZ color **46.8886, 32.4409, 4.1712** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **30.4423, 31.7582, 99.1325**, and the grayscale version is **26.0426, 27.3989, 29.8374**.

A 20% lighter version of the original color is **55.9651, 48.6783, 13.1028**, and **22.6014, 13.6795, 1.4492** is the 20% darker color. If you saturate the color by 10%, you get **46.0123, 30.8051, 3.5209**, and if you desaturate by 10%, it is **48.9678, 36.1432, 6.2723**.

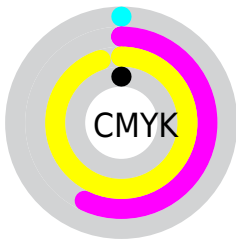
Distribution



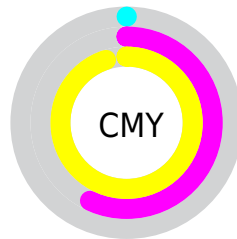
- Red (100%)
- Green (43%)
- Blue (5%)



- Red (100%)
- Yellow (69%)
- Blue (5%)



- Cyan (0%)
- Magenta (57%)
- Yellow (95%)
- Black (0%)





- Cyan (0%)
- Magenta (57%)
- Yellow (95%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 46.8886, 32.4409, 4.1712 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 46.8886, 32.4409, 4.1712 by changing the saturation by 10% instead.


 46.8886, 32.4409,
4.1712


 46.8886, 32.4409,
4.1712


365.0260,
313.1228, 150.1097

 33.1552, 21.6985,
1.7197


 84.7671, 63.5016,
14.4027

 22.4052, 13.6355,
0.3742


 109.6428, 84.5888,
23.0198


 14.2732, 7.8676,
0.0000


 138.9634,
109.8929, 34.5292

 8.3939, 4.0103,
0.0000

 173.0941,
139.7985, 49.3495

 4.4019, 1.6794,
0.0000

 212.4004,
174.6899, 67.8991


 1.9319, 0.4102,
0.0000

 257.2476,


 0.5953, 0.0000,


214.9514, 90.5967


0.0000


 308.0010,
260.9676, 117.8607


 0.0000, 0.0000,
0.0000


 46.8886, 32.4409,
4.1712


 46.8886, 32.4409,
4.1712


 46.0123, 30.8051,
3.5209

 48.9678, 36.1432,
6.2723

 51.6263, 40.5520,
9.9578

 54.9265, 45.7143,
15.4919

 58.9206, 51.6698,
23.0894

 63.6542, 58.4551,
32.9351

69.1685, 66.1038,
45.1931

75.5013, 74.6474,
60.0118

82.6878, 84.1158,
77.5276

90.7610, 94.5373,
97.8673

Harmonies

Analogous

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



57.6217, 32.4409, 14.6818



46.8886, 32.4409, 4.1712



33.4956, 32.4409, 1.8099

Triad

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



46.8886, 32.4409, 4.1712



12.9337, 32.4409, 28.4162



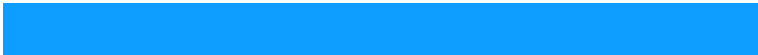
41.2065, 32.4409, 139.1502

Complementary

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



46.8886, 32.4409, 4.1712



30.4423, 31.7582, 99.1325

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.



28.3175, 32.4409, 152.5743



46.8886, 32.4409, 4.1712



13.9817, 32.4409, 69.6054

Square

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



46.8886, 32.4409, 4.1712



15.5657, 32.4409, 8.6289



18.9394, 32.4409, 121.4668



53.7832, 32.4409, 91.7996

Rectangle

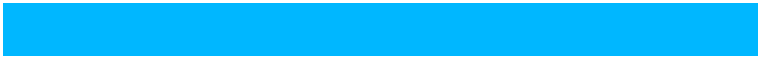
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



46.8886, 32.4409, 4.1712



25.6348, 32.4409, 2.0220



18.9394, 32.4409, 121.4668



36.6928, 32.4409, 148.6782

Sweetspot

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



46.8893, 32.4427, 4.1717



73.4485, 71.9013, 55.1351



47.5727, 24.0235, 34.5687



15.1382, 14.6030, 10.4391



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.



46.8893, 32.4427, 4.1717



46.0127, 30.8053, 3.5209



69.8323, 78.3288, 11.8194



18.6069, 19.1821, 18.8661



24.1791, 16.3694, 1.8852



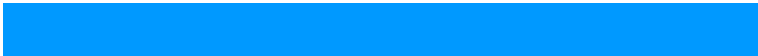
2.4577, 1.8008, 0.2181

Inverse Universe

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



30.4423, 31.7582, 99.1325



29.4058, 29.9317, 98.8353



18.8839, 8.6416, 95.2798



17.9083, 19.1881, 23.0098



15.5153, 15.9402, 51.6936



1.6177, 1.7661, 5.0689

Previews

White Background



This preview shows how the XYZ color 46.8886, 32.4409, 4.1712 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 46.8886, 32.4409, 4.1712 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 46.8886, 32.4409, 4.1712

Background



This preview shows how black text looks on a background with the XYZ color 46.8886, 32.4409, 4.1712.



This preview shows how white text looks on a background with the XYZ color 46.8886, 32.4409,

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

46.8886, 32.4409, 4.1712

Protanopia

29.3865, 32.5252, 5.8278

Deuteranopia

32.9394, 32.4695, 4.5312



Tritanopia

49.1608, 32.5108, 18.7231

Trichromacy



Original Color

46.8886, 32.4409, 4.1712

Protanomaly

34.0159, 31.2236, 5.0445

Deuteranomaly

37.1678, 31.8129, 4.3251

Tritanomaly

47.7677, 32.2834, 10.3703

Monochromacy



Original Color

46.8886, 32.4409, 4.1712

Achromatopsia

25.7108, 27.0498, 29.4572

Achromatomaly

29.5766, 26.8588, 14.4519

CSS Examples

Text

The CSS property to change the color of the text to XYZ 46.8886, 32.4409, 4.1712 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, 110, 13)` looks like.

```
.text, #text, p{  
    color:rgb(255, 110, 13)  
}
```

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, 110, 13) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 110, 13) }
```

Border

The CSS property to change the border of an element to XYZ 46.8886, 32.4409, 4.1712 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, 110, 13) }
```


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

```
.border{ border-color:rgb(255, 110, 13) }
```

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

Here you see how a box with a 4 pixel rgb(255, 110, 13) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 110, 13); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 110, 13);  
box-shadow:4px 4px 4px 4px rgb(255, 110,  
13) }
```

Background

The CSS property to change the background color of an element to XYZ 46.8886, 32.4409, 4.1712 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 110, 13) }
```

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

```
.background{ background-color: rgb(255,  
110, 13) }
```

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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