

# Converting Colors

XYZ(46.9615, 31.3433, 8.0290)

Have a look what the booklet for  
XYZ(46.9615, 31.3433, 8.0290)  
contains.

<b>XYZ(46.9326, 31.2974, 7.9823)</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> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(46.9326, 31.2974,  
7.9823)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF673D
RGB	255, 103, 61
RGB Percent	100%, 40%, 24%
CMY	0.0000, 0.5960, 0.7608
CMYK	0.00, 0.60, 0.76, 0.00
HSL	13°, 100%, 62%
HSV	13°, 76%, 100%
XYZ	46.9326, 31.2974, 7.9823
YIQ	143.6600, 104.0740, 19.1620

# Conversions

## Conversions Part 2

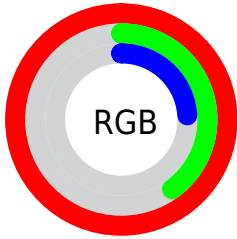
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 115, 61
Decimal	16738109
CIE Lab	62.76, 55.72, 52.08
CIE LCh	63, 76.276, 43.066
Yxy	31.2974, 0.5444, 0.3630
Android (android.graphics.Color)	4294928189 (0xFFFF673D)
YUV	143.6600, -40.7514, 97.6452
Hunter-Lab	55.9441, 51.8451, 30.7011

# Details

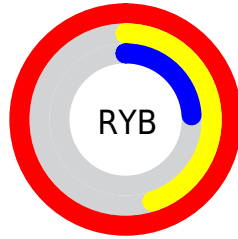
The XYZ color **46.9326, 31.2974, 7.9823** is a dark color, and the websafe version is hex **FF6633**. The color can be described as middle washed orange. A complement of this color would be **43.7667, 55.7965, 103.0703**, and the grayscale version is **26.5031, 27.8833, 30.3649**.

A 20% lighter version of the original color is **56.5074, 47.2040, 21.1719**, and **22.5176, 13.0523, 1.6197** is the 20% darker color. If you saturate the color by 10%, you get **44.6463, 27.5755, 4.5989**, and if you desaturate by 10%, it is **50.0212, 36.1027, 13.2426**.

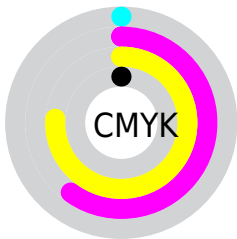
# Distribution



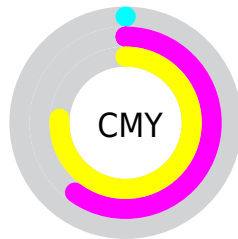
- Red (100%)
- Green (40%)
- Blue (24%)



- Red (100%)
- Yellow (45%)
- Blue (24%)



- Cyan (0%)
- Magenta (60%)
- Yellow (76%)
- Black (0%)




- Cyan (0%)
- Magenta (60%)
- Yellow (76%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.9326, 31.2974, 7.9823 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 46.9326, 31.2974, 7.9823 by changing the saturation by 10% instead.





 46.9326, 31.2974,  
7.9823


 46.9326, 31.2974,  
7.9823


365.1988,  
307.9061, 185.5225


 33.1901, 20.8254,  
3.9960


 84.8324, 61.7080,  
22.4693

 22.4320, 12.9964,  
1.6232


 109.7203, 82.4154,  
33.8072


 14.2931, 7.4261,  
0.3073


 139.0542,  
107.3034, 48.4326

 8.4079, 3.7300,  
0.0000

 173.1992,  
136.7564, 66.7641

 4.4110, 1.5237,  
0.0000

 212.5209,  
171.1587, 89.2204

 1.9372, 0.3053,  
0.0000

 257.3845,

 0.5983, 0.0000,

210.8949, 116.2198

0.0000

308.1553,  
256.3492, 148.1810

■ 0.0000, 0.0000,  
0.0000

■ 46.9326, 31.2974,  
7.9823

■ 46.9326, 31.2974,  
7.9823

■ 44.6463, 27.5755,  
4.5989

■ 50.0212, 36.1027,  
13.2426

■ 43.0750, 24.8427,  
2.8120

■ 53.9818, 42.0644,  
20.6038

■ 42.6163, 24.0129,  
2.3888

■ 58.8785, 49.2550,  
30.2599

■ 64.7682, 57.7392,  
42.3822

■ 71.7035, 67.5774,  
57.1254

79.7329, 78.8257,  
74.6317

88.9018, 91.5373,  
95.0330

95.0498, 99.9999,  
108.9000

# Harmonies

## Analogous

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



53.8668, 31.2974, 22.6740



46.9326, 31.2974, 7.9823



35.9783, 31.2974, 3.3743

# Triad

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



46.9326, 31.2974, 7.9823



14.3928, 31.2974, 19.9383



34.5145, 31.2974, 126.2092

# Complementary

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



46.9326, 31.2974, 7.9823



43.7667, 55.7965, 103.0703

# 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.



24.2806, 31.2974, 123.8228



46.9326, 31.2974, 7.9823



14.1779, 31.2974, 48.7784

# Square

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



46.9326, 31.2974, 7.9823



18.0485, 31.2974, 6.9854



17.3712, 31.2974, 90.2543



45.6474, 31.2974, 95.6036



# Rectangle

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



46.9326, 31.2974, 7.9823



28.6876, 31.2974, 2.8847



17.3712, 31.2974, 90.2543



30.8326, 31.2974, 129.6013

# Sweetspot

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



46.9333, 31.2992, 7.9828



74.0564, 70.8869, 62.2130



55.3291, 29.5658, 67.8919



15.2623, 14.3442, 12.0437



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.



46.9333, 31.2992, 7.9828



43.7897, 26.1127, 3.5403



62.0030, 61.4386, 13.0060



18.3282, 18.6245, 18.7732



22.3561, 12.7234, 1.2776



2.2525, 1.3905, 0.1497

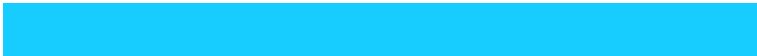


# Inverse Universe

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



43.7667, 55.7965, 103.0703



40.1744, 50.9460, 102.3239



26.5953, 21.4537, 97.3465



18.2015, 19.7746, 23.1075



20.3119, 25.5334, 53.2925



2.0566, 2.6439, 5.2152



# Previews

## White Background



This preview shows how the XYZ color 46.9326, 31.2974, 7.9823 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 46.9326, 31.2974, 7.9823 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 46.9326, 31.2974, 7.9823**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.9326, 31.2974, 7.9823.



This preview shows how white text looks on a background with the XYZ color 46.9326, 31.2974,



# 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

46.9326, 31.2974, 7.9823

### Protanopia

28.6812, 31.3031, 11.3679

### Deuteranopia

31.9363, 31.4282, 7.4006



## Tritanopia

48.2516, 31.2036, 16.8444

# Trichromacy



## Original Color

46.9326, 31.2974, 7.9823

## Protanomaly

33.4818, 29.7845, 9.9455

## Deuteranomaly

36.3800, 30.5277, 7.4650

## Tritanomaly

47.6003, 31.0956, 12.9444

# Monochromacy



## Original Color

46.9326, 31.2974, 7.9823

## Achromatopsia

26.5089, 27.8894, 30.3716

## Achromatomaly

30.6547, 27.1058, 19.5358

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.9326, 31.2974, 7.9823 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, 103, 61)` looks like.

```
.text, #text, p{  
    color:rgb(255, 103, 61)  
}
```

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, 103, 61) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 103, 61) }
```

## Border

The CSS property to change the border of an element to XYZ 46.9326, 31.2974, 7.9823 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, 103, 61) }
```



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

```
.border{ border-color:rgb(255, 103, 61) }
```

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

Here you see how a box with a 4 pixel rgb(255, 103, 61) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 103, 61); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 103, 61);  
box-shadow:4px 4px 4px 4px rgb(255, 103,  
61) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.9326, 31.2974, 7.9823 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 103, 61) }
```

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

```
.background{ background-color: rgb(255,  
103, 61) }
```

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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