

# Converting Colors

XYZ(60.4808, 38.0825, 7.0395)

Have a look what the booklet for  
XYZ(60.4808, 38.0825, 7.0395)  
contains.

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# Color

**XYZ(46.4481, 30.7891,  
6.4005)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF6531
RGB	255, 101, 49
RGB Percent	100%, 40%, 19%
CMY	0.0000, 0.6039, 0.8078
CMYK	0.00, 0.60, 0.81, 0.00
HSL	15°, 100%, 60%
HSV	15°, 81%, 100%
XYZ	46.4481, 30.7891, 6.4005
YIQ	141.1180, 108.4760, 16.4760

# Conversions

## Conversions Part 2

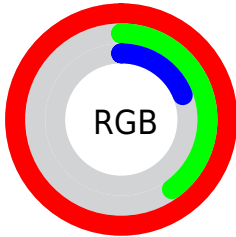
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 119, 49
Decimal	16737585
CIE Lab	62.33, 56.21, 57.29
CIE LCh	62, 80.256, 45.544
Yxy	30.7891, 0.5553, 0.3681
Android (android.graphics.Color)	4294927665 (0xFFFF6531)
YUV	141.1180, -45.4142, 99.8745
Hunter-Lab	55.4879, 52.3158, 32.0025

# Details

The XYZ color **46.4481, 30.7891, 6.4005** 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 **40.6704, 50.5807, 102.2267**, and the grayscale version is **25.5079, 26.8362, 29.2247**.

A 20% lighter version of the original color is **55.5491, 46.2748, 17.8086**, and **22.0991, 12.6749, 1.2818** is the 20% darker color. If you saturate the color by 10%, you get **44.4128, 27.3505, 3.7756**, and if you desaturate by 10%, it is **49.2178, 35.2112, 10.7699**.

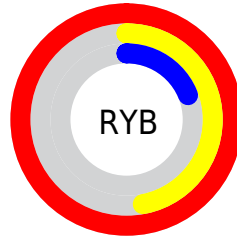
# Distribution



Red (100%)

Green (40%)

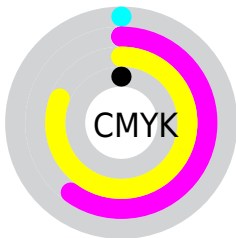
Blue (19%)



Red (100%)

Yellow (47%)

Blue (19%)

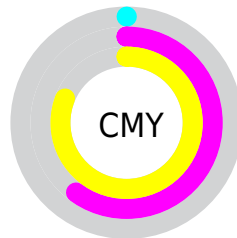


Cyan (0%)

Magenta (60%)

Yellow (81%)

Black (0%)



Cyan (0%)

Magenta (60%)


Yellow (81%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.4481, 30.7891, 6.4005 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 46.4481, 30.7891, 6.4005 by changing the saturation by 10% instead.





 46.4481, 30.7891,  
6.4005


 46.4481, 30.7891,  
6.4005


363.2931,  
305.5655, 172.0224

 32.8057, 20.4383,  
3.0174


 84.1130, 60.9079,  
19.2485


 22.1362, 12.7141,  
1.1035


 108.8662, 81.4446,  
29.5505


 14.0741, 7.2319,  
0.0000


 138.0537,  
106.1455, 42.9959

 8.2543, 3.6076,  
0.0000

 172.0408,  
135.3949, 60.0032

 4.3113, 1.4566,  
0.0000

 211.1930,  
169.5772, 80.9909

 1.8797, 0.2579,  
0.0000

 255.8755,

 0.5650, 0.0000,

209.0768, 106.3777

0.0000

306.4537,  
254.2781, 136.5820

■ 0.0000, 0.0000,  
0.0000

■ 46.4481, 30.7891,  
6.4005

■ 46.4481, 30.7891,  
6.4005

■ 44.4128, 27.3505,  
3.7756

■ 49.2178, 35.2112,  
10.7699

■ 43.0946, 24.9696,  
2.5483

■ 52.7920, 40.6839,  
17.1273

■ 57.2338, 47.2739,  
25.6786

■ 62.5988, 55.0404,  
36.6032

■ 68.9380, 64.0385,  
50.0620

76.2983, 74.3196,  
66.2015

84.7234, 85.9321,  
85.1572

94.2546, 98.9219,  
107.0554

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.



54.3256, 30.7891, 19.9230



46.4481, 30.7891, 6.4005



34.7890, 30.7891, 2.5653

# Triad

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



46.4481, 30.7891, 6.4005



13.3506, 30.7891, 20.7081



35.2203, 30.7891, 130.3633

# Complementary

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



46.4481, 30.7891, 6.4005



40.6704, 50.5807, 102.2267

# 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.



24.3575, 30.7891, 131.0911



46.4481, 30.7891, 6.4005



13.4115, 30.7891, 52.2264

# Square

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



46.4481, 30.7891, 6.4005



16.7526, 30.7891, 6.6703



16.9466, 30.7891, 96.8396



46.8305, 30.7891, 95.2209



# Rectangle

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



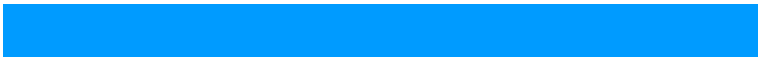
46.4481, 30.7891, 6.4005



27.2939, 30.7891, 2.2855



16.9466, 30.7891, 96.8396



31.3269, 30.7891, 135.1346

# Sweetspot

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



46.4488, 30.7909, 6.4010



73.8173, 70.8703, 60.7100



53.1773, 27.7923, 59.3744



15.2387, 14.3852, 11.7639



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.



46.4488, 30.7909, 6.4010



43.4782, 25.6694, 2.8828



63.2683, 64.4300, 12.0075



18.3820, 18.7321, 18.7912



22.6174, 13.2461, 1.3647



2.2848, 1.4550, 0.1604



# Inverse Universe

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



40.6704, 50.5807, 102.2267



37.1168, 45.2114, 101.3782



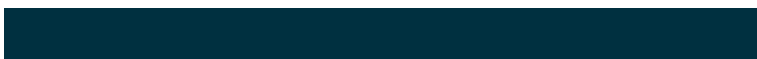
23.9220, 17.0837, 96.6438



18.1438, 19.6591, 23.0883



19.2488, 23.4071, 52.9381



1.9612, 2.4531, 5.1834



# Previews

## White Background



This preview shows how the XYZ color 46.4481, 30.7891, 6.4005 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 46.4481, 30.7891, 6.4005 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 46.4481, 30.7891, 6.4005**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.4481, 30.7891, 6.4005.



This preview shows how white text looks on a background with the XYZ color 46.4481, 30.7891,



# 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

46.4481, 30.7891, 6.4005

### Protanopia

28.1123, 30.8169, 9.1692

### Deuteranopia

31.3610, 30.7134, 5.8655



## Tritanopia

47.9629, 30.7887, 16.2468

# Trichromacy



**Original Color**

46.4481, 30.7891, 6.4005

**Protanomaly**

32.9707, 29.3599, 7.9323

**Deuteranomaly**

35.8337, 29.8877, 5.8877

**Tritanomaly**

47.1690, 30.6199, 11.6078

# Monochromacy



**Original Color**

46.4481, 30.7891, 6.4005

**Achromatopsia**

25.3171, 26.6356, 29.0061

**Achromatomaly**

29.4590, 25.9495, 17.6435

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.4481, 30.7891, 6.4005 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, 101, 49)` looks like.

```
.text, #text, p{  
    color:rgb(255, 101, 49)  
}
```

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, 101, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 101, 49) }
```

## Border

The CSS property to change the border of an element to XYZ 46.4481, 30.7891, 6.4005 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, 101, 49) }
```



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

```
.border{ border-color:rgb(255, 101, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 101, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 101, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 101, 49);  
box-shadow:4px 4px 4px 4px rgb(255, 101,  
49) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.4481, 30.7891, 6.4005 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 101, 49) }
```

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

```
.background{ background-color: rgb(255,  
101, 49) }
```

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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