

# Converting Colors

XYZ(60.3850, 37.9420, 8.9369)

Have a look what the booklet for  
XYZ(60.3850, 37.9420, 8.9369)  
contains.

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# Color

**XYZ(46.8191, 30.9375,  
8.3544)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF6540
RGB	255, 101, 64
RGB Percent	100%, 40%, 25%
CMY	0.0000, 0.6039, 0.7490
CMYK	0.00, 0.60, 0.75, 0.00
HSL	12°, 100%, 63%
HSV	12°, 75%, 100%
XYZ	46.8191, 30.9375, 8.3544
YIQ	142.8280, 103.6610, 21.1410

# Conversions

## Conversions Part 2

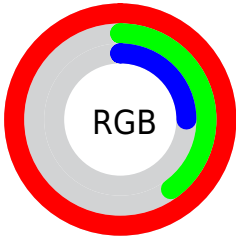
Format	Color
R <sub>Y</sub> B	255, 110, 64
Decimal	16737600
CIE Lab	62.45, 56.71, 50.28
CIE LCh	62, 75.792, 41.560
Yxy	30.9375, 0.5437, 0.3593
Android (android.graphics.Color)	4294927680 (0xFFFF6540)
YUV	142.8280, -38.8622, 98.3748
Hunter-Lab	55.6215, 52.9138, 30.0296

# Details

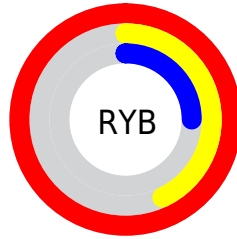
The XYZ color **46.8191, 30.9375, 8.3544** is a dark color, and the websafe version is hex **FF6633**. The color can be described as middle washed orange. A complement of this color would be **45.2334, 58.4482, 103.5047**, and the grayscale version is **26.1622, 27.5247, 29.9744**.

A 20% lighter version of the original color is **56.3342, 46.5888, 21.9430**, and **22.4360, 12.8386, 1.7475** is the 20% darker color. If you saturate the color by 10%, you get **44.4995, 27.2066, 4.7824**, and if you desaturate by 10%, it is **49.9707, 35.8029, 13.8389**.

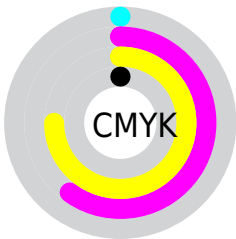
# Distribution



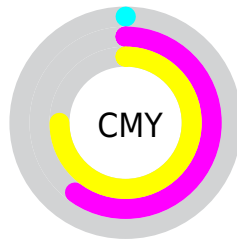
- Red (100%)
- Green (40%)
- Blue (25%)



- Red (100%)
- Yellow (43%)
- Blue (25%)



- Cyan (0%)
- Magenta (60%)
- Yellow (75%)
- Black (0%)




- Cyan (0%)
- Magenta (60%)
- Yellow (75%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.8191, 30.9375, 8.3544 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 46.8191, 30.9375, 8.3544 by changing the saturation by 10% instead.





 46.8191, 30.9375,  
8.3544


 46.8191, 30.9375,  
8.3544

364.7530,  
306.2503, 188.5231

 33.1000, 20.5513,  
4.2315


 84.6639, 61.1417,  
23.2079


 22.3627, 12.7964,  
1.7532


 109.5204, 81.7284,  
34.7756


 14.2417, 7.2885,  
0.3968


 138.8200,  
106.4840, 49.6619

 8.3718, 3.6432,  
0.0000

 172.9281,  
135.7930, 68.2855

 4.3876, 1.4760,  
0.0000

 212.2101,  
170.0397, 91.0649

 1.9236, 0.2718,  
0.0000

 257.0314,

 0.5905, 0.0000,

209.6086, 118.4186

0.0000

307.7572,  
254.8840, 150.7652

■ 0.0000, 0.0000,  
0.0000

■ 46.8191, 30.9375,  
8.3544

■ 46.8191, 30.9375,  
8.3544

■ 44.4995, 27.2066,  
4.7824

■ 49.9707, 35.8029,  
13.8389

■ 42.9226, 24.5093,  
2.8493

■ 54.0263, 41.8817,  
21.4565


■ 42.3552, 23.4909,  
2.3018

■ 59.0520, 49.2514,  
31.3992

■ 65.1070, 57.9815,  
43.8370

■ 72.2454, 68.1365,  
58.9237

 80.5177, 79.7766,  
76.8010

 89.9711, 92.9588,  
97.6003

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.



53.3402, 30.9375, 23.5650



46.8191, 30.9375, 8.3544



36.1129, 30.9375, 3.4630

# Triad

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



46.8191, 30.9375, 8.3544



14.3542, 30.9375, 18.7618



33.5478, 30.9375, 125.1864

# Complementary

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



46.8191, 30.9375, 8.3544



45.2334, 58.4482, 103.5047

# 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.



23.5841, 30.9375, 121.0139



46.8191, 30.9375, 8.3544



13.9768, 30.9375, 46.3545

# Square

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



46.8191, 30.9375, 8.3544



18.1423, 30.9375, 6.5976



16.9533, 30.9375, 86.9435



44.5685, 30.9375, 96.3016



# Rectangle

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



46.8191, 30.9375, 8.3544



28.8702, 30.9375, 2.8674



16.9533, 30.9375, 86.9435



29.9467, 30.9375, 127.9113

# Sweetspot

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



46.8198, 30.9393, 8.3549



74.5271, 71.3586, 63.8176



55.9892, 30.0932, 70.5560



15.4949, 14.6283, 12.6791



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.



46.8198, 30.9393, 8.3549



43.6091, 25.7087, 3.6121



61.5722, 60.4440, 13.2724



18.2942, 18.5566, 18.7619



22.2121, 12.4355, 1.2296



2.2339, 1.3532, 0.1435



# Inverse Universe

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



45.2334, 58.4482, 103.5047



41.6414, 53.7892, 102.7954



27.4328, 22.8469, 97.5712



18.2382, 19.8480, 23.1197



21.0190, 26.9476, 53.5282



2.1196, 2.7699, 5.2362



# Previews

## White Background



This preview shows how the XYZ color 46.8191, 30.9375, 8.3544 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 46.8191, 30.9375, 8.3544 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 46.8191, 30.9375, 8.3544**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.8191, 30.9375, 8.3544.



This preview shows how white text looks on a background with the XYZ color 46.8191, 30.9375,

8.3544.

# 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

46.8191, 30.9375, 8.3544

### Protanopia

28.4509, 30.9279, 12.0596

### Deuteranopia

31.6254, 31.0317, 7.8129



## Tritanopia

48.0559, 30.9746, 16.2778

# Trichromacy



## Original Color

46.8191, 30.9375, 8.3544

## Protanomaly

33.1767, 29.4116, 10.4070

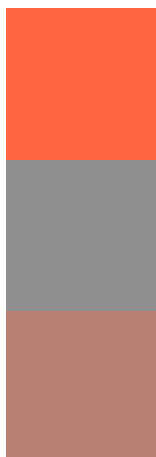
## Deuteranomaly

35.9235, 29.8900, 7.8790

## Tritanomaly

47.5050, 30.9049, 12.9127

# Monochromacy



## Original Color

46.8191, 30.9375, 8.3544

## Achromatopsia

26.1081, 27.4677, 29.9124

## Achromatomaly

30.5236, 26.8436, 19.4922

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.8191, 30.9375, 8.3544 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, 64)` looks like.

```
.text, #text, p{  
    color:rgb(255, 101, 64)  
}
```

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, 64) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 101, 64) }
```

## Border

The CSS property to change the border of an element to XYZ 46.8191, 30.9375, 8.3544 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, 64) }
```



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

```
.border{ border-color:rgb(255, 101, 64) }
```

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, 64) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 101, 64); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 101, 64);  
box-shadow:4px 4px 4px 4px rgb(255, 101,  
64) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.8191, 30.9375, 8.3544 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, 64) }
```

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

```
.background{ background-color: rgb(255,  
101, 64) }
```

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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