

# Converting Colors

XYZ(52.0650, 33.1456, 9.0981)

Have a look what the booklet for  
XYZ(52.0650, 33.1456, 9.0981)  
contains.

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# Color

**XYZ(46.6511, 30.4127,  
8.8803)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF6244
RGB	255, 98, 68
RGB Percent	100%, 38%, 27%
CMY	0.0000, 0.6156, 0.7333
CMYK	0.00, 0.62, 0.73, 0.00
HSL	10°, 100%, 63%
HSV	10°, 73%, 100%
XYZ	46.6511, 30.4127, 8.8803
YIQ	141.5230, 103.2020, 23.9540

# Conversions

## Conversions Part 2

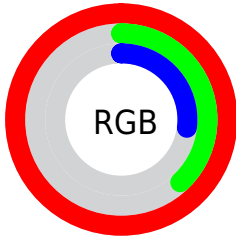
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 104, 68
Decimal	16736836
CIE Lab	62.01, 58.16, 47.76
CIE LCh	62, 75.262, 39.394
Yxy	30.4127, 0.5428, 0.3539
Android (android.graphics.Color)	4294926916 (0xFFFF6244)
YUV	141.5230, -36.2468, 99.5193
Hunter-Lab	55.1477, 54.4900, 29.0561

# Details

The XYZ color **46.6511, 30.4127, 8.8803** 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 **47.3566, 62.2944, 104.1353**, and the grayscale version is **25.6340, 26.9690, 29.3692**.

A 20% lighter version of the original color is **56.0656, 45.6792, 23.0015**, and **22.3143, 12.5167, 1.9493** is the 20% darker color. If you saturate the color by 10%, you get **44.2928, 26.6829, 5.0536**, and if you desaturate by 10%, it is **49.8845, 35.3524, 14.6672**.

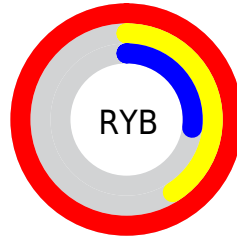
# Distribution



Red (100%)

Green (38%)

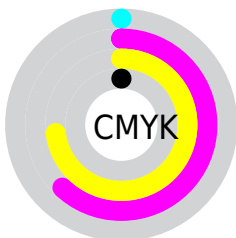
Blue (27%)



Red (100%)

Yellow (41%)

Blue (27%)

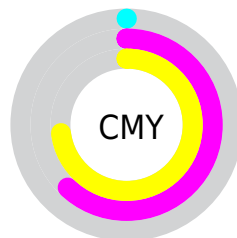


Cyan (0%)

Magenta (62%)

Yellow (73%)

Black (0%)



Cyan (0%)

Magenta (62%)


Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.6511, 30.4127, 8.8803 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 46.6511, 30.4127, 8.8803 by changing the saturation by 10% instead.





 46.6511, 30.4127,  
8.8803


 46.6511, 30.4127,  
8.8803


364.0924,  
303.8234, 192.6675


 32.9667, 20.1521,  
4.5674


 84.4145, 60.3142,  
24.2410


 22.2601, 12.5056,  
1.9415


 109.2242, 80.7239,  
36.1259


 14.1658, 7.0890,  
0.5190


 138.4731,  
105.2854, 51.3719

 8.3185, 3.5178,  
0.0000

 172.5265,  
134.3830, 70.3976

 4.3530, 1.4077,  
0.0000

 211.7498,  
168.4013, 93.6215

 1.9037, 0.2224,  
0.0000

256.5083,

 0.5790, 0.0000,

207.7245, 121.4620

0.0000

307.1673,  
252.7371, 154.3379

■ 0.0000, 0.0000,  
0.0000

■ 46.6511, 30.4127,  
8.8803

■ 46.6511, 30.4127,  
8.8803

■ 44.2928, 26.6829,  
5.0536

■ 49.8845, 35.3524,  
14.6672

■ 42.7164, 24.0512,  
2.9213


■ 54.0688, 41.5901,  
22.6311


■ 42.0300, 22.8403,  
2.1934

■ 59.2737, 49.2118,  
32.9615

■ 65.5616, 58.2942,  
45.8271

■ 72.9899, 68.9088,  
61.3809

 81.6118, 81.1218,  
79.7639

 91.4771, 94.9961,  
101.1070

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.



52.5966, 30.4127, 24.8445



46.6511, 30.4127, 8.8803



36.2900, 30.4127, 3.5765

# Triad

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



46.6511, 30.4127, 8.8803



14.2785, 30.4127, 17.1498



32.1916, 30.4127, 123.8086

# Complementary

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



46.6511, 30.4127, 8.8803



47.3566, 62.2944, 104.1353

# 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.



22.5990, 30.4127, 117.1594



46.6511, 30.4127, 8.8803



13.6739, 30.4127, 43.0413

# Square

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



46.6511, 30.4127, 8.8803



18.2547, 30.4127, 6.0540



16.3511, 30.4127, 82.4062



43.0578, 30.4127, 97.3300



# Rectangle

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



46.6511, 30.4127, 8.8803



29.1123, 30.4127, 2.8296



16.3511, 30.4127, 82.4062



28.7014, 30.4127, 125.6054

# Sweetspot

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



46.6518, 30.4144, 8.8808



74.0693, 70.4432, 63.6650



57.1651, 30.9375, 75.5952



15.3887, 14.4161, 12.6437



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.



46.6518, 30.4144, 8.8808



43.4662, 25.3250, 3.8661



60.5993, 58.3095, 13.5300



18.2447, 18.4577, 18.7454



22.0307, 12.0727, 1.1691



2.2092, 1.3037, 0.1352

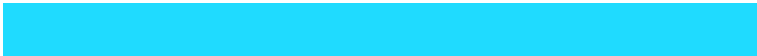


# Inverse Universe

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



47.3566, 62.2944, 104.1353



43.9319, 58.1627, 103.5188



28.8832, 25.3477, 97.9775



18.2921, 19.9557, 23.1377



22.0995, 29.1085, 53.8883



2.2152, 2.9612, 5.2681



# Previews

## White Background



This preview shows how the XYZ color 46.6511, 30.4127, 8.8803 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 46.6511, 30.4127, 8.8803 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 46.6511, 30.4127, 8.8803**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.6511, 30.4127, 8.8803.



This preview shows how white text looks on a background with the XYZ color 46.6511, 30.4127,



# 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

46.6511, 30.4127, 8.8803

### Protanopia

28.0631, 30.4679, 12.9961

### Deuteranopia

31.0797, 30.5152, 8.2549



## Tritanopia

47.6812, 30.3840, 15.6635

# Trichromacy



## Original Color

46.6511, 30.4127, 8.8803

## Protanomaly

32.8163, 28.8029, 11.2270

## Deuteranomaly

35.6103, 29.5236, 8.3792

## Tritanomaly

47.2260, 30.3470, 12.8197

# Monochromacy



## Original Color

46.6511, 30.4127, 8.8803

## Achromatopsia

25.7108, 27.0498, 29.4572

## Achromatomaly

30.0838, 26.2268, 19.6963

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.6511, 30.4127, 8.8803 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, 98, 68)` looks like.

```
.text, #text, p{  
  color:rgb(255, 98, 68)  
}
```

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, 98, 68) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 98, 68) }
```

## Border

The CSS property to change the border of an element to XYZ 46.6511, 30.4127, 8.8803 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, 98, 68) }
```



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

```
.border{ border-color:rgb(255, 98, 68) }
```

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

Here you see how a box with a 4 pixel rgb(255, 98, 68) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 98, 68); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 98, 68);  
box-shadow:4px 4px 4px 4px rgb(255, 98,  
68) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.6511, 30.4127, 8.8803 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 98, 68) }
```

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

```
.background{ background-color: rgb(255, 98,  
68) }
```

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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