

# Converting Colors

XYZ(97.0192, 67.5309, 14.8000)

Have a look what the booklet for  
XYZ(97.0192, 67.5309, 14.8000)  
contains.

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# **Color**

**XYZ(54.4330, 45.5587,  
12.7623)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9C4C
RGB	255, 156, 76
RGB Percent	100%, 61%, 30%
CMY	0.0000, 0.3882, 0.7020
CMYK	0.00, 0.39, 0.70, 0.00
HSL	27°, 100%, 65%
HSV	27°, 70%, 100%
XYZ	54.4330, 45.5587, 12.7623
YIQ	176.4810, 84.6840, -3.8920

# Conversions

## Conversions Part 2

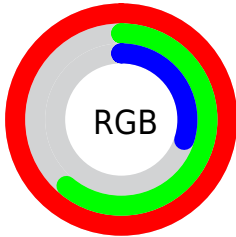
Format	Color
<a href="#">RYB</a>	<a href="#">255, 221, 76</a>
Decimal	<a href="#">16751692</a>
CIELab	<a href="#">73.26, 30.49, 56.02</a>
CIELCh	<a href="#">73, 63.774, 61.443</a>
Yxy	<a href="#">45.5587, 0.4828, 0.4041</a>
Android (android.graphics.Color)	<a href="#">4294941772</a> ( <a href="#">0xFFFF9C4C</a> )
YUV	<a href="#">176.4810, -49.5371, 68.8612</a>
Hunter-Lab	<a href="#">67.4972, 25.8310, 36.0375</a>

# Details

The XYZ color **54.4330, 45.5587, 12.7623** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **36.3596, 39.4145, 100.2986**, and the grayscale version is **41.7392, 43.9129, 47.8211**.

A 20% lighter version of the original color is **68.4305, 69.4070, 30.2123**, and **27.0973, 21.2999, 3.4937** is the 20% darker color. If you saturate the color by 10%, you get **51.4852, 40.8122, 8.2388**, and if you desaturate by 10%, it is **58.0087, 50.9999, 19.2280**.

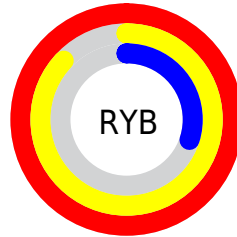
# Distribution



Red (100%)

Green (61%)

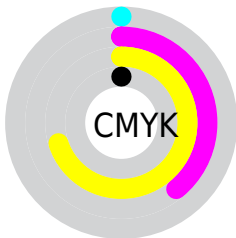
Blue (30%)



Red (100%)

Yellow (87%)

Blue (30%)

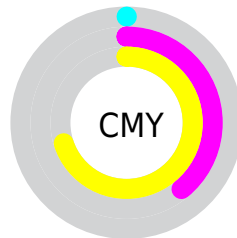


Cyan (0%)

Magenta (39%)

Yellow (70%)

Black (0%)



Cyan (0%)

Magenta (39%)


Yellow (70%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 54.4330, 45.5587, 12.7623 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 54.4330, 45.5587, 12.7623 by changing the saturation by 10% instead.





 54.4330, 45.5587,  
12.7623

 54.4330, 45.5587,  
12.7623


393.9305,  
369.0316, 220.5427

 39.1800, 31.8977,  
7.1363

 95.8629, 83.5582,  
31.5610


 27.0811, 21.2834,  
3.4677


 122.7705,  
108.6654, 45.5707


 17.7711, 13.3313,  
1.3381


 154.2936,  
138.3569, 63.2121

 10.8844, 7.6571,  
0.0927

 190.7977,  
173.0171, 84.9037

 6.0559, 3.8763,  
0.0000

 232.6481,  
213.0302, 111.0640

 2.9201, 1.6046,  
0.0000

280.2101,

 1.1116, 0.3607,

258.7807, 142.1116

0.0000

333.8491,  
310.6531, 178.4649

■ 0.0348, 0.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 54.4330, 45.5587,  
12.7623

■ 54.4330, 45.5587,  
12.7623

■ 51.4852, 40.8122,  
8.2388

■ 58.0087, 50.9999,  
19.2280

■ 49.1087, 36.7169,  
5.4186

■ 62.2553, 57.1614,  
27.8316

■ 47.2542, 33.2888,  
3.9348

■ 67.2146, 64.0755,  
38.7472

■ 72.9238, 71.7701,  
52.1303

■ 79.4171, 80.2714,  
68.1225

■ 86.7265, 89.6042,  
86.8548

94.8819, 99.7922,  
108.4492

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.



64.3941, 45.5587, 23.8886



54.4330, 45.5587, 12.7623



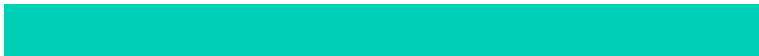
42.7621, 45.5587, 9.9683

# Triad

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



54.4330, 45.5587, 12.7623



25.1457, 45.5587, 51.1751



55.5344, 45.5587, 123.0141

# Complementary

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



54.4330, 45.5587, 12.7623



36.3596, 39.4145, 100.2986

# 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.



43.8468, 45.5587, 140.3230



54.4330, 45.5587, 12.7623



27.4064, 45.5587, 89.2315

# Square

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



54.4330, 45.5587, 12.7623



27.0085, 45.5587, 25.5798



33.8027, 45.5587, 125.8816



65.1033, 45.5587, 85.3114



# Rectangle

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



54.4330, 45.5587, 12.7623



35.8974, 45.5587, 11.4984



33.8027, 45.5587, 125.8816



51.6610, 45.5587, 131.9944

# Sweetspot

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



54.4340, 45.5611, 12.7631



78.8650, 79.5570, 66.7357



51.8036, 29.6208, 44.8092



16.4833, 16.5124, 13.2945



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.



54.4340, 45.5611, 12.7631



50.5170, 39.1792, 6.9794



74.6148, 85.9226, 19.4901



18.6778, 19.3237, 18.8898



24.8353, 17.6818, 2.1040



2.5252, 1.9357, 0.2405



# Inverse Universe

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



36.3596, 39.4145, 100.2986



31.3996, 32.5735, 99.2401



24.5151, 15.7255, 96.3505



17.8360, 19.0436, 22.9857



14.5617, 14.0331, 51.3758



1.5269, 1.5845, 5.0386



# Previews

## White Background



This preview shows how the XYZ color 54.4330, 45.5587, 12.7623 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 54.4330, 45.5587, 12.7623 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 54.4330, 45.5587, 12.7623**

## **Background**



This preview shows how black text looks on a background with the XYZ color 54.4330, 45.5587, 12.7623.



This preview shows how white text looks on a background with the XYZ color 54.4330, 45.5587,



# 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

54.4330, 45.5587, 12.7623

### Protanopia

41.9046, 45.9516, 14.8446

### Deuteranopia

46.4731, 45.4410, 12.4525



## Tritanopia

58.4915, 45.6108, 38.9786

# Trichromacy



## Original Color

54.4330, 45.5587, 12.7623

## Protanomaly

45.7157, 45.2999, 13.9237

## Deuteranomaly

49.0998, 45.4156, 12.4816

## Tritanomaly

56.4307, 45.3015, 26.5387

# Monochromacy



## Original Color

54.4330, 45.5587, 12.7623

## Achromatopsia

41.2663, 43.4154, 47.2793

## Achromatomaly

44.0984, 43.2485, 30.8345

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 54.4330, 45.5587, 12.7623 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, 156, 76)` looks like.

```
.text, #text, p{  
    color:rgb(255, 156, 76)  
}
```

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, 156, 76) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 156, 76) }
```

## Border

The CSS property to change the border of an element to XYZ 54.4330, 45.5587, 12.7623 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, 156, 76) }
```



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

```
.border{ border-color:rgb(255, 156, 76) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 156, 76)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 156, 76); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 156, 76);  
box-shadow:4px 4px 4px 4px rgb(255, 156,  
76) }
```

# Background

The CSS property to change the background color of an element to XYZ 54.4330, 45.5587, 12.7623 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 156, 76) }
```

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

```
.background{ background-color: rgb(255,  
156, 76) }
```

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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