

# Converting Colors

XYZ(95.6647, 72.9389, 14.5654)

Have a look what the booklet for  
XYZ(95.6647, 72.9389, 14.5654)  
contains.

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# **Color**

**XYZ(58.2038, 53.5181,  
12.7312)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFB244
RGB	255, 178, 68
RGB Percent	100%, 70%, 27%
CMY	0.0000, 0.3019, 0.7333
CMYK	0.00, 0.30, 0.73, 0.00
HSL	35°, 100%, 63%
HSV	35°, 73%, 100%
XYZ	58.2038, 53.5181, 12.7312
YIQ	188.4830, 81.2020, -17.8860

# Conversions

## Conversions Part 2

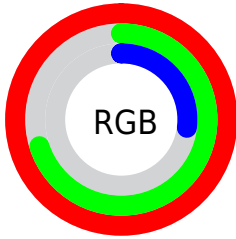
Format	Color
R <sub>Y</sub> B	199, 255, 68
Decimal	16757316
CIE Lab	78.18, 18.65, 64.58
CIE LCh	78, 67.219, 73.895
Yxy	53.5181, 0.4677, 0.4300
Android (android.graphics.Color)	4294947396 (0xFFFFB244)
YUV	188.4830, -59.3981, 58.3354
Hunter-Lab	73.1561, 13.9935, 40.8911

# Details

The XYZ color **58.2038, 53.5181, 12.7312** 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 **30.5588, 28.6986, 98.5360**, and the grayscale version is **48.3716, 50.8907, 55.4200**.

A 20% lighter version of the original color is **74.1757, 81.5108, 30.2360**, and **29.3259, 26.0047, 3.4738** is the 20% darker color. If you saturate the color by 10%, you get **55.5787, 49.2545, 8.8158**, and if you desaturate by 10%, it is **61.3294, 58.2422, 18.4827**.

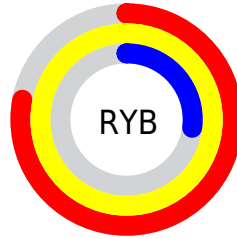
# Distribution



Red (100%)

Green (70%)

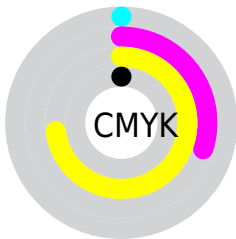
Blue (27%)



Red (78%)

Yellow (100%)

Blue (27%)

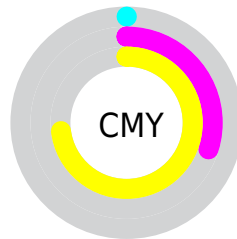


Cyan (0%)

Magenta (30%)

Yellow (73%)

Black (0%)



Cyan (0%)

Magenta (30%)


Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 58.2038, 53.5181, 12.7312 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 58.2038, 53.5181, 12.7312 by changing the saturation by 10% instead.





 58.2038, 53.5181,  
12.7312


 58.2038, 53.5181,  
12.7312


407.8865,  
400.2697, 220.3347


 42.2164, 38.2165,  
7.1152


 101.3408, 95.3663,  
31.5041

 29.4626, 26.1508,  
3.4547


 129.2212,  
122.6817, 45.4980


 19.5771, 16.9365,  
1.3312


 161.7966,  
154.7706, 63.1217

 12.1945, 10.1892,  
0.0872

 199.4324,  
192.0172, 84.7936

 6.9494, 5.5246,  
0.0000

 242.4939,  
234.8061, 110.9323

 3.4765, 2.5582,  
0.0000

291.3465,

 1.4105, 0.9057,

283.5215, 141.9564

0.0000

346.3556,  
338.5479, 178.2843

■ 0.2637, 0.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 58.2038, 53.5181,  
12.7312

■ 58.2038, 53.5181,  
12.7312

■ 55.5787, 49.2545,  
8.8158

■ 61.3294, 58.2422,  
18.4827

■ 53.3994, 45.4172,  
6.4824

■ 64.9944, 63.4411,  
26.2736

■ 52.1473, 43.0750,  
5.5658

■ 69.2368, 69.1378,  
36.2835

■ 74.0899, 75.3506,  
48.6710

■ 79.5840, 82.0967,  
63.5803

■ 85.7472, 89.3923,  
81.1439

■ 92.6056, 97.2525,  
101.4849

■ 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.



71.3353, 53.5181, 21.1205



58.2038, 53.5181, 12.7312



45.0375, 53.5181, 12.4709

# Triad

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



58.2038, 53.5181, 12.7312



30.0698, 53.5181, 77.4350



70.4752, 53.5181, 127.5240

# Complementary

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



58.2038, 53.5181, 12.7312



30.5588, 28.6986, 98.5360

# 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.



57.1798, 53.5181, 160.5324



58.2038, 53.5181, 12.7312



34.7448, 53.5181, 124.2253

# Square

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



58.2038, 53.5181, 12.7312



30.2479, 53.5181, 40.4143



44.1748, 53.5181, 159.1166



79.2110, 53.5181, 80.7404



# Rectangle

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



58.2038, 53.5181, 12.7312



38.0371, 53.5181, 16.4793



44.1748, 53.5181, 159.1166



66.3001, 53.5181, 141.3461

# Sweetspot

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



58.2050, 53.5208, 12.7322



80.3662, 83.0368, 65.7639



48.4891, 27.4673, 29.9070



16.8637, 17.3660, 13.1354



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.



58.2050, 53.5208, 12.7322



54.5096, 47.4118, 7.5473



72.5406, 90.3603, 19.0874



18.8975, 19.7632, 18.9630



27.3989, 22.8091, 2.9585



2.7754, 2.4362, 0.3240



# Inverse Universe

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



30.5588, 28.6986, 98.5360



25.6852, 21.6693, 97.4366



23.7365, 13.2204, 95.9080



17.6173, 18.6061, 22.9128



12.2091, 9.3277, 50.5915



1.2932, 1.1171, 4.9607



# Previews

## White Background



This preview shows how the XYZ color 58.2038, 53.5181, 12.7312 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 58.2038, 53.5181, 12.7312 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 58.2038, 53.5181, 12.7312**

## **Background**



This preview shows how black text looks on a background with the XYZ color 58.2038, 53.5181, 12.7312.



This preview shows how white text looks on a background with the XYZ color 58.2038, 53.5181,



# 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

58.2038, 53.5181, 12.7312

### Protanopia

48.7804, 53.6504, 13.9154

### Deuteranopia

54.7418, 53.5516, 12.6055



## Tritanopia

63.9552, 53.3456, 50.6420

# Trichromacy



## Original Color

58.2038, 53.5181, 12.7312

## Protanomaly

51.7537, 53.2444, 13.5107

## Deuteranomaly

56.0988, 53.6353, 12.7061

## Tritanomaly

60.9172, 53.0406, 31.8381

# Monochromacy



## Original Color

58.2038, 53.5181, 12.7312

## Achromatopsia

47.7994, 50.2886, 54.7643

## Achromatomaly

49.3259, 50.2916, 33.4931

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 58.2038, 53.5181, 12.7312 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, 178, 68)` looks like.

```
.text, #text, p{  
    color:rgb(255, 178, 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, 178, 68) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 178, 68) }
```

## Border

The CSS property to change the border of an element to XYZ 58.2038, 53.5181, 12.7312 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, 178, 68) }
```



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

```
.border{ border-color:rgb(255, 178, 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, 178, 68) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 178, 68); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 178, 68);  
box-shadow:4px 4px 4px 4px rgb(255, 178,  
68) }
```

# Background

The CSS property to change the background color of an element to XYZ 58.2038, 53.5181, 12.7312 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 178, 68) }
```

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

```
.background{ background-color: rgb(255,  
178, 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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