

# Converting Colors

XYZ(56.1474, 48.9715, 13.4288)

Have a look what the booklet for  
XYZ(56.1474, 48.9715, 13.4288)  
contains.

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# Color

**XYZ(56.2158, 49.0683,  
13.5294)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFA64D
RGB	255, 166, 77
RGB Percent	100%, 65%, 30%
CMY	0.0000, 0.3490, 0.6980
CMYK	0.00, 0.35, 0.70, 0.00
HSL	30°, 100%, 65%
HSV	30°, 70%, 100%
XYZ	56.2158, 49.0683, 13.5294
YIQ	182.4650, 81.6130, -8.8110

# Conversions

## Conversions Part 2

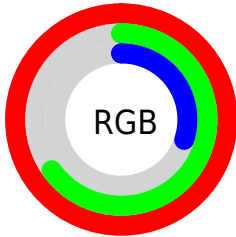
Format	Color
<a href="#">RYB</a>	<a href="#">255, 255, 77</a>
Decimal	<a href="#">16754253</a>
CIELab	<a href="#">75.49, 25.33, 57.95</a>
CIELCh	<a href="#">75, 63.243, 66.385</a>
Yxy	<a href="#">49.0683, 0.4731, 0.4130</a>
Android (android.graphics.Color)	<a href="#">4294944333</a> (0xFFFFA64D)
YUV	<a href="#">182.4650, -51.9942, 63.6132</a>
Hunter-Lab	<a href="#">70.0488, 20.6651, 37.5827</a>

# Details

The XYZ color **56.2158, 49.0683, 13.5294** 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 **34.7459, 36.0683, 99.7377**, and the grayscale version is **44.9622, 47.3038, 51.5138**.

A 20% lighter version of the original color is **71.1257, 74.5846, 31.7666**, and **28.1545, 23.4300, 3.7976** is the 20% darker color. If you saturate the color by 10%, you get **53.2820, 44.3704, 8.9465**, and if you desaturate by 10%, it is **59.7343, 54.3718, 20.0479**.

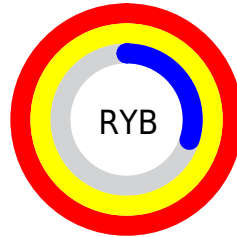
# Distribution



Red (100%)

Green (65%)

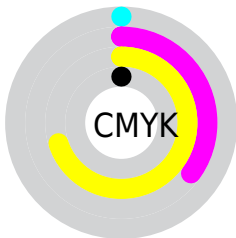
Blue (30%)



Red (100%)

Yellow (100%)

Blue (30%)

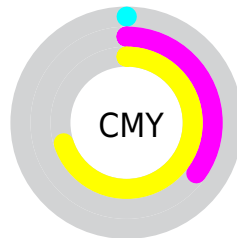


Cyan (0%)

Magenta (35%)

Yellow (70%)

Black (0%)



Cyan (0%)

Magenta (35%)

Yellow (70%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 56.2158, 49.0683, 13.5294 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 56.2158, 49.0683, 13.5294 by changing the saturation by 10% instead.



56.2158, 49.0683,  
13.5294

56.2158, 49.0683,  
13.5294

400.5661,  
383.0111, 225.6089

40.6136, 34.6737,  
7.6591

98.4580, 88.7929,  
32.9567

28.2037, 23.4116,  
3.7930

125.8288,  
114.8916, 47.3507

18.6205, 14.8977,  
1.5125

157.8531,  
145.6605, 65.4231

11.4987, 8.7476,  
0.2272

194.8964,  
181.4840, 87.5924

6.4731, 4.5769,  
0.0000

237.3240,  
222.7464, 114.2770

3.1782, 2.0012,  
0.0000

285.5013,

1.2487, 0.6082,

269.8321, 145.8957

0.0000

339.7935,  
323.1255, 182.8668

■ 0.1443, 0.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 56.2158, 49.0683,  
13.5294

■ 56.2158, 49.0683,  
13.5294

■ 53.2820, 44.3704,  
8.9465

■ 59.7343, 54.3718,  
20.0479

■ 50.8789, 40.2398,  
6.0629

■ 63.8774, 60.3009,  
28.6954

■ 48.9304, 36.6368,  
4.5071

■ 68.6845, 66.8832,  
39.6447

■ 48.8950, 36.5704,  
4.4817

■ 74.1904, 74.1421,  
53.0497

80.4272, 82.0996,  
69.0509

87.4246, 90.7764,  
87.7783

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.



67.1333, 49.0683, 23.6553



56.2158, 49.0683, 13.5294



44.1870, 49.0683, 11.6315

# Triad

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



56.2158, 49.0683, 13.5294



27.7048, 49.0683, 60.8964



61.2541, 49.0683, 123.6508

# Complementary

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



56.2158, 49.0683, 13.5294



34.7459, 36.0683, 99.7377

# 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.



49.1779, 49.0683, 146.1090



56.2158, 49.0683, 13.5294



30.8065, 49.0683, 101.3297

# Square

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



56.2158, 49.0683, 13.5294



28.9525, 49.0683, 31.5986



38.2149, 49.0683, 136.5802



70.3648, 49.0683, 83.5236



# Rectangle

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



56.2158, 49.0683, 13.5294



37.3606, 49.0683, 14.0617



38.2149, 49.0683, 136.5802



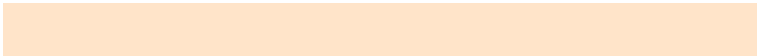
57.3365, 49.0683, 134.1406

# Sweetspot

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



56.2169, 49.0708, 13.5303



79.6415, 81.1100, 66.9945



50.7768, 29.3212, 39.0602



16.6673, 16.8804, 13.3558



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.



56.2169, 49.0708, 13.5303



52.2122, 42.5695, 7.5444



78.3392, 93.3153, 20.9044



18.7598, 19.4878, 18.9171



25.6981, 19.4075, 2.3916

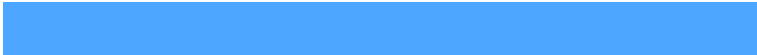


2.6113, 2.1081, 0.2693



# Inverse Universe

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



34.7459, 36.0683, 99.7377



29.5295, 28.8334, 98.6168



23.7647, 14.1060, 96.0773



17.7534, 18.8783, 22.9581



13.5796, 12.0688, 51.0484



1.4314, 1.3935, 5.0068



# Previews

## White Background



This preview shows how the XYZ color 56.2158, 49.0683, 13.5294 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

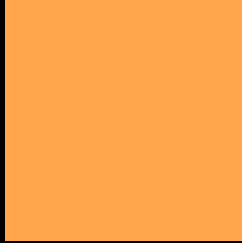
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 56.2158, 49.0683, 13.5294 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 56.2158, 49.0683, 13.5294

## Background



This preview shows how black text looks on a background with the XYZ color 56.2158, 49.0683, 13.5294.



This preview shows how white text looks on a background with the XYZ color 56.2158, 49.0683,



# 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

56.2158, 49.0683, 13.5294

### Protanopia

45.0638, 49.4306, 15.3496

### Deuteranopia

50.2369, 49.0945, 13.3070



## Tritanopia

60.8938, 48.9586, 44.2707

# Trichromacy



## Original Color

56.2158, 49.0683, 13.5294

## Protanomaly

48.3458, 48.6816, 14.6330

## Deuteranomaly

52.1487, 48.9204, 13.3507

## Tritanomaly

58.6043, 48.8782, 29.6382

# Monochromacy



## Original Color

56.2158, 49.0683, 13.5294

## Achromatopsia

44.4628, 46.7784, 50.9417

## Achromatomaly

46.8539, 46.6196, 32.9146

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 56.2158, 49.0683, 13.5294 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, 166, 77)` looks like.

```
.text, #text, p{  
    color:rgb(255, 166, 77)  
}
```

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, 166, 77) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 166, 77) }
```

## Border

The CSS property to change the border of an element to XYZ 56.2158, 49.0683, 13.5294 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, 166, 77) }
```



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

```
.border{ border-color:rgb(255, 166, 77) }
```

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

Here you see how a box with a 4 pixel rgb(255, 166, 77) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 166, 77); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 166, 77);  
box-shadow:4px 4px 4px 4px rgb(255, 166,  
77) }
```

# Background

The CSS property to change the background color of an element to XYZ 56.2158, 49.0683, 13.5294 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 166, 77) }
```

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

```
.background{ background-color: rgb(255,  
166, 77) }
```

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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