

# Converting Colors

XYZ(83.7386, 61.5120, 13.0341)

Have a look what the booklet for  
XYZ(83.7386, 61.5120, 13.0341)  
contains.

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# Color

**XYZ(54.7123, 46.4859,  
11.7193)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9F45
RGB	255, 159, 69
RGB Percent	100%, 62%, 27%
CMY	0.0000, 0.3764, 0.7294
CMYK	0.00, 0.38, 0.73, 0.00
HSL	29°, 100%, 64%
HSV	29°, 73%, 100%
XYZ	54.7123, 46.4859, 11.7193
YIQ	177.4440, 86.1060, -7.6380

# Conversions

## Conversions Part 2

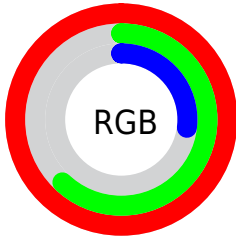
Format	Color
R <sub>Y</sub> B	255, 243, 69
Decimal	16752453
CIE Lab	73.86, 28.60, 59.79
CIE LCh	74, 66.284, 64.436
Yxy	46.4859, 0.4845, 0.4117
Android (android.graphics.Color)	4294942533 (0xFFFF9F45)
YUV	177.4440, -53.4629, 68.0166
Hunter-Lab	68.1806, 23.9234, 37.5353

# Details

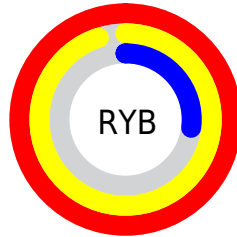
The XYZ color **54.7123, 46.4859, 11.7193** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **33.9586, 35.3938, 99.6490**, and the grayscale version is **42.2658, 44.4669, 48.4245**.

A 20% lighter version of the original color is **68.7994, 70.7583, 28.4439**, and **27.2993, 21.8726, 3.0414** is the 20% darker color. If you saturate the color by 10%, you get **51.9403, 41.9485, 7.6935**, and if you desaturate by 10%, it is **58.0672, 51.6460, 17.6166**.

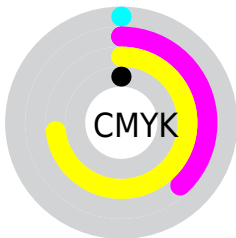
# Distribution



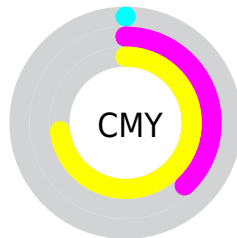
- Red (100%)
- Green (62%)
- Blue (27%)



- Red (100%)
- Yellow (95%)
- Blue (27%)



- Cyan (0%)
- Magenta (38%)
- Yellow (73%)
- Black (0%)




- Cyan (0%)
- Magenta (38%)
- Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 54.7123, 46.4859, 11.7193 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 54.7123, 46.4859, 11.7193 by changing the saturation by 10% instead.




 54.7123, 46.4859,  
11.7193


 54.7123, 46.4859,  
11.7193


394.9746,  
372.7587, 213.4496

 39.4044, 32.6294,  
6.4326


 96.2701, 84.9457,  
29.6395


 27.2566, 21.8427,  
3.0369


 123.2506,  
110.3179, 43.1102


 17.9036, 13.7414,  
1.1135


 154.8528,  
140.2973, 60.1459

 10.9801, 7.9410,  
0.0000

 191.4418,  
175.2686, 81.1652

 6.1206, 4.0572,  
0.0000

 233.3832,  
215.6159, 106.5867

 2.9599, 1.7056,  
0.0000

281.0422,

 1.1326, 0.4273,

261.7238, 136.8289

0.0000

334.7842,  
313.9766, 172.3104

■ 0.0521, 0.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 54.7123, 46.4859,  
11.7193

■ 54.7123, 46.4859,  
11.7193

■ 51.9403, 41.9485,  
7.6935

■ 58.0672, 51.6460,  
17.6166

■ 49.6936, 37.9928,  
5.2866

■ 62.0477, 57.4513,  
25.5892

■ 48.3718, 35.5239,  
4.3073

■ 66.6953, 63.9316,  
35.8166

■ 72.0465, 71.1118,  
48.4582

78.1345, 79.0157,  
63.6585

84.9906, 87.6654,  
81.5507

92.6438, 97.0821,  
102.2587

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.



65.6565, 46.4859, 22.0499



54.7123, 46.4859, 11.7193



42.4520, 46.4859, 9.5450

# Triad

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



54.7123, 46.4859, 11.7193



25.2071, 46.4859, 55.8084



58.2921, 46.4859, 125.3237

# Complementary

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



54.7123, 46.4859, 11.7193



33.9586, 35.3938, 99.6490

# 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.



45.9614, 46.4859, 146.9394



54.7123, 46.4859, 11.7193



27.9914, 46.4859, 96.9560

# Square

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



54.7123, 46.4859, 11.7193



26.7170, 46.4859, 27.4392



35.1002, 46.4859, 134.7473



67.9679, 46.4859, 84.1417



# Rectangle

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



54.7123, 46.4859, 11.7193



35.4484, 46.4859, 11.5168



35.1002, 46.4859, 134.7473



54.2472, 46.4859, 135.7876

# Sweetspot

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



54.7134, 46.4883, 11.7202



78.7463, 79.7971, 65.2240



50.1688, 28.2368, 38.4516



16.4814, 16.6015, 13.0079



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.



54.7134, 46.4883, 11.7202



50.7419, 39.8765, 6.2914



77.0928, 91.2471, 19.1800



18.7348, 19.4378, 18.9088



25.4234, 18.8581, 2.3000



2.5842, 2.0537, 0.2602



# Inverse Universe

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



33.9586, 35.3938, 99.6490



28.9456, 28.1902, 98.5234



22.8284, 13.1333, 95.9389



17.7784, 18.9284, 22.9665



13.8653, 12.6402, 51.1436



1.4594, 1.4496, 5.0161



# Previews

## White Background



This preview shows how the XYZ color 54.7123, 46.4859, 11.7193 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 54.7123, 46.4859, 11.7193 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 54.7123, 46.4859, 11.7193**

## **Background**



This preview shows how black text looks on a background with the XYZ color 54.7123, 46.4859, 11.7193.



This preview shows how white text looks on a background with the XYZ color 54.7123, 46.4859,



# 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

54.7123, 46.4859, 11.7193

### Protanopia

42.6611, 46.6742, 13.5980

### Deuteranopia

47.5763, 46.5997, 11.4881



## Tritanopia

58.9898, 46.3251, 40.0150

# Trichromacy



## Original Color

54.7123, 46.4859, 11.7193

## Protanomaly

46.4629, 46.2827, 12.7879

## Deuteranomaly

49.9111, 46.4031, 11.4804

## Tritanomaly

56.8576, 46.2612, 26.3547

# Monochromacy



## Original Color

54.7123, 46.4859, 11.7193

## Achromatopsia

41.7894, 43.9657, 47.8787

## Achromatomaly

44.1390, 43.5636, 30.1270

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 54.7123, 46.4859, 11.7193 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, 159, 69)` looks like.

```
.text, #text, p{  
    color:rgb(255, 159, 69)  
}
```

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, 159, 69) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 159, 69) }
```

## Border

The CSS property to change the border of an element to XYZ 54.7123, 46.4859, 11.7193 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, 159, 69) }
```



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

```
.border{ border-color:rgb(255, 159, 69) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 159, 69)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 159, 69); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 159, 69);  
box-shadow:4px 4px 4px 4px rgb(255, 159,  
69) }
```

# Background

The CSS property to change the background color of an element to XYZ 54.7123, 46.4859, 11.7193 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 159, 69) }
```

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

```
.background{ background-color: rgb(255,  
159, 69) }
```

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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