

# Converting Colors

XYZ(61.7399, 50.0836, 15.3846)

Have a look what the booklet for  
XYZ(61.7399, 50.0836, 15.3846)  
contains.

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# Color

**XYZ(55.3584, 46.7444,  
15.1217)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF9F57
RGB	255, 159, 87
RGB Percent	100%, 62%, 34%
CMY	0.0000, 0.3764, 0.6588
CMYK	0.00, 0.38, 0.66, 0.00
HSL	26°, 100%, 67%
HSV	26°, 66%, 100%
XYZ	55.3584, 46.7444, 15.1217
YIQ	179.4960, 80.3280, -2.0400

# Conversions

## Conversions Part 2

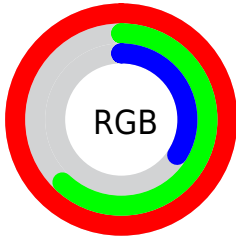
<b>Format</b>	<b>Color</b>
<b>RYB</b>	255, 213, 87
Decimal	16752471
CIELab	74.03, 29.52, 51.64
CIELCh	74, 59.485, 60.251
Yxy	46.7444, 0.4722, 0.3988
Android (android.graphics.Color)	4294942551 (0xFFFF9F57)
YUV	179.4960, -45.6005, 66.2170
Hunter-Lab	68.3699, 24.8824, 34.7455

# Details

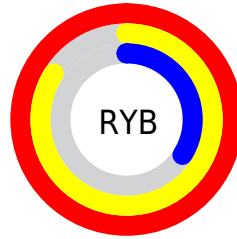
The XYZ color **55.3584, 46.7444, 15.1217** is a light color, and the websafe version is hex **FF9966**. The color can be described as light muted orange. A complement of this color would be **38.9128, 43.1108, 100.8773**, and the grayscale version is **43.3198, 45.5758, 49.6321**.

A 20% lighter version of the original color is **69.9468, 71.2172, 34.4858**, and **27.5685, 21.9802, 4.4587** is the 20% darker color. If you saturate the color by 10%, you get **52.1352, 41.6813, 9.7836**, and if you desaturate by 10%, it is **59.2470, 52.5501, 22.4968**.

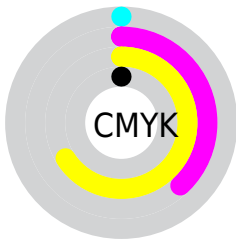
# Distribution



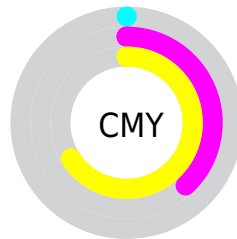
- Red (100%)
- Green (62%)
- Blue (34%)



- Red (100%)
- Yellow (84%)
- Blue (34%)



- Cyan (0%)
- Magenta (38%)
- Yellow (66%)
- Black (0%)




- Cyan (0%)
- Magenta (38%)
- Yellow (66%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 55.3584, 46.7444, 15.1217 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 55.3584, 46.7444, 15.1217 by changing the saturation by 10% instead.





 55.3584, 46.7444,  
15.1217


 55.3584, 46.7444,  
15.1217


397.3834,  
373.7934, 235.7678

 39.9237, 32.8336,  
8.7573


 97.2111, 85.3320,  
35.8119


 27.6630, 21.9990,  
4.4886


 124.3599,  
110.7776, 50.9747

 18.2109, 13.8562,  
1.8970


 156.1441,  
140.8369, 69.9073

 11.2021, 8.0207,  
0.4908

 192.9290,  
175.8943, 93.0284

 6.2713, 4.1082,  
0.0000

 235.0800,  
216.3343, 120.7565

 3.0529, 1.7343,  
0.0000

282.9625,

 1.1818, 0.4457,

262.5412, 153.5100

0.0000

336.9419,  
314.8994, 191.7076

■ 0.0919, 0.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 55.3584, 46.7444,  
15.1217

■ 55.3584, 46.7444,  
15.1217

■ 52.1352, 41.6813,  
9.7836

■ 59.2470, 52.5501,  
22.4968

■ 49.5231, 37.3170,  
6.2620

■ 63.8422, 59.1247,  
32.0929

■ 47.4618, 33.6120,  
4.2880

■ 69.1852, 66.5013,  
44.0762

■ 46.7399, 32.2602,  
3.7634

■ 75.3126, 74.7089,  
58.5960

82.2585, 83.7746,  
75.7895

90.0548, 93.7245,  
95.7836

95.0497, 99.9998,  
108.9000

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



64.5194, 46.7444, 26.7423



55.3584, 46.7444, 15.1217



44.3398, 46.7444, 11.9414

# Triad

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



55.3584, 46.7444, 15.1217



26.9692, 46.7444, 51.1533



55.5380, 46.7444, 120.0250

# Complementary

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



55.3584, 46.7444, 15.1217



38.9128, 43.1108, 100.8773

# 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.



44.5187, 46.7444, 134.7020



55.3584, 46.7444, 15.1217



29.0133, 46.7444, 86.4343

# Square

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



55.3584, 46.7444, 15.1217



28.9460, 46.7444, 27.0323



35.0423, 46.7444, 120.4795



64.6342, 46.7444, 85.8042



# Rectangle

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



55.3584, 46.7444, 15.1217



37.7256, 46.7444, 13.3707



35.0423, 46.7444, 120.4795



51.8832, 46.7444, 127.9001

# Sweetspot

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



55.3595, 46.7468, 15.1226



79.2971, 79.9357, 68.3765



53.4051, 31.5794, 49.1798



16.5577, 16.5669, 13.6099



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.



55.3595, 46.7468, 15.1226



51.2579, 40.2472, 8.5018



74.4152, 84.8582, 21.4745



18.6495, 19.2672, 18.8803



24.5639, 17.1391, 2.0135



2.4975, 1.8804, 0.2313



# Inverse Universe

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



38.9128, 43.1108, 100.8773



33.6714, 36.2402, 99.8281



26.6344, 18.5540, 96.7845



17.8647, 19.1010, 22.9952



14.9299, 14.7694, 51.4985



1.5622, 1.6550, 5.0504



# Previews

## White Background



This preview shows how the XYZ color 55.3584, 46.7444, 15.1217 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 55.3584, 46.7444, 15.1217 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 55.3584, 46.7444, 15.1217**

## **Background**



This preview shows how black text looks on a background with the XYZ color 55.3584, 46.7444, 15.1217.



This preview shows how white text looks on a background with the XYZ color 55.3584, 46.7444,



# 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

55.3584, 46.7444, 15.1217

### Protanopia

43.0864, 47.1107, 17.6488

### Deuteranopia

48.0614, 47.0654, 14.7350



## Tritanopia

59.2421, 46.6868, 40.5394

# Trichromacy



## Original Color

55.3584, 46.7444, 15.1217

## Protanomaly

46.8866, 46.4170, 16.6134

## Deuteranomaly

50.7133, 47.0206, 14.7905

## Tritanomaly

57.3345, 46.4520, 28.8659

# Monochromacy



## Original Color

55.3584, 46.7444, 15.1217

## Achromatopsia

43.3819, 45.6411, 49.7032

## Achromatomaly

45.6730, 44.8458, 33.4430

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 55.3584, 46.7444, 15.1217 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, 87)` looks like.

```
.text, #text, p{  
    color:rgb(255, 159, 87)  
}
```

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, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 159, 87) }
```

## Border

The CSS property to change the border of an element to XYZ 55.3584, 46.7444, 15.1217 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, 87) }
```



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

```
.border{ border-color:rgb(255, 159, 87) }
```

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, 87)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 159, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 159, 87);  
box-shadow:4px 4px 4px 4px rgb(255, 159,  
87) }
```

# Background

The CSS property to change the background color of an element to XYZ 55.3584, 46.7444, 15.1217 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, 87) }
```

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

```
.background{ background-color: rgb(255,  
159, 87) }
```

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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