

# Converting Colors

XYZ(92.3528, 66.6921, 16.9017)

Have a look what the booklet for  
XYZ(92.3528, 66.6921, 16.9017)  
contains.

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# Color

**XYZ(55.8400, 47.7725,  
15.0820)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFA256
RGB	255, 162, 86
RGB Percent	100%, 64%, 34%
CMY	0.0000, 0.3647, 0.6627
CMYK	0.00, 0.36, 0.66, 0.00
HSL	27°, 100%, 67%
HSV	27°, 66%, 100%
XYZ	55.8400, 47.7725, 15.0820
YIQ	181.1430, 79.8240, -3.9200

# Conversions

## Conversions Part 2

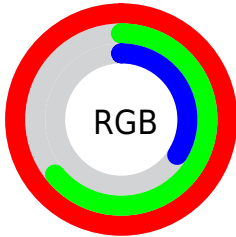
Format	Color
<a href="#">RYB</a>	<a href="#">255, 224, 86</a>
Decimal	<a href="#">16753238</a>
CIELab	<a href="#">74.68, 27.90, 52.87</a>
CIELCh	<a href="#">75, 59.776, 62.177</a>
Yxy	<a href="#">47.7725, 0.4705, 0.4025</a>
Android (android.graphics.Color)	<a href="#">4294943318</a> (0xFFFFA256)
YUV	<a href="#">181.1430, -46.9055, 64.7726</a>
Hunter-Lab	<a href="#">69.1177, 23.2539, 35.4448</a>

# Details

The XYZ color **55.8400, 47.7725, 15.0820** 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 **38.0068, 41.4364, 100.6020**, and the grayscale version is **44.2151, 46.5178, 50.6578**.

A 20% lighter version of the original color is **70.6403, 72.7207, 34.3581**, and **27.8716, 22.6107, 4.4854** is the 20% darker color. If you saturate the color by 10%, you get **52.6547, 42.7636, 9.8239**, and if you desaturate by 10%, it is **59.6696, 53.4845, 22.3629**.

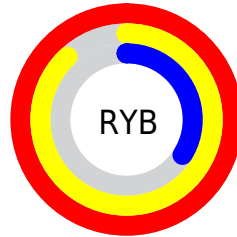
# Distribution



Red (100%)

Green (64%)

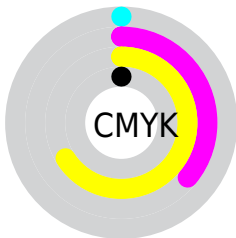
Blue (34%)



Red (100%)

Yellow (88%)

Blue (34%)

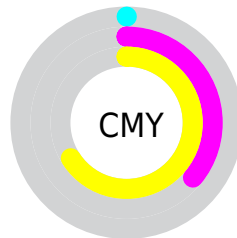


Cyan (0%)

Magenta (36%)

Yellow (66%)

Black (0%)



Cyan (0%)

Magenta (36%)


Yellow (66%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 55.8400, 47.7725, 15.0820 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 55.8400, 47.7725, 15.0820 by changing the saturation by 10% instead.





 55.8400, 47.7725,  
15.0820


 55.8400, 47.7725,  
15.0820


399.1731,  
377.8897, 235.5199


 40.3112, 33.6468,  
8.7297


 97.9118, 86.8656,  
35.7413


 27.9665, 22.6224,  
4.4709


 125.1854,  
112.6017, 50.8854


 18.4407, 14.3149,  
1.8871


 157.1047,  
142.9768, 69.7971

 11.3685, 8.3400,  
0.4845

 194.0349,  
178.3751, 92.8951

 6.3844, 4.3133,  
0.0000

 236.3416,  
219.1812, 120.5978

 3.1230, 1.8503,  
0.0000

284.3899,

 1.2192, 0.5182,

265.7794, 153.3238

0.0000

338.5453,  
318.5541, 191.4916

■ 0.1214, 0.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 55.8400, 47.7725,  
15.0820

■ 55.8400, 47.7725,  
15.0820

■ 52.6547, 42.7636,  
9.8239

■ 59.6696, 53.4845,  
22.3629

■ 50.0605, 38.4159,  
6.3668

■ 64.1839, 59.9234,  
31.8512

■ 47.9977, 34.6926,  
4.4394

■ 69.4231, 67.1205,  
43.7134

■ 47.3344, 33.4493,  
3.9616

■ 75.4230, 75.1028,  
58.0990

82.2168, 83.8956,  
75.1454

89.8355, 93.5231,  
94.9796

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.



65.4196, 47.7725, 26.2739



55.8400, 47.7725, 15.0820



44.6195, 47.7725, 12.2743

# Triad

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



55.8400, 47.7725, 15.0820



27.6085, 47.7725, 54.3158



57.4283, 47.7725, 120.6180

# Complementary

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



55.8400, 47.7725, 15.0820



38.0068, 41.4364, 100.6020

# Split Complementary

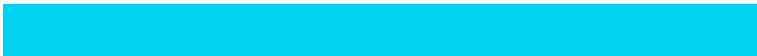
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



46.2024, 47.7725, 137.3127



55.8400, 47.7725, 15.0820



29.9578, 47.7725, 90.6963

# Square

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



55.8400, 47.7725, 15.0820



29.3620, 47.7725, 28.8433



36.3607, 47.7725, 124.6326



66.4343, 47.7725, 85.1271



# Rectangle

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



55.8400, 47.7725, 15.0820



37.9880, 47.7725, 14.0200



36.3607, 47.7725, 124.6326



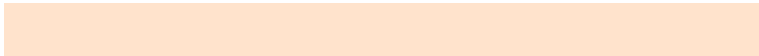
53.7326, 47.7725, 129.1325

# Sweetspot

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



55.8411, 47.7749, 15.0829



79.5909, 80.5232, 68.4744



52.9871, 31.2836, 47.3755



16.6277, 16.7070, 13.6332



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.



55.8411, 47.7749, 15.0829



51.6221, 41.0681, 8.3381



75.1899, 86.4724, 21.5325



18.6821, 19.3323, 18.8912



24.8776, 17.7665, 2.1181



2.5295, 1.9443, 0.2420



# Inverse Universe

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



38.0068, 41.4364, 100.6020



32.5574, 34.2081, 99.4946



26.1874, 17.7976, 96.6622



17.8316, 19.0349, 22.9842



14.5073, 13.9241, 51.3576



1.5217, 1.5740, 5.0369



# Previews

## White Background



This preview shows how the XYZ color 55.8400, 47.7725, 15.0820 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

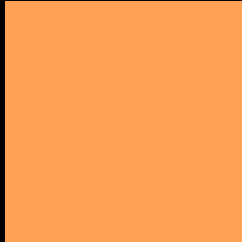
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 55.8400, 47.7725, 15.0820 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

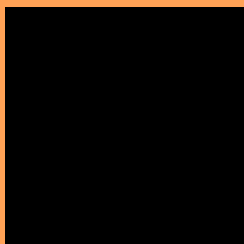
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 55.8400, 47.7725, 15.0820**

## **Background**



This preview shows how black text looks on a background with the XYZ color 55.8400, 47.7725, 15.0820.



This preview shows how white text looks on a background with the XYZ color 55.8400, 47.7725,



# 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

55.8400, 47.7725, 15.0820

### Protanopia

43.7449, 47.7678, 17.2704

### Deuteranopia

48.8862, 47.7785, 14.8292



## Tritanopia

60.0114, 47.7901, 42.1379

# Trichromacy



## Original Color

55.8400, 47.7725, 15.0820

## Protanomaly

47.4950, 47.3184, 16.3030

## Deuteranomaly

51.2349, 47.5667, 14.8684

## Tritanomaly

57.9822, 47.5199, 29.7832

# Monochromacy



## Original Color

55.8400, 47.7725, 15.0820

## Achromatopsia

43.9204, 46.2077, 50.3202

## Achromatomaly

46.3368, 45.7573, 33.5840

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 55.8400, 47.7725, 15.0820 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, 162, 86)` looks like.

```
.text, #text, p{  
    color:rgb(255, 162, 86)  
}
```

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, 162, 86) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 162, 86) }
```

## Border

The CSS property to change the border of an element to XYZ 55.8400, 47.7725, 15.0820 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, 162, 86) }
```



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

```
.border{ border-color:rgb(255, 162, 86) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 162, 86)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 162, 86); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 162, 86);  
box-shadow:4px 4px 4px 4px rgb(255, 162,  
86) }
```

# Background

The CSS property to change the background color of an element to XYZ 55.8400, 47.7725, 15.0820 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 162, 86) }
```

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

```
.background{ background-color: rgb(255,  
162, 86) }
```

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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