

# Converting Colors

XYZ(55.4556, 45.8524, 18.5042)

Have a look what the booklet for  
XYZ(55.4556, 45.8524, 18.5042)  
contains.

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# Color

**XYZ(55.5267, 45.9962,  
18.5220)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF9C66
RGB	255, 156, 102
RGB Percent	100%, 61%, 40%
CMY	0.0000, 0.3882, 0.6000
CMYK	0.00, 0.39, 0.60, 0.00
HSL	21°, 100%, 70%
HSV	21°, 60%, 100%
XYZ	55.5267, 45.9962, 18.5220
YIQ	179.4450, 76.3380, 4.1940

# Conversions

## Conversions Part 2

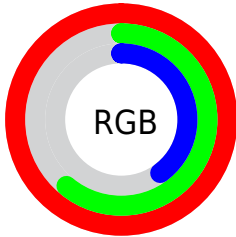
Format	Color
R <sub>Y</sub> B	255, 185, 102
Decimal	16751718
CIE Lab	73.54, 32.02, 43.57
CIE LCh	74, 54.069, 53.685
Yxy	45.9962, 0.4625, 0.3832
Android (android.graphics.Color)	4294941798 (0xFFFF9C66)
YUV	179.4450, -38.1804, 66.2617
Hunter-Lab	67.8205, 27.4575, 31.2821

# Details

The XYZ color **55.5267, 45.9962, 18.5220** is a light color, and the websafe version is hex **FF9966**. A complement of this color would be **44.4149, 51.8154, 102.2676**, and the grayscale version is **43.2555, 45.5081, 49.5583**.

A 20% lighter version of the original color is **70.3670, 70.1816, 40.4095**, and **27.8411, 21.6270, 6.0752** is the 20% darker color. If you saturate the color by 10%, you get **51.8682, 40.4015, 11.9938**, and if you desaturate by 10%, it is **59.9523, 52.5034, 27.2249**.

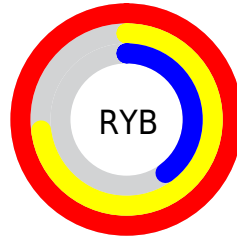
# Distribution



Red (100%)

Green (61%)

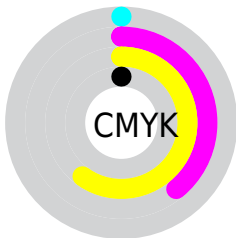
Blue (40%)



Red (100%)

Yellow (73%)

Blue (40%)

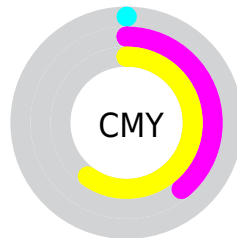


Cyan (0%)

Magenta (39%)

Yellow (60%)

Black (0%)



Cyan (0%)

Magenta (39%)


Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 55.5267, 45.9962, 18.5220 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 55.5267, 45.9962, 18.5220 by changing the saturation by 10% instead.





 55.5267, 45.9962,  
18.5220

 55.5267, 45.9962,  
18.5220


398.0094,  
370.7934, 256.1313


 40.0591, 32.2428,  
11.1521

 97.4561, 84.2133,  
41.7507


 27.7690, 21.5470,  
6.0538


 124.6485,  
109.4458, 58.4466

 18.2912, 13.5245,  
2.8085

 156.4799,  
139.2735, 79.0882

 11.2602, 7.7907,  
0.9977

 193.3157,  
174.0808, 104.0941

 6.3107, 3.9613,  
0.0000

235.5212,  
214.2520, 133.8828

 3.0774, 1.6519,  
0.0000

283.4617,

 1.1948, 0.3922,

260.1716, 168.8729

0.0000

337.5027,  
312.2239, 209.4828

■ 0.1023, 0.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 55.5267, 45.9962,  
18.5220

■ 55.5267, 45.9962,  
18.5220

■ 51.8682, 40.4015,  
11.9938

■ 59.9523, 52.5034,  
27.2249

■ 48.9215, 35.6671,  
7.4382

■ 65.1883, 59.9572,  
38.2749

■ 46.6275, 31.7458,  
4.6184

■ 71.2782, 68.3986,  
51.8296

■ 44.8969, 28.5741,  
3.1491

■ 78.2611, 77.8637,  
68.0322

■ 44.8968, 28.5739,  
3.1490

■ 86.1736, 88.3868,  
87.0150

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.



62.7945, 45.9962, 31.7784



55.5267, 45.9962, 18.5220



45.7701, 45.9962, 13.8748

# Triad

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



55.5267, 45.9962, 18.5220



27.8809, 45.9962, 44.5146



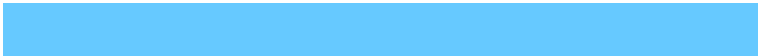
51.5220, 45.9962, 115.3764

# Complementary

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



55.5267, 45.9962, 18.5220



44.4149, 51.8154, 102.2676

# 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.



41.7282, 45.9962, 122.7008



55.5267, 45.9962, 18.5220



28.9586, 45.9962, 74.3336

# Square

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



55.5267, 45.9962, 18.5220



30.5215, 45.9962, 24.9362



33.7148, 45.9962, 105.5728



60.2569, 45.9962, 88.1546



# Rectangle

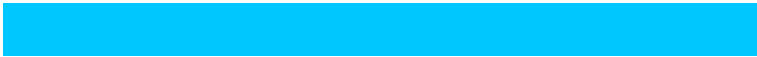
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



55.5267, 45.9962, 18.5220



39.5135, 45.9962, 14.3800



33.7148, 45.9962, 105.5728



48.2106, 45.9962, 120.5783

# Sweetspot

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



55.5278, 45.9986, 18.5229



79.7679, 79.8822, 71.6011



56.5870, 35.0013, 59.3099



16.6069, 16.4723, 14.2217



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.



55.5278, 45.9986, 18.5229



51.2236, 39.3869, 10.9314



72.5087, 79.9604, 24.1832



18.5339, 19.0359, 18.8418



23.5863, 15.1837, 1.6876



2.3947, 1.6748, 0.1971



# Inverse Universe

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



44.4149, 51.8154, 102.2676



39.1332, 45.4852, 101.3247



30.8571, 24.6998, 97.7484



17.9837, 19.3391, 23.0349



16.6069, 18.1234, 52.0575



1.7198, 1.9704, 5.1029



# Previews

## White Background



This preview shows how the XYZ color 55.5267, 45.9962, 18.5220 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

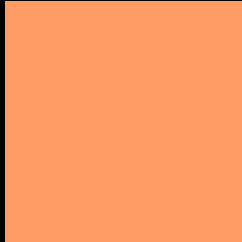
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 55.5267, 45.9962, 18.5220 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 55.5267, 45.9962, 18.5220**

## **Background**



This preview shows how black text looks on a background with the XYZ color 55.5267, 45.9962, 18.5220.



This preview shows how white text looks on a background with the XYZ color 55.5267, 45.9962,



# 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

55.5267, 45.9962, 18.5220

### Protanopia

42.6818, 46.2012, 21.7071

### Deuteranopia

47.2724, 46.2986, 18.0003



## Tritanopia

58.7396, 45.9664, 39.4947

# Trichromacy



## Original Color

55.5267, 45.9962, 18.5220



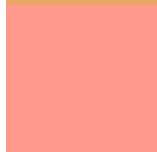
## Protanomaly

46.6727, 45.6478, 20.5384



## Deuteranomaly

50.0025, 46.0307, 18.0538



## Tritanomaly

57.3649, 45.9359, 30.6540

# Monochromacy



## Original Color

55.5267, 45.9962, 18.5220



## Achromatopsia

42.8472, 45.0786, 49.0906



## Achromatomaly

45.8810, 44.6256, 35.4736

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 55.5267, 45.9962, 18.5220 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, 156, 102)` looks like.

```
.text, #text, p{  
    color:rgb(255, 156, 102)  
}
```

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, 156, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 156, 102) }
```

## Border

The CSS property to change the border of an element to XYZ 55.5267, 45.9962, 18.5220 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, 156, 102) }
```



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

```
.border{ border-color:rgb(255, 156, 102) }
```

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

Here you see how a box with a 4 pixel rgb(255, 156, 102) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 156, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 156, 102);  
box-shadow:4px 4px 4px 4px rgb(255, 156,  
102) }
```

# Background

The CSS property to change the background color of an element to XYZ 55.5267, 45.9962, 18.5220 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 156, 102) }
```

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

```
.background{ background-color: rgb(255,  
156, 102) }
```

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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