

# Converting Colors

XYZ(56.1210, 47.1848, 18.7200)

Have a look what the booklet for  
XYZ(56.1210, 47.1848, 18.7200)  
contains.

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# Color

**XYZ(56.0364, 47.0156,  
18.6918)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9F66
RGB	255, 159, 102
RGB Percent	100%, 62%, 40%
CMY	0.0000, 0.3764, 0.6000
CMYK	0.00, 0.38, 0.60, 0.00
HSL	22°, 100%, 70%
HSV	22°, 60%, 100%
XYZ	56.0364, 47.0156, 18.6918
YIQ	181.2060, 75.5130, 2.6250

# Conversions

## Conversions Part 2

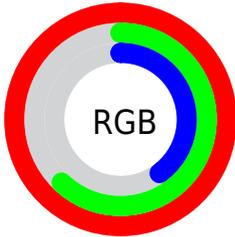
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 193, 102
Decimal	16752486
CIE Lab	74.20, 30.47, 44.36
CIE LCh	74, 53.816, 55.521
Yxy	47.0156, 0.4603, 0.3862
Android (android.graphics.Color)	4294942566 (0xFFFF9F66)
YUV	181.2060, -39.0486, 64.7173
Hunter-Lab	68.5679, 25.8833, 31.8349

# Details

The XYZ color **56.0364, 47.0156, 18.6918** is a light color, and the websafe version is hex **FF9966**. A complement of this color would be **43.7222, 50.4301, 102.0368**, and the grayscale version is **44.2097, 46.5121, 50.6517**.

A 20% lighter version of the original color is **71.1193, 71.6862, 40.6603**, and **28.1484, 22.2418, 6.1777** is the 20% darker color. If you saturate the color by 10%, you get **52.3855, 41.4361, 12.1662**, and if you desaturate by 10%, it is **60.4345, 53.4676, 27.3855**.

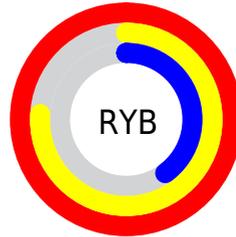
# Distribution



Red (100%)

Green (62%)

Blue (40%)



Red (100%)

Yellow (76%)

Blue (40%)

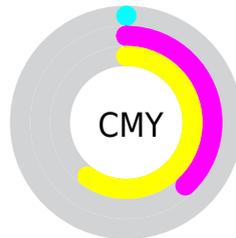


Cyan (0%)

Magenta (38%)

Yellow (60%)

Black (0%)



Cyan (0%)

Magenta (38%)

Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 56.0364, 47.0156, 18.6918 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 56.0364, 47.0156, 18.6918 by changing the saturation by 10% instead.



 56.0364, 47.0156,  
18.6918

 56.0364, 47.0156,  
18.6918

399.9015,  
374.8768, 257.1078

 40.4692, 33.0480,  
11.2732

 98.1973, 85.7369,  
42.0424

 28.0904, 22.1632,  
6.1345

 125.5217,  
111.2594, 58.8115

 18.5346, 13.9769,  
2.8569

 157.4960,  
141.4023, 79.5346

 11.4365, 8.1046,  
1.0220

 194.4853,  
176.5500, 104.6301

 6.4307, 4.1619,  
0.0000

236.8552,  
217.0869, 134.5166

 3.1518, 1.7646,  
0.0000

284.9710,

 1.2346, 0.4649,

263.3974, 169.6127

0.0000

339.1979,  
315.8659, 210.3369

■ 0.1334, 0.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 56.0364, 47.0156,  
18.6918

■ 56.0364, 47.0156,  
18.6918

■ 52.3855, 41.4361,  
12.1662

■ 60.4345, 53.4676,  
27.3855

■ 49.4280, 36.6801,  
7.6070

■ 65.6216, 60.8236,  
38.4191

■ 47.1063, 32.7035,  
4.7780

■ 71.6399, 69.1220,  
51.9500

■ 45.3330, 29.4464,  
3.2945

■ 78.5274, 78.3964,  
68.1208

■ 45.3329, 29.4462,  
3.2944

■ 86.3197, 88.6791,  
87.0635

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.



63.6116, 47.0156, 31.5392



56.0364, 47.0156, 18.6918



46.1517, 47.0156, 14.3863

# Triad

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



56.0364, 47.0156, 18.6918



28.6226, 47.0156, 47.1530



53.1681, 47.0156, 115.6863

# Complementary

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



56.0364, 47.0156, 18.6918



43.7222, 50.4301, 102.0368

# 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.



43.2534, 47.0156, 124.5541



56.0364, 47.0156, 18.6918



29.9458, 47.0156, 77.6723

# Square

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



56.0364, 47.0156, 18.6918



31.0692, 47.0156, 26.6157



34.9837, 47.0156, 108.6857



61.7954, 47.0156, 87.5555



# Rectangle

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



56.0364, 47.0156, 18.6918



39.9030, 47.0156, 15.1617



34.9837, 47.0156, 108.6857



49.8387, 47.0156, 121.3692

# Sweetspot

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



56.0375, 47.0180, 18.6927



80.0123, 80.3710, 71.6826



56.2885, 34.8818, 57.7382



16.6660, 16.5905, 14.2414



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.



56.0375, 47.0180, 18.6927



51.7402, 40.4201, 11.1036



73.2320, 81.4069, 24.4242



18.5638, 19.0957, 18.8518



23.8185, 15.6482, 1.7650



2.4197, 1.7247, 0.2054



# Inverse Universe

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



43.7222, 50.4301, 102.0368



38.3619, 43.9426, 101.0676



30.5385, 24.0627, 97.6422



17.9528, 19.2771, 23.0246



16.1470, 17.2036, 51.9042



1.6770, 1.8847, 5.0887



# Previews

## White Background



This preview shows how the XYZ color 56.0364, 47.0156, 18.6918 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

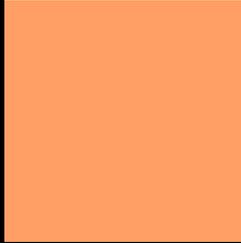
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 56.0364, 47.0156, 18.6918 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

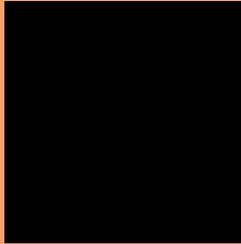
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 56.0364, 47.0156, 18.6918**

## **Background**



This preview shows how black text looks on a background with the XYZ color 56.0364, 47.0156, 18.6918.



This preview shows how white text looks on a background with the XYZ color 56.0364, 47.0156,



# 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

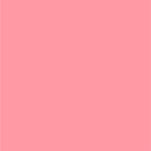
56.0364, 47.0156, 18.6918

### Protanopia

43.6221, 47.2940, 21.8685

### Deuteranopia

48.1287, 47.0202, 18.3435



## Tritanopia

59.4964, 47.0515, 41.0680

# Trichromacy



## Original Color

56.0364, 47.0156, 18.6918

## Protanomaly

47.3580, 46.5705, 20.6803

## Deuteranomaly

50.7492, 46.9582, 18.4457

## Tritanomaly

57.9362, 46.9600, 31.2099

# Monochromacy



## Original Color

56.0364, 47.0156, 18.6918

## Achromatopsia

43.9204, 46.2077, 50.3202

## Achromatomaly

46.6235, 45.5640, 36.0432

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 56.0364, 47.0156, 18.6918 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, 102)` looks like.

```
.text, #text, p{  
    color:rgb(255, 159, 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, 159, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 159, 102) }
```

## Border

The CSS property to change the border of an element to XYZ 56.0364, 47.0156, 18.6918 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, 102) }
```



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

```
.border{ border-color:rgb(255, 159, 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, 159, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 159, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 159, 102);  
box-shadow:4px 4px 4px 4px rgb(255, 159,  
102) }
```

# Background

The CSS property to change the background color of an element to XYZ 56.0364, 47.0156, 18.6918 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, 102) }
```

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

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