

# Converting Colors

XYZ(51.6956, 38.3340, 17.2449)

Have a look what the booklet for  
XYZ(51.6956, 38.3340, 17.2449)  
contains.

<b>XYZ(51.7546, 38.4519, 17.2646)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(51.7546, 38.4519,  
17.2646)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8366
RGB	255, 131, 102
RGB Percent	100%, 51%, 40%
CMY	0.0000, 0.4862, 0.6000
CMYK	0.00, 0.49, 0.60, 0.00
HSL	11°, 100%, 70%
HSV	11°, 60%, 100%
XYZ	51.7546, 38.4519, 17.2646
YIQ	164.7700, 83.2130, 17.2690

# Conversions

## Conversions Part 2

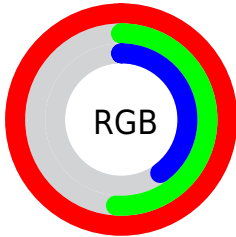
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 138, 102
Decimal	16745318
CIE <sub>Lab</sub>	68.35, 44.71, 37.18
CIE <sub>LCh</sub>	68, 58.150, 39.752
Yxy	38.4519, 0.4816, 0.3578
Android (android.graphics.Color)	4294935398 (0xFFFF8366)
YUV	164.7700, -30.9456, 79.1317
Hunter-Lab	62.0096, 40.4633, 26.8993

# Details

The XYZ color **51.7546, 38.4519, 17.2646** is a light color, and the websafe version is hex **FF9966**. A complement of this color would be **50.7241, 64.4338, 104.3709**, and the grayscale version is **35.7707, 37.6336, 40.9830**.

A 20% lighter version of the original color is **64.6316, 58.7109, 38.4977**, and **25.3826, 17.0526, 5.4437** is the 20% darker color. If you saturate the color by 10%, you get **48.1748, 33.0146, 10.7626**, and if you desaturate by 10%, it is **56.2786, 45.1559, 26.0002**.

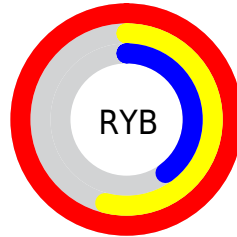
# Distribution



Red (100%)

Green (51%)

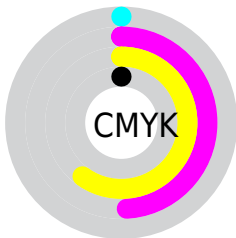
Blue (40%)



Red (100%)

Yellow (54%)

Blue (40%)

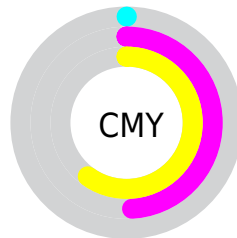


Cyan (0%)

Magenta (49%)

Yellow (60%)

Black (0%)



Cyan (0%)

Magenta (49%)


Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.7546, 38.4519, 17.2646 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 51.7546, 38.4519, 17.2646 by changing the saturation by 10% instead.





 51.7546, 38.4519,  
17.2646


 51.7546, 38.4519,  
17.2646


383.8280,  
339.5545, 248.7880

 37.0330, 26.3336,  
10.2594


 91.9456, 72.8003,  
39.5770


 25.4068, 17.0734,  
5.4634

 118.1457, 95.7991,  
55.7213

 16.5108, 10.2868,  
2.4582


 148.9027,  
123.1936, 75.7490

 9.9794, 5.5895,  
0.8179

 184.5819,  
155.3681, 100.0787

 5.4475, 2.5971,  
0.0000

225.5486,  
192.7071, 129.1289

 2.5496, 0.9252,  
0.0000

272.1684,

 0.9203, 0.0000,

235.5949, 163.3181

0.0000

324.8064,  
284.4159, 203.0650

■ 0.0000, 0.0000,  
0.0000

■ 51.7546, 38.4519,  
17.2646

■ 51.7546, 38.4519,  
17.2646

■ 48.1748, 33.0146,  
10.7626

■ 56.2786, 45.1559,  
26.0002

■ 45.4664, 28.7569,  
6.2864

■ 61.8068, 53.1940,  
37.1475

■ 43.5496, 25.5899,  
3.5924

■ 68.3971, 62.6363,  
50.8689

■ 42.3110, 23.4022,  
2.2871

■ 76.1021, 73.5458,  
67.3123

■ 42.3109, 23.4021,  
2.2870

■ 84.9712, 85.9819,  
86.6139

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.



56.6966, 38.4519, 33.9242



51.7546, 38.4519, 17.2646



42.9582, 38.4519, 10.2154

# Triad

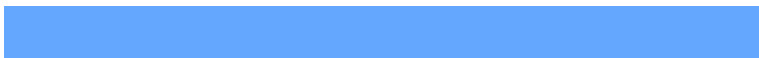
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



51.7546, 38.4519, 17.2646



22.4407, 38.4519, 26.7813



39.5988, 38.4519, 113.4276

# Complementary

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



51.7546, 38.4519, 17.2646



50.7241, 64.4338, 104.3709

# 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.



30.8084, 38.4519, 108.8692



51.7546, 38.4519, 17.2646



21.8462, 38.4519, 50.9632

# Square

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



51.7546, 38.4519, 17.2646



26.4418, 38.4519, 13.9100



24.6555, 38.4519, 82.8925



48.9466, 38.4519, 93.5628



# Rectangle

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



51.7546, 38.4519, 17.2646



36.6233, 38.4519, 9.0511



24.6555, 38.4519, 82.8925



36.4715, 38.4519, 114.8428

# Sweetspot

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



51.7555, 38.4539, 17.2653



77.7811, 75.9086, 70.9389



59.8495, 36.3062, 76.4902



16.1287, 15.5159, 14.0623



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.



51.7555, 38.4539, 17.2653



47.5657, 32.0711, 9.7121



65.8421, 66.6272, 21.9608



18.2880, 18.5442, 18.7598



22.1875, 12.3863, 1.2214



2.2306, 1.3467, 0.1424



# Inverse Universe

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



50.7241, 64.4338, 104.3709



46.3216, 59.8620, 103.7209



34.5080, 32.0017, 98.9655



18.2449, 19.8615, 23.1220



21.1515, 27.2125, 53.5723



2.1314, 2.7934, 5.2401



# Previews

## White Background



This preview shows how the XYZ color 51.7546, 38.4519, 17.2646 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 51.7546, 38.4519, 17.2646 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

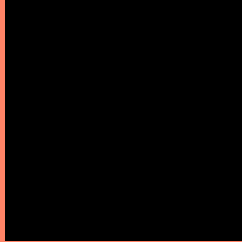
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 51.7546, 38.4519, 17.2646**

## **Background**



This preview shows how black text looks on a background with the XYZ color 51.7546, 38.4519, 17.2646.



This preview shows how white text looks on a background with the XYZ color 51.7546, 38.4519,



# 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

51.7546, 38.4519, 17.2646

### Protanopia

35.7935, 38.6017, 22.0873

### Deuteranopia

39.1844, 38.3559, 16.6474



## Tritanopia

53.4031, 38.4759, 27.9045

# Trichromacy



**Original Color**

51.7546, 38.4519, 17.2646

**Protanomaly**

40.1570, 37.5243, 20.1653

**Deuteranomaly**

43.1238, 37.9253, 16.8518

**Tritanomaly**

52.7283, 38.4157, 23.7047

# Monochromacy



**Original Color**

51.7546, 38.4519, 17.2646

**Achromatopsia**

35.7637, 37.6262, 40.9749

**Achromatomaly**

39.5624, 36.7412, 30.5978

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.7546, 38.4519, 17.2646 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, 131, 102)` looks like.

```
.text, #text, p{  
    color:rgb(255, 131, 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, 131, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 131, 102) }
```

## Border

The CSS property to change the border of an element to XYZ 51.7546, 38.4519, 17.2646 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, 131, 102) }
```



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

```
.border{ border-color:rgb(255, 131, 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, 131, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 131, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 131, 102);  
box-shadow:4px 4px 4px 4px rgb(255, 131,  
102) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.7546, 38.4519, 17.2646 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 131, 102) }
```

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

```
.background{ background-color: rgb(255,  
131, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor