

# Converting Colors

XYZ(51.6714, 39.7101, 12.8452)

Have a look what the booklet for  
XYZ(51.6714, 39.7101, 12.8452)  
contains.

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# Color

**XYZ(51.7087, 39.7605,  
12.9318)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF8952
RGB	255, 137, 82
RGB Percent	100%, 54%, 32%
CMY	0.0000, 0.4627, 0.6784
CMYK	0.00, 0.46, 0.68, 0.00
HSL	19°, 100%, 66%
HSV	19°, 68%, 100%
XYZ	51.7087, 39.7605, 12.9318
YIQ	166.0120, 87.9830, 7.9110

# Conversions

## Conversions Part 2

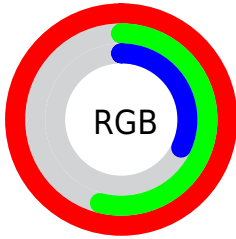
Format	Color
R <sub>Y</sub> B	255, 163, 82
Decimal	16746834
CIE Lab	69.30, 40.51, 48.76
CIE LCh	69, 63.388, 50.280
Yxy	39.7605, 0.4953, 0.3808
Android (android.graphics.Color)	4294936914 (0xFFFF8952)
YUV	166.0120, -41.4179, 78.0425
Hunter-Lab	63.0559, 36.0302, 31.9797

# Details

The XYZ color **51.7087, 39.7605, 12.9318** 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 **42.1825, 50.3194, 102.0967**, and the grayscale version is **36.4166, 38.3131, 41.7229**.

A 20% lighter version of the original color is **64.3233, 60.6527, 30.5072**, and **25.5153, 17.9443, 3.5576** is the 20% darker color. If you saturate the color by 10%, you get **48.6363, 34.8910, 7.9772**, and if you desaturate by 10%, it is **55.5418, 45.5754, 19.9182**.

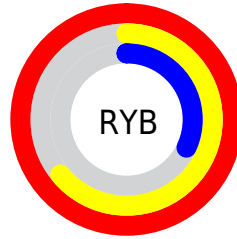
# Distribution



Red (100%)

Green (54%)

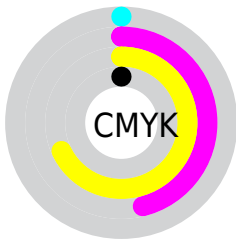
Blue (32%)



Red (100%)

Yellow (64%)

Blue (32%)

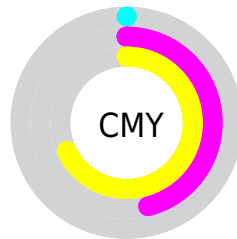


Cyan (0%)

Magenta (46%)

Yellow (68%)

Black (0%)



Cyan (0%)

Magenta (46%)

Yellow (68%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.7087, 39.7605, 12.9318 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 51.7087, 39.7605, 12.9318 by changing the saturation by 10% instead.



51.7087, 39.7605,  
12.9318

51.7087, 39.7605,  
12.9318

383.6534,  
345.1131, 221.6726

36.9963, 27.3519,  
7.2514

91.8783, 74.7987,  
31.8706

25.3783, 17.8377,  
3.5390

118.0661, 98.1970,  
45.9661

16.4893, 10.8335,  
1.3760

148.8098,  
126.0273, 63.7037

9.9641, 5.9550,  
0.1229

184.4747,  
158.6741, 85.5020

5.4373, 2.8177,  
0.0000

225.4262,  
196.5216, 111.7795

2.5434, 1.0373,  
0.0000

272.0295,

0.9172, 0.0000,

239.9544, 142.9547

0.0000

324.6502,  
289.3567, 179.4462

■ 0.0000, 0.0000,  
0.0000

■ 51.7087, 39.7605,  
12.9318

■ 51.7087, 39.7605,  
12.9318

■ 48.6363, 34.8910,  
7.9772

■ 55.5418, 45.5754,  
19.9182

■ 46.2605, 30.9056,  
4.8236

■ 60.1865, 52.3792,  
29.1289

■ 44.5052, 27.7425,  
3.1671

■ 65.6918, 60.2201,  
40.7358

■ 44.1881, 27.1565,  
2.9128

■ 72.1019, 69.1410,  
54.8935

■ 79.4576, 79.1822,  
71.7434

87.7973, 90.3820,  
91.4163

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.



59.2508, 39.7605, 26.6438



51.7087, 39.7605, 12.9318



41.1882, 39.7605, 8.2376

# Triad

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



51.7087, 39.7605, 12.9318



21.6138, 39.7605, 34.5124



44.9791, 39.7605, 119.8921

# Complementary

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



51.7087, 39.7605, 12.9318



42.1825, 50.3194, 102.0967

# 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.



34.5862, 39.7605, 125.2280



51.7087, 39.7605, 12.9318



22.2617, 39.7605, 65.7385

# Square

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



51.7087, 39.7605, 12.9318



24.6621, 39.7605, 16.4681



26.6260, 39.7605, 102.2031



54.9077, 39.7605, 89.8230



# Rectangle

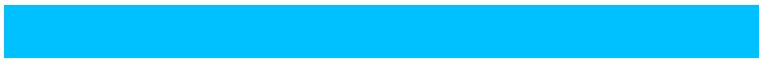
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



51.7087, 39.7605, 12.9318



34.4091, 39.7605, 8.2691



26.6260, 39.7605, 102.2031



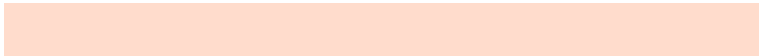
41.3879, 39.7605, 125.0352

# Sweetspot

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



51.7096, 39.7626, 12.9325



77.7890, 76.9194, 67.8738



54.7079, 31.4750, 57.9684



16.1992, 15.8500, 13.4904



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.



51.7096, 39.7626, 12.9325



47.8142, 33.5398, 6.7990



69.2263, 74.7960, 18.7714



18.4807, 18.9296, 18.8241



23.2074, 14.4260, 1.5613

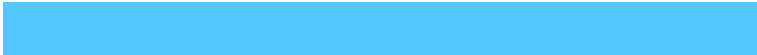


2.3531, 1.5915, 0.1832



# Inverse Universe

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



42.1825, 50.3194, 102.0967



37.5580, 44.3949, 101.1973



27.5153, 20.9849, 97.2076



18.0393, 19.4501, 23.0534



17.4729, 19.8553, 52.3461



1.7998, 2.1302, 5.1296



# Previews

## White Background



This preview shows how the XYZ color 51.7087, 39.7605, 12.9318 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 51.7087, 39.7605, 12.9318 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 51.7087, 39.7605, 12.9318**

## **Background**



This preview shows how black text looks on a background with the XYZ color 51.7087, 39.7605, 12.9318.



This preview shows how white text looks on a background with the XYZ color 51.7087, 39.7605,



# 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

51.7087, 39.7605, 12.9318

### Protanopia

36.8440, 40.1046, 16.1550

### Deuteranopia

40.6277, 39.7132, 12.3616



## Tritanopia

54.2990, 39.6856, 29.9975

# Trichromacy



## Original Color

51.7087, 39.7605, 12.9318

## Protanomaly

41.1814, 39.1720, 14.8417

## Deuteranomaly

43.9674, 39.1753, 12.4520

## Tritanomaly

53.1553, 39.6663, 22.6241

# Monochromacy



## Original Color

51.7087, 39.7605, 12.9318

## Achromatopsia

36.2450, 38.1326, 41.5264

## Achromatomaly

39.3832, 37.1977, 28.0258

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.7087, 39.7605, 12.9318 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, 137, 82)` looks like.

```
.text, #text, p{  
    color:rgb(255, 137, 82)  
}
```

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, 137, 82) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 137, 82) }
```

## Border

The CSS property to change the border of an element to XYZ 51.7087, 39.7605, 12.9318 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, 137, 82) }
```



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

```
.border{ border-color:rgb(255, 137, 82) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 137, 82)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 137, 82); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 137, 82);  
box-shadow:4px 4px 4px 4px rgb(255, 137,  
82) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.7087, 39.7605, 12.9318 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 137, 82) }
```

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

```
.background{ background-color: rgb(255,  
137, 82) }
```

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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