

# Converting Colors

XYZ(45.4243, 33.8506, 15.8974)

Have a look what the booklet for  
XYZ(45.4243, 33.8506, 15.8974)  
contains.

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# Color

**XYZ(45.3950, 33.8414,  
15.9439)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F07C63
RGB	240, 124, 99
RGB Percent	94%, 49%, 39%
CMY	0.0588, 0.5137, 0.6118
CMYK	0.00, 0.48, 0.59, 0.06
HSL	11°, 82%, 66%
HSV	11°, 59%, 94%
XYZ	45.3950, 33.8414, 15.9439
YIQ	155.8340, 77.1610, 16.8170

# Conversions

## Conversions Part 2

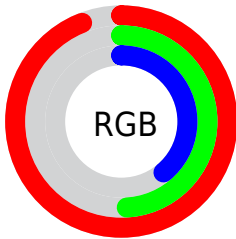
Format	Color
R <sub>Y</sub> B	240, 129, 99
Decimal	15760483
CIE Lab	64.84, 42.40, 33.96
CIE LCh	65, 54.323, 38.689
Yxy	33.8414, 0.4769, 0.3556
Android (android.graphics.Color)	4293950563 (0xFFFF07C63)
YUV	155.8340, -28.0192, 73.8136
Hunter-Lab	58.1734, 37.4873, 24.4714

# Details

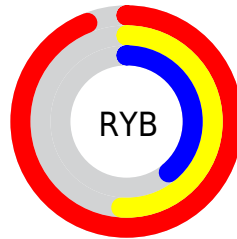
The XYZ color **45.3950, 33.8414, 15.9439** is a light color, and the websafe version is hex **FF9966**. A complement of this color would be **45.1727, 57.5417, 91.1636**, and the grayscale version is **31.6237, 33.2706, 36.2317**.

A 20% lighter version of the original color is **62.6654, 55.3028, 36.2258**, and **21.5276, 14.4664, 4.9065** is the 20% darker color. If you saturate the color by 10%, you get **42.1820, 28.9870, 10.0287**, and if you desaturate by 10%, it is **49.4459, 39.8264, 23.8205**.

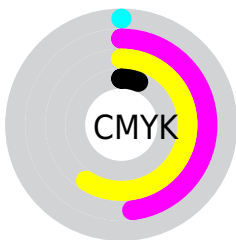
# Distribution



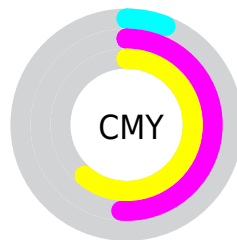
- Red (94%)
- Green (49%)
- Blue (39%)



- Red (94%)
- Yellow (51%)
- Blue (39%)



- Cyan (0%)
- Magenta (48%)
- Yellow (59%)
- Black (6%)




- Cyan (6%)
- Magenta (51%)
- Yellow (61%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.3950, 33.8414, 15.9439 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 45.3950, 33.8414, 15.9439 by changing the saturation by 10% instead.





 45.3950, 33.8414,  
15.9439


 45.3950, 33.8414,  
15.9439

359.1278,  
319.4243, 240.8449

 31.9713, 22.7718,  
9.3305


 82.5463, 65.6870,  
37.2662


 21.4950, 14.4251,  
4.8577


 107.0045, 87.2317,  
52.8123

 13.6008, 8.4169,  
2.1067


 135.8716,  
113.0369, 72.1729

 7.9234, 4.3629,  
0.6198

 169.5130,  
143.4870, 95.7668

 4.0974, 1.8785,  
0.0000

208.2939,  
178.9664, 124.0124

 1.7574, 0.5354,  
0.0000

252.5798,

 0.4918, 0.0000,

219.8595, 157.3282

0.0000

302.7360,  
266.5507, 196.1329

■ 0.0000, 0.0000,  
0.0000

■ 45.3950, 33.8414,  
15.9439

■ 45.3950, 33.8414,  
15.9439

■ 42.1820, 28.9870,  
10.0287

■ 49.4459, 39.8264,  
23.8205

■ 39.7435, 25.1859,  
5.8988

■ 54.3868, 47.0021,  
33.8101

■ 38.0104, 22.3593,  
3.3494

■ 60.2685, 55.4308,  
46.0514

■ 36.8911, 20.4111,  
2.0815

■ 67.1371, 65.1686,  
60.6708

■ 36.7831, 20.2214,  
1.9644

■ 75.0357, 76.2684,  
77.7852

■ 84.0048, 88.7801,  
97.5037

■ 89.7451, 97.2652,  
108.6517

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



49.4465, 33.8414, 30.7142



45.3950, 33.8414, 15.9439



37.9484, 33.8414, 9.5191

# Triad

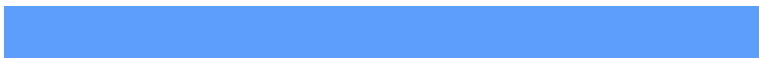
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



45.3950, 33.8414, 15.9439



20.0868, 33.8414, 23.3023



34.4920, 33.8414, 97.9562

# Complementary

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



45.3950, 33.8414, 15.9439



45.1727, 57.5417, 91.1636

# 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.



27.0017, 33.8414, 93.3264



45.3950, 33.8414, 15.9439



19.4679, 33.8414, 43.7474

# Square

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



45.3950, 33.8414, 15.9439



23.6479, 33.8414, 12.4109



21.7935, 33.8414, 70.8748



42.5156, 33.8414, 81.7470



# Rectangle

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



45.3950, 33.8414, 15.9439



32.5106, 33.8414, 8.3776



21.7935, 33.8414, 70.8748



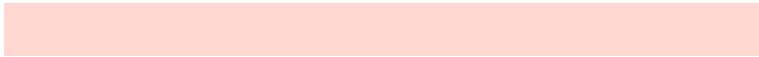
31.8223, 33.8414, 98.8865

# Sweetspot

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



45.3958, 33.8432, 15.9445



77.6358, 75.6181, 70.8904



52.8564, 32.4329, 68.7795



16.0939, 15.4463, 14.0507



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.



45.3958, 33.8432, 15.9445



47.9411, 32.5470, 10.6844



57.2573, 57.5661, 19.8983



15.9994, 16.2120, 16.4357



20.2032, 11.2045, 1.0979



1.7445, 1.0596, 0.1126



# Inverse Universe

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



45.1727, 57.5417, 91.1636



47.5499, 61.7361, 104.0179



31.1529, 29.5020, 86.4903



15.9950, 17.4242, 20.2418



19.6827, 25.5897, 49.0298



1.6992, 2.2523, 4.0994



# Previews

## White Background



This preview shows how the XYZ color 45.3950, 33.8414, 15.9439 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

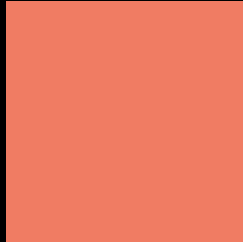
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.3950, 33.8414, 15.9439 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 45.3950, 33.8414, 15.9439**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.3950, 33.8414, 15.9439.



This preview shows how white text looks on a background with the XYZ color 45.3950, 33.8414,



# 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

45.3950, 33.8414, 15.9439

### Protanopia

31.7851, 34.1920, 20.5473

### Deuteranopia

34.5728, 34.0177, 15.3336



## Tritanopia

47.2307, 33.8687, 24.4701

# Trichromacy



## Original Color

45.3950, 33.8414, 15.9439

## Protanomaly

35.4913, 33.2426, 18.7332

## Deuteranomaly

37.9307, 33.4496, 15.5236

## Tritanomaly

46.3239, 33.6599, 20.8851

# Monochromacy



## Original Color

45.3950, 33.8414, 15.9439

## Achromatopsia

31.5995, 33.2452, 36.2040

## Achromatomaly

34.8399, 32.2606, 27.3123

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.3950, 33.8414, 15.9439 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(240, 124, 99)` looks like.

```
.text, #text, p{  
    color:rgb(240, 124, 99)  
}
```

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(240, 124, 99) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(240, 124, 99) }
```

## Border

The CSS property to change the border of an element to XYZ 45.3950, 33.8414, 15.9439 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(240, 124, 99) }
```



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

```
.border{ border-color:rgb(240, 124, 99) }
```

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

Here you see how a box with a 4 pixel `rgb(240, 124, 99)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(240, 124, 99); -webkit-box-  
shadow:4px 4px 4px 4px rgb(240, 124, 99);  
box-shadow:4px 4px 4px 4px rgb(240, 124,  
99) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.3950, 33.8414, 15.9439 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(240, 124, 99) }
```

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

```
.background{ background-color: rgb(240,  
124, 99) }
```

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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