

# Converting Colors

XYZ(45.7636, 30.3894, 12.9891)

Have a look what the booklet for  
XYZ(45.7636, 30.3894, 12.9891)  
contains.

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# Color

**XYZ(45.6215, 30.3637,  
12.9075)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F96659
RGB	249, 102, 89
RGB Percent	98%, 40%, 35%
CMY	0.0235, 0.6000, 0.6510
CMYK	0.00, 0.59, 0.64, 0.02
HSL	5°, 93%, 66%
HSV	5°, 64%, 98%
XYZ	45.6215, 30.3637, 12.9075
YIQ	144.4710, 91.7850, 27.1210

# Conversions

## Conversions Part 2

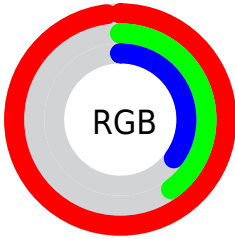
Format	Color
R <sub>Y</sub> B	249, 103, 89
Decimal	16344665
CIE Lab	61.97, 55.42, 36.18
CIE LCh	62, 66.183, 33.136
Yxy	30.3637, 0.5132, 0.3416
Android (android.graphics.Color)	4294534745 (0xFFFF96659)
YUV	144.4710, -27.3472, 91.6719
Hunter-Lab	55.1033, 51.3543, 24.6841

# Details

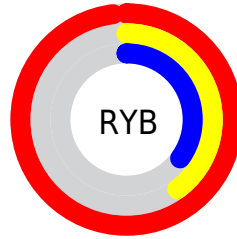
The XYZ color **45.6215, 30.3637, 12.9075** is a dark color, and the websafe version is hex **FF6666**. The color can be described as middle muted orange. A complement of this color would be **51.2119, 68.9498, 100.2317**, and the grayscale version is **26.7815, 28.1762, 30.6839**.

A 20% lighter version of the original color is **58.1271, 47.5778, 30.5459**, and **21.6241, 12.4903, 3.5566** is the 20% darker color. If you saturate the color by 10%, you get **42.8007, 26.1222, 7.6518**, and if you desaturate by 10%, it is **49.4174, 35.9903, 20.2323**.

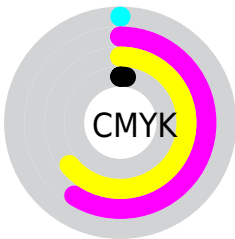
# Distribution



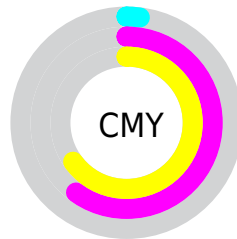
- Red (98%)
- Green (40%)
- Blue (35%)



- Red (98%)
- Yellow (40%)
- Blue (35%)



- Cyan (0%)
- Magenta (59%)
- Yellow (64%)
- Black (2%)




- Cyan (2%)
- Magenta (60%)
- Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.6215, 30.3637, 12.9075 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 45.6215, 30.3637, 12.9075 by changing the saturation by 10% instead.





 45.6215, 30.3637,  
12.9075


 45.6215, 30.3637,  
12.9075


360.0264,  
303.5961, 221.5110


 32.1506, 20.1148,  
7.2349


 82.8836, 60.2369,  
31.8263


 21.6327, 12.4785,  
3.5288


 107.4055, 80.6299,  
45.9095


 13.7023, 7.0705,  
1.3706


 136.3418,  
105.1732, 63.6333

 7.9942, 3.5062,  
0.1186


 170.0578,  
134.2510, 85.4164

 4.1430, 1.4014,  
0.0000

 208.9189,  
168.2479, 111.6771

 1.7834, 0.2177,  
0.0000

253.2905,

 0.5076, 0.0000,

207.5480, 142.8341

0.0000

303.5378,  
252.5360, 179.3059

■ 0.0000, 0.0000,  
0.0000

■ 45.6215, 30.3637,  
12.9075

■ 45.6215, 30.3637,  
12.9075

■ 42.8007, 26.1222,  
7.6518

■ 49.4174, 35.9903,  
20.2323

■ 40.8630, 23.1408,  
4.2499

■ 54.2647, 43.1025,  
29.8095


■ 39.7026, 21.2812,  
2.4414

■ 60.2348, 51.7976,  
41.8038

■ 39.3212, 20.6486,  
1.9131

■ 67.3920, 62.1629,  
56.3640

■ 75.7958, 74.2795,  
73.6272

 85.5018, 88.2232,  
93.7204

 92.8768, 98.8797,  
108.7983

# Harmonies

## Analogous

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



49.4521, 30.3637, 30.4609



45.6215, 30.3637, 12.9075



37.2705, 30.3637, 5.8307

# Triad

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



45.6215, 30.3637, 12.9075



16.1650, 30.3637, 15.5402



29.8026, 30.3637, 109.7170

# Complementary

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



45.6215, 30.3637, 12.9075



51.2119, 68.9498, 100.2317

# 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.



21.8204, 30.3637, 98.5563



45.6215, 30.3637, 12.9075



14.9631, 30.3637, 35.8048

# Square

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



45.6215, 30.3637, 12.9075



20.5068, 30.3637, 6.7118



16.8071, 30.3637, 67.5817



39.2194, 30.3637, 93.1261



# Rectangle

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



45.6215, 30.3637, 12.9075



30.9459, 30.3637, 4.4163



16.8071, 30.3637, 67.5817



26.8696, 30.3637, 109.1021

# Sweetspot

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



45.6222, 30.3654, 12.9080



75.6150, 72.0780, 68.6705



58.1208, 33.4773, 84.5441



15.6509, 14.6576, 13.6030



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.



45.6222, 30.3654, 12.9080



44.5103, 26.5519, 6.8693



57.1241, 53.3691, 16.7420



17.3580, 17.4518, 17.9161



21.0876, 11.1318, 1.0372



1.9908, 1.1065, 0.1086



# Inverse Universe

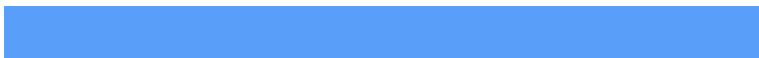
The Inverse Universe completely reimagines the original color for something new.



51.2119, 68.9498, 100.2317



50.7104, 69.8939, 105.4259



33.5026, 33.5312, 94.3286



17.6380, 19.3529, 22.1911



24.1653, 33.6862, 53.2020



2.2728, 3.1892, 4.9390



# Previews

## White Background



This preview shows how the XYZ color 45.6215, 30.3637, 12.9075 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

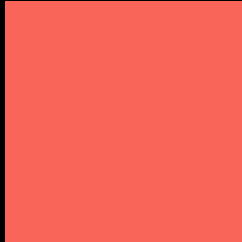
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.6215, 30.3637, 12.9075 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 45.6215, 30.3637, 12.9075**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.6215, 30.3637, 12.9075.



This preview shows how white text looks on a background with the XYZ color 45.6215, 30.3637,



# 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

45.6215, 30.3637, 12.9075

### Protanopia

28.5134, 30.5768, 18.5864

### Deuteranopia

31.1126, 30.4445, 12.2192



## Tritanopia

46.5830, 30.4789, 17.0635

# Trichromacy



## Original Color

45.6215, 30.3637, 12.9075

## Protanomaly

32.9846, 29.1840, 16.2065

## Deuteranomaly

35.3713, 29.5041, 12.4249

## Tritanomaly

46.3783, 30.5515, 15.5092

# Monochromacy



## Original Color

45.6215, 30.3637, 12.9075

## Achromatopsia

26.5089, 27.8894, 30.3716

## Achromatomaly

30.7798, 27.1008, 22.6775

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.6215, 30.3637, 12.9075 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(249, 102, 89)` looks like.

```
.text, #text, p{  
    color:rgb(249, 102, 89)  
}
```

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(249, 102, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(249, 102, 89) }
```

## Border

The CSS property to change the border of an element to XYZ 45.6215, 30.3637, 12.9075 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(249, 102, 89) }
```



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

```
.border{ border-color:rgb(249, 102, 89) }
```

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

Here you see how a box with a 4 pixel `rgb(249, 102, 89)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(249, 102, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(249, 102, 89);  
box-shadow:4px 4px 4px 4px rgb(249, 102,  
89) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.6215, 30.3637, 12.9075 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(249, 102, 89) }
```

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

```
.background{ background-color: rgb(249,  
102, 89) }
```

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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