

# Converting Colors

XYZ(46.1169, 33.4660, 13.0432)

Have a look what the booklet for  
XYZ(46.1169, 33.4660, 13.0432)  
contains.

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# Color

**XYZ(46.0930, 33.5335,  
13.0601)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F57857
RGB	245, 120, 87
RGB Percent	96%, 47%, 34%
CMY	0.0392, 0.5294, 0.6588
CMYK	0.00, 0.51, 0.64, 0.04
HSL	13°, 89%, 65%
HSV	13°, 64%, 96%
XYZ	46.0930, 33.5335, 13.0601
YIQ	153.6130, 85.0930, 16.2370

# Conversions

## Conversions Part 2

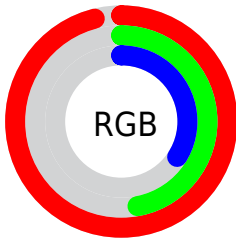
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	245, 129, 87
Decimal	16087127
CIE Lab	64.59, 45.45, 40.32
CIE LCh	65, 60.757, 41.571
Yxy	33.5335, 0.4973, 0.3618
Android (android.graphics.Color)	4294277207 (0xFFFF57857)
YUV	153.6130, -32.8402, 80.1464
Hunter-Lab	57.9081, 40.7411, 27.1639

# Details

The XYZ color **46.0930, 33.5335, 13.0601** is a light color, and the websafe version is hex **CC6633**. The color can be described as light muted orange. A complement of this color would be **43.9538, 55.7025, 94.8209**, and the grayscale version is **30.6597, 32.2564, 35.1272**.

A 20% lighter version of the original color is **61.1574, 53.7549, 31.1971**, and **21.9186, 14.2348, 3.5998** is the 20% darker color. If you saturate the color by 10%, you get **43.1568, 29.0006, 7.9530**, and if you desaturate by 10%, it is **49.8421, 39.1494, 20.1137**.

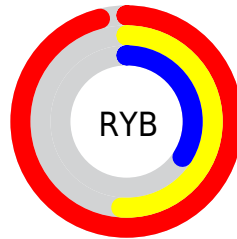
# Distribution



Red (96%)

Green (47%)

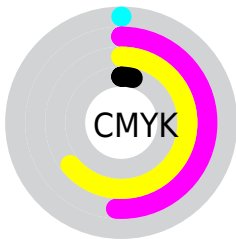
Blue (34%)



Red (96%)

Yellow (51%)

Blue (34%)

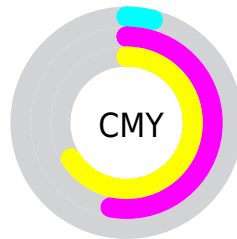


Cyan (0%)

Magenta (51%)

Yellow (64%)

Black (4%)



Cyan (4%)

Magenta (53%)


Yellow (66%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.0930, 33.5335, 13.0601 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 46.0930, 33.5335, 13.0601 by changing the saturation by 10% instead.





 46.0930, 33.5335,  
13.0601


 46.0930, 33.5335,  
13.0601


361.8921,  
318.0469, 222.5238

 32.5241, 22.5355,  
7.3387


 83.5852, 65.2076,  
32.1045


 21.9196, 14.2509,  
3.5932


 108.2392, 86.6524,  
46.2646


 13.9141, 8.2954,  
1.4049


 137.3190,  
112.3482, 64.0747

 8.1423, 4.2845,  
0.1456

 171.1900,  
142.6795, 85.9533

 4.2387, 1.8340,  
0.0000

 210.2174,  
178.0306, 112.3190

 1.8380, 0.5082,  
0.0000

254.7666,

 0.5404, 0.0000,

218.7860, 143.5902

0.0000

305.2031,  
265.3299, 180.1857

■ 0.0000, 0.0000,  
0.0000

■ 46.0930, 33.5335,  
13.0601

■ 46.0930, 33.5335,  
13.0601

■ 43.1568, 29.0006,  
7.9530

■ 49.8421, 39.1494,  
20.1137

■ 40.9665, 25.4735,  
4.5916

■ 54.4589, 45.9077,  
29.2838


■ 39.4471, 22.8730,  
2.7338


■ 59.9961, 53.8698,  
40.7239

■ 38.8478, 21.7959,  
2.1595

■ 66.5011, 63.0912,  
54.5725

■ 74.0183, 73.6236,  
70.9571

 82.5890, 85.5161,  
89.9961

 91.4660, 98.1524,  
108.7323

# Harmonies

## Analogous

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



51.2245, 33.5335, 27.7230



46.0930, 33.5335, 13.0601



37.4572, 33.5335, 7.3159

# Triad

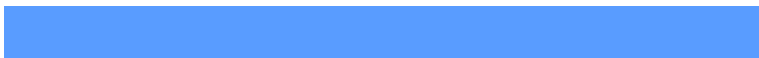
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



46.0930, 33.5335, 13.0601



18.4934, 33.5335, 23.3675



35.3462, 33.5335, 106.4062

# Complementary

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



46.0930, 33.5335, 13.0601



43.9538, 55.7025, 94.8209

# 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.



26.8726, 33.5335, 103.4094



46.0930, 33.5335, 13.0601



18.1355, 33.5335, 46.9868

# Square

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



46.0930, 33.5335, 13.0601



22.0135, 33.5335, 11.1232



20.9266, 33.5335, 78.4071



44.3076, 33.5335, 85.3454



# Rectangle

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



46.0930, 33.5335, 13.0601



31.4162, 33.5335, 6.5123



20.9266, 33.5335, 78.4071



32.3333, 33.5335, 108.3675

# Sweetspot

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



46.0938, 33.5353, 13.0607



77.1757, 75.1994, 69.1908



53.1254, 31.0535, 66.4112



16.0206, 15.3970, 13.7262



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.



46.0938, 33.5353, 13.0607



46.5458, 30.6229, 7.5478



59.4792, 60.3061, 17.5225



16.7796, 17.0433, 17.2029



21.0080, 11.9015, 1.1900



1.9175, 1.1882, 0.1283



# Inverse Universe

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



43.9538, 55.7025, 94.8209



43.8750, 56.2232, 103.1475



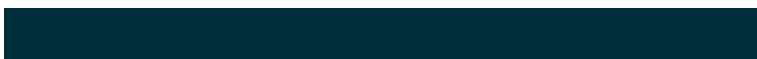
28.9926, 25.7801, 89.8338



16.6856, 18.1356, 21.1637



19.3535, 24.5008, 50.2471



1.7730, 2.2974, 4.4402



# Previews

## White Background



This preview shows how the XYZ color 46.0930, 33.5335, 13.0601 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 46.0930, 33.5335, 13.0601 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 46.0930, 33.5335, 13.0601**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.0930, 33.5335, 13.0601.



This preview shows how white text looks on a background with the XYZ color 46.0930, 33.5335,



# 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

46.0930, 33.5335, 13.0601

### Protanopia

31.2005, 33.7115, 17.1744

### Deuteranopia

34.3839, 33.7442, 12.4856



## Tritanopia

48.0637, 33.4657, 22.6652

# Trichromacy



## Original Color

46.0930, 33.5335, 13.0601

## Protanomaly

35.3733, 32.7968, 15.5324

## Deuteranomaly

37.9453, 33.0868, 12.5701

## Tritanomaly

47.1818, 33.4412, 18.7199

# Monochromacy



## Original Color

46.0930, 33.5335, 13.0601

## Achromatopsia

30.7148, 32.3143, 35.1903

## Achromatomaly

34.1958, 31.5225, 25.4012

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.0930, 33.5335, 13.0601 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(245, 120, 87)` looks like.

```
.text, #text, p{  
    color:rgb(245, 120, 87)  
}
```

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(245, 120, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 120, 87) }
```

## Border

The CSS property to change the border of an element to XYZ 46.0930, 33.5335, 13.0601 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(245, 120, 87) }
```



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

```
.border{ border-color:rgb(245, 120, 87) }
```

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

Here you see how a box with a 4 pixel rgb(245, 120, 87) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 120, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 120, 87);  
box-shadow:4px 4px 4px 4px rgb(245, 120,  
87) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.0930, 33.5335, 13.0601 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 120, 87) }
```

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

```
.background{ background-color: rgb(245,  
120, 87) }
```

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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