

# Converting Colors

XYZ(45.3342, 38.3714, 13.8361)

Have a look what the booklet for  
XYZ(45.3342, 38.3714, 13.8361)  
contains.

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# Color

**XYZ(45.2373, 38.3855,  
13.8290)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E89256
RGB	232, 146, 86
RGB Percent	91%, 57%, 34%
CMY	0.0902, 0.4274, 0.6627
CMYK	0.00, 0.37, 0.63, 0.09
HSL	25°, 76%, 62%
HSV	25°, 63%, 91%
XYZ	45.2373, 38.3855, 13.8290
YIQ	164.8740, 70.5160, -0.4280

# Conversions

## Conversions Part 2

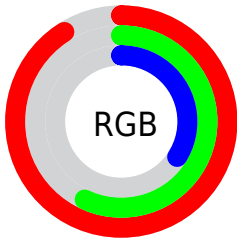
Format	Color
R <sub>Y</sub> B	232, 188, 86
Decimal	15241814
CIE Lab	68.30, 27.00, 44.82
CIE LCh	68, 52.325, 58.931
Yxy	38.3855, 0.4642, 0.3939
Android (android.graphics.Color)	4293431894 (0xFFE89256)
YUV	164.8740, -38.8849, 58.8695
Hunter-Lab	61.9560, 21.9090, 30.1353

# Details

The XYZ color **45.2373, 38.3855, 13.8290** 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 **33.1548, 37.3076, 81.7970**, and the grayscale version is **35.8616, 37.7292, 41.0871**.

A 20% lighter version of the original color is **66.4096, 64.3747, 32.5923**, and **21.4394, 17.0886, 3.9187** is the 20% darker color. If you saturate the color by 10%, you get **42.4679, 34.1078, 9.0188**, and if you desaturate by 10%, it is **48.5636, 43.2920, 20.3217**.

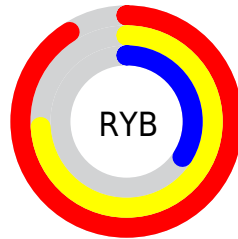
# Distribution



Red (91%)

Green (57%)

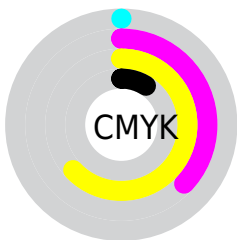
Blue (34%)



Red (91%)

Yellow (74%)

Blue (34%)

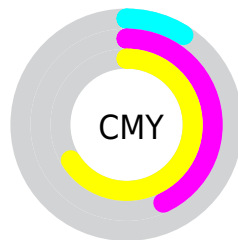


Cyan (0%)

Magenta (37%)

Yellow (63%)

Black (9%)



Cyan (9%)

Magenta (43%)


Yellow (66%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.2373, 38.3855, 13.8290 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 45.2373, 38.3855, 13.8290 by changing the saturation by 10% instead.





 45.2373, 38.3855,  
13.8290


 45.2373, 38.3855,  
13.8290


358.5013,  
339.2708, 227.5557

 31.8465, 26.2820,  
7.8644


 82.3113, 72.6986,  
33.4981

 21.3992, 17.0347,  
3.9218


 106.7251, 95.6771,  
48.0396


 13.5303, 10.2593,  
1.5825


 135.5440,  
123.0493, 66.2773

 7.8742, 5.5712,  
0.2783

 169.1332,  
155.1997, 88.6296

 4.0657, 2.5861,  
0.0000

 207.8582,  
192.5126, 115.5150

 1.7394, 0.9197,  
0.0000

252.0844,

 0.4807, 0.0000,

235.3725, 147.3522

0.0000

302.1769,  
284.1638, 184.5596

■ 0.0000, 0.0000,  
0.0000

■ 45.2373, 38.3855,  
13.8290

■ 45.2373, 38.3855,  
13.8290

■ 42.4679, 34.1078,  
9.0188

■ 48.5636, 43.2920,  
20.3217

■ 40.2132, 30.4231,  
5.7250

■ 52.4790, 48.8489,  
28.6371

■ 38.4279, 27.3000,  
3.7502

■ 57.0161, 55.0836,  
38.9031

■ 37.4024, 25.4036,  
2.9321

■ 62.2039, 62.0200,  
51.2353

■ 68.0697, 69.6807,  
65.7402

■ 74.6387, 78.0872,  
82.5168

■ 81.9352, 87.2601,  
101.6583

■ 87.0885, 95.8957,  
108.5274

# Harmonies

## Analogous

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



52.0895, 38.3855, 23.5416



45.2373, 38.3855, 13.8290



36.7791, 38.3855, 10.9601

# Triad

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



45.2373, 38.3855, 13.8290



22.8861, 38.3855, 40.9588



44.6521, 38.3855, 95.0534

# Complementary

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



45.2373, 38.3855, 13.8290



33.1548, 37.3076, 81.7970

# 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.



36.1910, 38.3855, 105.1172



45.2373, 38.3855, 13.8290



24.3558, 38.3855, 67.6542

# Square

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



45.2373, 38.3855, 13.8290



24.5811, 38.3855, 22.5607



28.9401, 38.3855, 93.6045



51.7176, 38.3855, 69.6850



# Rectangle

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



45.2373, 38.3855, 13.8290



31.6062, 38.3855, 11.9877



28.9401, 38.3855, 93.6045



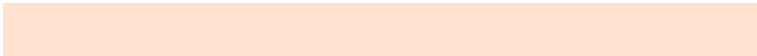
41.8401, 38.3855, 100.6803

# Sweetspot

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



45.2382, 38.3875, 13.8297



79.7699, 80.3878, 70.0555



44.2075, 26.8520, 42.6934



16.6405, 16.6367, 13.9328



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.



45.2382, 38.3875, 13.8297



51.5907, 40.6051, 9.5616



59.8742, 67.6595, 18.7084



14.8610, 15.3360, 15.0813



20.8815, 14.3372, 1.6668



1.6327, 1.2387, 0.1530



# Inverse Universe

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



33.1548, 37.3076, 81.7970



35.3847, 39.0142, 100.2733



23.0184, 17.0349, 78.4183



14.2848, 15.2911, 18.3429



13.1517, 13.3655, 44.2698

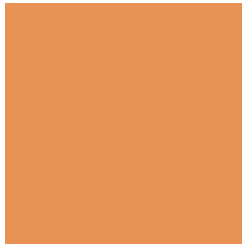


1.0628, 1.1695, 3.3017



# Previews

## White Background



This preview shows how the XYZ color 45.2373, 38.3855, 13.8290 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 45.2373, 38.3855, 13.8290 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

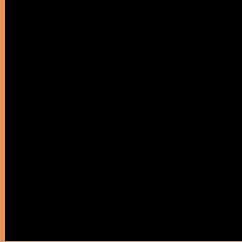
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 45.2373, 38.3855, 13.8290**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.2373, 38.3855, 13.8290.



This preview shows how white text looks on a background with the XYZ color 45.2373, 38.3855,



# 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

45.2373, 38.3855, 13.8290

### Protanopia

35.3229, 38.4950, 15.9245

### Deuteranopia

39.1363, 38.3999, 13.5328



## Tritanopia

49.2495, 38.4680, 33.2631

# Trichromacy



**Original Color**

45.2373, 38.3855, 13.8290

**Protanomaly**

38.3310, 37.9520, 14.9781

**Deuteranomaly**

41.1802, 38.1984, 13.5901

**Tritanomaly**

47.6998, 38.5145, 24.6587

# Monochromacy



**Original Color**

45.2373, 38.3855, 13.8290

**Achromatopsia**

35.7637, 37.6262, 40.9749

**Achromatomaly**

37.6571, 37.0501, 28.4592

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.2373, 38.3855, 13.8290 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(232, 146, 86)` looks like.

```
.text, #text, p{  
    color:rgb(232, 146, 86)  
}
```

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(232, 146, 86) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 146, 86) }
```

## Border

The CSS property to change the border of an element to XYZ 45.2373, 38.3855, 13.8290 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(232, 146, 86) }
```



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

```
.border{ border-color:rgb(232, 146, 86) }
```

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

Here you see how a box with a 4 pixel rgb(232, 146, 86) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 146, 86); -webkit-box-  
shadow:4px 4px 4px 4px rgb(232, 146, 86);  
box-shadow:4px 4px 4px 4px rgb(232, 146,  
86) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.2373, 38.3855, 13.8290 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 146, 86) }
```

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

```
.background{ background-color: rgb(232,  
146, 86) }
```

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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