

# Converting Colors

XYZ(46.7040, 38.1302, 14.4494)

Have a look what the booklet for  
XYZ(46.7040, 38.1302, 14.4494)  
contains.

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# Color

**XYZ(46.7361, 38.2444,  
14.3698)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EE8E59
RGB	238, 142, 89
RGB Percent	93%, 56%, 35%
CMY	0.0667, 0.4431, 0.6510
CMYK	0.00, 0.40, 0.63, 0.07
HSL	21°, 81%, 64%
HSV	21°, 63%, 93%
XYZ	46.7361, 38.2444, 14.3698
YIQ	164.6620, 74.2290, 3.8690

# Conversions

## Conversions Part 2

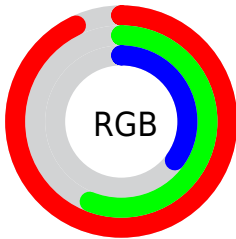
Format	Color
RYB	238, 171, 89
Decimal	15634009
CIELab	68.20, 31.71, 43.35
CIELCh	68, 53.709, 53.810
Yxy	38.2444, 0.4704, 0.3849
Android (android.graphics.Color)	4293824089 (0xFFEE8E59)
YUV	164.6620, -37.3014, 64.3174
Hunter-Lab	61.8421, 26.6748, 29.5126

# Details

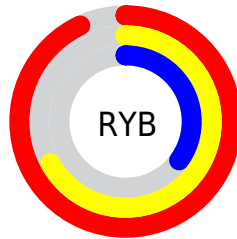
The XYZ color **46.7361, 38.2444, 14.3698** is a light color, and the websafe version is hex **FF9966**. The color can be described as light muted orange. A complement of this color would be **36.9003, 42.9925, 87.2421**, and the grayscale version is **35.7513, 37.6131, 40.9607**.

A 20% lighter version of the original color is **65.7136, 62.6333, 33.4369**, and **22.2728, 16.9894, 4.2032** is the 20% darker color. If you saturate the color by 10%, you get **43.7670, 33.6556, 9.2211**, and if you desaturate by 10%, it is **50.3438, 43.5940, 21.3253**.

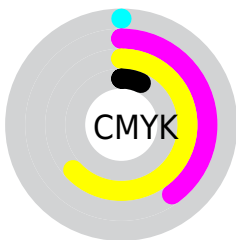
# Distribution



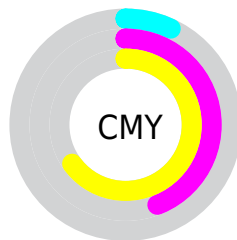
- Red (93%)
- Green (56%)
- Blue (35%)



- Red (93%)
- Yellow (67%)
- Blue (35%)



- Cyan (0%)
- Magenta (40%)
- Yellow (63%)
- Black (7%)




- Cyan (7%)
- Magenta (44%)
- Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.7361, 38.2444, 14.3698 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 46.7361, 38.2444, 14.3698 by changing the saturation by 10% instead.





 46.7361, 38.2444,  
14.3698


 46.7361, 38.2444,  
14.3698


364.4267,  
338.6672, 231.0273

 33.0342, 26.1724,  
8.2366

 84.5407, 72.4826,  
34.4703


 22.3120, 16.9527,  
4.1568


 109.3741, 95.4176,  
49.2747

 14.2042, 10.2008,  
1.7118


 138.6486,  
122.7424, 67.8066

 8.3455, 5.5323,  
0.3688

 172.7297,  
154.8414, 90.4845

 4.3705, 2.5628,  
0.0000

211.9827,  
192.0990, 117.7270

 1.9138, 0.9080,  
0.0000

256.7730,

 0.5848, 0.0000,

234.8995, 149.9526

0.0000

307.4659,  
283.6275, 187.5798

■ 0.0000, 0.0000,  
0.0000

■ 46.7361, 38.2444,  
14.3698

■ 46.7361, 38.2444,  
14.3698

■ 43.7670, 33.6556,  
9.2211

■ 50.3438, 43.5940,  
21.3253

■ 41.3887, 29.7833,  
5.7021

■ 54.6276, 49.7338,  
30.2377

■ 39.5492, 26.5865,  
3.6026

■ 59.6247, 56.6984,  
41.2434

■ 38.4821, 24.6218,  
2.7242

■ 65.3689, 64.5187,  
54.4662

■ 71.8914, 73.2238,  
70.0199

■ 79.2216, 82.8412,  
88.0105

■ 87.2905, 93.3585,  
108.0270

■ 89.0698, 96.9171,  
108.6201

# Harmonies

## Analogous

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



53.2040, 38.2444, 25.6313



46.7361, 38.2444, 14.3698



38.1183, 38.2444, 10.5213

# Triad

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



46.7361, 38.2444, 14.3698



22.5509, 38.2444, 36.8541



43.2621, 38.2444, 99.8536

# Complementary

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



46.7361, 38.2444, 14.3698



36.9003, 42.9925, 87.2421

# 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.



34.6376, 38.2444, 106.5628



46.7361, 38.2444, 14.3698



23.4944, 38.2444, 63.2254

# Square

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



46.7361, 38.2444, 14.3698



24.8194, 38.2444, 19.8788



27.6295, 38.2444, 91.1886



50.9920, 38.2444, 75.3279



# Rectangle

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



46.7361, 38.2444, 14.3698



32.6325, 38.2444, 10.9533



27.6295, 38.2444, 91.1886



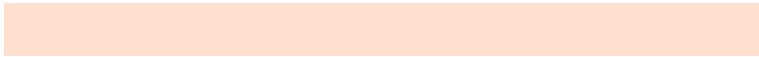
40.3399, 38.2444, 104.5800

# Sweetspot

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



46.7370, 38.2464, 14.3705



79.0457, 78.9393, 69.8141



47.6793, 28.8609, 49.4287



16.4668, 16.2893, 13.8749



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.



46.7370, 38.2464, 14.3705



50.3806, 38.0719, 9.5065



61.5293, 67.8309, 19.3013



16.2329, 16.6789, 16.5135



21.5799, 13.9578, 1.5567



1.8859, 1.3424, 0.1597



# Inverse Universe

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



36.9003, 42.9925, 87.2421



37.9108, 43.8269, 101.0691



25.2754, 19.7426, 83.3672



15.7468, 16.9278, 20.1590



15.1219, 16.4681, 47.5095



1.3515, 1.5569, 3.9835



# Previews

## White Background



This preview shows how the XYZ color 46.7361, 38.2444, 14.3698 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 46.7361, 38.2444, 14.3698 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 46.7361, 38.2444, 14.3698**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.7361, 38.2444, 14.3698.



This preview shows how white text looks on a background with the XYZ color 46.7361, 38.2444,



# 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

46.7361, 38.2444, 14.3698

### Protanopia

35.5518, 38.5866, 17.1294

### Deuteranopia

39.2147, 38.4313, 13.9455



## Tritanopia

50.3928, 38.2495, 31.5150

# Trichromacy



## Original Color

46.7361, 38.2444, 14.3698

## Protanomaly

38.9210, 37.9765, 16.1053

## Deuteranomaly

41.6862, 38.2061, 13.9815

## Tritanomaly

49.0658, 38.3584, 24.2199

# Monochromacy



## Original Color

46.7361, 38.2444, 14.3698

## Achromatopsia

35.7637, 37.6262, 40.9749

## Achromatomaly

38.3106, 37.1266, 28.8139

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.7361, 38.2444, 14.3698 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(238, 142, 89)` looks like.

```
.text, #text, p{  
    color:rgb(238, 142, 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(238, 142, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(238, 142, 89) }
```

## Border

The CSS property to change the border of an element to XYZ 46.7361, 38.2444, 14.3698 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(238, 142, 89) }
```



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

```
.border{ border-color:rgb(238, 142, 89) }
```

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

Here you see how a box with a 4 pixel `rgb(238, 142, 89)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(238, 142, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(238, 142, 89);  
box-shadow:4px 4px 4px 4px rgb(238, 142,  
89) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.7361, 38.2444, 14.3698 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(238, 142, 89) }
```

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

```
.background{ background-color: rgb(238,  
142, 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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