

Converting Colors

XYZ(47.1886, 44.2242, 12.4291)

Have a look what the booklet for
XYZ(47.1886, 44.2242, 12.4291)
contains.

XYZ(46.9708, 44.0493, 12.3301)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(46.9708, 44.0493,
12.3301)**

Conversions

Conversions Part 1

Format	Color
Hex	E5A549
RGB	229, 165, 73
RGB Percent	90%, 65%, 29%
CMY	0.1020, 0.3529, 0.7137
CMYK	0.00, 0.28, 0.68, 0.10
HSL	35°, 75%, 59%
HSV	35°, 68%, 90%
XYZ	46.9708, 44.0493, 12.3301
YIQ	173.6480, 67.6760, -15.0440

Conversions

Conversions Part 2

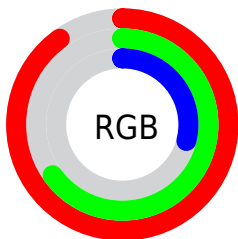
Format	Color
RYB	182, 229, 73
Decimal	15050057
CIELab	72.26, 14.87, 55.41
CIELCh	72, 57.374, 74.980
Yxy	44.0493, 0.4545, 0.4262
Android (android.graphics.Color)	4293240137 (0xFFE5A549)
YUV	173.6480, -49.6195, 48.5437
Hunter-Lab	66.3696, 10.1803, 35.4439

Details

The XYZ color **46.9708, 44.0493, 12.3301** is a light color, and the websafe version is hex **CC9933**. The color can be described as light muted orange. A complement of this color would be **25.8357, 24.9638, 77.5850**, and the grayscale version is **40.2746, 42.3721, 46.1432**.

A 20% lighter version of the original color is **70.5349, 73.9271, 29.9538**, and **22.3685, 20.2857, 3.2669** is the 20% darker color. If you saturate the color by 10%, you get **44.7143, 40.5361, 8.4968**, and if you desaturate by 10%, it is **49.6332, 47.9276, 17.6779**.

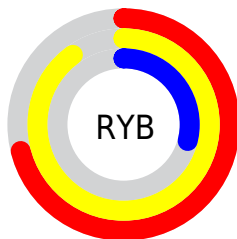
Distribution



Red (90%)

Green (65%)

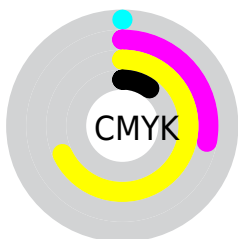
Blue (29%)



Red (71%)

Yellow (90%)

Blue (29%)

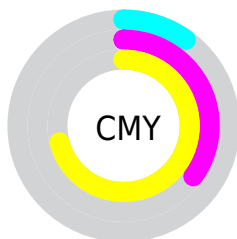


Cyan (0%)

Magenta (28%)

Yellow (68%)

Black (10%)



Cyan (10%)


Magenta (35%)


Yellow (71%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 46.9708, 44.0493, 12.3301 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 46.9708, 44.0493, 12.3301 by changing the saturation by 10% instead.

 46.9708, 44.0493,
12.3301

 46.9708, 44.0493,
12.3301


365.3488,
362.9094, 217.6335


 33.2204, 30.7093,
6.8436


 84.8890, 81.2919,
30.7682

 22.4554, 20.3776,
3.2875

 109.7876,
105.9633, 44.5570


 14.3104, 12.6698,
1.2433


 139.1330,
135.1806, 61.9503

 8.4200, 7.2016,
0.0146

 173.2905,
169.3282, 83.3667

 4.4189, 3.5885,
0.0000

 212.6254,
208.7905, 109.2246

 1.9417, 1.4461,
0.0000

257.5032,

 0.6009, 0.2504,

253.9518, 139.9427

0.0000

308.2893,
305.1967, 175.9395

■ 0.0000, 0.0000,
0.0000

■ 46.9708, 44.0493,
12.3301

■ 46.9708, 44.0493,
12.3301

■ 44.7143, 40.5361,
8.4968

■ 49.6332, 47.9276,
17.6779

■ 42.8256, 37.3631,
6.0039

■ 52.7286, 52.1807,
24.6835

■ 41.2571, 34.5087,
4.6099

■ 56.2847, 56.8252,
33.4762

■ 40.9851, 34.0023,
4.4029

■ 60.3257, 61.8749,
44.1715

■ 64.8740, 67.3425,
56.8755

■ 69.9503, 73.2399,
71.6859

■ 75.5741, 79.5785,
88.6945

■ 81.5696, 86.2915,
106.9645

■ 84.4096, 91.9714,
107.9111

Harmonies

Analogous

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



56.7465, 44.0493, 18.9271



46.9708, 44.0493, 12.3301



37.1596, 44.0493, 12.3262

Triad

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



46.9708, 44.0493, 12.3301



26.1054, 44.0493, 63.3960



56.7353, 44.0493, 97.4790

Complementary

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



46.9708, 44.0493, 12.3301



25.8357, 24.9638, 77.5850

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.



46.9572, 44.0493, 121.7721



46.9708, 44.0493, 12.3301



29.8472, 44.0493, 97.4368

Square

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



46.9708, 44.0493, 12.3301



26.1078, 44.0493, 35.2324



37.1480, 44.0493, 121.7542



62.9570, 44.0493, 63.4393

Rectangle

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



46.9708, 44.0493, 12.3301



31.9198, 44.0493, 15.8303



37.1480, 44.0493, 121.7542



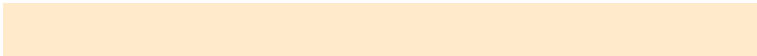
53.6931, 44.0493, 107.5564

Sweetspot

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



46.9718, 44.0515, 12.3309



81.5843, 84.5101, 69.1389



39.2831, 23.2584, 26.4642



17.1048, 17.6612, 13.7923



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.



46.9718, 44.0515, 12.3309



55.9606, 49.9154, 9.2596



57.5406, 71.1182, 16.9983



15.0799, 15.7738, 15.1543



23.5547, 19.6836, 2.5578



1.8315, 1.6363, 0.2193

Inverse Universe

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



25.8357, 24.9638, 77.5850



27.3798, 24.2136, 97.8384



20.3635, 12.4011, 75.4486



14.0660, 14.8533, 18.2700



10.4835, 8.0291, 43.3804



0.8643, 0.7725, 3.2355

Previews

White Background



This preview shows how the XYZ color 46.9708, 44.0493, 12.3301 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 46.9708, 44.0493, 12.3301 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 46.9708, 44.0493, 12.3301

Background



This preview shows how black text looks on a background with the XYZ color 46.9708, 44.0493, 12.3301.



This preview shows how white text looks on a background with the XYZ color 46.9708, 44.0493,

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

46.9708, 44.0493, 12.3301

Protanopia

40.2859, 44.2469, 13.4384

Deuteranopia

45.1765, 44.2160, 12.2844



Tritanopia

52.9573, 43.8949, 42.2406

Trichromacy



Original Color

46.9708, 44.0493, 12.3301

Protanomaly

42.5426, 43.9643, 13.0812

Deuteranomaly

45.9128, 44.3204, 12.2657

Tritanomaly

50.2360, 43.8134, 27.9994

Monochromacy



Original Color

46.9708, 44.0493, 12.3301

Achromatopsia

40.2316, 42.3268, 46.0938

Achromatomaly

41.3264, 42.4013, 29.6730

CSS Examples

Text

The CSS property to change the color of the text to XYZ 46.9708, 44.0493, 12.3301 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(229, 165, 73)` looks like.

```
.text, #text, p{  
    color:rgb(229, 165, 73)  
}
```

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(229, 165, 73) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 165, 73) }
```

Border

The CSS property to change the border of an element to XYZ 46.9708, 44.0493, 12.3301 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(229, 165, 73) }
```


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

```
.border{ border-color:rgb(229, 165, 73) }
```

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

Here you see how a box with a 4 pixel `rgb(229, 165, 73)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 165, 73); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 165, 73);  
box-shadow:4px 4px 4px 4px rgb(229, 165,  
73) }
```

Background

The CSS property to change the background color of an element to XYZ 46.9708, 44.0493, 12.3301 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 165, 73) }
```

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

```
.background{ background-color: rgb(229,  
165, 73) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor