

Converting Colors

XYZ(48.2082, 45.4403, 13.1949)

Have a look what the booklet for
XYZ(48.2082, 45.4403, 13.1949)
contains.

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Color

**XYZ(48.2972, 45.5300,
13.2638)**

Conversions

Conversions Part 1

Format	Color
Hex	E7A84D
RGB	231, 168, 77
RGB Percent	91%, 66%, 30%
CMY	0.0941, 0.3412, 0.6980
CMYK	0.00, 0.27, 0.67, 0.09
HSL	35°, 76%, 60%
HSV	35°, 67%, 91%
XYZ	48.2972, 45.5300, 13.2638
YIQ	176.4630, 66.7590, -14.9450

Conversions

Conversions Part 2

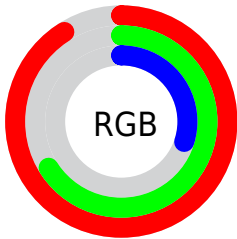
Format	Color
RYB	184, 231, 77
Decimal	15181901
CIELab	73.24, 14.34, 54.72
CIElCh	73, 56.565, 75.315
Yxy	45.5300, 0.4510, 0.4252
Android (android.graphics.Color)	4293371981 (0xFFE7A84D)
YUV	176.4630, -49.0353, 47.8289
Hunter-Lab	67.4759, 9.6820, 35.5785

Details

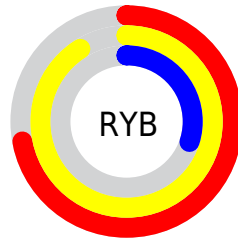
The XYZ color **48.2972, 45.5300, 13.2638** is a light color, and the websafe version is hex **CC9933**. The color can be described as light muted orange. A complement of this color would be **26.8620, 26.1023, 79.2234**, and the grayscale version is **41.7337, 43.9071, 47.8148**.

A 20% lighter version of the original color is **71.5901, 75.6203, 31.5919**, and **23.1946, 21.2106, 3.6822** is the 20% darker color. If you saturate the color by 10%, you get **45.9405, 41.8985, 9.1439**, and if you desaturate by 10%, it is **51.0723, 49.5354, 18.9521**.

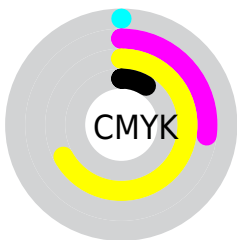
Distribution



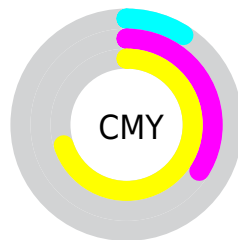
- Red (91%)
- Green (66%)
- Blue (30%)



- Red (72%)
- Yellow (91%)
- Blue (30%)



- Cyan (0%)
- Magenta (27%)
- Yellow (67%)
- Black (9%)



- Cyan (9%)
- Magenta (34%)
- Yellow (70%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 48.2972, 45.5300, 13.2638 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 48.2972, 45.5300, 13.2638 by changing the saturation by 10% instead.

48.2972, 45.5300,
13.2638

48.2972, 45.5300,
13.2638

370.5320,
368.9159, 223.8684

34.2745, 31.8751,
7.4776

86.8538, 83.5152,
32.4750

23.2685, 21.2661,
3.6796

112.1184,
108.6142, 46.7371

14.9137, 13.3187,
1.4513

141.8610,
138.2968, 64.6616

8.8447, 7.6483,
0.1812

176.4470,
172.9472, 86.6669

4.6963, 3.8708,
0.0000

216.2418,
212.9499, 113.1718

2.1031, 1.6015,
0.0000

261.6106,

0.6909, 0.3586,

258.6894, 144.5946

0.0000

312.9189,
310.5499, 181.3539

■ 0.0000, 0.0000,
0.0000

■ 48.2972, 45.5300,
13.2638

■ 48.2972, 45.5300,
13.2638

■ 45.9405, 41.8985,
9.1439

■ 51.0723, 49.5354,
18.9521

■ 43.9641, 38.6158,
6.4192

■ 54.2928, 53.9241,
26.3523

■ 42.3253, 35.6623,
4.8739

■ 57.9865, 58.7132,
35.5942

■ 41.8307, 34.7406,
4.5009

■ 62.1780, 63.9163,
46.7944

■ 66.8897, 69.5462,
60.0598

■ 72.1426, 75.6152,
75.4894

■ 77.9565, 82.1345,
93.1757

■ 83.2351, 88.6694,
107.3357

■ 86.1455, 94.4901,
108.3058

Harmonies

Analogous

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



58.1361, 45.5300, 19.9762



48.2972, 45.5300, 13.2638



38.4256, 45.5300, 13.3286

Triad

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



48.2972, 45.5300, 13.2638



27.3497, 45.5300, 65.4638



58.3172, 45.5300, 98.8194

Complementary

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



48.2972, 45.5300, 13.2638



26.8620, 26.1023, 79.2234

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.



48.5159, 45.5300, 123.2175



48.2972, 45.5300, 13.2638



31.1902, 45.5300, 99.4948

Square

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



48.2972, 45.5300, 13.2638



27.3097, 45.5300, 36.9656



38.6134, 45.5300, 123.5035



64.4942, 45.5300, 64.7667

Rectangle

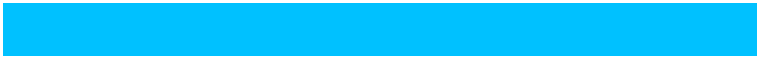
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



48.2972, 45.5300, 13.2638



33.1503, 45.5300, 17.0051



38.6134, 45.5300, 123.5035



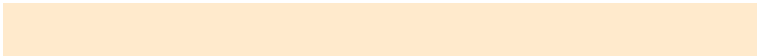
55.2759, 45.5300, 108.9113

Sweetspot

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



48.2983, 45.5323, 13.2647



81.6013, 84.5440, 69.1445



40.4291, 24.2251, 27.8099



17.1088, 17.6693, 13.7936



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.



48.2983, 45.5323, 13.2647



56.5051, 50.8341, 9.9658



58.8786, 72.6185, 17.9352



15.0814, 15.7767, 15.1548



23.5760, 19.7262, 2.5649



1.8330, 1.6394, 0.2198

Inverse Universe

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



26.8620, 26.1023, 79.2234



28.0023, 25.0979, 97.9762



21.2783, 13.2430, 77.0356



14.0645, 14.8505, 18.2695



10.4698, 8.0017, 43.3758



0.8632, 0.7703, 3.2352

Previews

White Background



This preview shows how the XYZ color 48.2972, 45.5300, 13.2638 looks on a white background.

Color Contrast Check

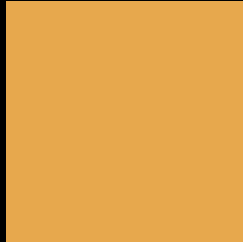
Large Text (above 18pt) WCAG AA × Fail

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 48.2972, 45.5300, 13.2638 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

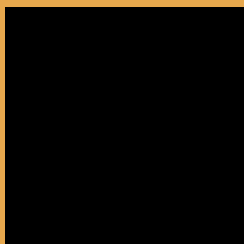
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 48.2972, 45.5300, 13.2638

Background



This preview shows how black text looks on a background with the XYZ color 48.2972, 45.5300, 13.2638.



This preview shows how white text looks on a background with the XYZ color 48.2972, 45.5300,

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

48.2972, 45.5300, 13.2638

Protanopia

41.6259, 45.5160, 14.3761

Deuteranopia

46.6079, 45.4949, 13.1624



Tritanopia

54.7425, 45.5331, 43.9337

Trichromacy



Original Color

48.2972, 45.5300, 13.2638

Protanomaly

43.8373, 45.4787, 14.0572

Deuteranomaly

47.3578, 45.6021, 13.1435

Tritanomaly

51.6252, 45.2804, 29.3116

Monochromacy



Original Color

48.2972, 45.5300, 13.2638

Achromatopsia

41.2663, 43.4154, 47.2793

Achromatomaly

42.4421, 43.5164, 30.9735

CSS Examples

Text

The CSS property to change the color of the text to XYZ 48.2972, 45.5300, 13.2638 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(231, 168, 77)` looks like.

```
.text, #text, p{  
    color:rgb(231, 168, 77)  
}
```

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(231, 168, 77) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 168, 77) }
```

Border

The CSS property to change the border of an element to XYZ 48.2972, 45.5300, 13.2638 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(231, 168, 77) }
```


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

```
.border{ border-color:rgb(231, 168, 77) }
```

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

Here you see how a box with a 4 pixel rgb(231, 168, 77) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 168, 77); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 168, 77);  
box-shadow:4px 4px 4px 4px rgb(231, 168,  
77) }
```

Background

The CSS property to change the background color of an element to XYZ 48.2972, 45.5300, 13.2638 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 168, 77) }
```

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

```
.background{ background-color: rgb(231,  
168, 77) }
```

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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