

# Converting Colors

XYZ(49.9520, 47.1042, 23.7253)

Have a look what the booklet for  
XYZ(49.9520, 47.1042, 23.7253)  
contains.

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# Color

**XYZ(49.8278, 46.9278,  
23.5713)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E4AB76
RGB	228, 171, 118
RGB Percent	89%, 67%, 46%
CMY	0.1059, 0.3294, 0.5372
CMYK	0.00, 0.25, 0.48, 0.11
HSL	29°, 67%, 68%
HSV	29°, 48%, 89%
XYZ	49.8278, 46.9278, 23.5713
YIQ	182.0010, 50.9850, -4.3990

# Conversions

## Conversions Part 2

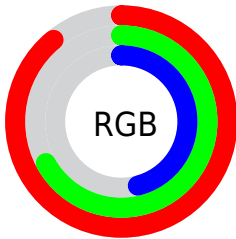
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	228, 220, 118
Decimal	14986102
CIE <sub>Lab</sub>	74.14, 14.61, 35.33
CIE <sub>LCh</sub>	74, 38.234, 67.529
Yxy	46.9278, 0.4141, 0.3900
Android (android.graphics.Color)	4293176182 (0xFFE4AB76)
YUV	182.0010, -31.5525, 40.3411
Hunter-Lab	68.5039, 9.9541, 27.5518

# Details

The XYZ color **49.8278, 46.9278, 23.5713** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **36.8040, 40.1112, 79.2009**, and the grayscale version is **44.6120, 46.9353, 51.1125**.

A 20% lighter version of the original color is **75.7870, 78.5930, 49.7036**, and **24.2178, 22.1571, 8.4692** is the 20% darker color. If you saturate the color by 10%, you get **46.5008, 42.1864, 16.5666**, and if you desaturate by 10%, it is **53.6840, 52.2036, 32.3689**.

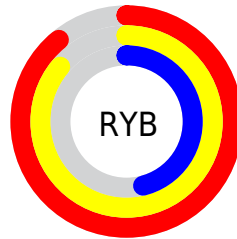
# Distribution



Red (89%)

Green (67%)

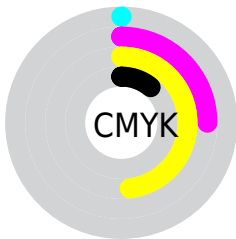
Blue (46%)



Red (89%)

Yellow (86%)

Blue (46%)

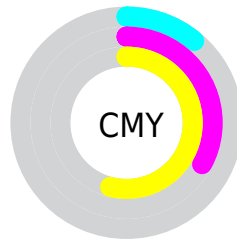


Cyan (0%)

Magenta (25%)

Yellow (48%)

Black (11%)



Cyan (11%)

Magenta (33%)


Yellow (54%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.8278, 46.9278, 23.5713 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 49.8278, 46.9278, 23.5713 by changing the saturation by 10% instead.





 49.8278, 46.9278,  
23.5713


 49.8278, 46.9278,  
23.5713


376.4553,  
374.5263, 283.8623


 35.4938, 32.9786,  
14.8067


 89.1130, 85.6058,  
50.2647

 24.2118, 22.1100,  
8.5387


 114.7950,  
111.1035, 69.0306

 15.6164, 13.9378,  
4.3489


 144.9904,  
141.2193, 91.9673

 9.3422, 8.0774,  
1.8186

180.0645,  
176.3378, 119.4934

 5.0240, 4.1445,  
0.4402

220.3826,  
216.8434, 152.0274

 2.2962, 1.7547,  
0.0000

266.3103,

 0.7927, 0.4587,

263.1204, 189.9879

0.0000

318.2127,  
315.5532, 233.7933

■ 0.0000, 0.0000,  
0.0000

■ 49.8278, 46.9278,  
23.5713

■ 49.8278, 46.9278,  
23.5713

■ 46.5008, 42.1864,  
16.5666

■ 53.6840, 52.2036,  
32.3689

■ 43.6704, 37.9526,  
11.2238

■ 58.0926, 58.0258,  
43.0719

■ 41.3051, 34.2070,  
7.3984


■ 63.0794, 64.4140,  
55.7871

■ 39.3670, 30.9254,  
4.9193


■ 68.6672, 71.3850,  
70.6121


■ 37.8041, 28.0776,  
3.5419

■ 74.8777, 78.9545,  
87.6384

 37.5562, 27.6168,  
3.3511

 81.7312, 87.1379,  
106.9519

 85.3914, 94.4072,  
108.3296

 85.8048, 95.2339,  
108.4673

# Harmonies

## Analogous

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



55.8816, 46.9278, 31.3957



49.8278, 46.9278, 23.5713



42.9004, 46.9278, 22.0882

# Triad

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



49.8278, 46.9278, 23.5713



32.7819, 46.9278, 56.1983



53.1147, 46.9278, 87.2154

# Complementary

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



49.8278, 46.9278, 23.5713



36.8040, 40.1112, 79.2009

# 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.



46.3510, 46.9278, 98.3392



49.8278, 46.9278, 23.5713



34.9551, 46.9278, 77.6818

# Square

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



49.8278, 46.9278, 23.5713



33.5090, 46.9278, 37.9959



39.7577, 46.9278, 94.4642



57.9107, 46.9278, 66.9073



# Rectangle

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



49.8278, 46.9278, 23.5713



38.7903, 46.9278, 24.4209



39.7577, 46.9278, 94.4642



50.9702, 46.9278, 92.3616

# Sweetspot

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



49.8290, 46.9301, 23.5722



84.2061, 86.6711, 79.5161



46.3761, 32.6123, 45.2718



17.6960, 18.1405, 16.1568



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.



49.8290, 46.9301, 23.5722



59.8928, 54.3111, 21.2639



62.0101, 71.2924, 27.6326



14.9472, 15.5083, 15.1101



21.8039, 16.1819, 1.9742



1.7039, 1.3810, 0.1768



# Inverse Universe

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



36.8040, 40.1112, 79.2009



41.2103, 44.5217, 101.0293



28.3939, 23.2908, 76.3976



14.1975, 15.1163, 18.3138



11.9556, 10.9734, 43.8711



0.9764, 0.9968, 3.2729



# Previews

## White Background



This preview shows how the XYZ color 49.8278, 46.9278, 23.5713 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 49.8278, 46.9278, 23.5713 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

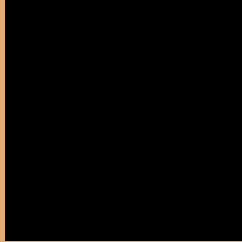
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 49.8278, 46.9278, 23.5713**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.8278, 46.9278, 23.5713.



This preview shows how white text looks on a background with the XYZ color 49.8278, 46.9278,



# 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

49.8278, 46.9278, 23.5713

### Protanopia

43.7973, 47.3028, 25.5609

### Deuteranopia

48.0561, 47.1599, 23.3996



## **Tritanopia**

54.7162, 47.0091, 47.2641

# Trichromacy



## Original Color

49.8278, 46.9278, 23.5713

## Protanomaly

45.8658, 47.1760, 24.7776

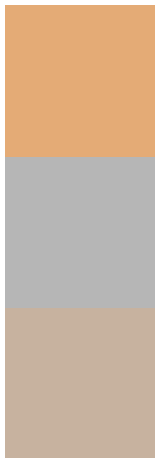
## Deuteranomaly

48.7784, 47.2444, 23.3778

## Tritanomaly

52.6901, 46.9929, 37.3038

# Monochromacy



## Original Color

49.8278, 46.9278, 23.5713

## Achromatopsia

44.4628, 46.7784, 50.9417

## Achromatomaly

45.7316, 46.4861, 39.3633

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.8278, 46.9278, 23.5713 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(228, 171, 118)` looks like.

```
.text, #text, p{  
    color:rgb(228, 171, 118)  
}
```

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(228, 171, 118) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 171, 118) }
```

## Border

The CSS property to change the border of an element to XYZ 49.8278, 46.9278, 23.5713 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(228, 171, 118) }
```



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

```
.border{ border-color:rgb(228, 171, 118) }
```

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

Here you see how a box with a 4 pixel rgb(228, 171, 118) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 171, 118); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 171, 118);  
box-shadow:4px 4px 4px 4px rgb(228, 171,  
118) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.8278, 46.9278, 23.5713 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 171, 118) }
```

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

```
.background{ background-color: rgb(228,  
171, 118) }
```

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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