

# Converting Colors

XYZ(49.3125, 45.7161, 12.9707)

Have a look what the booklet for  
XYZ(49.3125, 45.7161, 12.9707)  
contains.

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# Color

**XYZ(49.3497, 45.8076,  
12.8974)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EBA74B
RGB	235, 167, 75
RGB Percent	92%, 65%, 29%
CMY	0.0784, 0.3451, 0.7059
CMYK	0.00, 0.29, 0.68, 0.08
HSL	35°, 80%, 61%
HSV	35°, 68%, 92%
XYZ	49.3497, 45.8076, 12.8974
YIQ	176.8440, 70.0600, -14.1960

# Conversions

## Conversions Part 2

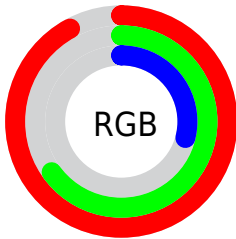
Format	Color
RYP	193, 235, 75
Decimal	15443787
CIELab	73.42, 16.44, 55.95
CIELCh	73, 58.315, 73.629
Yxy	45.8076, 0.4567, 0.4239
Android (android.graphics.Color)	4293633867 (0xFFEBA74B)
YUV	176.8440, -50.2091, 51.0028
Hunter-Lab	67.6813, 11.7106, 36.0786

# Details

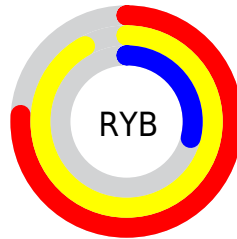
The XYZ color **49.3497, 45.8076, 12.8974** is a light color, and the websafe version is hex **CC9933**. The color can be described as light muted orange. A complement of this color would be **27.7191, 27.1378, 82.3740**, and the grayscale version is **41.9386, 44.1227, 48.0496**.

A 20% lighter version of the original color is **71.2576, 75.0611, 31.1546**, and **23.9362, 21.4259, 3.5359** is the 20% darker color. If you saturate the color by 10%, you get **46.9298, 42.0262, 8.8288**, and if you desaturate by 10%, it is **52.2100, 49.9950, 18.5784**.

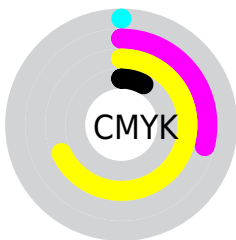
# Distribution



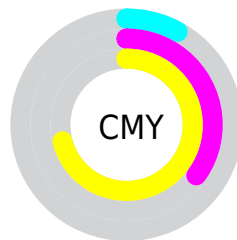
- Red (92%)
- Green (65%)
- Blue (29%)



- Red (76%)
- Yellow (92%)
- Blue (29%)



- Cyan (0%)
- Magenta (29%)
- Yellow (68%)
- Black (8%)



- Cyan (8%)
- Magenta (35%)
- Yellow (71%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.3497, 45.8076, 12.8974 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 49.3497, 45.8076, 12.8974 by changing the saturation by 10% instead.



49.3497, 45.8076,  
12.8974

49.3497, 45.8076,  
12.8974

374.6116,  
370.0346, 221.4438

35.1126, 32.0940,  
7.2280

88.4082, 83.9310,  
31.8078

23.9166, 21.4333,  
3.5245

113.9604,  
109.1096, 45.8859

15.3962, 13.4411,  
1.3683

144.0150,  
138.8786, 63.6041

9.1860, 7.7330,  
0.1168

178.9373,  
173.6225, 85.3808

4.9208, 3.9246,  
0.0000

219.0928,  
213.7257, 111.6345

2.2351, 1.6315,  
0.0000

264.8468,

0.7612, 0.3787,

259.5725, 142.7839

0.0000

316.5646,  
311.5473, 179.2475

■ 0.0000, 0.0000,  
0.0000

■ 49.3497, 45.8076,  
12.8974

■ 49.3497, 45.8076,  
12.8974

■ 46.9298, 42.0262,  
8.8288

■ 52.2100, 49.9950,  
18.5784

■ 44.9093, 38.6236,  
6.1869

■ 55.5398, 54.5993,  
26.0248


■ 43.2377, 35.5764,  
4.7174


■ 59.3691, 59.6392,  
35.3742


■ 42.9433, 35.0271,  
4.4975


■ 63.7239, 65.1297,  
46.7502

■ 68.6283, 71.0848,  
60.2654

 74.1048, 77.5180,  
76.0243

 80.1742, 84.4419,  
94.1245

 85.5409, 91.3424,  
107.7301

 88.0708, 96.4021,  
108.5734

# Harmonies

## Analogous

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



59.4666, 45.8076, 20.1308



49.3497, 45.8076, 12.8974



39.0462, 45.8076, 12.6150

# Triad

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



49.3497, 45.8076, 12.8974



27.0188, 45.8076, 64.4366



58.6472, 45.8076, 103.0821

# Complementary

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



49.3497, 45.8076, 12.8974



27.7191, 27.1378, 82.3740

# 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.



48.3633, 45.8076, 127.5760



49.3497, 45.8076, 12.8974



30.7439, 45.8076, 100.0058

# Square

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



49.3497, 45.8076, 12.8974



27.1973, 45.8076, 35.5647



38.2029, 45.8076, 126.2694



65.3851, 45.8076, 67.5900



# Rectangle

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



49.3497, 45.8076, 12.8974



33.4858, 45.8076, 16.0354



38.2029, 45.8076, 126.2694



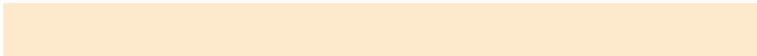
55.4258, 45.8076, 113.4011

# Sweetspot

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



49.3508, 45.8099, 12.8983



81.3706, 84.0826, 69.0676



41.8367, 24.7185, 29.0860



17.0535, 17.5586, 13.7752



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.



49.3508, 45.8099, 12.8983



55.3928, 48.7797, 9.0703



61.8221, 75.8249, 18.0345



15.7847, 16.4924, 15.8701



24.0292, 19.7526, 2.5462



1.9819, 1.7411, 0.2316



# Inverse Universe

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



27.7191, 27.1378, 82.3740



27.8028, 25.0597, 97.9794



21.3190, 12.9935, 79.9812



14.7574, 15.6013, 19.1558



10.9953, 8.6376, 44.8307



0.9569, 0.8653, 3.5515



# Previews

## White Background



This preview shows how the XYZ color 49.3497, 45.8076, 12.8974 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 49.3497, 45.8076, 12.8974 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 49.3497, 45.8076, 12.8974**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.3497, 45.8076, 12.8974.



This preview shows how white text looks on a background with the XYZ color 49.3497, 45.8076,



# 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

49.3497, 45.8076, 12.8974

### Protanopia

42.0226, 46.0298, 14.0669

### Deuteranopia

47.0399, 46.0070, 12.8795



## Tritanopia

55.4940, 45.6793, 43.4282

# Trichromacy



## Original Color

49.3497, 45.8076, 12.8974

## Protanomaly

44.3411, 45.7469, 13.7007

## Deuteranomaly

47.9239, 45.9019, 12.8127

## Tritanomaly

52.7146, 45.5897, 28.9430

# Monochromacy



## Original Color

49.3497, 45.8076, 12.8974

## Achromatopsia

41.7894, 43.9657, 47.8787

## Achromatomaly

42.9659, 43.7864, 30.9980

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.3497, 45.8076, 12.8974 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(235, 167, 75)` looks like.

```
.text, #text, p{  
    color:rgb(235, 167, 75)  
}
```

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(235, 167, 75) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(235, 167, 75) }
```

## Border

The CSS property to change the border of an element to XYZ 49.3497, 45.8076, 12.8974 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(235, 167, 75) }
```



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

```
.border{ border-color:rgb(235, 167, 75) }
```

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

Here you see how a box with a 4 pixel `rgb(235, 167, 75)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(235, 167, 75); -webkit-box-  
shadow:4px 4px 4px 4px rgb(235, 167, 75);  
box-shadow:4px 4px 4px 4px rgb(235, 167,  
75) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.3497, 45.8076, 12.8974 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(235, 167, 75) }
```

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

```
.background{ background-color: rgb(235,  
167, 75) }
```

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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