

# Converting Colors

XYZ(45.8932, 50.0409, 13.3557)

Have a look what the booklet for  
XYZ(45.8932, 50.0409, 13.3557)  
contains.

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# Color

**XYZ(45.8040, 49.8574,  
13.3402)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D3BB48
RGB	211, 187, 72
RGB Percent	83%, 73%, 28%
CMY	0.1726, 0.2666, 0.7176
CMYK	0.00, 0.11, 0.66, 0.17
HSL	50°, 61%, 55%
HSV	50°, 66%, 83%
XYZ	45.8040, 49.8574, 13.3402
YIQ	181.0660, 51.2190, -30.6770

# Conversions

## Conversions Part 2

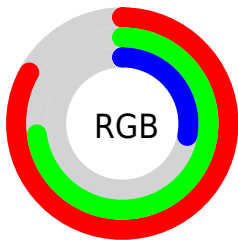
Format	Color
<b>RYB</b>	101, 211, 72
Decimal	13876040
CIELab	75.98, -4.47, 59.26
CIELCh	76, 59.423, 94.312
Yxy	49.8574, 0.4202, 0.4574
Android (android.graphics.Color)	4292066120 (0xFFD3BB48)
YUV	181.0660, -53.7695, 26.2521
Hunter-Lab	70.6098, -7.7756, 38.2253

# Details

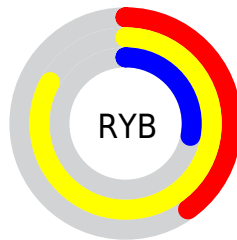
The XYZ color **45.8040, 49.8574, 13.3402** is a light color, and the websafe version is hex **CCCC66**. The color can be described as light muted orange. A complement of this color would be **18.6132, 14.4462, 63.4351**, and the grayscale version is **44.2202, 46.5231, 50.6637**.

A 20% lighter version of the original color is **77.0565, 86.8675, 32.4445**, and **21.7113, 23.8422, 3.7161** is the 20% darker color. If you saturate the color by 10%, you get **44.4678, 48.1040, 10.0621**, and if you desaturate by 10%, it is **47.3983, 51.7492, 17.8704**.

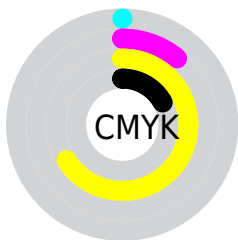
# Distribution



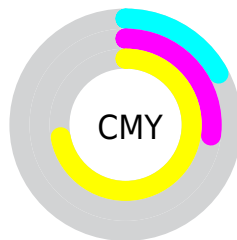
- Red (83%)
- Green (73%)
- Blue (28%)



- Red (40%)
- Yellow (83%)
- Blue (28%)



- Cyan (0%)
- Magenta (11%)
- Yellow (66%)
- Black (17%)



- Cyan (17%)
- Magenta (27%)
- Yellow (72%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.8040, 49.8574, 13.3402 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 45.8040, 49.8574, 13.3402 by changing the saturation by 10% instead.



45.8040, 49.8574,  
13.3402

45.8040, 49.8574,  
13.3402

360.7493,  
386.1080, 224.3705

32.2952, 35.3001,  
7.5298

83.1553, 89.9636,  
32.6137

21.7437, 23.8941,  
3.7121

107.7284,  
116.2812, 46.9139

13.7842, 15.2551,  
1.4688

136.7203,  
147.2878, 64.8810

8.0514, 8.9986,  
0.1945

170.4963,  
183.3676, 86.9337

4.1800, 4.7403,  
0.0000

209.4219,  
224.9052, 113.4905

1.8044, 2.0957,  
0.0000

253.8624,

0.5203, 0.6622,

272.2849, 144.9698

0.0000

304.1830,  
325.8910, 181.7903

■ 0.0000, 0.0000,  
0.0000

■ 45.8040, 49.8574,  
13.3402

■ 45.8040, 49.8574,  
13.3402

■ 44.4678, 48.1040,  
10.0621

■ 47.3983, 51.7492,  
17.8704

■ 43.3606, 46.4715,  
7.8997

■ 49.2691, 53.7813,  
23.7644

■ 42.4523, 44.9494,  
6.6886

■ 51.4371, 55.9640,  
31.1249

■ 42.1114, 44.3440,  
6.3397

■ 53.9197, 58.3047,  
40.0439

■ 56.7333, 60.8099,  
50.6058

■ 59.8926, 63.4860,  
62.8890

■ 63.4120, 66.3387,  
76.9667

■ 67.3045, 69.3736,  
92.9081

■ 70.4511, 72.1433,  
104.8196

# Harmonies

## Analogous

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



57.2373, 49.8574, 15.7732



45.8040, 49.8574, 13.3402



36.3632, 49.8574, 17.8726

# Triad

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



45.8040, 49.8574, 13.3402



31.8772, 49.8574, 96.4617



69.2998, 49.8574, 85.2673

# Complementary

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



45.8040, 49.8574, 13.3402



18.6132, 14.4462, 63.4351

# 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.



60.4422, 49.8574, 121.8996



45.8040, 49.8574, 13.3402



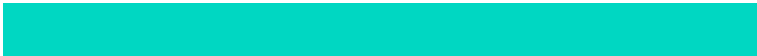
38.7388, 49.8574, 129.9372

# Square

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



45.8040, 49.8574, 13.3402



29.1581, 49.8574, 59.0045



49.0080, 49.8574, 140.7046



71.9689, 49.8574, 49.8264



# Rectangle

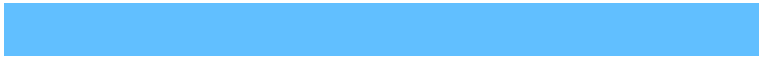
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



45.8040, 49.8574, 13.3402



32.1032, 49.8574, 25.9015



49.0080, 49.8574, 140.7046



66.8862, 49.8574, 98.2344

# Sweetspot

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



45.8052, 49.8598, 13.3412



85.1546, 91.6506, 70.3290



31.3618, 19.3562, 13.5116



17.9664, 19.3843, 14.0794



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.



45.8052, 49.8598, 13.3412



67.5477, 72.8268, 13.9317



40.3970, 55.2700, 14.6705



12.6226, 13.4358, 12.5401



25.4809, 26.8948, 3.8482



1.4716, 1.5975, 0.2308



# Inverse Universe

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



18.6132, 14.4462, 63.4351



23.0637, 15.0248, 96.2922



21.2804, 13.0526, 63.0255



11.3263, 11.7429, 14.9133



7.5365, 3.7197, 37.5132



0.4732, 0.3116, 2.1148



# Previews

## White Background



This preview shows how the XYZ color 45.8040, 49.8574, 13.3402 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

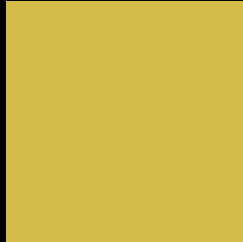
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.8040, 49.8574, 13.3402 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 45.8040, 49.8574, 13.3402**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.8040, 49.8574, 13.3402.



This preview shows how white text looks on a background with the XYZ color 45.8040, 49.8574,



# 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

45.8040, 49.8574, 13.3402

### Protanopia

45.4474, 49.9896, 13.3845

### Deuteranopia

50.7947, 49.6724, 13.5672



## Tritanopia

54.3341, 49.7062, 54.8747

# Trichromacy



## Original Color

45.8040, 49.8574, 13.3402

## Protanomaly

45.7313, 50.1360, 13.3978

## Deuteranomaly

48.8112, 49.5497, 13.4700

## Tritanomaly

49.9237, 49.0672, 34.0338

# Monochromacy



## Original Color

45.8040, 49.8574, 13.3402

## Achromatopsia

43.9204, 46.2077, 50.3202

## Achromatomaly

43.4794, 46.9965, 31.9789

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.8040, 49.8574, 13.3402 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(211, 187, 72)` looks like.

```
.text, #text, p{  
    color:rgb(211, 187, 72)  
}
```

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(211, 187, 72) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(211, 187, 72) }
```

## Border

The CSS property to change the border of an element to XYZ 45.8040, 49.8574, 13.3402 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(211, 187, 72) }
```



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

```
.border{ border-color:rgb(211, 187, 72) }
```

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

Here you see how a box with a 4 pixel rgb(211, 187, 72) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(211, 187, 72); -webkit-box-  
shadow:4px 4px 4px 4px rgb(211, 187, 72);  
box-shadow:4px 4px 4px 4px rgb(211, 187,  
72) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.8040, 49.8574, 13.3402 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(211, 187, 72) }
```

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

```
.background{ background-color: rgb(211,  
187, 72) }
```

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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