

# Converting Colors

XYZ(45.2398, 48.0813, 13.2407)

Have a look what the booklet for  
XYZ(45.2398, 48.0813, 13.2407)  
contains.

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# Color

**XYZ(45.0819, 47.9340,  
13.1794)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D4B649
RGB	212, 182, 73
RGB Percent	83%, 71%, 29%
CMY	0.1686, 0.2863, 0.7137
CMYK	0.00, 0.14, 0.66, 0.17
HSL	47°, 62%, 56%
HSV	47°, 66%, 83%
XYZ	45.0819, 47.9340, 13.1794
YIQ	178.5440, 52.8690, -27.5390

# Conversions

## Conversions Part 2

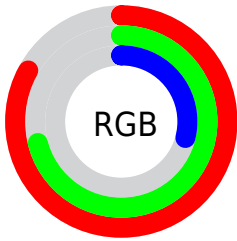
<b>Format</b>	<b>Color</b>
<b>RYB</b>	111, 212, 73
Decimal	13940297
CIELab	74.78, -1.37, 57.59
CIELCh	75, 57.606, 91.366
Yxy	47.9340, 0.4245, 0.4514
Android (android.graphics.Color)	4292130377 (0xFFD4B649)
YUV	178.5440, -52.0332, 29.3409
Hunter-Lab	69.2344, -4.9301, 37.1777

# Details

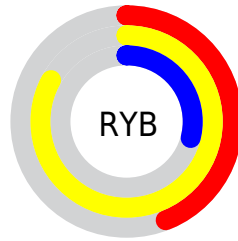
The XYZ color **45.0819, 47.9340, 13.1794** is a light color, and the websafe version is hex **FFCC66**. The color can be described as light muted orange. A complement of this color would be **19.4814, 15.8698, 64.3233**, and the grayscale version is **42.8544, 45.0862, 49.0988**.

A 20% lighter version of the original color is **75.5804, 83.9154, 31.9524**, and **21.2493, 22.5996, 3.6230** is the 20% darker color. If you saturate the color by 10%, you get **43.5740, 45.8580, 9.7805**, and if you desaturate by 10%, it is **46.8621, 50.1716, 17.8517**.

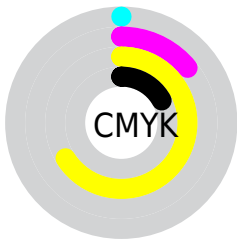
# Distribution



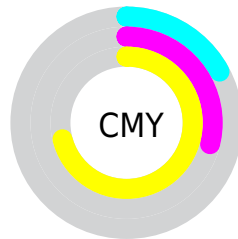
- Red (83%)
- Green (71%)
- Blue (29%)



- Red (44%)
- Yellow (83%)
- Blue (29%)



- Cyan (0%)
- Magenta (14%)
- Yellow (66%)
- Black (17%)



- Cyan (17%)
- Magenta (29%)
- Yellow (71%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.0819, 47.9340, 13.1794 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 45.0819, 47.9340, 13.1794 by changing the saturation by 10% instead.



■ 45.0819, 47.9340,  
13.1794

■ 45.0819, 47.9340,  
13.1794

357.8833,  
378.5305, 223.3123

■ 31.7235, 33.7746,  
7.4200

■ 82.0796, 87.1061,  
32.3216

■ 21.3049, 22.7205,  
3.6437

■ 106.4496,  
112.8877, 46.5415

■ 13.4608, 14.3873,  
1.4320

■ 135.2209,  
143.3121, 64.4187

■ 7.8258, 8.3905,  
0.1665

■ 168.7587,  
178.7637, 86.3717

■ 4.0345, 4.3458,  
0.0000

■ 207.4285,  
219.6269, 112.8190

■ 1.7217, 1.8688,  
0.0000

251.5957,

■ 0.4698, 0.5295,

266.2862, 144.1791

0.0000

301.6255,  
319.1259, 180.8707

■ 0.0000, 0.0000,  
0.0000

■ 45.0819, 47.9340,  
13.1794

■ 45.0819, 47.9340,  
13.1794

■ 43.5740, 45.8580,  
9.7805

■ 46.8621, 50.1716,  
17.8517

■ 42.3094, 43.9259,  
7.5177

■ 48.9336, 52.5733,  
23.9101

■ 41.2574, 42.1270,  
6.2268

■ 51.3171, 55.1498,  
31.4581

■ 40.8334, 41.3614,  
5.8314

■ 54.0306, 57.9085,  
40.5886

■ 57.0905, 60.8566,  
51.3868

■ 60.5122, 64.0005,  
63.9318

■ 64.3098, 67.3464,  
78.2978

■ 68.4970, 70.9002,  
94.5546

■ 71.6364, 74.0873,  
105.1324

# Harmonies

## Analogous

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



55.8985, 47.9340, 16.1928



45.0819, 47.9340, 13.1794



35.8687, 47.9340, 16.8305

# Triad

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



45.0819, 47.9340, 13.1794



30.4482, 47.9340, 88.2988



65.6003, 47.9340, 84.9638

# Complementary

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



45.0819, 47.9340, 13.1794



19.4814, 15.8698, 64.3233

# 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.



56.8559, 47.9340, 118.4785



45.0819, 47.9340, 13.1794



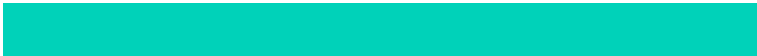
36.5817, 47.9340, 120.8669

# Square

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



45.0819, 47.9340, 13.1794



28.2596, 47.9340, 53.5776



46.0411, 47.9340, 133.5971



68.7810, 47.9340, 50.8304



# Rectangle

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



45.0819, 47.9340, 13.1794



31.5804, 47.9340, 23.8476



46.0411, 47.9340, 133.5971



63.1542, 47.9340, 97.0707

# Sweetspot

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



45.0830, 47.9363, 13.1804



84.4882, 90.3179, 70.1068



31.9881, 19.7441, 14.9883



17.8049, 19.0614, 14.0256



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.



45.0830, 47.9363, 13.1804



65.3214, 68.3743, 13.1896



41.8950, 56.4083, 14.9837



13.2349, 14.0439, 13.1739



25.2847, 25.6865, 3.6254



1.5829, 1.6650, 0.2379



# Inverse Universe

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



19.4814, 15.8698, 64.3233



23.8238, 16.5450, 96.5456



20.9976, 12.9890, 63.6873



11.9577, 12.4388, 15.7082



7.9938, 4.2494, 38.8521



0.5440, 0.3801, 2.3640



# Previews

## White Background



This preview shows how the XYZ color 45.0819, 47.9340, 13.1794 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

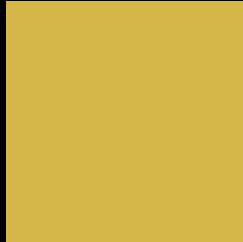
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.0819, 47.9340, 13.1794 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 45.0819, 47.9340, 13.1794**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.0819, 47.9340, 13.1794.



This preview shows how white text looks on a background with the XYZ color 45.0819, 47.9340,



# 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

45.0819, 47.9340, 13.1794

### Protanopia

43.5534, 47.7545, 13.4006

### Deuteranopia

48.9131, 47.8260, 13.3099



## Tritanopia

53.0334, 47.9587, 51.8092

# Trichromacy



## Original Color

45.0819, 47.9340, 13.1794

## Protanomaly

44.1819, 47.7713, 13.3707

## Deuteranomaly

47.5879, 48.0232, 13.2398

## Tritanomaly

49.2775, 47.5790, 32.9720

# Monochromacy



## Original Color

45.0819, 47.9340, 13.1794

## Achromatopsia

42.8472, 45.0786, 49.0906

## Achromatomaly

42.5407, 45.6123, 31.3729

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.0819, 47.9340, 13.1794 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(212, 182, 73)` looks like.

```
.text, #text, p{  
    color:rgb(212, 182, 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(212, 182, 73) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(212, 182, 73) }
```

## Border

The CSS property to change the border of an element to XYZ 45.0819, 47.9340, 13.1794 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(212, 182, 73) }
```



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

```
.border{ border-color:rgb(212, 182, 73) }
```

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

Here you see how a box with a 4 pixel rgb(212, 182, 73) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(212, 182, 73); -webkit-box-  
shadow:4px 4px 4px 4px rgb(212, 182, 73);  
box-shadow:4px 4px 4px 4px rgb(212, 182,  
73) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.0819, 47.9340, 13.1794 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(212, 182, 73) }
```

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

```
.background{ background-color: rgb(212,  
182, 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](#).

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