

# Converting Colors

XYZ(48.4531, 56.8409, 17.2226)

Have a look what the booklet for  
XYZ(48.4531, 56.8409, 17.2226)  
contains.

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# Color

**XYZ(48.4494, 56.8368,  
17.2211)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CDCC56
RGB	205, 204, 86
RGB Percent	80%, 80%, 34%
CMY	0.1961, 0.2000, 0.6627
CMYK	0.00, 0.00, 0.58, 0.20
HSL	59°, 54%, 57%
HSV	59°, 58%, 80%
XYZ	48.4494, 56.8368, 17.2211
YIQ	190.8470, 38.4740, -36.4860

# Conversions

## Conversions Part 2

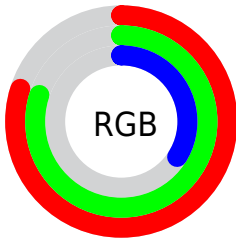
Format	Color
<b>R<sub>YB</sub></b>	87, 205, 86
Decimal	13487190
CIE <sub>Lab</sub>	80.09, -14.76, 57.51
CIE <sub>LCh</sub>	80, 59.373, 104.395
Yxy	56.8368, 0.3955, 0.4639
Android (android.graphics.Color)	4291677270 (0xFFCDCC56)
YUV	190.8470, -51.6896, 12.4122
Hunter-Lab	75.3902, -17.2200, 39.2297

# Details

The XYZ color **48.4494, 56.8368, 17.2211** is a light color, and the websafe version is hex **CCCC66**. The color can be described as light muted yellow. A complement of this color would be **18.2654, 13.2022, 59.3428**, and the grayscale version is **49.7084, 52.2971, 56.9515**.

A 20% lighter version of the original color is **81.7336, 94.6734, 38.7769**, and **23.3534, 28.2023, 5.4410** is the 20% darker color. If you saturate the color by 10%, you get **47.6990, 56.4737, 13.4643**, and if you desaturate by 10%, it is **49.4394, 57.3000, 22.2276**.

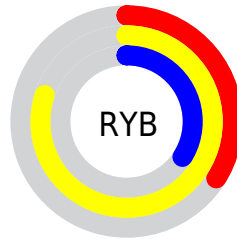
# Distribution



Red (80%)

Green (80%)

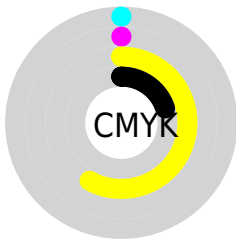
Blue (34%)



Red (34%)

Yellow (80%)

Blue (34%)

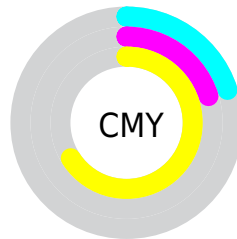


Cyan (0%)

Magenta (0%)

Yellow (58%)

Black (20%)



Cyan (20%)

Magenta (20%)


Yellow (66%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.4494, 56.8368, 17.2211 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 48.4494, 56.8368, 17.2211 by changing the saturation by 10% instead.





 48.4494, 56.8368,  
17.2211


 48.4494, 56.8368,  
17.2211


371.1237,  
412.8375, 248.5303

 34.3956, 40.8742,  
10.2286


 87.0788, 100.2270,  
39.5014

 23.3620, 28.2208,  
5.4432


 112.3851,  
128.4235, 55.6263

 14.9832, 18.4922,  
2.4463


 142.1731,  
161.4666, 75.6324

 8.8939, 11.3039,  
0.8115

 176.8079,  
199.7410, 99.9383

 4.7286, 6.2716,  
0.0000

216.6550,  
243.6308, 128.9625

 2.1220, 3.0110,  
0.0000

262.0798,

 0.7011, 1.1375,

293.5206, 163.1235

0.0000

313.4476,  
349.7947, 202.8399

■ 0.0000, 0.0097,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 48.4494, 56.8368,  
17.2211

■ 48.4494, 56.8368,  
17.2211

■ 47.6990, 56.4737,  
13.4643

■ 49.4394, 57.3000,  
22.2276

■ 47.1633, 56.1944,  
10.8438


■ 50.6833, 57.8628,  
28.5771


■ 46.8192, 55.9918,  
9.2317


■ 52.1992, 58.5345,  
36.3583


■ 46.6304, 55.8514,  
8.4377


■ 54.0022, 59.3210,  
45.6511


 46.6006, 55.8268,  
8.3195

 56.1063, 60.2281,  
56.5298

 58.5248, 61.2610,  
69.0635

 61.2700, 62.4246,  
83.3173

 64.3536, 63.7237,  
99.3529

 65.1889, 64.1236,  
103.5490

# Harmonies

## Analogous

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



60.5156, 56.8368, 17.3767



48.4494, 56.8368, 17.2211



39.3437, 56.8368, 25.4782

# Triad

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



48.4494, 56.8368, 17.2211



39.0634, 56.8368, 121.0810



79.6297, 56.8368, 81.5657

# Complementary

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



48.4494, 56.8368, 17.2211



18.2654, 13.2022, 59.3428

# 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.



71.9598, 56.8368, 122.6426



48.4494, 56.8368, 17.2211



48.0098, 56.8368, 150.6350

# Square

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



48.4494, 56.8368, 17.2211



34.4984, 56.8368, 79.9442



60.0056, 56.8368, 151.2943



79.7943, 56.8368, 46.7745



# Rectangle

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



48.4494, 56.8368, 17.2211



35.6623, 56.8368, 37.3542



60.0056, 56.8368, 151.2943



77.7979, 56.8368, 95.3243

# Sweetspot

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



48.4507, 56.8394, 17.2223



88.7242, 97.2851, 76.1578



30.2656, 20.3395, 11.5603



18.8518, 20.7628, 15.5844



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.



48.4507, 56.8394, 17.2223



77.8483, 92.3614, 20.6535



35.6307, 50.5822, 16.6902



12.1455, 13.0800, 11.9640



29.0146, 34.7621, 5.1805



1.4995, 1.7986, 0.2681



# Inverse Universe

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



18.2654, 13.2022, 59.3428



23.7941, 14.2245, 96.0993



25.7650, 16.9498, 59.6709



10.6092, 10.8587, 14.1072



6.8750, 2.7741, 36.1294



0.3574, 0.1485, 1.8648



# Previews

## White Background



This preview shows how the XYZ color 48.4494, 56.8368, 17.2211 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

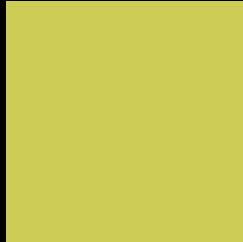
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.4494, 56.8368, 17.2211 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 48.4494, 56.8368, 17.2211**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.4494, 56.8368, 17.2211.



This preview shows how white text looks on a background with the XYZ color 48.4494, 56.8368,



# 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

48.4494, 56.8368, 17.2211

### Protanopia

51.8425, 56.8591, 16.6300

### Deuteranopia

57.6992, 56.5459, 17.5462



## Tritanopia

58.5086, 56.5183, 66.8569

# Trichromacy



## Original Color

48.4494, 56.8368, 17.2211

## Protanomaly

50.5507, 56.8762, 16.9082

## Deuteranomaly

53.7281, 56.1278, 17.4532

## Tritanomaly

53.7914, 56.2703, 42.6765

# Monochromacy



## Original Color

48.4494, 56.8368, 17.2211

## Achromatopsia

49.5206, 52.0996, 56.7364

## Achromatomaly

48.2546, 53.5155, 37.9232

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.4494, 56.8368, 17.2211 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(205, 204, 86)` looks like.

```
.text, #text, p{  
    color:rgb(205, 204, 86)  
}
```

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(205, 204, 86) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(205, 204, 86) }
```

## Border

The CSS property to change the border of an element to XYZ 48.4494, 56.8368, 17.2211 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(205, 204, 86) }
```



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

```
.border{ border-color:rgb(205, 204, 86) }
```

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

Here you see how a box with a 4 pixel `rgb(205, 204, 86)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(205, 204, 86); -webkit-box-  
shadow:4px 4px 4px 4px rgb(205, 204, 86);  
box-shadow:4px 4px 4px 4px rgb(205, 204,  
86) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.4494, 56.8368, 17.2211 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(205, 204, 86) }
```

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

```
.background{ background-color: rgb(205,  
204, 86) }
```

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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