

# Converting Colors

XYZ(38.4088, 46.8365, 20.6691)

Have a look what the booklet for  
XYZ(38.4088, 46.8365, 20.6691)  
contains.

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# Color

**XYZ(38.4705, 46.8662,  
20.6541)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AEBE6A
RGB	174, 190, 106
RGB Percent	68%, 75%, 42%
CMY	0.3176, 0.2549, 0.5843
CMYK	0.08, 0.00, 0.44, 0.25
HSL	71°, 39%, 58%
HSV	71°, 44%, 75%
XYZ	38.4705, 46.8662, 20.6541
YIQ	175.6400, 17.4280, -29.5160

# Conversions

## Conversions Part 2

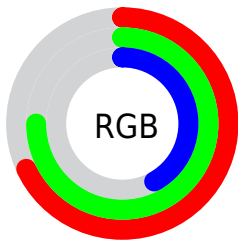
<b>Format</b>	<b>Color</b>
<b>RYB</b>	106, 190, 122
Decimal	11452010
CIELab	74.10, -18.52, 40.44
CIELCh	74, 44.477, 114.612
Yxy	46.8662, 0.3630, 0.4422
Android (android.graphics.Color)	4289642090 (0xFFAE6E6A)
YUV	175.6400, -34.3325, -1.4383
Hunter-Lab	68.4589, -19.4949, 30.0334

# Details

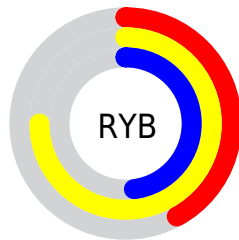
The XYZ color **38.4705, 46.8662, 20.6541** is a light color, and the websafe version is hex **CCCC66**. A complement of this color would be **22.4761, 18.1645, 51.0395**, and the grayscale version is **41.2470, 43.3951, 47.2573**.

A 20% lighter version of the original color is **72.1688, 85.4037, 45.4817**, and **17.4052, 22.1699, 7.1033** is the 20% darker color. If you saturate the color by 10%, you get **36.7946, 46.1056, 15.9772**, and if you desaturate by 10%, it is **40.3894, 47.7298, 26.4870**.

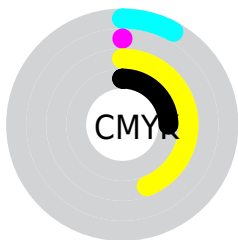
# Distribution



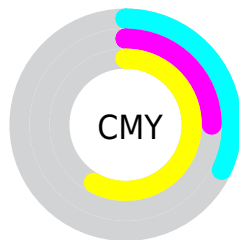
- Red (68%)
- Green (75%)
- Blue (42%)



- Red (42%)
- Yellow (75%)
- Blue (48%)



- Cyan (8%)
- Magenta (0%)
- Yellow (44%)
- Black (25%)



- Cyan (32%)
- Magenta (25%)
- Yellow (58%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.4705, 46.8662, 20.6541 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 38.4705, 46.8662, 20.6541 by changing the saturation by 10% instead.



■ 38.4705, 46.8662,  
20.6541

■ 38.4705, 46.8662,  
20.6541

330.8801,  
374.2802, 268.1549

■ 26.5269, 32.9299,  
12.6826

■ 72.1280, 85.5139,  
45.3844

■ 17.3530, 22.0727,  
7.0822

■ 94.5726, 110.9940,  
62.9804

■ 10.5833, 13.9104,  
3.4343

■ 121.2483,  
141.0909, 84.6216

■ 5.8526, 8.0583,  
1.3205

■ 152.5204,  
176.1889, 110.7265

■ 2.7955, 4.1323,  
0.0785

188.7543,  
216.6725, 141.7138

■ 1.0466, 1.7478,  
0.0000

230.3153,

■ 0.0000, 0.4543,

262.9259, 178.0019

0.0000

277.5687,  
315.3337, 220.0094

■ 0.0000, 0.0000,  
0.0000

■ 38.4705, 46.8662,  
20.6541

■ 38.4705, 46.8662,  
20.6541

■ 36.7946, 46.1056,  
15.9772

■ 40.3894, 47.7298,  
26.4870

■ 35.3435, 45.4357,  
12.3762

■ 42.5612, 48.6955,  
33.5428

■ 34.1017, 44.8520,  
9.7658


■ 44.9996, 49.7704,  
41.8870


■ 33.0501, 44.3469,  
8.0462


■ 47.7160, 50.9591,  
51.5794


■ 32.1657, 43.9110,  
7.0970


■ 50.7214, 52.2659,  
62.6762

 31.7035, 43.6797,  
6.7601

 54.0258, 53.6949,  
75.2304

 57.6391, 55.2501,  
89.2921

 61.0825, 56.7401,  
102.3403

 62.0798, 57.2542,  
102.3869

# Harmonies

## Analogous

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



45.9975, 46.8662, 18.6499



38.4705, 46.8662, 20.6541



33.1971, 46.8662, 29.6232

# Triad

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



38.4705, 46.8662, 20.6541



36.2571, 46.8662, 95.7495



61.5843, 46.8662, 55.2566

# Complementary

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



38.4705, 46.8662, 20.6541



22.4761, 18.1645, 51.0395

# 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.



58.2224, 46.8662, 80.8521



38.4705, 46.8662, 20.6541



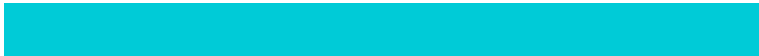
43.1233, 46.8662, 108.2839

# Square

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



38.4705, 46.8662, 20.6541



32.0298, 46.8662, 71.5457



51.2273, 46.8662, 102.1481



59.9573, 46.8662, 34.8659



# Rectangle

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



38.4705, 46.8662, 20.6541



31.3590, 46.8662, 40.2602



51.2273, 46.8662, 102.1481



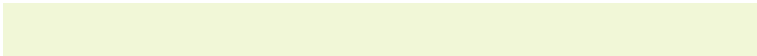
60.9892, 46.8662, 63.5656

# Sweetspot

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



38.4716, 46.8683, 20.6551



82.0106, 90.3922, 77.5461



30.7245, 25.7613, 16.9893



17.7799, 19.7488, 16.2281



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



38.4716, 46.8683, 20.6551



66.7735, 83.5911, 29.2161



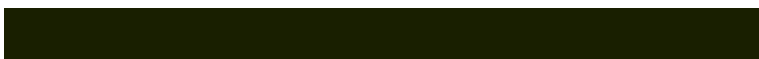
30.6264, 42.8240, 20.2879



10.1392, 11.0262, 10.1705



21.1426, 29.0753, 4.4978



0.8749, 1.1630, 0.1784



# Inverse Universe

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



22.4761, 18.1645, 51.0395



34.1414, 24.9697, 91.2993



29.6362, 21.8557, 51.3745



9.1816, 9.3105, 11.9854



6.7192, 2.7499, 32.5696



0.3151, 0.1345, 1.2782



# Previews

## White Background



This preview shows how the XYZ color 38.4705, 46.8662, 20.6541 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 38.4705, 46.8662, 20.6541 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 38.4705, 46.8662, 20.6541**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.4705, 46.8662, 20.6541.



This preview shows how white text looks on a background with the XYZ color 38.4705, 46.8662,



# 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

38.4705, 46.8662, 20.6541

### Protanopia

42.9955, 46.7145, 19.5827

### Deuteranopia

47.7693, 46.7700, 21.2617



## Tritanopia

46.0664, 46.8518, 57.6543

# Trichromacy



## Original Color

38.4705, 46.8662, 20.6541

## Protanomaly

41.3335, 46.7738, 19.9464

## Deuteranomaly

43.9834, 46.5840, 21.1414

## Tritanomaly

42.7181, 46.7134, 40.9475

# Monochromacy



## Original Color

38.4705, 46.8662, 20.6541

## Achromatopsia

41.2663, 43.4154, 47.2793

## Achromatomaly

39.7890, 44.3961, 35.7504

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.4705, 46.8662, 20.6541 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(174, 190, 106)` looks like.

```
.text, #text, p{  
    color:rgb(174, 190, 106)  
}
```

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(174, 190, 106) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(174, 190, 106) }
```

## Border

The CSS property to change the border of an element to XYZ 38.4705, 46.8662, 20.6541 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(174, 190, 106) }
```



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

```
.border{ border-color:rgb(174, 190, 106) }
```

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

Here you see how a box with a 4 pixel `rgb(174, 190, 106)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(174, 190, 106); -webkit-box-  
shadow:4px 4px 4px 4px rgb(174, 190, 106);  
box-shadow:4px 4px 4px 4px rgb(174, 190,  
106) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.4705, 46.8662, 20.6541 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(174, 190, 106) }
```

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

```
.background{ background-color: rgb(174,  
190, 106) }
```

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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