

# Converting Colors

XYZ(45.5106, 54.7197, 38.4583)

Have a look what the booklet for  
XYZ(45.5106, 54.7197, 38.4583)  
contains.

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# Color

**XYZ(45.4741, 54.8328,  
38.3240)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B1CC99
RGB	177, 204, 153
RGB Percent	69%, 80%, 60%
CMY	0.3059, 0.2000, 0.4000
CMYK	0.13, 0.00, 0.25, 0.20
HSL	92°, 33%, 70%
HSV	92°, 25%, 80%
XYZ	45.4741, 54.8328, 38.3240
YIQ	190.1130, 0.2790, -21.5850

# Conversions

## Conversions Part 2

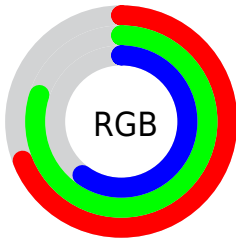
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">153, 204, 180</a>
Decimal	<a href="#">11652249</a>
CIELab	<a href="#">78.94, -18.18, 22.49</a>
CIELCh	<a href="#">79, 28.919, 128.959</a>
Yxy	<a href="#">54.8328, 0.3280, 0.3955</a>
Android (android.graphics.Color)	<a href="#">4289842329 (0xFFB1CC99)</a>
YUV	<a href="#">190.1130, -18.2967, -11.5001</a>
Hunter-Lab	<a href="#">74.0492, -19.9680, 21.1490</a>

# Details

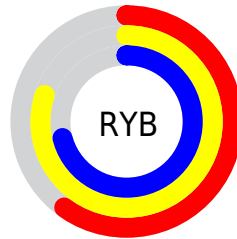
The XYZ color **45.4741, 54.8328, 38.3240** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **41.1150, 36.8469, 62.0750**, and the grayscale version is **49.1119, 51.6696, 56.2681**.

A 20% lighter version of the original color is **80.7494, 93.3977, 73.4461**, and **21.6168, 27.0571, 16.6536** is the 20% darker color. If you saturate the color by 10%, you get **41.5678, 52.9990, 30.0851**, and if you desaturate by 10%, it is **49.8661, 56.8870, 48.0916**.

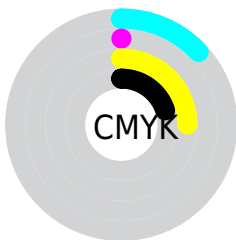
# Distribution



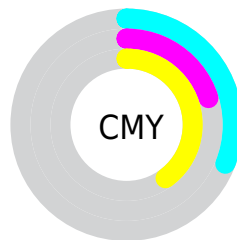
- Red (69%)
- Green (80%)
- Blue (60%)



- Red (60%)
- Yellow (80%)
- Blue (71%)



- Cyan (13%)
- Magenta (0%)
- Yellow (25%)
- Black (20%)




- Cyan (31%)
- Magenta (20%)
- Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.4741, 54.8328, 38.3240 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 45.4741, 54.8328, 38.3240 by changing the saturation by 10% instead.





 45.4741, 54.8328,  
38.3240

 45.4741, 54.8328,  
38.3240


359.4418,  
405.2778, 354.3476

 32.0339, 39.2679,  
25.9305


 82.6641, 97.2959,  
73.8134

 21.5431, 26.9682,  
16.5463


 107.1446,  
124.9629, 97.7463

 13.6363, 17.5493,  
9.7530


136.0359,  
157.4328, 126.3628

 7.9481, 10.6269,  
5.1321

169.7033,  
195.0898, 160.0814

 4.1133, 5.8166,  
2.2649

208.5123,  
238.3184, 199.3207

 1.7664, 2.7339,  
0.7114

252.8281,

 0.4973, 0.9944,

287.5030, 244.4991

0.0000

303.0161,  
343.0280, 296.0352

■ 0.0000, 0.0000,  
0.0000

■ 45.4741, 54.8328,  
38.3240

■ 45.4741, 54.8328,  
38.3240

■ 41.5678, 52.9990,  
30.0851

■ 49.8661, 56.8870,  
48.0916

■ 38.1239, 51.3704,  
23.2940

■ 54.7575, 59.1621,  
59.4563

■ 35.1232, 49.9404,  
17.8678

■ 60.1667, 61.6679,  
72.4864

■ 32.5432, 48.6997,  
13.7135

■ 66.1097, 64.4111,  
87.2456

■ 30.3591, 47.6376,  
10.7268

■ 72.6013, 67.3981,  
103.7904

■ 28.5427, 46.7423,  
8.7866

■ 76.1962, 69.2514,  
103.9586

■ 27.0607, 45.9997,  
7.7455

■ 80.0101, 71.2175,  
104.1371

■ 26.4170, 45.6744,  
7.4237

■ 80.8840, 71.6680,  
104.1780

# Harmonies

## Analogous

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



50.4152, 54.8328, 33.5846



45.4741, 54.8328, 38.3240



42.4702, 54.8328, 49.0483

# Triad

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



45.4741, 54.8328, 38.3240



48.2499, 54.8328, 94.3730



63.8102, 54.8328, 54.9104

# Complementary

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



45.4741, 54.8328, 38.3240



41.1150, 36.8469, 62.0750

# 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.



63.1238, 54.8328, 71.8001



45.4741, 54.8328, 38.3240



53.8565, 54.8328, 96.7315

# Square

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



45.4741, 54.8328, 38.3240



43.9891, 54.8328, 81.8909



59.3771, 54.8328, 87.8432



61.1890, 54.8328, 41.9363



# Rectangle

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



45.4741, 54.8328, 38.3240



41.8323, 54.8328, 59.1306



59.3771, 54.8328, 87.8432



63.9625, 54.8328, 60.2803

# Sweetspot

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



45.4755, 54.8352, 38.3252



88.0750, 96.7638, 92.3298



46.8441, 47.5200, 36.8411



18.5843, 20.5871, 19.1385



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

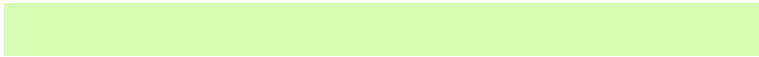


# Same Dimension

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



45.4755, 54.8352, 38.3252



71.7228, 89.1254, 55.8059



40.5516, 52.2887, 38.4626



11.5616, 12.7914, 11.9391



16.7320, 28.8010, 4.6773



0.9506, 1.5308, 0.2454



# Inverse Universe

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



41.1150, 36.8469, 62.0750



63.2847, 54.3208, 101.7572



47.0926, 39.9403, 61.8239



11.1593, 11.1314, 14.1308



10.8617, 4.8069, 36.3116



0.6475, 0.2929, 1.8774



# Previews

## White Background



This preview shows how the XYZ color 45.4741, 54.8328, 38.3240 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

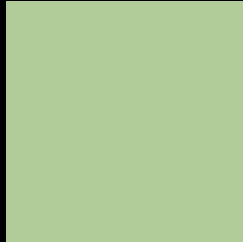
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.4741, 54.8328, 38.3240 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

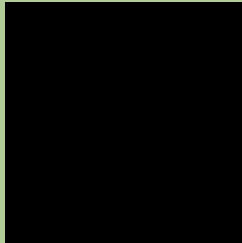
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 45.4741, 54.8328, 38.3240**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.4741, 54.8328, 38.3240.



This preview shows how white text looks on a background with the XYZ color 45.4741, 54.8328,



# 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

45.4741, 54.8328, 38.3240

### Protanopia

51.2344, 54.7554, 36.3023

### Deuteranopia

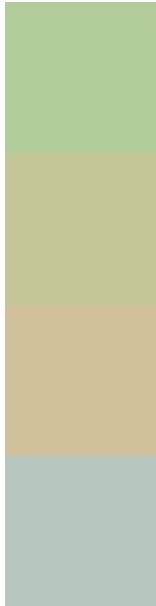
55.4496, 54.2718, 39.0055



## Tritanopia

51.8733, 54.6724, 70.1062

# Trichromacy



## Original Color

45.4741, 54.8328, 38.3240

## Protanomaly

48.7251, 54.4605, 36.7980

## Deuteranomaly

51.2809, 54.0618, 38.7425

## Tritanomaly

49.3558, 54.6757, 57.2424

# Monochromacy



## Original Color

45.4741, 54.8328, 38.3240

## Achromatopsia

48.9429, 51.4918, 56.0745

## Achromatomaly

47.4585, 52.5188, 49.2308

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.4741, 54.8328, 38.3240 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(177, 204, 153)` looks like.

```
.text, #text, p{  
    color:rgb(177, 204, 153)  
}
```

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(177, 204, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 204, 153) }
```

## Border

The CSS property to change the border of an element to XYZ 45.4741, 54.8328, 38.3240 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(177, 204, 153) }
```



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

```
.border{ border-color:rgb(177, 204, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(177, 204, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(177, 204, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(177, 204, 153);  
box-shadow:4px 4px 4px 4px rgb(177, 204,  
153) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.4741, 54.8328, 38.3240 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(177, 204, 153) }
```

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

```
.background{ background-color: rgb(177,  
204, 153) }
```

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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