

# Converting Colors

XYZ(45.5339, 53.0201, 32.2829)

Have a look what the booklet for  
XYZ(45.5339, 53.0201, 32.2829)  
contains.

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# Color

**XYZ(45.3478, 52.8170,  
32.2307)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BBC68B
RGB	187, 198, 139
RGB Percent	73%, 78%, 55%
CMY	0.2667, 0.2235, 0.4549
CMYK	0.06, 0.00, 0.30, 0.22
HSL	71°, 34%, 66%
HSV	71°, 30%, 78%
XYZ	45.3478, 52.8170, 32.2307
YIQ	187.9850, 12.3830, -20.6810

# Conversions

## Conversions Part 2

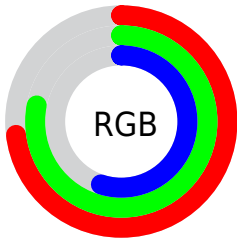
Format	Color
<a href="#">RYB</a>	<a href="#">139, 198, 150</a>
Decimal	<a href="#">12306059</a>
CIELab	<a href="#">77.77, -13.47, 28.38</a>
CIELCh	<a href="#">78, 31.410, 115.390</a>
Yxy	<a href="#">52.8170, 0.3478, 0.4051</a>
Android (android.graphics.Color)	<a href="#">4290496139 (0xFFBBC68B)</a>
YUV	<a href="#">187.9850, -24.1496, -0.8638</a>
Hunter-Lab	<a href="#">72.6753, -15.8017, 24.5782</a>

# Details

The XYZ color **45.3478, 52.8170, 32.2307** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **32.0053, 29.0279, 57.3451**, and the grayscale version is **47.9205, 50.4161, 54.9031**.

A 20% lighter version of the original color is **82.6939, 94.6034, 64.3539**, and **21.4076, 25.6376, 13.0528** is the 20% darker color. If you saturate the color by 10%, you get **43.1387, 51.8322, 25.2472**, and if you desaturate by 10%, it is **47.8449, 53.9234, 40.5976**.

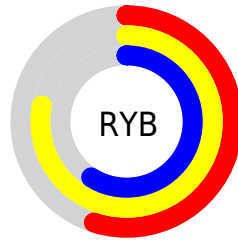
# Distribution



Red (73%)

Green (78%)

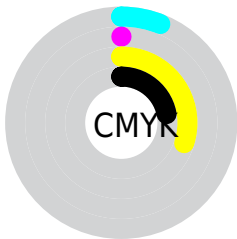
Blue (55%)



Red (55%)

Yellow (78%)

Blue (59%)

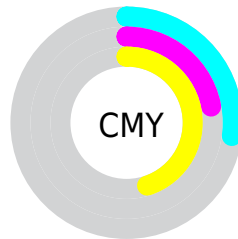


Cyan (6%)

Magenta (0%)

Yellow (30%)

Black (22%)



Cyan (27%)

Magenta (22%)


Yellow (45%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.3478, 52.8170, 32.2307 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 45.3478, 52.8170, 32.2307 by changing the saturation by 10% instead.





 45.3478, 52.8170,  
32.2307


 45.3478, 52.8170,  
32.2307


358.9404,  
397.5826, 326.6939


 31.9339, 37.6567,  
21.2715

 82.4759, 94.3350,  
64.2747

 21.4663, 25.7164,  
13.1294


 106.9209,  
121.4616, 86.1965

 13.5797, 16.6116,  
7.3860


 135.7736,  
153.3456, 112.6097

 7.9087, 9.9579,  
3.6225

169.3993,  
190.3716, 143.9327

 4.0879, 5.3711,  
1.4206

208.1635,  
232.9239, 180.5841

 1.7520, 2.4666,  
0.1577

252.4316,

 0.4885, 0.8598,

281.3869, 222.9824

0.0000

302.5687,  
336.1450, 271.5461

■ 0.0000, 0.0000,  
0.0000

■ 45.3478, 52.8170,  
32.2307

■ 45.3478, 52.8170,  
32.2307

■ 43.1387, 51.8322,  
25.2472

■ 47.8449, 53.9234,  
40.5976

■ 41.1993, 50.9560,  
19.5692

■ 50.6391, 55.1495,  
50.4135

■ 39.5152, 50.1846,  
15.1162

■ 53.7444, 56.5027,  
61.7438

■ 38.0690, 49.5111,  
11.7974

■ 57.1722, 57.9878,  
74.6491

■ 36.8410, 48.9273,  
9.5096

■ 60.9337, 59.6090,  
89.1864

■ 35.8077, 48.4241,  
8.1307

■ 64.5844, 61.1887,  
103.0144

■ 34.9256, 47.9839,  
7.4325

■ 65.6425, 61.7342,  
103.0639

■ 34.9084, 47.9753,  
7.4203

■ 66.7250, 62.2922,  
103.1146

■ 67.8320, 62.8629,  
103.1664

# Harmonies

## Analogous

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



51.1475, 52.8170, 30.1500



45.3478, 52.8170, 32.2307



41.1710, 52.8170, 40.4936

# Triad

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



45.3478, 52.8170, 32.2307



43.8423, 52.8170, 89.7438



62.7944, 52.8170, 60.2450

# Complementary

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



45.3478, 52.8170, 32.2307



32.0053, 29.0279, 57.3451

# Split Complementary

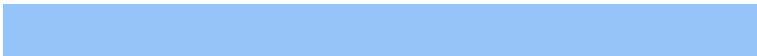
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



60.4633, 52.8170, 78.7259



45.3478, 52.8170, 32.2307



49.2662, 52.8170, 97.8086

# Square

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



45.3478, 52.8170, 32.2307



40.3523, 52.8170, 73.1121



55.3886, 52.8170, 93.4172



61.5344, 52.8170, 44.3001



# Rectangle

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



45.3478, 52.8170, 32.2307



39.7056, 52.8170, 49.4614



55.3886, 52.8170, 93.4172



62.3998, 52.8170, 66.3848

# Sweetspot

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



45.3491, 52.8193, 32.2318



90.0153, 97.8062, 90.5154



38.8278, 35.6256, 29.2568



19.1021, 20.8625, 18.7834



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

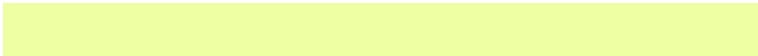


# Same Dimension

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



45.3491, 52.8193, 32.2318



77.6080, 92.3277, 48.4750



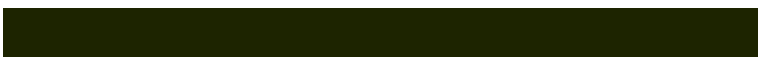
38.8944, 49.4918, 31.9297



11.3225, 12.3132, 11.3427



22.7681, 31.2327, 4.8285



1.1297, 1.5055, 0.2310



# Inverse Universe

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



32.0053, 29.0279, 57.3451



50.0800, 43.2274, 100.3120



38.0911, 32.1652, 57.6299



10.2382, 10.3811, 13.3816



7.1771, 2.9342, 34.9324



0.3972, 0.1685, 1.6567



# Previews

## White Background



This preview shows how the XYZ color 45.3478, 52.8170, 32.2307 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 45.3478, 52.8170, 32.2307 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 45.3478, 52.8170, 32.2307**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.3478, 52.8170, 32.2307.



This preview shows how white text looks on a background with the XYZ color 45.3478, 52.8170,



# 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

45.3478, 52.8170, 32.2307

### Protanopia

49.0257, 52.7422, 30.8889

### Deuteranopia

53.7015, 52.5649, 32.9068



## Tritanopia

52.1979, 52.9705, 65.2308

# Trichromacy



## Original Color

45.3478, 52.8170, 32.2307

## Protanomaly

47.6266, 52.6691, 31.3229

## Deuteranomaly

50.1567, 52.3153, 32.6536

## Tritanomaly

49.4028, 52.8136, 51.3063

# Monochromacy



## Original Color

45.3478, 52.8170, 32.2307

## Achromatopsia

47.7994, 50.2886, 54.7643

## Achromatomaly

46.8444, 51.2929, 45.4618

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.3478, 52.8170, 32.2307 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(187, 198, 139)` looks like.

```
.text, #text, p{  
    color:rgb(187, 198, 139)  
}
```

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(187, 198, 139) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 198, 139) }
```

## Border

The CSS property to change the border of an element to XYZ 45.3478, 52.8170, 32.2307 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(187, 198, 139) }
```



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

```
.border{ border-color:rgb(187, 198, 139) }
```

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

Here you see how a box with a 4 pixel rgb(187, 198, 139) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 198, 139); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 198, 139);  
box-shadow:4px 4px 4px 4px rgb(187, 198,  
139) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.3478, 52.8170, 32.2307 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 198, 139) }
```

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

```
.background{ background-color: rgb(187,  
198, 139) }
```

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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