

# Converting Colors

XYZ(39.6331, 45.5485, 15.6573)

Have a look what the booklet for  
XYZ(39.6331, 45.5485, 15.6573)  
contains.

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# Color

**XYZ(39.8471, 45.7879,  
15.7546)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BDB857
RGB	189, 184, 87
RGB Percent	74%, 72%, 34%
CMY	0.2588, 0.2784, 0.6588
CMYK	0.00, 0.03, 0.54, 0.26
HSL	57°, 44%, 54%
HSV	57°, 54%, 74%
XYZ	39.8471, 45.7879, 15.7546
YIQ	174.4370, 34.1170, -29.1070

# Conversions

## Conversions Part 2

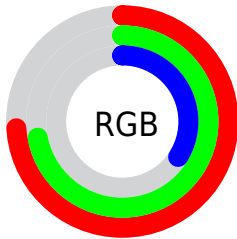
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	92, 189, 87
Decimal	12433495
CIE <sub>Lab</sub>	73.41, -11.16, 49.15
CIE <sub>LCh</sub>	73, 50.405, 102.794
Yxy	45.7879, 0.3930, 0.4516
Android (android.graphics.Color)	4290623575 (0xFFBDB857)
YUV	174.4370, -43.1064, 12.7718
Hunter-Lab	67.6668, -13.3031, 33.5625

# Details

The XYZ color **39.8471, 45.7879, 15.7546** is a light color, and the websafe version is hex **CCCC66**. A complement of this color would be **16.9430, 13.3544, 49.8288**, and the grayscale version is **40.6608, 42.7783, 46.5856**.

A 20% lighter version of the original color is **74.2515, 83.9878, 37.1087**, and **18.0925, 21.3405, 4.7557** is the 20% darker color. If you saturate the color by 10%, you get **38.9827, 45.1372, 12.1430**, and if you desaturate by 10%, it is **40.9172, 46.5263, 20.4331**.

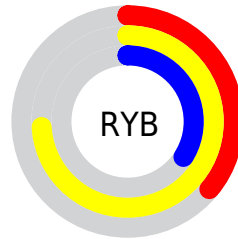
# Distribution



Red (74%)

Green (72%)

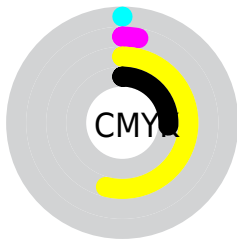
Blue (34%)



Red (36%)

Yellow (74%)

Blue (34%)

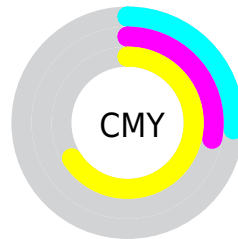


Cyan (0%)

Magenta (3%)

Yellow (54%)

Black (26%)



Cyan (26%)

Magenta (28%)

Yellow (66%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 39.8471, 45.7879, 15.7546 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 39.8471, 45.7879, 15.7546 by changing the saturation by 10% instead.



■ 39.8471, 45.7879,  
15.7546

■ 39.8471, 45.7879,  
15.7546

336.6242,  
369.9553, 239.6853

■ 27.6030, 32.0785,  
9.1982

■ 74.2164, 83.9015,  
36.9325

■ 18.1656, 21.4215,  
4.7721

■ 97.0724, 109.0744,  
52.3911

■ 11.1693, 13.4324,  
2.0578

■ 124.1964,  
138.8374, 71.6541

■ 6.2490, 7.7270,  
0.5905

■ 155.9538,  
173.5746, 95.1402

■ 3.0391, 3.9207,  
0.0000

192.7099,  
213.6707, 123.2678

■ 1.1745, 1.6293,  
0.0000

234.8301,

■ 0.0861, 0.3773,

259.5099, 156.4555

0.0000

282.6798,  
311.4766, 195.1218

■ 0.0000, 0.0000,  
0.0000

■ 39.8471, 45.7879,  
15.7546

■ 39.8471, 45.7879,  
15.7546

■ 38.9827, 45.1372,  
12.1430

■ 40.9172, 46.5263,  
20.4331

■ 38.3044, 44.5612,  
9.5105

■ 42.2039, 47.3517,  
26.2514

■ 37.7948, 44.0548,  
7.7601

■ 43.7216, 48.2714,  
33.2795

■ 37.4315, 43.6088,  
6.7735

■ 45.4823, 49.2904,  
41.5808

■ 37.2559, 43.3582,  
6.4054

■ 47.4971, 50.4131,  
51.2143

■ 49.7767, 51.6437,  
62.2354

■ 52.3308, 52.9862,  
74.6962

■ 55.1689, 54.4443,  
88.6462

■ 57.9596, 55.8854,  
102.3399

# Harmonies

## Analogous

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



48.7695, 45.7879, 16.2111



39.8471, 45.7879, 15.7546



32.9193, 45.7879, 21.8902

# Triad

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



39.8471, 45.7879, 15.7546



32.1534, 45.7879, 91.0067



61.9551, 45.7879, 65.7667

# Complementary

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



39.8471, 45.7879, 15.7546



16.9430, 13.3544, 49.8288

# 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.



56.1824, 45.7879, 95.0421



39.8471, 45.7879, 15.7546



38.6615, 45.7879, 112.6834

# Square

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



39.8471, 45.7879, 15.7546



28.9012, 45.7879, 61.4879



47.4120, 45.7879, 114.3703



62.3868, 45.7879, 39.7908



# Rectangle

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



39.8471, 45.7879, 15.7546



30.0310, 45.7879, 30.6718



47.4120, 45.7879, 114.3703



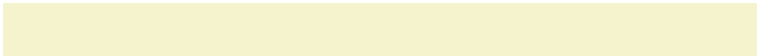
60.5423, 45.7879, 75.7240

# Sweetspot

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



39.8482, 45.7900, 15.7555



80.6976, 87.8454, 70.8610



26.3309, 18.4101, 12.3145



17.2110, 18.8087, 14.5638



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



39.8482, 45.7900, 15.7555



69.5397, 80.6160, 20.6320



31.2632, 42.9320, 15.6564



10.2811, 11.0382, 10.1654



25.0837, 29.2062, 4.3153



0.9950, 1.1688, 0.1732



# Inverse Universe

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



16.9430, 13.3544, 49.8288



24.2152, 16.4555, 88.1262



22.2510, 15.4695, 49.9572



9.0530, 9.2983, 11.9898



6.2642, 2.6401, 32.5723



0.2583, 0.1294, 1.2802



# Previews

## White Background



This preview shows how the XYZ color 39.8471, 45.7879, 15.7546 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 39.8471, 45.7879, 15.7546 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

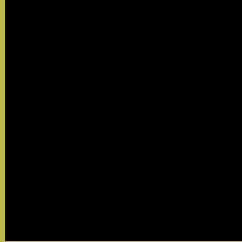
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 39.8471, 45.7879, 15.7546**

## **Background**



This preview shows how black text looks on a background with the XYZ color 39.8471, 45.7879, 15.7546.



This preview shows how white text looks on a background with the XYZ color 39.8471, 45.7879,



# 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

39.8471, 45.7879, 15.7546

### Protanopia

41.8204, 45.5938, 15.4004

### Deuteranopia

46.7222, 45.7728, 16.0454



## Tritanopia

47.4664, 45.6171, 53.3169

# Trichromacy



## Original Color

39.8471, 45.7879, 15.7546

## Protanomaly

40.9685, 45.4554, 15.4186

## Deuteranomaly

43.9068, 45.4736, 15.9143

## Tritanomaly

43.8137, 45.2807, 35.7090

# Monochromacy



## Original Color

39.8471, 45.7879, 15.7546

## Achromatopsia

40.2316, 42.3268, 46.0938

## Achromatomaly

39.3933, 43.3775, 31.8876

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 39.8471, 45.7879, 15.7546 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(189, 184, 87)` looks like.

```
.text, #text, p{  
    color:rgb(189, 184, 87)  
}
```

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(189, 184, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 184, 87) }
```

## Border

The CSS property to change the border of an element to XYZ 39.8471, 45.7879, 15.7546 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(189, 184, 87) }
```



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

```
.border{ border-color:rgb(189, 184, 87) }
```

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

Here you see how a box with a 4 pixel rgb(189, 184, 87) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 184, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 184, 87);  
box-shadow:4px 4px 4px 4px rgb(189, 184,  
87) }
```

# Background

The CSS property to change the background color of an element to XYZ 39.8471, 45.7879, 15.7546 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 184, 87) }
```

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

```
.background{ background-color: rgb(189,  
184, 87) }
```

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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