

# Converting Colors

XYZ(40.0776, 45.6101, 19.0032)

Have a look what the booklet for  
XYZ(40.0776, 45.6101, 19.0032)  
contains.

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# Color

**XYZ(40.0215, 45.4979,  
18.9845)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BCB765
RGB	188, 183, 101
RGB Percent	74%, 72%, 40%
CMY	0.2627, 0.2823, 0.6039
CMYK	0.00, 0.03, 0.46, 0.26
HSL	57°, 39%, 57%
HSV	57°, 46%, 74%
XYZ	40.0215, 45.4979, 18.9845
YIQ	175.1470, 29.3020, -24.4420

# Conversions

## Conversions Part 2

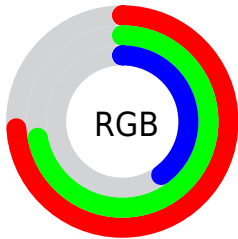
<b>Format</b>	<b>Color</b>
<b>RYB</b>	106, 188, 101
Decimal	12367717
CIELab	73.22, -9.80, 42.09
CIELCh	73, 43.219, 103.107
Yxy	45.4979, 0.3830, 0.4354
Android (android.graphics.Color)	4290557797 (0xFFBCB765)
YUV	175.1470, -36.5545, 11.2721
Hunter-Lab	67.4521, -12.1315, 30.5292

# Details

The XYZ color **40.0215, 45.4979, 18.9845** is a light color, and the websafe version is hex **CCCC66**. A complement of this color would be **19.5979, 16.7052, 49.7684**, and the grayscale version is **40.9974, 43.1325, 46.9713**.

A 20% lighter version of the original color is **74.7053, 83.6589, 42.7822**, and **18.2530, 21.1908, 6.2602** is the 20% darker color. If you saturate the color by 10%, you get **38.9824, 44.7290, 14.6020**, and if you desaturate by 10%, it is **41.2752, 46.3587, 24.4791**.

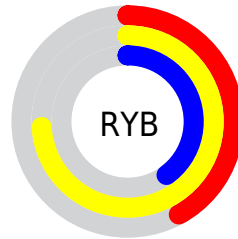
# Distribution



Red (74%)

Green (72%)

Blue (40%)



Red (42%)

Yellow (74%)

Blue (40%)

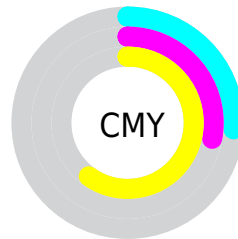


Cyan (0%)

Magenta (3%)

Yellow (46%)

Black (26%)



Cyan (26%)

Magenta (28%)

Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.0215, 45.4979, 18.9845 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 40.0215, 45.4979, 18.9845 by changing the saturation by 10% instead.



■ 40.0215, 45.4979,  
18.9845

■ 40.0215, 45.4979,  
18.9845

337.3470,  
368.7863, 258.7831

■ 27.7396, 31.8498,  
11.4824

■ 74.4804, 83.4671,  
42.5443

■ 18.2689, 21.2468,  
6.2740

■ 97.3881, 108.5569,  
59.4390

■ 11.2441, 13.3045,  
2.9410

■ 124.5684,  
138.2294, 80.3016

■ 6.2998, 7.6386,  
1.0646

■ 156.3867,  
172.8691, 105.5508

■ 3.0706, 3.8646,  
0.0000

193.2084,  
212.8602, 135.6050

■ 1.1912, 1.5981,  
0.0000

235.3988,

■ 0.0994, 0.3563,

258.5871, 170.8827

0.0000

283.3232,  
310.4344, 211.8026

■ 0.0000, 0.0000,  
0.0000

■ 40.0215, 45.4979,  
18.9845

■ 40.0215, 45.4979,  
18.9845

■ 38.9824, 44.7290,  
14.6020

■ 41.2752, 46.3587,  
24.4791

■ 38.1401, 44.0399,  
11.2521

■ 42.7534, 47.3103,  
31.1524

■ 37.4792, 43.4262,  
8.8494


■ 44.4694, 48.3598,  
39.0692


■ 36.9808, 42.8800,  
7.2933


■ 46.4344, 49.5116,  
48.2886


■ 36.6199, 42.3917,  
6.4534


■ 48.6588, 50.7700,  
58.8661

 36.5019, 42.2170,  
6.2248

 51.1527, 52.1390,  
70.8537

 53.9254, 53.6222,  
84.3011

 56.9858, 55.2233,  
99.2552

 57.7971, 55.9275,  
102.3566

# Harmonies

## Analogous

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



47.6209, 45.4979, 19.3636



40.0215, 45.4979, 18.9845



34.0264, 45.4979, 24.8799

# Triad

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



40.0215, 45.4979, 18.9845



33.4493, 45.4979, 83.9040



58.7495, 45.4979, 62.6906

# Complementary

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



40.0215, 45.4979, 18.9845



19.5979, 16.7052, 49.7684

# 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.



53.9928, 45.4979, 86.7057



40.0215, 45.4979, 18.9845



39.1446, 45.4979, 101.1983

# Square

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



40.0215, 45.4979, 18.9845



30.5417, 45.4979, 59.6251



46.6358, 45.4979, 102.3519



59.0557, 45.4979, 40.6606



# Rectangle

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



40.0215, 45.4979, 18.9845



31.5008, 45.4979, 32.9508



46.6358, 45.4979, 102.3519



57.5947, 45.4979, 70.9288

# Sweetspot

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



40.0226, 45.5000, 18.9854



81.2856, 88.0568, 74.0307



28.0364, 21.0565, 16.4420



17.3232, 18.8428, 15.1885



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.



40.0226, 45.5000, 18.9854



70.5415, 80.9804, 26.0200



32.9654, 43.4187, 18.9557



10.2741, 11.0241, 10.1630



24.8712, 28.7813, 4.2445



0.9886, 1.1562, 0.1711



# Inverse Universe

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



19.5979, 16.7052, 49.7684



28.7977, 22.1453, 88.9829



24.3286, 18.4019, 49.8466



9.0593, 9.3109, 11.9919



6.2787, 2.6691, 32.5772



0.2612, 0.1350, 1.2811



# Previews

## White Background



This preview shows how the XYZ color 40.0215, 45.4979, 18.9845 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

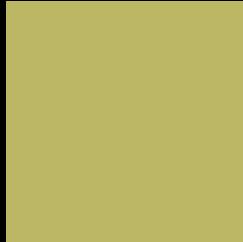
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.0215, 45.4979, 18.9845 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

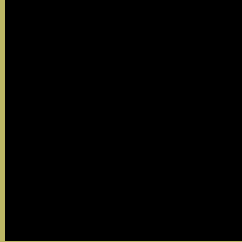
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 40.0215, 45.4979, 18.9845

## Background



This preview shows how black text looks on a background with the XYZ color 40.0215, 45.4979, 18.9845.



This preview shows how white text looks on a background with the XYZ color 40.0215, 45.4979,



# 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

40.0215, 45.4979, 18.9845

### Protanopia

41.9102, 45.5684, 18.6433

### Deuteranopia

46.2750, 45.1854, 19.3794



## Tritanopia

46.9392, 45.3453, 53.2923

# Trichromacy



## Original Color

40.0215, 45.4979, 18.9845

## Protanomaly

41.0723, 45.4372, 18.6621

## Deuteranomaly

43.7906, 45.0491, 19.2193

## Tritanomaly

43.9710, 45.3139, 37.8814

# Monochromacy



## Original Color

40.0215, 45.4979, 18.9845

## Achromatopsia

40.7470, 42.8690, 46.6844

## Achromatomaly

40.0881, 43.6822, 34.3356

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.0215, 45.4979, 18.9845 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(188, 183, 101)` looks like.

```
.text, #text, p{  
    color:rgb(188, 183, 101)  
}
```

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(188, 183, 101) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(188, 183, 101) }
```

## Border

The CSS property to change the border of an element to XYZ 40.0215, 45.4979, 18.9845 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(188, 183, 101) }
```



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

```
.border{ border-color:rgb(188, 183, 101) }
```

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

Here you see how a box with a 4 pixel rgb(188, 183, 101) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(188, 183, 101); -webkit-box-  
shadow:4px 4px 4px 4px rgb(188, 183, 101);  
box-shadow:4px 4px 4px 4px rgb(188, 183,  
101) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.0215, 45.4979, 18.9845 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(188, 183, 101) }
```

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

```
.background{ background-color: rgb(188,  
183, 101) }
```

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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