

# Converting Colors

XYZ(41.4077, 45.8491, 6.6673)

Have a look what the booklet for  
XYZ(41.4077, 45.8491, 6.6673)  
contains.

<b>XYZ(41.4257, 45.8851, 6.6733)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(41.4257, 45.8851,  
6.6733)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CCB500
RGB	204, 181, 0
RGB Percent	80%, 71%, 0%
CMY	0.2000, 0.2902, 0.9999
CMYK	0.00, 0.11, 1.00, 0.20
HSL	53°, 100%, 40%
HSV	53°, 100%, 80%
XYZ	41.4257, 45.8851, 6.6733
YIQ	167.2430, 71.8090, -51.4150

# Conversions

## Conversions Part 2

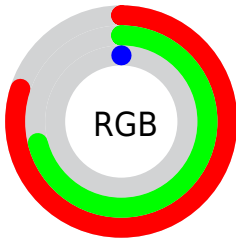
Format	Color
RYB	26, 204, 0
Decimal	13415680
CIELab	73.47, -6.56, 75.41
CIELCh	73, 75.691, 94.969
Yxy	45.8851, 0.4408, 0.4882
Android (android.graphics.Color)	4291605760 (0xFFCCB500)
YUV	167.2430, -82.4508, 32.2359
Hunter-Lab	67.7385, -9.3803, 41.5760

# Details

The XYZ color **41.4257, 45.8851, 6.6733** is a dark color, and the websafe version is hex **CCCC33**. The color can be described as dark washed orange. A complement of this color would be **11.2058, 4.9729, 57.4955**, and the grayscale version is **37.2165, 39.1546, 42.6394**.

A 20% lighter version of the original color is **72.6834, 81.8301, 19.5534**, and **19.5273, 21.7203, 3.1632** is the 20% darker color. If you saturate the color by 10%, you get **41.4262, 45.8865, 6.6736**, and if you desaturate by 10%, it is **42.0281, 46.8823, 7.5155**.

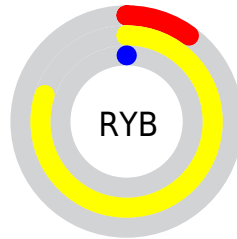
# Distribution



Red (80%)

Green (71%)

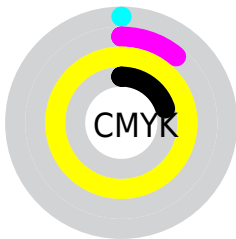
Blue (0%)



Red (10%)

Yellow (80%)

Blue (0%)

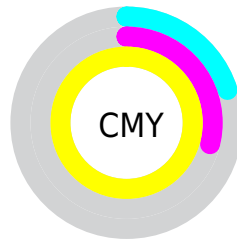


Cyan (0%)

Magenta (11%)

Yellow (100%)

Black (20%)



Cyan (20%)

Magenta (29%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.4257, 45.8851, 6.6733 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 41.4257, 45.8851, 6.6733 by changing the saturation by 10% instead.





 41.4257, 45.8851,  
6.6733


 41.4257, 45.8851,  
6.6733


343.1290,  
370.3465, 174.4474


 28.8410, 32.1552,  
3.1833


 76.6003, 84.0470,  
19.8144

 19.1043, 21.4800,  
1.1890


 99.9210, 109.2478,  
30.3027

 11.8501, 13.4753,  
0.0000


 127.5510,  
139.0409, 43.9608

 6.7132, 7.7567,  
0.0000

 159.8557,  
173.8109, 61.2072

 3.3281, 3.9397,  
0.0000

 197.2005,  
213.9420, 82.4605

 1.3295, 1.6399,  
0.0000

 239.9508,

 0.2052, 0.3843,

259.8188, 108.1393

0.0000

288.4718,  
311.8255, 138.6621

■ 0.0000, 0.0000,  
0.0000

■ 41.4257, 45.8851,  
6.6733

■ 41.4257, 45.8851,  
6.6733

■ 41.4262, 45.8865,  
6.6736

■ 42.0281, 46.8823,  
7.5155

■ 42.7744, 47.9476,  
9.0815

■ 43.7126, 49.1021,  
11.6194

■ 44.8677, 50.3559,  
15.2614

■ 46.2611, 51.7176,  
20.1191

■ 47.9114, 53.1947,  
26.2905

■ 49.8352, 54.7940,  
33.8636

■ 52.0480, 56.5215,  
42.9188

■ 54.5638, 58.3831,  
53.5303

# Harmonies

## Analogous

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



55.4046, 45.8851, 8.5602



41.4257, 45.8851, 6.6733



30.4883, 45.8851, 10.6795

# Triad

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



41.4257, 45.8851, 6.6733



25.7724, 45.8851, 105.0758



71.2628, 45.8851, 87.9846

# Complementary

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



41.4257, 45.8851, 6.6733



11.2058, 4.9729, 57.4955

# 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.



60.0477, 45.8851, 137.7063



41.4257, 45.8851, 6.6733



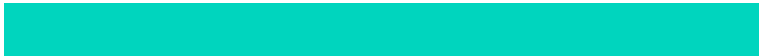
33.6247, 45.8851, 150.6127

# Square

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



41.4257, 45.8851, 6.6733



22.7059, 45.8851, 56.6059



45.8748, 45.8851, 164.8780



74.5232, 45.8851, 43.8577



# Rectangle

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



41.4257, 45.8851, 6.6733



25.7835, 45.8851, 18.5198



45.8748, 45.8851, 164.8780



68.1999, 45.8851, 105.1823

# Sweetspot

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



41.4267, 45.8873, 6.6742



82.3966, 90.6353, 55.5348



25.0648, 12.9028, 2.0235



17.3345, 19.1529, 10.6863



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.



41.4267, 45.8873, 6.6742



68.5058, 75.7917, 11.0186



30.1684, 47.6063, 7.5994



12.0417, 12.8723, 11.9294



26.1175, 28.9679, 4.2148



1.3788, 1.5574, 0.2279



# Inverse Universe

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



11.2058, 4.9729, 57.4955



18.4831, 8.0863, 95.1944



14.0583, 5.9886, 57.5412



10.7019, 11.0442, 14.1381



7.0876, 3.1991, 36.2002

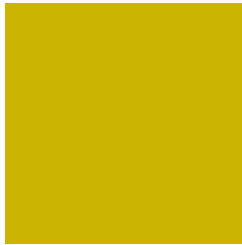


0.4007, 0.2352, 1.8792



# Previews

## White Background



This preview shows how the XYZ color 41.4257, 45.8851, 6.6733 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

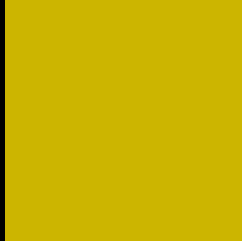
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 41.4257, 45.8851, 6.6733 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 41.4257, 45.8851, 6.6733**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.4257, 45.8851, 6.6733.



This preview shows how white text looks on a background with the XYZ color 41.4257, 45.8851,



# 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

41.4257, 45.8851, 6.6733

### Protanopia

41.4312, 45.8873, 6.7022

### Deuteranopia

46.7125, 45.6817, 7.1660



## Tritanopia

50.0747, 45.6376, 49.8858

# Trichromacy



## Original Color

41.4257, 45.8851, 6.6733

## Protanomaly

41.4312, 45.8873, 6.7022

## Deuteranomaly

44.6296, 45.7545, 6.9312

## Tritanomaly

44.6164, 44.8266, 22.5205

# Monochromacy



## Original Color

41.4257, 45.8851, 6.6733

## Achromatopsia

36.7301, 38.6429, 42.0822

## Achromatomaly

36.1764, 40.2490, 19.4978

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.4257, 45.8851, 6.6733 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(204, 181, 0)` looks like.

```
.text, #text, p{  
    color:rgb(204, 181, 0)  
}
```

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(204, 181, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 181, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 41.4257, 45.8851, 6.6733 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(204, 181, 0) }
```



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

```
.border{ border-color:rgb(204, 181, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 181, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 181, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 181, 0);  
box-shadow:4px 4px 4px 4px rgb(204, 181,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.4257, 45.8851, 6.6733 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 181, 0) }
```

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

```
.background{ background-color: rgb(204,  
181, 0) }
```

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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