

# Converting Colors

XYZ(49.9020, 51.3192, 45.8041)

Have a look what the booklet for  
XYZ(49.9020, 51.3192, 45.8041)  
contains.

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# Color

**XYZ(49.7496, 51.1774,  
45.7842)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CBBBAB
RGB	203, 187, 171
RGB Percent	80%, 73%, 67%
CMY	0.2039, 0.2666, 0.3294
CMYK	0.00, 0.08, 0.16, 0.20
HSL	30°, 24%, 73%
HSV	30°, 16%, 80%
XYZ	49.7496, 51.1774, 45.7842
YIQ	189.9600, 14.6720, -1.5840

# Conversions

## Conversions Part 2

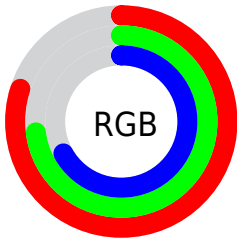
Format	Color
<a href="#">RYB</a>	<a href="#">203, 203, 171</a>
Decimal	<a href="#">13351851</a>
CIELab	<a href="#">76.79, 3.01, 10.14</a>
CIElCh	<a href="#">77, 10.578, 73.462</a>
Yxy	<a href="#">51.1774, 0.3391, 0.3488</a>
Android (android.graphics.Color)	<a href="#">4291541931</a> ( <a href="#">0xFFCBBBAB</a> )
YUV	<a href="#">189.9600, -9.3473, 11.4361</a>
Hunter-Lab	<a href="#">71.5384, -1.0588, 12.1316</a>

# Details

The XYZ color **49.7496, 51.1774, 45.7842** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **45.3442, 48.5094, 63.4737**, and the grayscale version is **48.9678, 51.5180, 56.1031**.

A 20% lighter version of the original color is **87.0181, 90.8522, 84.9014**, and **24.2493, 24.7717, 20.9561** is the 20% darker color. If you saturate the color by 10%, you get **45.8845, 46.3092, 35.6713**, and if you desaturate by 10%, it is **54.0669, 56.4733, 57.5151**.

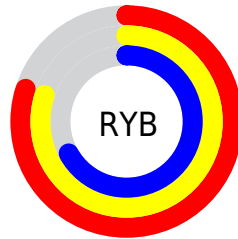
# Distribution



Red (80%)

Green (73%)

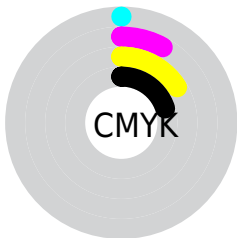
Blue (67%)



Red (80%)

Yellow (80%)

Blue (67%)

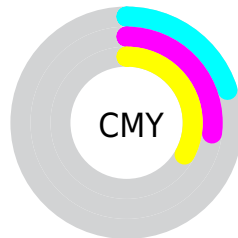


Cyan (0%)

Magenta (8%)

Yellow (16%)

Black (20%)



Cyan (20%)

Magenta (27%)

Yellow (33%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.7496, 51.1774, 45.7842 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 49.7496, 51.1774, 45.7842 by changing the saturation by 10% instead.




 49.7496, 51.1774,  
45.7842

 49.7496, 51.1774,  
45.7842


376.1541,  
391.2526, 386.1927

 35.4315, 36.3498,  
31.7281


 88.9978, 91.9169,  
85.2268

 24.1635, 24.7045,  
20.8908


114.6586,  
118.5977, 111.4504

 15.5803, 15.8570,  
12.8538


144.8310,  
149.9983, 142.5670

 9.3166, 9.4230,  
7.1984

179.8803,  
186.5031, 178.9950

 5.0070, 5.0181,  
3.5062

220.1719,  
228.4966, 221.1531

 2.2862, 2.2579,  
1.3585

266.0712,

 0.7876, 0.7513,

276.3630, 269.4597

0.1091

317.9435,  
330.4869, 324.3334

0.0000, 0.0000,  
0.0000

49.7496, 51.1774,  
45.7842

49.7496, 51.1774,  
45.7842

45.8845, 46.3092,  
35.6713

54.0669, 56.4733,  
57.5151

42.4507, 41.8503,  
27.1011

58.8478, 62.2012,  
70.9286

39.4318, 37.7907,  
19.9968

64.1087, 68.3740,  
86.0893

36.8087, 34.1172,  
14.2738

69.8637, 75.0020,  
103.0578

34.5604, 30.8162,  
9.8387

73.1785, 80.9160,  
106.3692

■ 32.6636, 27.8723,  
6.5864

■ 76.2125, 86.9841,  
107.3805

■ 31.0915, 25.2691,  
4.3947

■ 78.4388, 91.4366,  
108.1226

■ 29.8119, 22.9873,  
3.1127

■ 29.3336, 22.1062,  
2.7209

# Harmonies

## Analogous

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



51.4983, 51.1774, 48.4603



49.7496, 51.1774, 45.7842



47.7496, 51.1774, 45.6496

# Triad

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



49.7496, 51.1774, 45.7842



44.9846, 51.1774, 58.3366



51.3462, 51.1774, 64.1382

# Complementary

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



49.7496, 51.1774, 45.7842



45.3442, 48.5094, 63.4737

# 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.



49.5467, 51.1774, 67.1801



49.7496, 51.1774, 45.7842



45.8945, 51.1774, 63.6784

# Square

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



49.7496, 51.1774, 45.7842



45.0355, 51.1774, 52.6357



47.5521, 51.1774, 67.0062



52.4373, 51.1774, 58.9298



# Rectangle

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



49.7496, 51.1774, 45.7842



46.5453, 51.1774, 47.0009



47.5521, 51.1774, 67.0062



50.8020, 51.1774, 65.4636

# Sweetspot

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



49.7510, 51.1797, 45.7853



91.0650, 95.2066, 97.7785



48.1617, 45.4109, 53.2411



19.3752, 20.2371, 20.6066



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

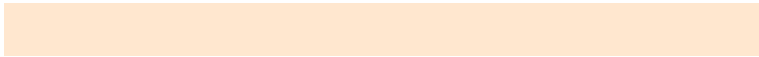


# Same Dimension

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



49.7510, 51.1797, 45.7853



80.9621, 82.7722, 70.4529



53.3357, 58.3491, 46.9802



11.6681, 12.1251, 11.8048



18.7588, 14.2505, 1.7619



1.0437, 0.8870, 0.1162

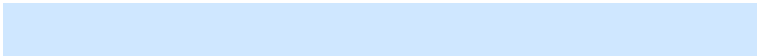


# Inverse Universe

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



45.3442, 48.5094, 63.4737



72.1679, 77.4434, 105.7521



42.1376, 42.0963, 62.4049



11.0573, 11.7550, 14.2565



9.9422, 8.9083, 37.1517

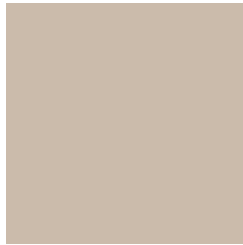


0.5888, 0.6114, 1.9419



# Previews

## White Background



This preview shows how the XYZ color 49.7496, 51.1774, 45.7842 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 49.7496, 51.1774, 45.7842 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

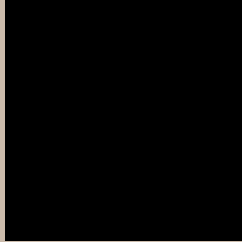
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 49.7496, 51.1774, 45.7842

## Background



This preview shows how black text looks on a background with the XYZ color 49.7496, 51.1774, 45.7842.



This preview shows how white text looks on a background with the XYZ color 49.7496, 51.1774,

45.7842.

# 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

49.7496, 51.1774, 45.7842

### Protanopia

48.6699, 51.2441, 46.3556

### Deuteranopia

52.1114, 51.1417, 46.1545



## Tritanopia

52.4651, 51.0200, 59.9060

# Trichromacy



## Original Color

49.7496, 51.1774, 45.7842

## Protanomaly

48.9828, 51.0871, 46.3089

## Deuteranomaly

51.1652, 50.9612, 46.1695

## Tritanomaly

51.3944, 50.8910, 54.6911

# Monochromacy



## Original Color

49.7496, 51.1774, 45.7842

## Achromatopsia

48.9429, 51.4918, 56.0745

## Achromatomaly

49.2505, 51.4162, 52.1283

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.7496, 51.1774, 45.7842 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(203, 187, 171)` looks like.

```
.text, #text, p{  
    color:rgb(203, 187, 171)  
}
```

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(203, 187, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 187, 171) }
```

## Border

The CSS property to change the border of an element to XYZ 49.7496, 51.1774, 45.7842 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(203, 187, 171) }
```



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

```
.border{ border-color:rgb(203, 187, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(203, 187, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(203, 187, 171); -webkit-box-shadow:4px 4px 4px 4px rgb(203, 187, 171); box-shadow:4px 4px 4px 4px rgb(203, 187, 171) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.7496, 51.1774, 45.7842 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 187, 171) }
```

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

```
.background{ background-color: rgb(203,  
187, 171) }
```

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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