

# Converting Colors

XYZ(46.7666, 49.1214, 41.6671)

Have a look what the booklet for  
XYZ(46.7666, 49.1214, 41.6671)  
contains.

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# **Color**

**XYZ(46.7248, 49.0780,  
41.6607)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C4B9A3
RGB	196, 185, 163
RGB Percent	77%, 73%, 64%
CMY	0.2314, 0.2745, 0.3608
CMYK	0.00, 0.06, 0.17, 0.23
HSL	40°, 22%, 70%
HSV	40°, 17%, 77%
XYZ	46.7248, 49.0780, 41.6607
YIQ	185.7810, 13.6180, -4.5100

# Conversions

## Conversions Part 2

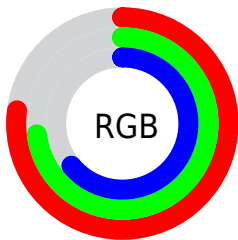
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	180, 196, 163
Decimal	12892579
CIE <sub>Lab</sub>	75.50, 0.22, 12.56
CIE <sub>LCh</sub>	75, 12.565, 89.003
Yxy	49.0780, 0.3399, 0.3570
Android (android.graphics.Color)	4291082659 (0xFFC4B9A3)
YUV	185.7810, -11.2310, 8.9621
Hunter-Lab	70.0557, -3.5439, 13.7804

# Details

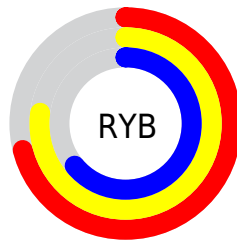
The XYZ color **46.7248, 49.0780, 41.6607** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **40.2041, 42.0434, 58.2213**, and the grayscale version is **46.6062, 49.0333, 53.3973**.

A 20% lighter version of the original color is **84.6182, 88.8552, 79.0206**, and **22.2758, 23.4010, 18.3817** is the 20% darker color. If you saturate the color by 10%, you get **43.7684, 45.7608, 32.6722**, and if you desaturate by 10%, it is **50.0189, 52.6340, 52.1057**.

# Distribution



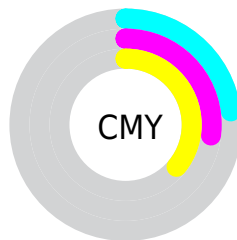
- Red (77%)
- Green (73%)
- Blue (64%)



- Red (71%)
- Yellow (77%)
- Blue (64%)



- Cyan (0%)
- Magenta (6%)
- Yellow (17%)
- Black (23%)




- Cyan (23%)
- Magenta (27%)
- Yellow (36%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.7248, 49.0780, 41.6607 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 46.7248, 49.0780, 41.6607 by changing the saturation by 10% instead.





 46.7248, 49.0780,  
41.6607


 46.7248, 49.0780,  
41.6607


364.3823,  
383.0493, 368.8326

 33.0252, 34.6814,  
28.5121


 84.5239, 88.8073,  
78.9504

 22.3051, 23.4175,  
18.4697

 109.3542,  
114.9087, 103.9286

 14.1991, 14.9021,  
11.1148


138.6253,  
145.6806, 133.6870

 8.3419, 8.7507,  
6.0290

172.7027,  
181.5072, 168.6443

 4.3681, 4.5789,  
2.7936

211.9518,  
222.7729, 209.2190

 1.9124, 2.0024,  
0.9902

256.7378,

 0.5840, 0.6089,

269.8623, 255.8296

0.0000

307.4262,  
323.1596, 308.8946

■ 0.0000, 0.0000,  
0.0000

■ 46.7248, 49.0780,  
41.6607

■ 46.7248, 49.0780,  
41.6607

■ 43.7684, 45.7608,  
32.6722

■ 50.0189, 52.6340,  
52.1057

■ 41.1323, 42.6692,  
25.0711

■ 53.6592, 56.4285,  
64.0661

■ 38.8035, 39.7983,  
18.7870

■ 57.6588, 60.4699,  
77.6009

■ 36.7666, 37.1405,  
13.7425

■ 62.0289, 64.7637,  
92.7655

■ 35.0043, 34.6874,  
9.8516

■ 65.7986, 68.9228,  
104.4432

■ 33.4974, 32.4301,  
7.0174

■ 67.5224, 72.3703,  
105.0178

■ 32.2236, 30.3579,  
5.1270

■ 69.3136, 75.9527,  
105.6149

■ 31.1532, 28.4576,  
4.0290

■ 71.1730, 79.6715,  
106.2347

■ 30.8398, 27.8851,  
3.7569

■ 73.1013, 83.5281,  
106.8774

# Harmonies

## Analogous

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



48.9811, 49.0780, 43.2228



46.7248, 49.0780, 41.6607



44.5187, 49.0780, 43.0302

# Triad

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



46.7248, 49.0780, 41.6607



42.8555, 49.0780, 59.8706



50.5742, 49.0780, 60.2867

# Complementary

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



46.7248, 49.0780, 41.6607



40.2041, 42.0434, 58.2213

# 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.



48.8424, 49.0780, 65.4009



46.7248, 49.0780, 41.6607



44.3886, 49.0780, 65.1469

# Square

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



46.7248, 49.0780, 41.6607



42.3299, 49.0780, 53.2157



46.5696, 49.0780, 67.2478



51.2484, 49.0780, 53.6601



# Rectangle

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



46.7248, 49.0780, 41.6607



43.3625, 49.0780, 45.4912



46.5696, 49.0780, 67.2478



50.0937, 49.0780, 62.2593

# Sweetspot

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



46.7261, 49.0802, 41.6617



91.7242, 96.5250, 97.9982



43.5027, 40.9868, 45.6635



19.5355, 20.5577, 20.6600



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.



46.7261, 49.0802, 41.6617



82.7153, 86.7720, 69.5159



47.7117, 53.1364, 42.3927



10.6215, 11.1745, 10.6590



19.8975, 18.0808, 2.4412



0.9209, 0.9036, 0.1259



# Inverse Universe

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



40.2041, 42.0434, 58.2213



68.8068, 71.7673, 104.8337



39.3168, 38.5605, 57.5957



9.7964, 10.2842, 12.7535



7.6997, 5.1559, 34.1460



0.3968, 0.3511, 1.4967



# Previews

## White Background



This preview shows how the XYZ color 46.7248, 49.0780, 41.6607 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

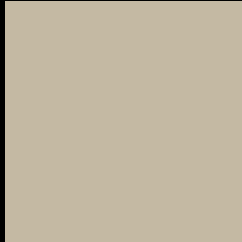
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.7248, 49.0780, 41.6607 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

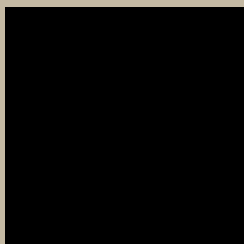
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

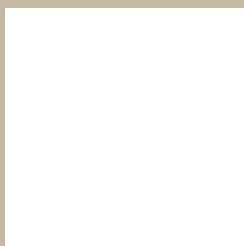
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 46.7248, 49.0780, 41.6607**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.7248, 49.0780, 41.6607.



This preview shows how white text looks on a background with the XYZ color 46.7248, 49.0780,



# 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

46.7248, 49.0780, 41.6607

### Protanopia

46.4655, 48.9444, 41.6485

### Deuteranopia

49.9723, 48.9176, 41.9302



## Tritanopia

49.9910, 48.8620, 58.4263

# Trichromacy



## Original Color

46.7248, 49.0780, 41.6607

## Protanomaly

46.4655, 48.9444, 41.6485

## Deuteranomaly

48.6783, 48.8499, 41.9853

## Tritanomaly

48.8284, 49.0169, 51.6874

# Monochromacy



## Original Color

46.7248, 49.0780, 41.6607

## Achromatopsia

46.6715, 49.1021, 53.4722

## Achromatomaly

46.8300, 49.2793, 49.1631

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.7248, 49.0780, 41.6607 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(196, 185, 163)` looks like.

```
.text, #text, p{  
    color:rgb(196, 185, 163)  
}
```

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(196, 185, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(196, 185, 163) }
```

## Border

The CSS property to change the border of an element to XYZ 46.7248, 49.0780, 41.6607 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(196, 185, 163) }
```



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

```
.border{ border-color:rgb(196, 185, 163) }
```

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

Here you see how a box with a 4 pixel `rgb(196, 185, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(196, 185, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(196, 185, 163);  
box-shadow:4px 4px 4px 4px rgb(196, 185,  
163) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.7248, 49.0780, 41.6607 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(196, 185, 163) }
```

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

```
.background{ background-color: rgb(196,  
185, 163) }
```

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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