

# Converting Colors

XYZ(46.6551, 50.3714, 46.2993)

Have a look what the booklet for  
XYZ(46.6551, 50.3714, 46.2993)  
contains.

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# Color

**XYZ(46.8461, 50.6243,  
46.3321)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	BDBEAC
RGB	189, 190, 172
RGB Percent	74%, 75%, 67%
CMY	0.2588, 0.2549, 0.3255
CMYK	0.01, 0.00, 0.09, 0.25
HSL	63°, 12%, 71%
HSV	63°, 9%, 75%
XYZ	46.8461, 50.6243, 46.3321
YIQ	187.6490, 5.1820, -5.8100

# Conversions

## Conversions Part 2

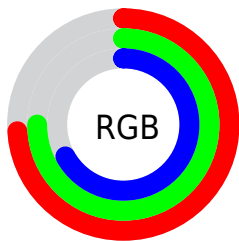
<b>Format</b>	<b>Color</b>
<b>RYB</b>	172, 190, 173
Decimal	12435116
CIELab	76.45, -3.54, 8.97
CIELCh	76, 9.640, 111.540
Yxy	50.6243, 0.3258, 0.3520
Android (android.graphics.Color)	4290625196 (0xFFBDBEAC)
YUV	187.6490, -7.7150, 1.1848
Hunter-Lab	71.1508, -6.9883, 11.1969

# Details

The XYZ color **46.8461, 50.6243, 46.3321** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **41.2823, 42.1083, 54.6698**, and the grayscale version is **47.6423, 50.1234, 54.5844**.

A 20% lighter version of the original color is **84.4771, 90.8701, 85.7603**, and **22.4892, 24.4816, 21.3094** is the 20% darker color. If you saturate the color by 10%, you get **44.8889, 49.8128, 37.3863**, and if you desaturate by 10%, it is **49.0690, 51.5456, 56.6544**.

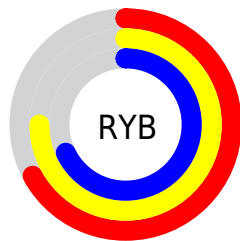
# Distribution



Red (74%)

Green (75%)

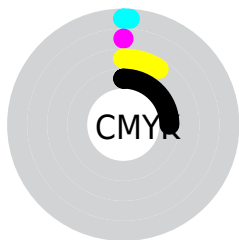
Blue (67%)



Red (67%)

Yellow (75%)

Blue (68%)

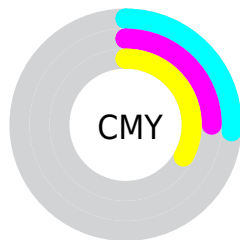


Cyan (1%)

Magenta (0%)

Yellow (9%)

Black (25%)



Cyan (26%)

Magenta (25%)

Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.8461, 50.6243, 46.3321 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 46.8461, 50.6243, 46.3321 by changing the saturation by 10% instead.



■ 46.8461, 50.6243,  
46.3321

■ 46.8461, 50.6243,  
46.3321

364.8591,  
389.1023, 388.4585

■ 33.1214, 35.9097,  
32.1574

■ 84.7040, 91.0992,  
86.0553

■ 22.3792, 24.3645,  
21.2159

109.5679,  
117.6283, 112.4409

■ 14.2539, 15.6042,  
13.0892

138.8757,  
148.8643, 143.7339

■ 8.3804, 9.2445,  
7.3585

172.9926,  
185.1916, 180.3528

■ 4.3931, 4.9010,  
3.6055

212.2841,  
226.9947, 222.7162

■ 1.9269, 2.1893,  
1.4115

257.1154,

■ 0.5924, 0.7142,

274.6579, 271.2426

0.1507

307.8519,  
328.5657, 326.3505

■ 0.0000, 0.0000,  
0.0000

■ 46.8461, 50.6243,  
46.3321

■ 46.8461, 50.6243,  
46.3321

■ 44.8889, 49.8128,  
37.3863

■ 49.0690, 51.5456,  
56.6544

■ 43.1822, 49.1001,  
29.7557

■ 51.5637, 52.5742,  
68.4044

■ 41.7155, 48.4836,  
23.3793

■ 54.3415, 53.7162,  
81.6350

■ 40.4761, 47.9583,  
18.1898

■ 57.4116, 54.9754,  
96.3950

■ 39.4501, 47.5185,  
14.1137

■ 58.7894, 55.5579,  
102.2330

■ 38.6219, 47.1580,  
11.0696

■ 59.0629, 55.6989,  
102.2457

■ 37.9739, 46.8699,  
8.9646

■ 59.3383, 55.8409,  
102.2586

■ 37.4854, 46.6458,  
7.6896

■ 59.6157, 55.9839,  
102.2716

■ 37.1179, 46.4703,  
7.0420

■ 59.8950, 56.1279,  
102.2847

# Harmonies

## Analogous

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



48.6325, 50.6243, 45.8089



46.8461, 50.6243, 46.3321



45.4339, 50.6243, 49.1319

# Triad

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



46.8461, 50.6243, 46.3321



45.9774, 50.6243, 63.3293



51.6543, 50.6243, 56.6057

# Complementary

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



46.8461, 50.6243, 46.3321



41.2823, 42.1083, 54.6698

# 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.



50.9035, 50.6243, 61.5786



46.8461, 50.6243, 46.3321



47.6050, 50.6243, 65.6171

# Square

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



46.8461, 50.6243, 46.3321



44.9412, 50.6243, 58.8753



49.4104, 50.6243, 64.9571



51.4387, 50.6243, 51.5303



# Rectangle

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



46.8461, 50.6243, 46.3321



44.8799, 50.6243, 52.0147



49.4104, 50.6243, 64.9571



51.5059, 50.6243, 58.3491

# Sweetspot

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



46.8475, 50.6265, 46.3332



87.4209, 92.7854, 95.6850



43.6076, 43.7758, 45.1816



19.1241, 20.3447, 20.6730



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

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



46.8475, 50.6265, 46.3332



84.2523, 91.4732, 81.0240



44.7074, 49.5232, 46.2330



10.2683, 11.0927, 10.1765



24.6901, 30.9041, 4.6638



0.9833, 1.2189, 0.1834



# Inverse Universe

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



41.2823, 42.1083, 54.6698



72.4927, 73.4735, 98.6402



43.3161, 43.1568, 54.7650



9.0644, 9.2501, 11.9799



6.2905, 2.5290, 32.5495



0.2634, 0.1078, 1.2758



# Previews

## White Background



This preview shows how the XYZ color 46.8461, 50.6243, 46.3321 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

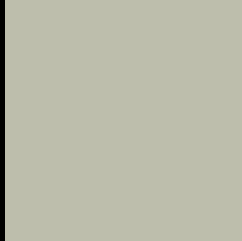
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.8461, 50.6243, 46.3321 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

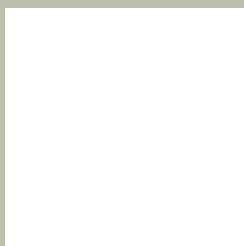
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 46.8461, 50.6243, 46.3321**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.8461, 50.6243, 46.3321.



This preview shows how white text looks on a background with the XYZ color 46.8461, 50.6243,



# 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

46.8461, 50.6243, 46.3321

### Protanopia

48.0989, 50.6425, 45.7680

### Deuteranopia

51.5193, 50.5089, 47.0782



## Tritanopia

49.9766, 50.6254, 61.7812

# Trichromacy



## Original Color

46.8461, 50.6243, 46.3321

## Protanomaly

47.5406, 50.6729, 45.8033

## Deuteranomaly

49.7936, 50.5524, 46.6684

## Tritanomaly

48.8028, 50.4648, 55.8837

# Monochromacy



## Original Color

46.8461, 50.6243, 46.3321

## Achromatopsia

47.7994, 50.2886, 54.7643

## Achromatomaly

47.3801, 50.4640, 51.4993

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.8461, 50.6243, 46.3321 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, 190, 172)` looks like.

```
.text, #text, p{  
    color:rgb(189, 190, 172)  
}
```

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, 190, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 190, 172) }
```

## Border

The CSS property to change the border of an element to XYZ 46.8461, 50.6243, 46.3321 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, 190, 172) }
```



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

```
.border{ border-color:rgb(189, 190, 172) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 190, 172)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 190, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 190, 172);  
box-shadow:4px 4px 4px 4px rgb(189, 190,  
172) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.8461, 50.6243, 46.3321 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 190, 172) }
```

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

```
.background{ background-color: rgb(189,  
190, 172) }
```

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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