

# Converting Colors

XYZ(48.7489, 51.6456, 36.5080)

Have a look what the booklet for  
XYZ(48.7489, 51.6456, 36.5080)  
contains.

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# **Color**

**XYZ(48.6853, 51.4669,  
36.6463)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CCBD97
RGB	204, 189, 151
RGB Percent	80%, 74%, 59%
CMY	0.2000, 0.2588, 0.4078
CMYK	0.00, 0.07, 0.26, 0.20
HSL	43°, 34%, 70%
HSV	43°, 26%, 80%
XYZ	48.6853, 51.4669, 36.6463
YIQ	189.1530, 21.1380, -8.6380

# Conversions

## Conversions Part 2

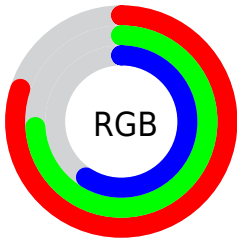
Format	Color
R <sub>YB</sub>	172, 204, 151
Decimal	13417879
CIE Lab	76.96, -0.64, 21.16
CIE LCh	77, 21.168, 91.721
Yxy	51.4669, 0.3559, 0.3762
Android (android.graphics.Color)	4291607959 (0xFFCCBD97)
YUV	189.1530, -18.8094, 13.0208
Hunter-Lab	71.7404, -4.4101, 19.9319

# Details

The XYZ color **48.6853, 51.4669, 36.6463** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **37.2975, 38.2103, 62.5364**, and the grayscale version is **48.5542, 51.0828, 55.6292**.

A 20% lighter version of the original color is **84.9119, 90.9726, 70.8417**, and **23.4988, 24.9180, 15.6277** is the 20% darker color. If you saturate the color by 10%, you get **45.9533, 48.4286, 28.2571**, and if you desaturate by 10%, it is **51.7561, 54.7234, 46.5640**.

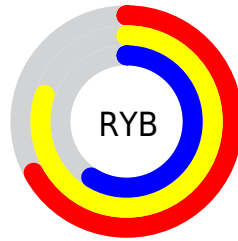
# Distribution



Red (80%)

Green (74%)

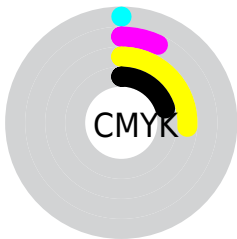
Blue (59%)



Red (67%)

Yellow (80%)

Blue (59%)

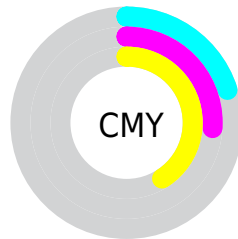


Cyan (0%)

Magenta (7%)

Yellow (26%)

Black (20%)



Cyan (20%)

Magenta (26%)

Yellow (41%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.6853, 51.4669, 36.6463 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 48.6853, 51.4669, 36.6463 by changing the saturation by 10% instead.



■ 48.6853, 51.4669,  
36.6463

■ 48.6853, 51.4669,  
36.6463

372.0396,  
392.3751, 346.8991

■ 34.5834, 36.5803,  
24.6401

■ 87.4274, 92.3446,  
71.2087

■ 23.5072, 24.8827,  
15.5926

■ 112.7983,  
119.1044, 94.6020

■ 15.0912, 15.9897,  
9.0851

142.6563,  
150.5908, 122.6281

■ 8.9701, 9.5169,  
4.6991

177.3667,  
187.1882, 155.7055

■ 4.7787, 5.0798,  
2.0162

217.2949,  
229.2809, 194.2527

■ 2.1514, 2.2942,  
0.5652

262.8062,

■ 0.7169, 0.7706,

277.2534, 238.6884

0.0000

314.2660,  
331.4900, 289.4310

■ 0.0000, 0.0000,  
0.0000

■ 48.6853, 51.4669,  
36.6463

■ 48.6853, 51.4669,  
36.6463

■ 45.9533, 48.4286,  
28.2571

■ 51.7561, 54.7234,  
46.5640

■ 43.5408, 45.5945,  
21.3153

■ 55.1760, 58.1976,  
58.0792

■ 41.4324, 42.9593,  
15.7369

■ 58.9596, 61.8982,  
71.2609

■ 39.6099, 40.5147,  
11.4283

■ 63.1196, 65.8310,  
86.1728

■ 38.0524, 38.2514,  
8.2836

■ 67.6680, 70.0018,  
102.8752

■ 36.7362, 36.1591,  
6.1799

■ 69.5098, 73.1733,  
105.0680

■ 35.6315, 34.2247,  
4.9636

■ 71.0842, 76.3220,  
105.5928

■ 35.2243, 33.4822,  
4.6062

■ 72.7117, 79.5770,  
106.1353

■ 74.3928, 82.9393,  
106.6957

# Harmonies

## Analogous

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



52.6834, 51.4669, 38.6714



48.6853, 51.4669, 36.6463



44.9537, 51.4669, 39.1945

# Triad

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



48.6853, 51.4669, 36.6463



42.6150, 51.4669, 68.5422



56.0678, 51.4669, 67.2298

# Complementary

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



48.6853, 51.4669, 36.6463



37.2975, 38.2103, 62.5364

# 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.



53.1083, 51.4669, 77.1264



48.6853, 51.4669, 36.6463



45.3359, 51.4669, 77.9544

# Square

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



48.6853, 51.4669, 36.6463



41.5705, 51.4669, 56.7081



49.1509, 51.4669, 81.2906



57.0834, 51.4669, 55.3746



# Rectangle

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



48.6853, 51.4669, 36.6463



43.0807, 51.4669, 43.3786



49.1509, 51.4669, 81.2906



55.2595, 51.4669, 70.9495

# Sweetspot

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



48.6866, 51.4692, 36.6474



90.1239, 95.1276, 91.9060



42.8533, 37.7250, 41.1081



19.1014, 20.1710, 19.0310



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.



48.6866, 51.4692, 36.6474



78.1070, 82.4635, 52.8487



49.0484, 56.6943, 37.6369



11.8752, 12.5393, 11.8739



22.2530, 21.2389, 2.9267



1.2104, 1.2205, 0.1718



# Inverse Universe

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



37.2975, 38.2103, 62.5364



56.2095, 56.9770, 102.6428



36.9649, 34.2257, 61.7848



10.8559, 11.3523, 14.1894



7.8724, 4.7687, 36.4618



0.4715, 0.3768, 1.9028



# Previews

## White Background



This preview shows how the XYZ color 48.6853, 51.4669, 36.6463 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

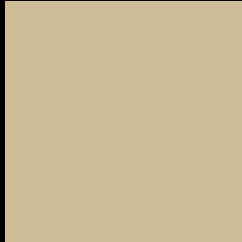
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.6853, 51.4669, 36.6463 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

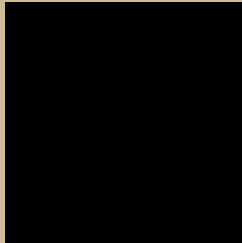
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 48.6853, 51.4669, 36.6463**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.6853, 51.4669, 36.6463.



This preview shows how white text looks on a background with the XYZ color 48.6853, 51.4669,



# 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

48.6853, 51.4669, 36.6463

### Protanopia

48.3565, 51.6178, 36.6927

### Deuteranopia

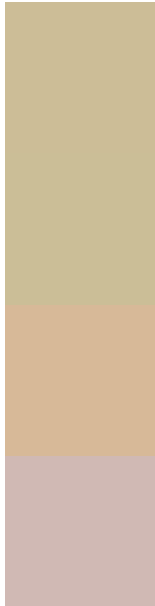
52.4198, 51.5061, 36.8846



## Tritanopia

53.5899, 51.5998, 59.9586

# Trichromacy



## Original Color

48.6853, 51.4669, 36.6463

## Protanomaly

48.6280, 51.7578, 36.7054

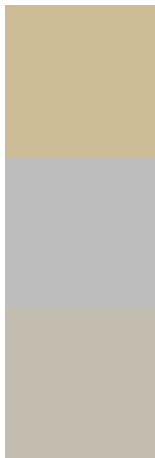
## Deuteranomaly

51.0408, 51.4120, 36.9391

## Tritanomaly

51.5996, 51.4031, 50.3822

# Monochromacy



## Original Color

48.6853, 51.4669, 36.6463

## Achromatopsia

48.3692, 50.8881, 55.4172

## Achromatomaly

48.1836, 50.9597, 47.8541

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.6853, 51.4669, 36.6463 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, 189, 151)` looks like.

```
.text, #text, p{  
    color:rgb(204, 189, 151)  
}
```

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, 189, 151) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 189, 151) }
```

## Border

The CSS property to change the border of an element to XYZ 48.6853, 51.4669, 36.6463 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, 189, 151) }
```



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

```
.border{ border-color:rgb(204, 189, 151) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 189, 151)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 189, 151); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 189, 151);  
box-shadow:4px 4px 4px 4px rgb(204, 189,  
151) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.6853, 51.4669, 36.6463 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 189, 151) }
```

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

```
.background{ background-color: rgb(204,  
189, 151) }
```

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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