

# Converting Colors

XYZ(49.4629, 46.7634, 31.5190)

Have a look what the booklet for  
XYZ(49.4629, 46.7634, 31.5190)  
contains.

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# Color

**XYZ(49.6844, 46.9577,  
31.6444)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DEAC8D
RGB	222, 172, 141
RGB Percent	87%, 67%, 55%
CMY	0.1294, 0.3255, 0.4471
CMYK	0.00, 0.23, 0.36, 0.13
HSL	23°, 55%, 71%
HSV	23°, 36%, 87%
XYZ	49.6844, 46.9577, 31.6444
YIQ	183.4160, 39.7510, 0.9590

# Conversions

## Conversions Part 2

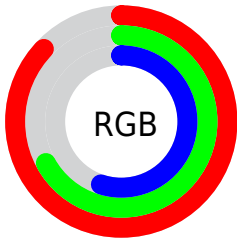
Format	Color
R <sub>Y</sub> B	222, 191, 141
Decimal	14593165
CIE Lab	74.16, 14.14, 22.98
CIE LCh	74, 26.980, 58.383
Yxy	46.9577, 0.3873, 0.3660
Android (android.graphics.Color)	4292783245 (0xFFDEAC8D)
YUV	183.4160, -20.9111, 33.8382
Hunter-Lab	68.5257, 9.5011, 20.5885

# Details

The XYZ color **49.6844, 46.9577, 31.6444** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **42.7994, 48.1965, 76.1543**, and the grayscale version is **45.3352, 47.6962, 51.9412**.

A 20% lighter version of the original color is **78.5594, 80.1383, 62.9575**, and **24.1218, 22.1876, 12.9088** is the 20% darker color. If you saturate the color by 10%, you get **45.7207, 41.4140, 22.9743**, and if you desaturate by 10%, it is **54.2506, 53.1761, 42.1498**.

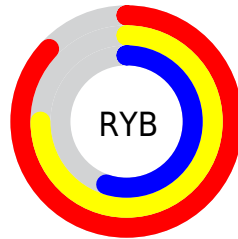
# Distribution



Red (87%)

Green (67%)

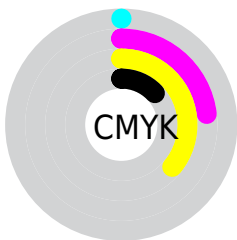
Blue (55%)



Red (87%)

Yellow (75%)

Blue (55%)

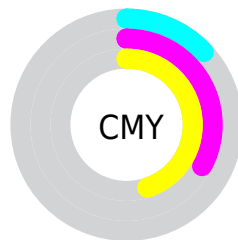


Cyan (0%)

Magenta (23%)

Yellow (36%)

Black (13%)



Cyan (13%)

Magenta (33%)


Yellow (45%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.6844, 46.9577, 31.6444 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 49.6844, 46.9577, 31.6444 by changing the saturation by 10% instead.




 49.6844, 46.9577,  
31.6444

 49.6844, 46.9577,  
31.6444


375.9029,  
374.6457, 323.9388


 35.3795, 33.0022,  
20.8275


 88.9017, 85.6505,  
63.3446

 24.1232, 22.1281,  
12.8079


 114.5448,  
111.1566, 85.0650

 15.5503, 13.9511,  
7.1673

 144.6980,  
141.2816, 111.2569

 9.2953, 8.0867,  
3.4869

179.7267,  
176.4101, 142.3389

 4.9929, 4.1504,  
1.3483

219.9961,  
216.9263, 178.7296

 2.2778, 1.7581,  
0.1009

265.8717,

 0.7833, 0.4608,

263.2147, 220.8474

0.0000

317.7189,  
315.6597, 269.1110

■ 0.0000, 0.0000,  
0.0000

■ 49.6844, 46.9577,  
31.6444

■ 49.6844, 46.9577,  
31.6444

■ 45.7207, 41.4140,  
22.9743

■ 54.2506, 53.1761,  
42.1498

■ 42.3278, 36.5143,  
16.0291

■ 59.4416, 60.0853,  
54.5862

■ 39.4764, 32.2348,  
10.6910

■ 65.2830, 67.7093,  
69.0462

■ 37.1327, 28.5477,  
6.8258

■ 71.7978, 76.0687,  
85.6154

■ 35.2580, 25.4223,  
4.2771

■ 79.0078, 85.1833,  
104.3745

■ 33.8055, 22.8239,  
2.8477

■ 83.6858, 93.7729,  
108.2970

■ 33.3708, 22.0228,  
2.4920

■ 83.9342, 94.2696,  
108.3798

# Harmonies

## Analogous

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



53.3196, 46.9577, 39.4894



49.6844, 46.9577, 31.6444



44.8947, 46.9577, 28.8678

# Triad

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



49.6844, 46.9577, 31.6444



35.9700, 46.9577, 50.3814



49.1980, 46.9577, 78.3085

# Complementary

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



49.6844, 46.9577, 31.6444



42.7994, 48.1965, 76.1543

# 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.



44.3701, 46.9577, 82.6234



49.6844, 46.9577, 31.6444



36.9432, 46.9577, 64.8566

# Square

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



49.6844, 46.9577, 31.6444



37.1749, 46.9577, 38.4043



39.9341, 46.9577, 77.3146



53.0248, 46.9577, 66.3932



# Rectangle

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



49.6844, 46.9577, 31.6444



41.7641, 46.9577, 29.7984



39.9341, 46.9577, 77.3146



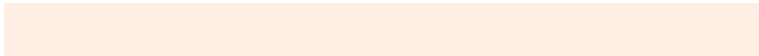
47.6280, 46.9577, 80.7811

# Sweetspot

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



49.6856, 46.9599, 31.6453



85.5817, 87.7702, 85.0676



49.1970, 38.3989, 54.8627



18.0849, 18.4820, 17.6315



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.



49.6856, 46.9599, 31.6453



63.6885, 58.2486, 33.7936



58.2760, 64.1407, 34.5088



14.1352, 14.5563, 14.3714



19.9212, 13.2802, 1.5134



1.4655, 1.0899, 0.1331



# Inverse Universe

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



42.7994, 48.1965, 76.1543



52.8997, 60.1551, 103.4307



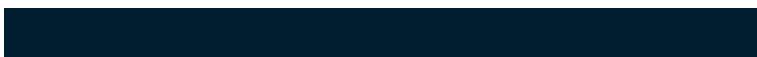
35.3656, 33.3288, 73.6763



13.6529, 14.6450, 17.4949



13.2577, 13.9849, 43.0490



1.0047, 1.1409, 3.0125



# Previews

## White Background



This preview shows how the XYZ color 49.6844, 46.9577, 31.6444 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 49.6844, 46.9577, 31.6444 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

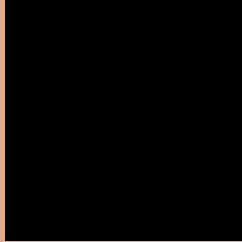
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 49.6844, 46.9577, 31.6444

## Background



This preview shows how black text looks on a background with the XYZ color 49.6844, 46.9577, 31.6444.



This preview shows how white text looks on a background with the XYZ color 49.6844, 46.9577,

31.6444.

# 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

49.6844, 46.9577, 31.6444

### Protanopia

44.1644, 47.0006, 33.9384

### Deuteranopia

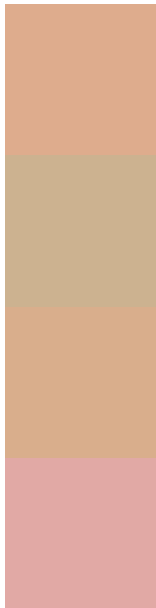
47.7952, 46.8495, 31.3347



## Tritanopia

53.3194, 47.0609, 48.9212

# Trichromacy



**Original Color**

49.6844, 46.9577, 31.6444

**Protanomaly**

45.8563, 46.6918, 32.9811

**Deuteranomaly**

48.4849, 46.9173, 31.3114

**Tritanomaly**

52.0308, 47.1001, 41.9462

# Monochromacy



**Original Color**

49.6844, 46.9577, 31.6444

**Achromatopsia**

45.0092, 47.3531, 51.5676

**Achromatomaly**

46.2139, 46.9377, 43.6699

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.6844, 46.9577, 31.6444 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(222, 172, 141)` looks like.

```
.text, #text, p{  
    color:rgb(222, 172, 141)  
}
```

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(222, 172, 141) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 172, 141) }
```

## Border

The CSS property to change the border of an element to XYZ 49.6844, 46.9577, 31.6444 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(222, 172, 141) }
```



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

```
.border{ border-color:rgb(222, 172, 141) }
```

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

Here you see how a box with a 4 pixel `rgb(222, 172, 141)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 172, 141); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 172, 141);  
box-shadow:4px 4px 4px 4px rgb(222, 172,  
141) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.6844, 46.9577, 31.6444 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 172, 141) }
```

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

```
.background{ background-color: rgb(222,  
172, 141) }
```

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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