

# Converting Colors

XYZ(49.2864, 45.8388, 31.2420)

Have a look what the booklet for  
XYZ(49.2864, 45.8388, 31.2420)  
contains.

<b>XYZ(49.3530, 45.9574, 31.0804)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(49.3530, 45.9574,  
31.0804)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DFA98C
RGB	223, 169, 140
RGB Percent	87%, 66%, 55%
CMY	0.1255, 0.3372, 0.4510
CMYK	0.00, 0.24, 0.37, 0.13
HSL	21°, 56%, 71%
HSV	21°, 37%, 87%
XYZ	49.3530, 45.9574, 31.0804
YIQ	181.8400, 41.4930, 2.4290

# Conversions

## Conversions Part 2

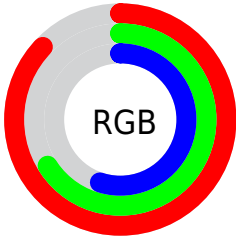
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	223, 185, 140
Decimal	14657932
CIE Lab	73.52, 16.03, 22.66
CIE LCh	74, 27.751, 54.725
Yxy	45.9574, 0.3905, 0.3636
Android (android.graphics.Color)	4292848012 (0xFFDFA98C)
YUV	181.8400, -20.6271, 36.0973
Hunter-Lab	67.7919, 11.3135, 20.2718

# Details

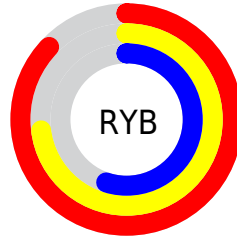
The XYZ color **49.3530, 45.9574, 31.0804** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **43.4255, 49.4848, 77.0747**, and the grayscale version is **44.4703, 46.7862, 50.9501**.

A 20% lighter version of the original color is **77.6333, 78.4664, 62.0927**, and **23.9326, 21.5678, 12.5745** is the 20% darker color. If you saturate the color by 10%, you get **45.3218, 40.2651, 22.4299**, and if you desaturate by 10%, it is **54.0193, 52.3863, 41.5875**.

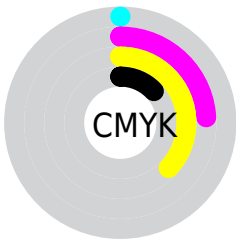
# Distribution



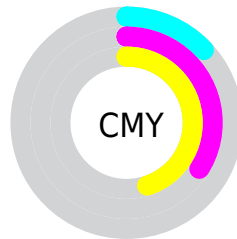
- Red (87%)
- Green (66%)
- Blue (55%)



- Red (87%)
- Yellow (73%)
- Blue (55%)



- Cyan (0%)
- Magenta (24%)
- Yellow (37%)
- Black (13%)




- Cyan (13%)
- Magenta (34%)
- Yellow (45%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.3530, 45.9574, 31.0804 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 49.3530, 45.9574, 31.0804 by changing the saturation by 10% instead.





 49.3530, 45.9574,  
31.0804


 49.3530, 45.9574,  
31.0804


374.6243,  
370.6374, 321.2712


 35.1153, 32.2122,  
20.4011


 88.4131, 84.1552,  
62.4477

 23.9186, 21.5236,  
12.5000


 113.9661,  
109.3767, 83.9728

 15.3977, 13.5073,  
6.9585


 144.0217,  
139.1923, 109.9502

 9.1871, 7.7788,  
3.3581

178.9451,  
173.9865, 140.7985

 4.9215, 3.9537,  
1.2803

219.1017,  
214.1438, 176.9362

 2.2356, 1.6477,  
0.0455

264.8569,

 0.7614, 0.3895,

260.0484, 218.7818

0.0000

316.5760,  
312.0848, 266.7540

0.0000, 0.0000,  
0.0000

49.3530, 45.9574,  
31.0804

49.3530, 45.9574,  
31.0804

45.3218, 40.2651,  
22.4299

54.0193, 52.3863,  
41.5875

41.8921, 35.2753,  
15.5232

59.3450, 59.5713,  
54.0492

39.0325, 30.9606,  
10.2397

65.3573, 67.5391,  
68.5599

36.7066, 27.2892,  
6.4418

72.0808, 76.3132,  
85.2071

34.8730, 24.2261,  
3.9684

79.5389, 85.9162,  
104.0730

■ 33.4799, 21.7306,  
2.6079

■ 84.2414, 94.4280,  
108.3942

■ 33.1507, 21.1267,  
2.3306

# Harmonies

## Analogous

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



52.8132, 45.9574, 39.5778



49.3530, 45.9574, 31.0804



44.5533, 45.9574, 27.6875

# Triad

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



49.3530, 45.9574, 31.0804



34.9524, 45.9574, 47.5993



47.7430, 45.9574, 78.7788

# Complementary

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



49.3530, 45.9574, 31.0804



43.4255, 49.4848, 77.0747

# 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.



42.8205, 45.9574, 82.0162



49.3530, 45.9574, 31.0804



35.6676, 45.9574, 62.1999

# Square

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



49.3530, 45.9574, 31.0804



36.4298, 45.9574, 36.0148



38.4614, 45.9574, 75.4683



51.8360, 45.9574, 67.3018



# Rectangle

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



49.3530, 45.9574, 31.0804



41.3290, 45.9574, 28.2112



38.4614, 45.9574, 75.4683



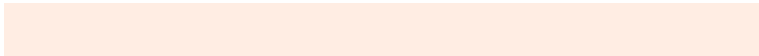
46.1208, 45.9574, 80.9474

# Sweetspot

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



49.3542, 45.9596, 31.0813



85.3107, 87.2283, 84.9773



49.6978, 38.3998, 56.6203



18.0206, 18.3534, 17.6100



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.



49.3542, 45.9596, 31.0813



62.3842, 55.9450, 32.4182



58.0065, 63.2643, 33.9654



14.0970, 14.4801, 14.3587



19.5881, 12.6140, 1.4023



1.4396, 1.0381, 0.1245

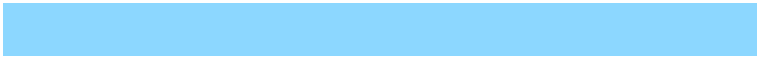


# Inverse Universe

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



43.4255, 49.4848, 77.0747



53.1823, 61.3670, 103.6497



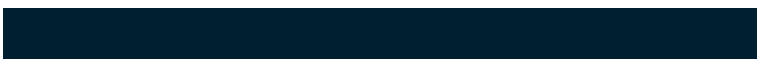
35.6630, 33.9599, 74.4872



13.6924, 14.7239, 17.5080



13.9012, 15.2719, 43.2635



1.0465, 1.2244, 3.0264



# Previews

## White Background



This preview shows how the XYZ color 49.3530, 45.9574, 31.0804 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 49.3530, 45.9574, 31.0804 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

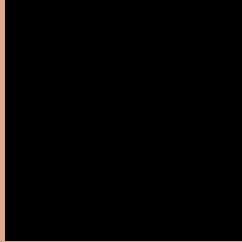
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 49.3530, 45.9574, 31.0804

## Background



This preview shows how black text looks on a background with the XYZ color 49.3530, 45.9574, 31.0804.



This preview shows how white text looks on a background with the XYZ color 49.3530, 45.9574,



# 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

49.3530, 45.9574, 31.0804

### Protanopia

43.3729, 46.2985, 33.4386

### Deuteranopia

46.9476, 46.1332, 30.8563



## Tritanopia

52.7905, 46.0164, 47.1740

# Trichromacy



## Original Color

49.3530, 45.9574, 31.0804

## Protanomaly

45.3087, 46.1240, 32.5014

## Deuteranomaly

47.7316, 45.9681, 30.7831

## Tritanomaly

51.6111, 46.0855, 40.8255

# Monochromacy



## Original Color

49.3530, 45.9574, 31.0804

## Achromatopsia

44.4628, 46.7784, 50.9417

## Achromatomaly

45.7231, 46.1046, 43.0484

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.3530, 45.9574, 31.0804 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(223, 169, 140)` looks like.

```
.text, #text, p{  
    color:rgb(223, 169, 140)  
}
```

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(223, 169, 140) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(223, 169, 140) }
```

## Border

The CSS property to change the border of an element to XYZ 49.3530, 45.9574, 31.0804 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(223, 169, 140) }
```



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

```
.border{ border-color:rgb(223, 169, 140) }
```

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

Here you see how a box with a 4 pixel rgb(223, 169, 140) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(223, 169, 140); -webkit-box-  
shadow:4px 4px 4px 4px rgb(223, 169, 140);  
box-shadow:4px 4px 4px 4px rgb(223, 169,  
140) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.3530, 45.9574, 31.0804 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(223, 169, 140) }
```

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

```
.background{ background-color: rgb(223,  
169, 140) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor