

# Converting Colors

XYZ(34.8806, 31.3589, 18.8666)

Have a look what the booklet for  
XYZ(34.8806, 31.3589, 18.8666)  
contains.

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# Color

**XYZ(34.8120, 31.3268,  
18.9637)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C48B6E
RGB	196, 139, 110
RGB Percent	77%, 55%, 43%
CMY	0.2314, 0.4549, 0.5686
CMYK	0.00, 0.29, 0.44, 0.23
HSL	20°, 42%, 60%
HSV	20°, 44%, 77%
XYZ	34.8120, 31.3268, 18.9637
YIQ	152.7370, 43.2810, 3.0650

# Conversions

## Conversions Part 2

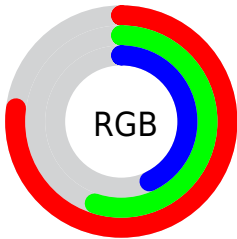
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	196, 154, 110
Decimal	12880750
CIE <sub>Lab</sub>	62.78, 18.16, 24.14
CIE <sub>LCh</sub>	63, 30.209, 53.049
Yxy	31.3268, 0.4091, 0.3681
Android (android.graphics.Color)	4291070830 (0xFFC48B6E)
YUV	152.7370, -21.0693, 37.9417
Hunter-Lab	55.9703, 13.0739, 19.0908

# Details

The XYZ color **34.8120, 31.3268, 18.9637** is a dark color, and the websafe version is hex **CC9966**. A complement of this color would be **30.2122, 34.9363, 57.3754**, and the grayscale version is **30.2401, 31.8150, 34.6465**.

A 20% lighter version of the original color is **66.4646, 61.8194, 42.6117**, and **15.2571, 13.0680, 6.2757** is the 20% darker color. If you saturate the color by 10%, you get **32.0903, 27.4065, 13.3613**, and if you desaturate by 10%, it is **37.9948, 35.7916, 25.8849**.

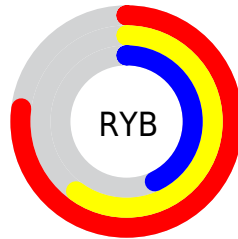
# Distribution



Red (77%)

Green (55%)

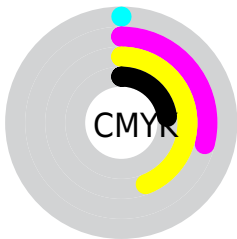
Blue (43%)



Red (77%)

Yellow (60%)

Blue (43%)

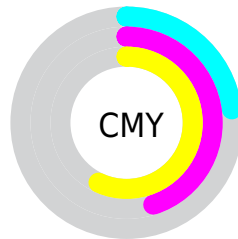


Cyan (0%)

Magenta (29%)

Yellow (44%)

Black (23%)



Cyan (23%)

Magenta (45%)


Yellow (57%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 34.8120, 31.3268, 18.9637 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 34.8120, 31.3268, 18.9637 by changing the saturation by 10% instead.





 34.8120, 31.3268,  
18.9637


 34.8120, 31.3268,  
18.9637


315.2603,  
308.0411, 258.6643


 23.6839, 20.8478,  
11.4675


 66.5304, 61.7542,  
42.5086


 15.2228, 13.0128,  
6.2641


 87.8514, 82.4715,  
59.3945

 9.0632, 7.4374,  
2.9350


 113.3007,  
107.3702, 80.2472

 4.8399, 3.7371,  
1.0615

 143.2438,  
136.8349, 105.4855

 2.1874, 1.5276,  
0.0000

178.0459,  
171.2500, 135.5278

 0.7361, 0.3080,  
0.0000

218.0725,

 0.0000, 0.0000,

210.9998, 170.7927

0.0000

263.6888,  
256.4687, 211.6987

■ 34.8120, 31.3268,  
18.9637

■ 34.8120, 31.3268,  
18.9637

■ 32.0903, 27.4065,  
13.3613

■ 37.9948, 35.7916,  
25.8849

■ 29.8039, 24.0042,  
8.9903

■ 41.6581, 40.8168,  
34.2008

■ 27.9275, 21.0979,  
5.7556


■ 45.8229, 46.4233,  
43.9837


■ 26.4322, 18.6618,  
3.5472


■ 50.5082, 52.6297,  
55.3004


■ 25.2838, 16.6675,  
2.2324

■ 55.7319, 59.4534,  
68.2134

 24.7191, 15.6443,  
1.7168

 61.5112, 66.9113,  
82.7818

 67.8624, 75.0196,  
99.0618

 72.8421, 83.0103,  
106.7911

 76.5749, 90.4757,  
108.0354

# Harmonies

## Analogous

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



37.7020, 31.3268, 25.9530



34.8120, 31.3268, 18.9637



30.7473, 31.3268, 16.1393

# Triad

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



34.8120, 31.3268, 18.9637



22.5633, 31.3268, 31.4287



32.9959, 31.3268, 59.6283

# Complementary

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



34.8120, 31.3268, 18.9637



30.2122, 34.9363, 57.3754

# 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.



28.8238, 31.3268, 62.0540



34.8120, 31.3268, 18.9637



23.0454, 31.3268, 43.8177

# Square

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



34.8120, 31.3268, 18.9637



23.8657, 31.3268, 22.1766



25.2493, 31.3268, 55.7200



36.5876, 31.3268, 49.7005



# Rectangle

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



34.8120, 31.3268, 18.9637



28.0169, 31.3268, 16.3959



25.2493, 31.3268, 55.7200



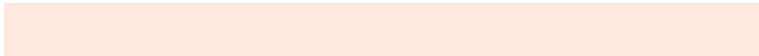
31.6056, 31.3268, 61.4296

# Sweetspot

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



34.8128, 31.3283, 18.9643



83.5522, 84.8209, 80.9703



35.3468, 25.6902, 39.8168



17.5012, 17.6443, 16.4208



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.



34.8128, 31.3283, 18.9643



58.1541, 49.6785, 24.2455



42.2391, 46.1810, 21.4398



10.3446, 10.6207, 10.5667



15.9551, 10.1960, 1.1271



0.7538, 0.5693, 0.0702



# Inverse Universe

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



30.2122, 34.9363, 57.3754



48.6783, 57.0090, 103.0460



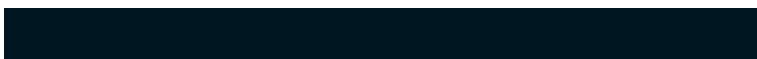
23.6439, 21.7998, 55.1859



10.0732, 10.8377, 12.8458



11.6046, 12.9658, 35.4476



0.5630, 0.6833, 1.5521



# Previews

## White Background



This preview shows how the XYZ color 34.8120, 31.3268, 18.9637 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

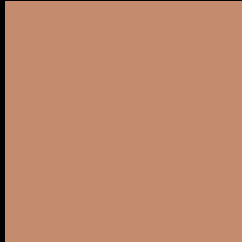
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 34.8120, 31.3268, 18.9637 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

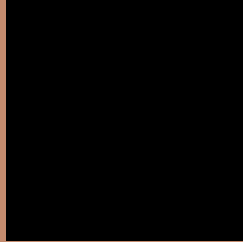
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 34.8120, 31.3268, 18.9637**

## **Background**



This preview shows how black text looks on a background with the XYZ color 34.8120, 31.3268, 18.9637.



This preview shows how white text looks on a background with the XYZ color 34.8120, 31.3268,



# 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

34.8120, 31.3268, 18.9637

### Protanopia

29.4849, 31.5040, 21.0498

### Deuteranopia

32.0953, 31.4857, 18.8537



## Tritanopia

37.1123, 31.2059, 30.4529

# Trichromacy



## Original Color

34.8120, 31.3268, 18.9637

## Protanomaly

31.1502, 31.1963, 20.2993

## Deuteranomaly

32.8325, 31.1882, 18.7575

## Tritanomaly

36.2577, 31.2800, 25.9565

# Monochromacy



## Original Color

34.8120, 31.3268, 18.9637

## Achromatopsia

30.2779, 31.8547, 34.6897

## Achromatomaly

31.4674, 31.4210, 28.0733

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 34.8120, 31.3268, 18.9637 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, 139, 110)` looks like.

```
.text, #text, p{  
    color:rgb(196, 139, 110)  
}
```

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, 139, 110) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(196, 139, 110) }
```

## Border

The CSS property to change the border of an element to XYZ 34.8120, 31.3268, 18.9637 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, 139, 110) }
```



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

```
.border{ border-color:rgb(196, 139, 110) }
```

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

Here you see how a box with a 4 pixel `rgb(196, 139, 110)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(196, 139, 110); -webkit-box-  
shadow:4px 4px 4px 4px rgb(196, 139, 110);  
box-shadow:4px 4px 4px 4px rgb(196, 139,  
110) }
```

# Background

The CSS property to change the background color of an element to XYZ 34.8120, 31.3268, 18.9637 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(196, 139, 110) }
```

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

```
.background{ background-color: rgb(196,  
139, 110) }
```

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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