

# Converting Colors

XYZ(36.1080, 31.5200, 16.8370)

Have a look what the booklet for  
XYZ(36.1080, 31.5200, 16.8370)  
contains.

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# Color

**XYZ(36.2458, 31.6880,  
16.7764)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CC8966
RGB	204, 137, 102
RGB Percent	80%, 54%, 40%
CMY	0.2000, 0.4627, 0.6000
CMYK	0.00, 0.33, 0.50, 0.20
HSL	21°, 50%, 60%
HSV	21°, 50%, 80%
XYZ	36.2458, 31.6880, 16.7764
YIQ	153.0430, 51.1670, 3.3190

# Conversions

## Conversions Part 2

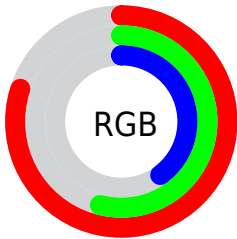
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	204, 155, 102
Decimal	13404518
CIE <sub>Lab</sub>	63.08, 21.70, 29.13
CIE <sub>LCh</sub>	63, 36.329, 53.312
Yxy	31.6880, 0.4279, 0.3741
Android (android.graphics.Color)	4291594598 (0xFFCC8966)
YUV	153.0430, -25.1642, 44.6893
Hunter-Lab	56.2921, 16.4228, 21.7346

# Details

The XYZ color **36.2458, 31.6880, 16.7764** is a dark color, and the websafe version is hex **CC9966**. A complement of this color would be **30.5659, 35.5588, 62.3792**, and the grayscale version is **30.3882, 31.9708, 34.8162**.

A 20% lighter version of the original color is **65.6206, 60.8215, 38.4181**, and **16.1067, 13.2858, 5.2055** is the 20% darker color. If you saturate the color by 10%, you get **33.5681, 27.7573, 11.4918**, and if you desaturate by 10%, it is **39.4106, 36.1945, 23.4521**.

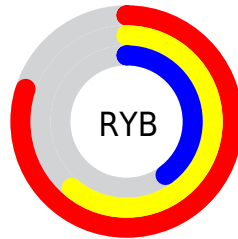
# Distribution



Red (80%)

Green (54%)

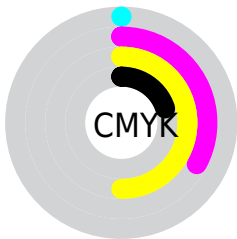
Blue (40%)



Red (80%)

Yellow (61%)

Blue (40%)

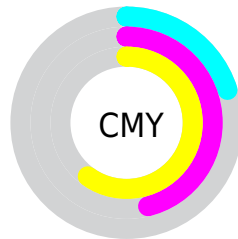


Cyan (0%)

Magenta (33%)

Yellow (50%)

Black (20%)



Cyan (20%)

Magenta (46%)


Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.2458, 31.6880, 16.7764 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 36.2458, 31.6880, 16.7764 by changing the saturation by 10% instead.





 36.2458, 31.6880,  
16.7764


 36.2458, 31.6880,  
16.7764


321.4461,  
309.6955, 245.8807

 24.7951, 21.1233,  
9.9149


 68.7327, 62.3217,  
38.7263

 16.0524, 13.2142,  
5.2377


 90.4995, 83.1594,  
54.6518

 9.6523, 7.5762,  
2.3262


 116.4358,  
108.1903, 74.4357

 5.2295, 3.8250,  
0.7459

 146.9069,  
137.7987, 98.4966

 2.4187, 1.5761,  
0.0000

182.2781,  
172.3690, 127.2530

 0.8544, 0.3414,  
0.0000

222.9148,

 0.0000, 0.0000,

212.2857, 161.1235

0.0000

269.1824,  
257.9330, 200.5265

■ 36.2458, 31.6880,  
16.7764

■ 36.2458, 31.6880,  
16.7764

■ 33.5681, 27.7573,  
11.4918

■ 39.4106, 36.1945,  
23.4521

■ 31.3479, 24.3731,  
7.4956

■ 43.0850, 41.2952,  
31.6077

■ 29.5556, 21.5101,  
4.6738


■ 47.2929, 47.0133,  
41.3268


■ 28.1563, 19.1386,  
2.8908


■ 52.0558, 53.3695,  
52.6863


■ 27.0926, 17.2189,  
1.8957

■ 57.3941, 60.3831,  
65.7576

 27.0925, 17.2188,  
1.8956

 63.3269, 68.0730,  
80.6084

 69.8725, 76.4571,  
97.3022

 75.3621, 84.8779,  
107.0188

 78.7118, 91.5773,  
108.1354

# Harmonies

## Analogous

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



39.8556, 31.6880, 24.6995



36.2458, 31.6880, 16.7764



31.2540, 31.6880, 13.7212

# Triad

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



36.2458, 31.6880, 16.7764



21.5312, 31.6880, 31.3896



34.0922, 31.6880, 66.5320

# Complementary

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



36.2458, 31.6880, 16.7764



30.5659, 35.5588, 62.3792

# 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.



29.0109, 31.6880, 69.7806



36.2458, 31.6880, 16.7764



22.1124, 31.6880, 46.6076

# Square

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



36.2458, 31.6880, 16.7764



23.0377, 31.6880, 20.5097



24.7238, 31.6880, 61.6791



38.5191, 31.6880, 53.7416



# Rectangle

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



36.2458, 31.6880, 16.7764



27.9553, 31.6880, 14.0226



24.7238, 31.6880, 61.6791



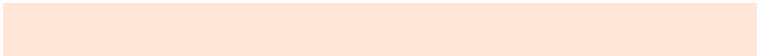
32.3905, 31.6880, 68.8994

# Sweetspot

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



36.2466, 31.6896, 16.7770



81.9944, 82.7818, 77.1322



36.9090, 25.2426, 40.9574



17.1951, 17.2438, 15.6658



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.



36.2466, 31.6896, 16.7770



55.2777, 45.4982, 18.4390



45.0705, 49.3374, 19.7183



11.5219, 11.8327, 11.7561



17.1309, 10.9947, 1.2193



0.9541, 0.7079, 0.0864



# Inverse Universe

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



30.5659, 35.5588, 62.3792



44.7659, 52.5176, 102.3852



22.9757, 20.3784, 59.8491



11.2065, 12.0535, 14.3063



12.3145, 13.6530, 37.9425



0.7042, 0.8421, 1.9804



# Previews

## White Background



This preview shows how the XYZ color 36.2458, 31.6880, 16.7764 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

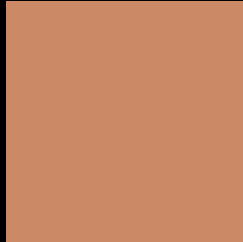
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 36.2458, 31.6880, 16.7764 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

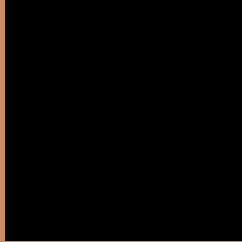
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 36.2458, 31.6880, 16.7764**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.2458, 31.6880, 16.7764.



This preview shows how white text looks on a background with the XYZ color 36.2458, 31.6880,



# 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

36.2458, 31.6880, 16.7764

### Protanopia

29.6686, 31.8859, 19.0589

### Deuteranopia

32.3463, 31.6682, 16.4643



## Tritanopia

38.8659, 31.7209, 29.6655

# Trichromacy



## Original Color

36.2458, 31.6880, 16.7764

## Protanomaly

31.6256, 31.4918, 18.0473

## Deuteranomaly

33.6573, 31.6609, 16.6491

## Tritanomaly

37.8095, 31.7043, 24.2054

# Monochromacy



## Original Color

36.2458, 31.6880, 16.7764

## Achromatopsia

30.2779, 31.8547, 34.6897

## Achromatomaly

31.7501, 31.3593, 26.9338

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.2458, 31.6880, 16.7764 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, 137, 102)` looks like.

```
.text, #text, p{  
    color:rgb(204, 137, 102)  
}
```

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, 137, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 137, 102) }
```

## Border

The CSS property to change the border of an element to XYZ 36.2458, 31.6880, 16.7764 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, 137, 102) }
```



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

```
.border{ border-color:rgb(204, 137, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 137, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 137, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 137, 102);  
box-shadow:4px 4px 4px 4px rgb(204, 137,  
102) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.2458, 31.6880, 16.7764 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 137, 102) }
```

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

```
.background{ background-color: rgb(204,  
137, 102) }
```

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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