

# Converting Colors

XYZ(33.0399, 29.4899, 16.9570)

Have a look what the booklet for  
XYZ(33.0399, 29.4899, 16.9570)  
contains.

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# Color

**XYZ(33.0161, 29.3871,  
17.0288)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C18668
RGB	193, 134, 104
RGB Percent	76%, 53%, 41%
CMY	0.2431, 0.4745, 0.5922
CMYK	0.00, 0.31, 0.46, 0.24
HSL	20°, 42%, 58%
HSV	20°, 46%, 76%
XYZ	33.0161, 29.3871, 17.0288
YIQ	148.2210, 44.7940, 3.1780

# Conversions

## Conversions Part 2

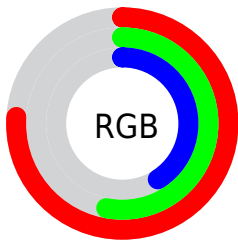
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	193, 149, 104
Decimal	12682856
CIE <sub>Lab</sub>	61.12, 19.06, 25.21
CIE <sub>LCh</sub>	61, 31.605, 52.916
Yxy	29.3871, 0.4157, 0.3700
Android (android.graphics.Color)	4290872936 (0xFFC18668)
YUV	148.2210, -21.8010, 39.2712
Hunter-Lab	54.2099, 13.8468, 19.3223

# Details

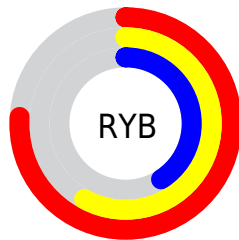
The XYZ color **33.0161, 29.3871, 17.0288** is a dark color, and the websafe version is hex **CC9966**. A complement of this color would be **28.4311, 32.9863, 55.3205**, and the grayscale version is **28.3163, 29.7909, 32.4423**.

A 20% lighter version of the original color is **63.4704, 58.4164, 38.9406**, and **14.2007, 11.9445, 5.2984** is the 20% darker color. If you saturate the color by 10%, you get **30.4832, 25.7148, 11.8890**, and if you desaturate by 10%, it is **35.9887, 33.5799, 23.4226**.

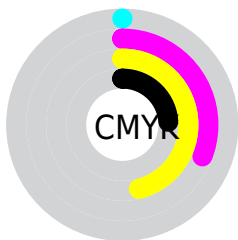
# Distribution



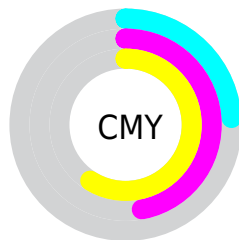
- Red (76%)
- Green (53%)
- Blue (41%)



- Red (76%)
- Yellow (58%)
- Blue (41%)



- Cyan (0%)
- Magenta (31%)
- Yellow (46%)
- Black (24%)




- Cyan (24%)
- Magenta (47%)
- Yellow (59%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.0161, 29.3871, 17.0288 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 33.0161, 29.3871, 17.0288 by changing the saturation by 10% instead.





 33.0161, 29.3871,  
17.0288


 33.0161, 29.3871,  
17.0288


307.3860,  
299.0370, 247.3879


 22.2981, 19.3738,  
10.0929


 63.7552, 58.6916,  
39.1666


 14.1939, 11.9407,  
5.3542


 84.5069, 78.7515,  
55.2056

 8.3383, 6.7033,  
2.3942


 109.3340,  
102.9292, 75.1159

 4.3658, 3.2773,  
0.7833

 138.6017,  
131.6090, 99.3162

 1.9111, 1.2781,  
0.0000

172.6754,  
165.1753, 128.2251

 0.5833, 0.1242,  
0.0000

211.9204,

 0.0000, 0.0000,

204.0125, 162.2609

0.0000

256.7022,  
248.5049, 201.8423

■ 33.0161, 29.3871,  
17.0288

■ 33.0161, 29.3871,  
17.0288

■ 30.4832, 25.7148,  
11.8890

■ 35.9887, 33.5799,  
23.4226

■ 28.3649, 22.5373,  
7.9173

■ 39.4202, 38.3089,  
31.1451

■ 26.6361, 19.8329,  
5.0195


■ 43.3311, 43.5945,  
40.2671


■ 25.2682, 17.5764,  
3.0857


■ 47.7398, 49.4547,  
50.8538


■ 24.2259, 15.7389,  
1.9765


■ 52.6640, 55.9065,  
62.9664

 23.8864, 15.1256,  
1.6606

 58.1203, 62.9664,  
76.6625

 64.1245, 70.6500,  
91.9967

 70.1393, 78.7515,  
106.1116

 73.9631, 86.3990,  
107.3862

# Harmonies

## Analogous

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



35.9310, 29.3871, 23.9100



33.0161, 29.3871, 17.0288



28.9256, 29.3871, 14.2760

# Triad

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



33.0161, 29.3871, 17.0288



20.7480, 29.3871, 29.2655



31.1500, 29.3871, 57.9501

# Complementary

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



33.0161, 29.3871, 17.0288



28.4311, 32.9863, 55.3205

# 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.



26.9606, 29.3871, 60.4007



33.0161, 29.3871, 17.0288



21.2173, 29.3871, 41.7297

# Square

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



33.0161, 29.3871, 17.0288



22.0458, 29.3871, 20.1172



23.3978, 29.3871, 53.8692



34.7814, 29.3871, 47.8215



# Rectangle

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



33.0161, 29.3871, 17.0288



26.1883, 29.3871, 14.5127



23.3978, 29.3871, 53.8692



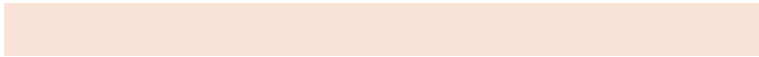
29.7505, 29.3871, 59.7870

# Sweetspot

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



33.0168, 29.3885, 17.0294



79.0327, 79.9864, 75.5055



33.5835, 23.8946, 37.6493



16.6043, 16.6902, 15.3656



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



33.0168, 29.3885, 17.0294



54.7009, 46.2102, 21.4988



40.4446, 44.2441, 19.5053



10.3445, 10.6205, 10.5666



15.9541, 10.1940, 1.1268



0.7537, 0.5692, 0.0701



# Inverse Universe

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



28.4311, 32.9863, 55.3205



45.4690, 53.3490, 98.2612



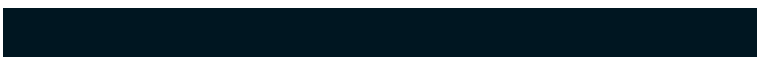
21.9118, 19.9476, 53.1474



10.0733, 10.8379, 12.8458



11.6069, 12.9703, 35.4484



0.5630, 0.6835, 1.5521



# Previews

## White Background



This preview shows how the XYZ color 33.0161, 29.3871, 17.0288 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

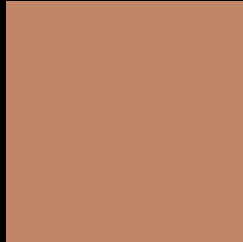
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.0161, 29.3871, 17.0288 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

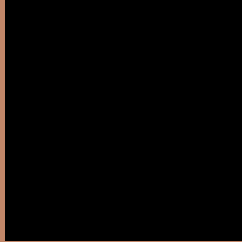
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 33.0161, 29.3871, 17.0288**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.0161, 29.3871, 17.0288.



This preview shows how white text looks on a background with the XYZ color 33.0161, 29.3871,



# 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

33.0161, 29.3871, 17.0288

### Protanopia

27.7025, 29.6765, 19.0199

### Deuteranopia

30.0257, 29.5554, 16.9542



## Tritanopia

35.2754, 29.3004, 28.2224

# Trichromacy



## Original Color

33.0161, 29.3871, 17.0288

## Protanomaly

29.3238, 29.3856, 18.3138

## Deuteranomaly

30.9722, 29.3896, 16.8723

## Tritanomaly

34.3879, 29.3411, 23.5896

# Monochromacy



## Original Color

33.0161, 29.3871, 17.0288

## Achromatopsia

28.1479, 29.6138, 32.2495

## Achromatomaly

29.2972, 29.2034, 25.9225

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.0161, 29.3871, 17.0288 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(193, 134, 104)` looks like.

```
.text, #text, p{  
    color:rgb(193, 134, 104)  
}
```

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(193, 134, 104) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(193, 134, 104) }
```

## Border

The CSS property to change the border of an element to XYZ 33.0161, 29.3871, 17.0288 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(193, 134, 104) }
```



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

```
.border{ border-color:rgb(193, 134, 104) }
```

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

Here you see how a box with a 4 pixel `rgb(193, 134, 104)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(193, 134, 104); -webkit-box-  
shadow:4px 4px 4px 4px rgb(193, 134, 104);  
box-shadow:4px 4px 4px 4px rgb(193, 134,  
104) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.0161, 29.3871, 17.0288 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(193, 134, 104) }
```

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

```
.background{ background-color: rgb(193,  
134, 104) }
```

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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