

# Converting Colors

XYZ(33.3022, 30.1077, 19.4441)

Have a look what the booklet for  
XYZ(33.3022, 30.1077, 19.4441)  
contains.

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# Color

**XYZ(33.3561, 30.1375,  
19.3883)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	BF8970
RGB	191, 137, 112
RGB Percent	75%, 54%, 44%
CMY	0.2510, 0.4627, 0.5608
CMYK	0.00, 0.28, 0.41, 0.25
HSL	19°, 38%, 59%
HSV	19°, 41%, 75%
XYZ	33.3561, 30.1375, 19.3883
YIQ	150.2960, 40.2090, 3.6730

# Conversions

## Conversions Part 2

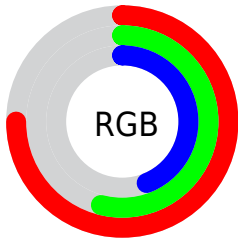
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	191, 149, 112
Decimal	12552560
CIE <sub>Lab</sub>	61.77, 17.45, 21.57
CIE <sub>LCh</sub>	62, 27.749, 51.024
Yxy	30.1375, 0.4025, 0.3636
Android (android.graphics.Color)	4290742640 (0xFFBF8970)
YUV	150.2960, -18.8799, 35.6974
Hunter-Lab	54.8976, 12.3867, 17.4888

# Details

The XYZ color **33.3561, 30.1375, 19.3883** is a dark color, and the websafe version is hex **CC9966**. A complement of this color would be **29.7217, 34.4774, 54.3784**, and the grayscale version is **29.1816, 30.7013, 33.4337**.

A 20% lighter version of the original color is **64.3986, 60.0817, 43.3247**, and **14.3253, 12.3375, 6.4768** is the 20% darker color. If you saturate the color by 10%, you get **30.6586, 26.2678, 13.7873**, and if you desaturate by 10%, it is **36.5053, 34.5495, 26.2534**.

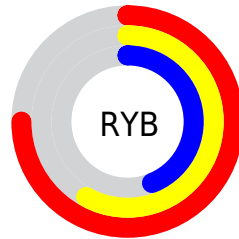
# Distribution



Red (75%)

Green (54%)

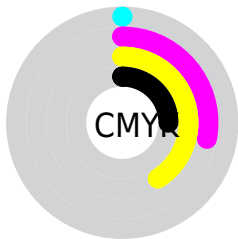
Blue (44%)



Red (75%)

Yellow (58%)

Blue (44%)

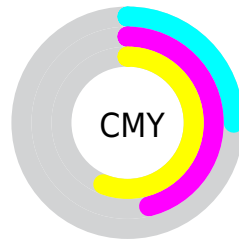


Cyan (0%)

Magenta (28%)

Yellow (41%)

Black (25%)



Cyan (25%)

Magenta (46%)


Yellow (56%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.3561, 30.1375, 19.3883 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 33.3561, 30.1375, 19.3883 by changing the saturation by 10% instead.





 33.3561, 30.1375,  
19.3883

 33.3561, 30.1375,  
19.3883


308.8880,  
302.5448, 261.0779

 22.5599, 19.9430,  
11.7715


 64.2821, 59.8796,  
43.2346


 14.3878, 12.3536,  
6.4677


 85.1425, 80.1959,  
60.3013

 8.4744, 6.9850,  
3.0581


 110.0885,  
104.6549, 81.3549

 4.4543, 3.4527,  
1.1244

 139.4853,  
133.6411, 106.8142

 1.9622, 1.3724,  
0.0000

173.6983,  
167.5388, 137.0976

 0.6126, 0.1962,  
0.0000

213.0928,

 0.0000, 0.0000,

206.7324, 172.6236

0.0000

258.0343,  
251.6063, 213.8109

■ 33.3561, 30.1375,  
19.3883

■ 33.3561, 30.1375,  
19.3883

■ 30.6586, 26.2678,  
13.7873

■ 36.5053, 34.5495,  
26.2534

■ 28.3882, 22.9142,  
9.3702

■ 40.1245, 39.5198,  
34.4525

■ 26.5211, 20.0550,  
6.0502


■ 44.2340, 45.0692,  
44.0524


■ 25.0299, 17.6647,  
3.7277


■ 48.8519, 51.2160,  
55.1149


■ 23.8832, 15.7154,  
2.2847


■ 53.9955, 57.9777,  
67.6981

 23.1255, 14.3557,  
1.5521

 59.6812, 65.3710,  
81.8570

 65.9246, 73.4121,  
97.6438

 71.1222, 81.4691,  
106.5843

 75.1355, 89.4958,  
107.9221

# Harmonies

## Analogous

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



35.8109, 30.1375, 26.0351



33.3561, 30.1375, 19.3883



29.7690, 30.1375, 16.5248

# Triad

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



33.3561, 30.1375, 19.3883



22.1773, 30.1375, 29.7376



31.2733, 30.1375, 55.7406

# Complementary

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



33.3561, 30.1375, 19.3883



29.7217, 34.4774, 54.3784

# 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.



27.5492, 30.1375, 57.3310



33.3561, 30.1375, 19.3883



22.5047, 30.1375, 40.6794

# Square

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



33.3561, 30.1375, 19.3883



23.4630, 30.1375, 21.5961



24.3994, 30.1375, 51.3368



34.5383, 30.1375, 47.3690



# Rectangle

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



33.3561, 30.1375, 19.3883



27.3060, 30.1375, 16.6050



24.3994, 30.1375, 51.3368



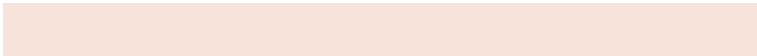
30.0267, 30.1375, 57.1478

# Sweetspot

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



33.3569, 30.1390, 19.3889



78.5790, 79.8549, 77.3741



34.2829, 25.4661, 39.8134



17.0325, 17.2362, 16.4655



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.



33.3569, 30.1390, 19.3889



55.1640, 47.4151, 25.2058



39.7794, 42.9841, 21.5298



9.7700, 10.0160, 9.9950



15.2625, 9.5639, 1.0416



0.6582, 0.4954, 0.0609



# Inverse Universe

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



29.7217, 34.4774, 54.3784



47.7139, 56.2101, 96.6140



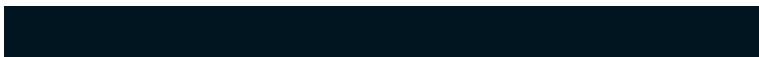
23.7794, 22.5929, 52.3976



9.5470, 10.2863, 12.1545



11.5491, 13.2098, 34.3340



0.5087, 0.6300, 1.3637



# Previews

## White Background



This preview shows how the XYZ color 33.3561, 30.1375, 19.3883 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

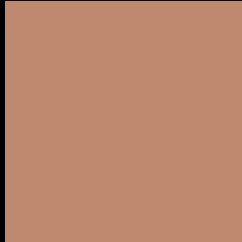
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.3561, 30.1375, 19.3883 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

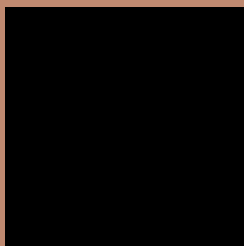
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 33.3561, 30.1375, 19.3883**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.3561, 30.1375, 19.3883.



This preview shows how white text looks on a background with the XYZ color 33.3561, 30.1375,



# 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

33.3561, 30.1375, 19.3883

### Protanopia

28.3155, 30.1738, 21.4713

### Deuteranopia

30.8232, 30.1397, 19.2319



## Tritanopia

35.5936, 30.2276, 29.9451

# Trichromacy



## Original Color

33.3561, 30.1375, 19.3883

## Protanomaly

30.0724, 30.1697, 20.7613

## Deuteranomaly

31.6855, 30.1425, 19.1870

## Tritanomaly

34.6823, 30.0536, 25.8028

# Monochromacy



## Original Color

33.3561, 30.1375, 19.3883

## Achromatopsia

28.9890, 30.4987, 33.2131

## Achromatomaly

30.0864, 30.0277, 27.5028

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.3561, 30.1375, 19.3883 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(191, 137, 112)` looks like.

```
.text, #text, p{  
    color:rgb(191, 137, 112)  
}
```

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(191, 137, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(191, 137, 112) }
```

## Border

The CSS property to change the border of an element to XYZ 33.3561, 30.1375, 19.3883 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(191, 137, 112) }
```



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

```
.border{ border-color:rgb(191, 137, 112) }
```

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

Here you see how a box with a 4 pixel `rgb(191, 137, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(191, 137, 112); -webkit-box-shadow:4px 4px 4px 4px rgb(191, 137, 112); box-shadow:4px 4px 4px 4px rgb(191, 137, 112) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.3561, 30.1375, 19.3883 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(191, 137, 112) }
```

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

```
.background{ background-color: rgb(191,  
137, 112) }
```

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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