

# Converting Colors

XYZ(33.6922, 31.9997, 24.6510)

Have a look what the booklet for  
XYZ(33.6922, 31.9997, 24.6510)  
contains.

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# Color

**XYZ(33.7888, 31.9997,  
24.8178)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	<b>B89180</b>
RGB	<b>184, 145, 128</b>
RGB Percent	<b>72%, 57%, 50%</b>
CMY	<b>0.2784, 0.4314, 0.4980</b>
CMYK	<b>0.00, 0.21, 0.30, 0.28</b>
HSL	<b>18°, 28%, 61%</b>
HSV	<b>18°, 30%, 72%</b>
XYZ	<b>33.7888, 31.9997, 24.8178</b>
YIQ	<b>154.7230, 28.7010, 2.9810</b>

# Conversions

## Conversions Part 2

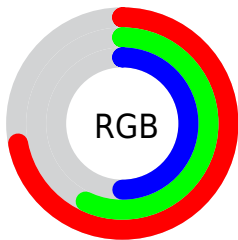
<b>Format</b>	<b>Color</b>
<b>RYB</b>	184, 152, 128
Decimal	12095872
CIELab	63.34, 12.21, 14.63
CIELCh	63, 19.051, 50.158
Yxy	31.9997, 0.3729, 0.3532
Android (android.graphics.Color)	4290285952 (0xFFB89180)
YUV	154.7230, -13.1744, 25.6759
Hunter-Lab	56.5683, 7.6254, 13.5859

# Details

The XYZ color **33.7888, 31.9997, 24.8178** is a light color, and the websafe version is hex **CC9999**. A complement of this color would be **31.3720, 35.6860, 50.5819**, and the grayscale version is **31.0815, 32.7001, 35.6105**.

A 20% lighter version of the original color is **65.0395, 62.8838, 52.4259**, and **14.6199, 13.3157, 9.1968** is the 20% darker color. If you saturate the color by 10%, you get **30.8373, 27.8621, 18.3909**, and if you desaturate by 10%, it is **37.1825, 36.6698, 32.4763**.

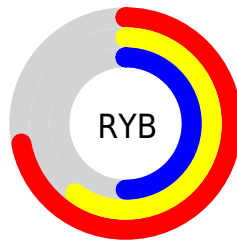
# Distribution



Red (72%)

Green (57%)

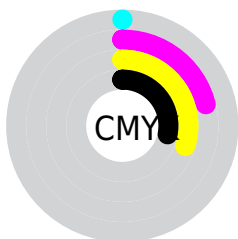
Blue (50%)



Red (72%)

Yellow (60%)

Blue (50%)

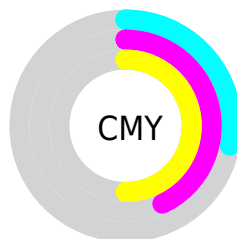


Cyan (0%)

Magenta (21%)

Yellow (30%)

Black (28%)



Cyan (28%)

Magenta (43%)


Yellow (50%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.7888, 31.9997, 24.8178 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 33.7888, 31.9997, 24.8178 by changing the saturation by 10% instead.





 33.7888, 31.9997,  
24.8178


 33.7888, 31.9997,  
24.8178


310.7918,  
311.1179, 290.3479


 22.8935, 21.3613,  
15.7236

 64.9516, 62.8106,  
52.3219

 14.6352, 13.3883,  
9.1765


 85.9498, 83.7519,  
71.5689

 8.6484, 7.6965,  
4.7581


 111.0463,  
108.8962, 95.0373

 4.5678, 3.9014,  
2.0498

140.6066,  
138.6281, 123.1455

 2.0281, 1.6185,  
0.5857

174.9959,  
173.3317, 156.3121

 0.6497, 0.3701,  
0.0000

214.5797,

 0.0000, 0.0000,

213.3917, 194.9557

0.0000

259.7232,  
259.1923, 239.4948

■ 33.7888, 31.9997,  
24.8178

■ 33.7888, 31.9997,  
24.8178

■ 30.8373, 27.8621,  
18.3909

■ 37.1825, 36.6698,  
32.4763

■ 28.3062, 24.2332,  
13.1287

■ 41.0338, 41.8862,  
41.4247

■ 26.1757, 21.0939,  
8.9608


■ 45.3605, 47.6679,  
51.7197


■ 24.4232, 18.4221,  
5.8082


■ 50.1785, 54.0314,  
63.4143

■ 23.0236, 16.1937,  
3.5814


■ 55.5030, 60.9927,  
76.5584


 21.9479, 14.3824,  
2.1746

 61.3488, 68.5671,  
91.1996

 21.1750, 13.0062,  
1.3944

 67.4383, 76.6526,  
105.8488

 71.2335, 84.2431,  
107.1139

 73.5771, 88.9303,  
107.8951

# Harmonies

## Analogous

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



35.4401, 31.9997, 30.0627



33.7888, 31.9997, 24.8178



31.2919, 31.9997, 22.3776

# Triad

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



33.7888, 31.9997, 24.8178



25.6766, 31.9997, 32.4128



32.2002, 31.9997, 50.3718

# Complementary

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



33.7888, 31.9997, 24.8178



31.3720, 35.6860, 50.5819

# 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.



29.5542, 31.9997, 51.2429



33.7888, 31.9997, 24.8178



25.8884, 31.9997, 40.1033

# Square

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



33.7888, 31.9997, 24.8178



26.6766, 31.9997, 26.3234



27.2731, 31.9997, 47.2570



34.4867, 31.9997, 45.0253



# Rectangle

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



33.7888, 31.9997, 24.8178



29.5271, 31.9997, 22.3880



27.2731, 31.9997, 47.2570



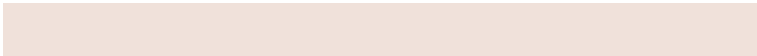
31.3200, 31.9997, 51.2249

# Sweetspot

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



33.7896, 32.0012, 24.8185



75.3431, 77.2177, 77.3503



34.4800, 28.4264, 40.3259



16.0097, 16.3338, 16.1270



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988



# Same Dimension

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



33.7896, 32.0012, 24.8185



57.3289, 52.5249, 36.3996



38.5687, 41.5594, 26.4115



9.2210, 9.4450, 9.4440



14.6492, 9.0747, 0.9795



0.5727, 0.4325, 0.0533



# Inverse Universe

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



31.3720, 35.6860, 50.5819



52.1846, 60.3267, 91.0984



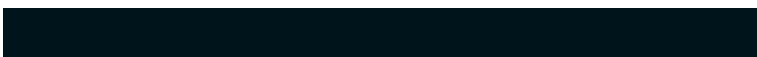
26.8157, 26.5735, 49.0631



9.0303, 9.7378, 11.4831



11.3589, 13.1774, 33.1979



0.4522, 0.5681, 1.1876



# Previews

## White Background



This preview shows how the XYZ color 33.7888, 31.9997, 24.8178 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

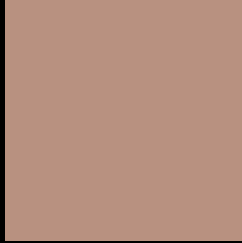
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.7888, 31.9997, 24.8178 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 33.7888, 31.9997, 24.8178**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.7888, 31.9997, 24.8178.



This preview shows how white text looks on a background with the XYZ color 33.7888, 31.9997,



# 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

33.7888, 31.9997, 24.8178

### Protanopia

30.2540, 32.0255, 26.4168

### Deuteranopia

32.7808, 32.1771, 24.5617



## Tritanopia

35.6859, 31.8815, 33.9787

# Trichromacy



## Original Color

33.7888, 31.9997, 24.8178

## Protanomaly

31.3653, 31.8864, 25.9743

## Deuteranomaly

33.0869, 32.1030, 24.5313

## Tritanomaly

34.8806, 31.7683, 30.2801

# Monochromacy



## Original Color

33.7888, 31.9997, 24.8178

## Achromatopsia

31.1553, 32.7778, 35.6950

## Achromatomaly

31.9033, 32.2845, 31.3381

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.7888, 31.9997, 24.8178 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(184, 145, 128)` looks like.

```
.text, #text, p{  
    color:rgb(184, 145, 128)  
}
```

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(184, 145, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(184, 145, 128) }
```

## Border

The CSS property to change the border of an element to XYZ 33.7888, 31.9997, 24.8178 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(184, 145, 128) }
```



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

```
.border{ border-color:rgb(184, 145, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(184, 145, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(184, 145, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(184, 145, 128);  
box-shadow:4px 4px 4px 4px rgb(184, 145,  
128) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.7888, 31.9997, 24.8178 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(184, 145, 128) }
```

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

```
.background{ background-color: rgb(184,  
145, 128) }
```

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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