

# Converting Colors

XYZ(33.1794, 29.8113, 4.5057)

Have a look what the booklet for  
XYZ(33.1794, 29.8113, 4.5057)  
contains.

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# Color

**XYZ(33.2472, 29.7841,  
4.4868)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CB8610
RGB	203, 134, 16
RGB Percent	80%, 53%, 6%
CMY	0.2039, 0.4745, 0.9372
CMYK	0.00, 0.34, 0.92, 0.20
HSL	38°, 85%, 43%
HSV	38°, 92%, 80%
XYZ	33.2472, 29.7841, 4.4868
YIQ	141.1790, 79.0020, -22.0700

# Conversions

## Conversions Part 2

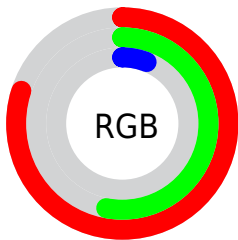
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	125, 203, 16
Decimal	13338128
CIE <sub>Lab</sub>	61.47, 18.39, 64.48
CIE <sub>LCh</sub>	61, 67.054, 74.086
Yxy	29.7841, 0.4924, 0.4411
Android (android.graphics.Color)	4291528208 (0xFFCB8610)
YUV	141.1790, -61.7132, 54.2170
Hunter-Lab	54.5748, 13.2370, 33.3279

# Details

The XYZ color **33.2472, 29.7841, 4.4868** is a dark color, and the websafe version is hex **CC9933**. The color can be described as dark washed orange. A complement of this color would be **14.2418, 10.9191, 57.8564**, and the grayscale version is **25.6018, 26.9351, 29.3323**.

A 20% lighter version of the original color is **60.3499, 57.3365, 14.9074**, and **14.4980, 12.1803, 1.5869** is the 20% darker color. If you saturate the color by 10%, you get **32.3606, 28.1607, 3.7300**, and if you desaturate by 10%, it is **34.5497, 32.0219, 6.0537**.

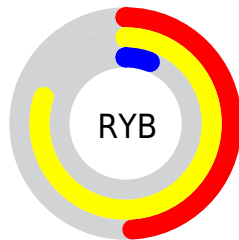
# Distribution



Red (80%)

Green (53%)

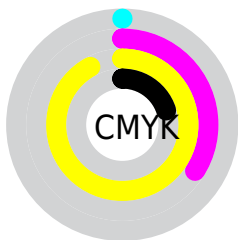
Blue (6%)



Red (49%)

Yellow (80%)

Blue (6%)

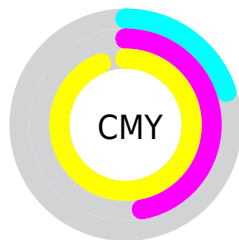


Cyan (0%)

Magenta (34%)

Yellow (92%)

Black (20%)



Cyan (20%)

Magenta (47%)

Yellow (94%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.2472, 29.7841, 4.4868 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 33.2472, 29.7841, 4.4868 by changing the saturation by 10% instead.





 33.2472, 29.7841,  
4.4868


 33.2472, 29.7841,  
4.4868

308.4075,  
300.8968, 153.4915


 22.4760, 19.6748,  
1.8960


 64.1134, 59.3206,  
15.1178

 14.3257, 12.1589,  
0.4902


 84.9391, 79.5165,  
23.9950


 8.4307, 6.8520,  
0.0000


 109.8470,  
103.8434, 35.8048

 4.4259, 3.3697,  
0.0000

 139.2025,  
132.6858, 50.9658

 1.9458, 1.3276,  
0.0000

 173.3710,  
166.4279, 69.8964

 0.6032, 0.1625,  
0.0000

 212.7177,

 0.0000, 0.0000,

205.4541, 93.0152

0.0000

257.6081,  
250.1490, 120.7407

33.2472, 29.7841,  
4.4868

33.2472, 29.7841,  
4.4868

32.3606, 28.1607,  
3.7300

34.5497, 32.0219,  
6.0537

36.1023, 34.4783,  
8.5719

37.9331, 37.1678,  
12.1788

40.0650, 40.1020,  
16.9888

42.5183, 43.2909,  
23.1014

■ 45.3110, 46.7442,  
30.6059

■ 48.4599, 50.4703,  
39.5836

■ 51.9804, 54.4775,  
50.1095

■ 55.8868, 58.7735,  
62.2533

# Harmonies

## Analogous

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



42.4109, 29.7841, 8.9354



33.2472, 29.7841, 4.4868



24.3577, 29.7841, 4.3798

# Triad

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



33.2472, 29.7841, 4.4868



14.7800, 29.7841, 45.8290



41.9093, 29.7841, 81.6849

# Complementary

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



33.2472, 29.7841, 4.4868



14.2418, 10.9191, 57.8564

# 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.



32.6658, 29.7841, 106.6160



33.2472, 29.7841, 4.4868



17.7409, 29.7841, 79.6629

# Square

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



33.2472, 29.7841, 4.4868



14.8715, 29.7841, 20.7966



23.8855, 29.7841, 105.7271



48.0809, 29.7841, 47.7499



# Rectangle

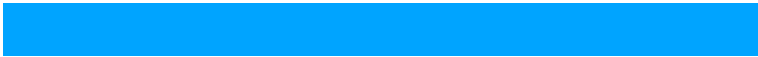
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



33.2472, 29.7841, 4.4868



19.7862, 29.7841, 6.4665



23.8855, 29.7841, 105.7271



38.9830, 29.7841, 92.0307

# Sweetspot

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



33.2479, 29.7856, 4.4874



77.7740, 80.5523, 56.5769



26.5623, 13.7666, 10.4221



16.1729, 16.6724, 10.7840



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.



33.2479, 29.7856, 4.4874



53.9698, 46.7197, 6.1733



40.5484, 52.5949, 8.5052



11.7924, 12.3737, 11.8463



20.6839, 18.1007, 2.4036



1.1380, 1.0758, 0.1477



# Inverse Universe

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



14.2418, 10.9191, 57.8564



22.0604, 15.2407, 96.3868



11.7576, 5.0913, 56.8624



10.9351, 11.5106, 14.2158



8.5371, 6.0982, 36.6834



0.5125, 0.4587, 1.9165



# Previews

## White Background



This preview shows how the XYZ color 33.2472, 29.7841, 4.4868 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 33.2472, 29.7841, 4.4868 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 33.2472, 29.7841, 4.4868**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.2472, 29.7841, 4.4868.



This preview shows how white text looks on a background with the XYZ color 33.2472, 29.7841,

4.4868.

# 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

33.2472, 29.7841, 4.4868

### Protanopia

27.0313, 29.8739, 5.0510

### Deuteranopia

30.2639, 29.7411, 4.1455



## Tritanopia

37.9312, 29.9438, 26.3348

# Trichromacy



## Original Color

33.2472, 29.7841, 4.4868

## Protanomaly

29.1469, 29.8173, 4.8352

## Deuteranomaly

31.1137, 29.5276, 4.2318

## Tritanomaly

35.3396, 29.4591, 13.7211

# Monochromacy



## Original Color

33.2472, 29.7841, 4.4868

## Achromatopsia

25.3171, 26.6356, 29.0061

## Achromatomaly

26.5096, 26.9140, 14.8640

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.2472, 29.7841, 4.4868 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(203, 134, 16)` looks like.

```
.text, #text, p{  
    color:rgb(203, 134, 16)  
}
```

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(203, 134, 16) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 134, 16) }
```

## Border

The CSS property to change the border of an element to XYZ 33.2472, 29.7841, 4.4868 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(203, 134, 16) }
```



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

```
.border{ border-color:rgb(203, 134, 16) }
```

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

Here you see how a box with a 4 pixel `rgb(203, 134, 16)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 134, 16); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 134, 16);  
box-shadow:4px 4px 4px 4px rgb(203, 134,  
16) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.2472, 29.7841, 4.4868 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 134, 16) }
```

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

```
.background{ background-color: rgb(203,  
134, 16) }
```

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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