

# Converting Colors

XYZ(31.4970, 27.8800, 4.2115)

Have a look what the booklet for  
XYZ(31.4970, 27.8800, 4.2115)  
contains.

<b>XYZ(31.4970, 27.8800, 4.2115)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(31.4970, 27.8800,  
4.2115)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C78110
RGB	199, 129, 16
RGB Percent	78%, 51%, 6%
CMY	0.2196, 0.4941, 0.9372
CMYK	0.00, 0.35, 0.92, 0.22
HSL	37°, 85%, 42%
HSV	37°, 92%, 78%
XYZ	31.4970, 27.8800, 4.2115
YIQ	137.0480, 77.9930, -20.3030

# Conversions

## Conversions Part 2

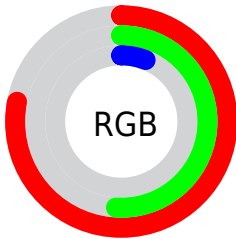
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	129, 199, 16
Decimal	13074704
CIE Lab	59.78, 19.36, 63.02
CIE LCh	60, 65.926, 72.918
Yxy	27.8800, 0.4953, 0.4384
Android (android.graphics.Color)	4291264784 (0xFFC78110)
YUV	137.0480, -59.6767, 54.3319
Hunter-Lab	52.8015, 14.0756, 32.2320

# Details

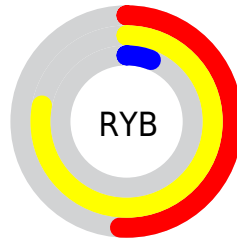
The XYZ color **31.4970, 27.8800, 4.2115** is a dark color, and the websafe version is hex **CC9933**. The color can be described as dark washed orange. A complement of this color would be **13.8504, 10.8894, 55.4044**, and the grayscale version is **23.9949, 25.2445, 27.4913**.

A 20% lighter version of the original color is **59.2725, 55.2377, 14.3754**, and **13.5161, 11.2263, 1.4545** is the 20% darker color. If you saturate the color by 10%, you get **30.6215, 26.2790, 3.4584**, and if you desaturate by 10%, it is **32.7614, 30.0515, 5.7354**.

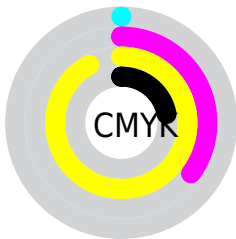
# Distribution



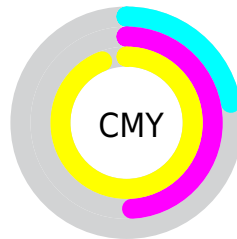
- Red (78%)
- Green (51%)
- Blue (6%)



- Red (51%)
- Yellow (78%)
- Blue (6%)



- Cyan (0%)
- Magenta (35%)
- Yellow (92%)
- Black (22%)




- Cyan (22%)
- Magenta (49%)
- Yellow (94%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.4970, 27.8800, 4.2115 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 31.4970, 27.8800, 4.2115 by changing the saturation by 10% instead.





 31.4970, 27.8800,  
4.2115


 31.4970, 27.8800,  
4.2115


300.6077,  
291.8931, 150.5480


 21.1313, 18.2352,  
1.7421


 61.3922, 56.2928,  
14.4947

 13.3330, 11.1190,  
0.3893


 81.6525, 75.8296,  
23.1455

 7.7368, 6.1469,  
0.0000


 105.9416, 99.4326,  
34.6939

 3.9774, 2.9346,  
0.0000

 134.6249,  
127.4860, 49.5584

 1.6894, 1.0977,  
0.0000

 168.0678,  
160.3744, 68.1575

 0.4496, 0.0000,  
0.0000

 206.6357,

 0.0000, 0.0000,

198.4821, 90.9097

0.0000

250.6938,  
242.1935, 118.2337

31.4970, 27.8800,  
4.2115

31.4970, 27.8800,  
4.2115

30.6215, 26.2790,  
3.4584

32.7614, 30.0515,  
5.7354

34.2701, 32.4416,  
8.1722

36.0497, 35.0645,  
11.6522

38.1223, 37.9314,  
16.2837

40.5072, 41.0523,  
22.1617

■ 43.2218, 44.4365,  
29.3710

■ 46.2820, 48.0925,  
37.9888

■ 49.7027, 52.0283,  
48.0865

■ 53.4977, 56.2516,  
59.7307

# Harmonies

## Analogous

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



40.0716, 27.8800, 8.5855



31.4970, 27.8800, 4.2115



23.0714, 27.8800, 3.9842

# Triad

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



31.4970, 27.8800, 4.2115



13.7350, 27.8800, 41.8321



38.9955, 27.8800, 77.9746

# Complementary

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



31.4970, 27.8800, 4.2115



13.8504, 10.8894, 55.4044

# 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.



30.2505, 27.8800, 100.7839



31.4970, 27.8800, 4.2115



16.4001, 27.8800, 73.6306

# Square

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



31.4970, 27.8800, 4.2115



13.9305, 27.8800, 18.7607



22.0600, 27.8800, 98.8733



44.9856, 27.8800, 45.9535



# Rectangle

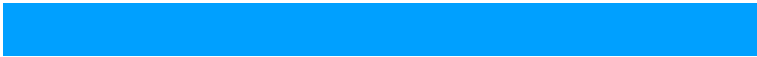
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



31.4970, 27.8800, 4.2115



18.7010, 27.8800, 5.8144



22.0600, 27.8800, 98.8733



36.2101, 27.8800, 87.5761

# Sweetspot

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



31.4976, 27.8814, 4.2120



77.5080, 80.0202, 56.4882



25.4244, 13.1872, 10.0420



16.1088, 16.5441, 10.7627



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.



31.4976, 27.8814, 4.2120



53.3756, 45.5311, 5.9752



38.7969, 50.3077, 8.1560



11.1700, 11.7092, 11.2341



19.7773, 17.0717, 2.2528



1.0049, 0.9452, 0.1295



# Inverse Universe

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



13.8504, 10.8894, 55.4044



22.3744, 15.8689, 96.4915



11.2699, 4.8942, 54.3832



10.3837, 10.9414, 13.4821



8.3745, 6.1430, 35.4887



0.4663, 0.4304, 1.7036



# Previews

## White Background



This preview shows how the XYZ color 31.4970, 27.8800, 4.2115 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 31.4970, 27.8800, 4.2115 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 31.4970, 27.8800, 4.2115**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.4970, 27.8800, 4.2115.



This preview shows how white text looks on a background with the XYZ color 31.4970, 27.8800,



# 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

31.4970, 27.8800, 4.2115

### Protanopia

25.3650, 28.0915, 4.7948

### Deuteranopia

28.4741, 27.9586, 3.8958



## Tritanopia

35.5808, 27.8553, 24.2702

# Trichromacy



## Original Color

31.4970, 27.8800, 4.2115

## Protanomaly

27.2547, 27.7424, 4.5344

## Deuteranomaly

29.5442, 27.8822, 3.9969

## Tritanomaly

33.2015, 27.4271, 12.7766

# Monochromacy



## Original Color

31.4970, 27.8800, 4.2115

## Achromatopsia

23.7775, 25.0158, 27.2422

## Achromatomaly

24.9981, 25.3141, 13.9245

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.4970, 27.8800, 4.2115 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(199, 129, 16)` looks like.

```
.text, #text, p{  
    color:rgb(199, 129, 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(199, 129, 16) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 129, 16) }
```

## Border

The CSS property to change the border of an element to XYZ 31.4970, 27.8800, 4.2115 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(199, 129, 16) }
```



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

```
.border{ border-color:rgb(199, 129, 16) }
```

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

Here you see how a box with a 4 pixel rgb(199, 129, 16) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 129, 16); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 129, 16);  
box-shadow:4px 4px 4px 4px rgb(199, 129,  
16) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.4970, 27.8800, 4.2115 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 129, 16) }
```

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

```
.background{ background-color: rgb(199,  
129, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor