

Converting Colors

XYZ(31.8899, 28.8217, 3.8821)

Have a look what the booklet for
XYZ(31.8899, 28.8217, 3.8821)
contains.

XYZ(31.9407, 28.9172, 3.8981)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(31.9407, 28.9172,
3.8981)**

Conversions

Conversions Part 1

Format	Color
Hex	C78500
RGB	199, 133, 0
RGB Percent	78%, 52%, 0%
CMY	0.2196, 0.4784, 1.0000
CMYK	0.00, 0.33, 1.00, 0.22
HSL	40°, 100%, 39%
HSV	40°, 100%, 78%
XYZ	31.9407, 28.9172, 3.8981
YIQ	137.5720, 82.0290, -27.3710

Conversions

Conversions Part 2

Format	Color
R _Y B	99, 199, 0
Decimal	13075712
CIE Lab	60.71, 16.98, 66.34
CIE LCh	61, 68.478, 75.643
Yxy	28.9172, 0.4932, 0.4466
Android (android.graphics.Color)	4291265792 (0xFFC78500)
YUV	137.5720, -67.8230, 53.8724
Hunter-Lab	53.7747, 11.9183, 33.3444

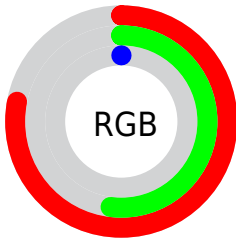
Details

The XYZ color **31.9407, 28.9172, 3.8981** is a dark color, and the websafe version is hex **CC9900**.

The color can be described as dark washed orange. A complement of this color would be **12.2572, 8.0203, 54.9343**, and the grayscale version is **24.2237, 25.4852, 27.7533**.

A 20% lighter version of the original color is **59.9044, 56.8200, 13.6044**, and **13.8178, 11.8296, 1.5551** is the 20% darker color. If you saturate the color by 10%, you get **31.9409, 28.9178, 3.8982**, and if you desaturate by 10%, it is **32.9990, 30.8333, 4.8698**.

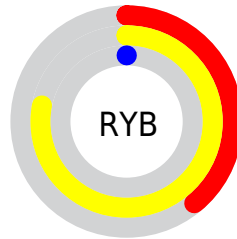
Distribution



Red (78%)

Green (52%)

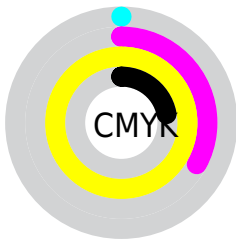
Blue (0%)



Red (39%)

Yellow (78%)

Blue (0%)

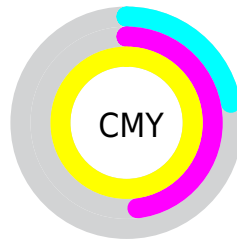


Cyan (0%)

Magenta (33%)

Yellow (100%)

Black (22%)



Cyan (22%)


Magenta (48%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.9407, 28.9172, 3.8981 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 31.9407, 28.9172, 3.8981 by changing the saturation by 10% instead.


 31.9407, 28.9172,
3.8981


 31.9407, 28.9172,
3.8981


302.5991,
296.8241, 147.0859

 21.4715, 19.0182,
1.5696


 62.0839, 57.9455,
13.7741


 13.5835, 11.6834,
0.2690


 82.4887, 77.8436,
22.1586


 7.9113, 6.5285,
0.0000


 106.9361,
101.8435, 33.3989

 4.0896, 3.1690,
0.0000

 135.7914,
130.3296, 47.9135

 1.7529, 1.2206,
0.0000

 169.4200,
163.6863, 66.1210


 0.4891, 0.0784,
0.0000


 208.1872,


 0.0000, 0.0000,


202.2981, 88.4399


0.0000


 252.4585,
246.5492, 115.2887


 31.9407, 28.9172,
3.8981

 31.9407, 28.9172,
3.8981


 31.9409, 28.9178,
3.8982

 32.9990, 30.8333,
4.8698

 34.2433, 32.9150,
6.5389

 35.7202, 35.1838,
9.1432

 37.4543, 37.6510,
12.8072

 39.4664, 40.3265,
17.6360

■ 41.7750, 43.2191,
23.7221

■ 44.3966, 46.3369,
31.1484

■ 47.3465, 49.6873,
39.9910

■ 50.6388, 53.2774,
50.3200

Harmonies

Analogous

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



41.2362, 28.9172, 7.8654



31.9407, 28.9172, 3.8981



23.1327, 28.9172, 3.9691

Triad

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



31.9407, 28.9172, 3.8981



14.1020, 28.9172, 46.5999



41.5922, 28.9172, 79.5495

Complementary

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



31.9407, 28.9172, 3.8981



12.2572, 8.0203, 54.9343

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.



32.3515, 28.9172, 105.9662



31.9407, 28.9172, 3.8981



17.1911, 28.9172, 80.9972

Square

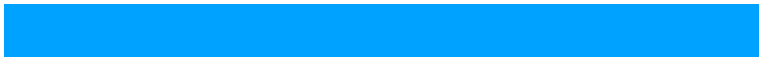
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



31.9407, 28.9172, 3.8981



14.0386, 28.9172, 20.8488



23.4641, 28.9172, 106.6052



47.5699, 28.9172, 45.2371

Rectangle

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



31.9407, 28.9172, 3.8981



18.6863, 28.9172, 6.1187



23.4641, 28.9172, 106.6052



38.6855, 28.9172, 90.3009

Sweetspot

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



31.9413, 28.9187, 3.8986



77.5200, 80.8821, 53.9092



24.5465, 12.5396, 6.3335



16.1597, 16.8034, 10.2947



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.



31.9413, 28.9187, 3.8986



55.6958, 50.1715, 6.7486



36.1144, 48.9355, 7.5423



11.2161, 11.8013, 11.2495



20.6220, 18.7612, 2.5344



1.0409, 1.0172, 0.1415

Inverse Universe

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



12.2572, 8.0203, 54.9343



21.2646, 13.6493, 96.1215



10.9416, 4.4499, 54.3145



10.3393, 10.8526, 13.4673



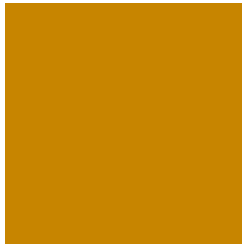
7.9537, 5.3014, 35.3484



0.4434, 0.3846, 1.6960

Previews

White Background



This preview shows how the XYZ color 31.9407, 28.9172, 3.8981 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 31.9407, 28.9172, 3.8981 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 31.9407, 28.9172, 3.8981

Background



This preview shows how black text looks on a background with the XYZ color 31.9407, 28.9172, 3.8981.



This preview shows how white text looks on a background with the XYZ color 31.9407, 28.9172,

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

31.9407, 28.9172, 3.8981

Protanopia

26.2322, 29.0035, 4.5964

Deuteranopia

29.4823, 28.9043, 4.0252



Tritanopia

36.6181, 29.0879, 25.8748

Trichromacy



Original Color

31.9407, 28.9172, 3.8981

Protanomaly

28.0769, 28.8285, 4.3144

Deuteranomaly

30.4315, 28.9677, 3.9874

Tritanomaly

33.8577, 28.5311, 12.3169

Monochromacy



Original Color

31.9407, 28.9172, 3.8981

Achromatopsia

24.1572, 25.4152, 27.6772

Achromatomaly

25.0628, 25.7865, 12.8889

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.9407, 28.9172, 3.8981 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, 133, 0)` looks like.

```
.text, #text, p{  
    color:rgb(199, 133, 0)  
}
```

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, 133, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 133, 0) }
```

Border

The CSS property to change the border of an element to XYZ 31.9407, 28.9172, 3.8981 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, 133, 0) }
```


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

```
.border{ border-color:rgb(199, 133, 0) }
```

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

Here you see how a box with a 4 pixel rgb(199, 133, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 133, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 133, 0);  
box-shadow:4px 4px 4px 4px rgb(199, 133,  
0) }
```

Background

The CSS property to change the background color of an element to XYZ 31.9407, 28.9172, 3.8981 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 133, 0) }
```

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

```
.background{ background-color: rgb(199,  
133, 0) }
```

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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