

# Converting Colors

XYZ(28.4649, 31.5773, 4.9114)

Have a look what the booklet for  
XYZ(28.4649, 31.5773, 4.9114)  
contains.

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# Color

**XYZ(28.4649, 31.5773,  
4.9114)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AC990B
RGB	172, 153, 11
RGB Percent	67%, 60%, 4%
CMY	0.3255, 0.4000, 0.9568
CMYK	0.00, 0.11, 0.94, 0.33
HSL	53°, 88%, 36%
HSV	53°, 94%, 67%
XYZ	28.4649, 31.5773, 4.9114
YIQ	142.4930, 56.9060, -40.1340

# Conversions

## Conversions Part 2

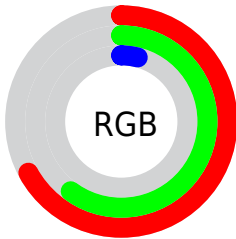
<b>Format</b>	<b>Color</b>
<b>RYB</b>	33, 172, 11
Decimal	11311371
CIELab	62.99, -5.96, 65.00
CIELCh	63, 65.271, 95.238
Yxy	31.5773, 0.4382, 0.4862
Android (android.graphics.Color)	4289501451 (0xFFAC990B)
YUV	142.4930, -64.8260, 25.8776
Hunter-Lab	56.1937, -7.9198, 34.1536

# Details

The XYZ color **28.4649, 31.5773, 4.9114** is a dark color, and the websafe version is hex **999900**. A complement of this color would be **8.0490, 3.9787, 39.3731**, and the grayscale version is **26.1416, 27.5030, 29.9508**.

A 20% lighter version of the original color is **56.6074, 62.1504, 16.0339**, and **11.8216, 13.1476, 1.9147** is the 20% darker color. If you saturate the color by 10%, you get **28.1936, 31.1315, 4.5230**, and if you desaturate by 10%, it is **28.9523, 32.3095, 5.8224**.

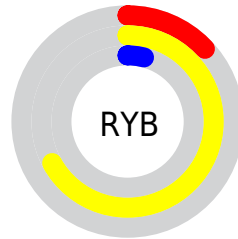
# Distribution



Red (67%)

Green (60%)

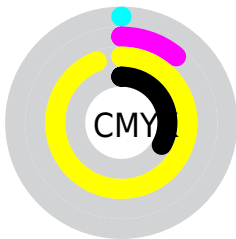
Blue (4%)



Red (13%)

Yellow (67%)

Blue (4%)

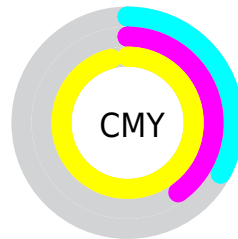


Cyan (0%)

Magenta (11%)

Yellow (94%)

Black (33%)



Cyan (33%)

Magenta (40%)


Yellow (96%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.4649, 31.5773, 4.9114 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 28.4649, 31.5773, 4.9114 by changing the saturation by 10% instead.





 28.4649, 31.5773,  
4.9114


 28.4649, 31.5773,  
4.9114

286.7217,  
309.1892, 157.8729


 18.8186, 21.0388,  
2.1375


 56.6293, 62.1478,  
16.0625


 11.6425, 13.1524,  
0.6380


 75.8781, 82.9487,  
25.2767

 6.5712, 7.5336,  
0.0000


 99.0586, 107.9392,  
37.4749

 3.2394, 3.7980,  
0.0000

 126.5359,  
137.5036, 53.0755

 1.2816, 1.5612,  
0.0000

 158.6756,  
172.0265, 72.4970

 0.1694, 0.3312,  
0.0000

 195.8428,

 0.0000, 0.0000,

211.8921, 96.1581

0.0000

238.4031,  
257.4848, 124.4772

28.4649, 31.5773,  
4.9114

28.4649, 31.5773,  
4.9114

28.1936, 31.1315,  
4.5230

28.9523, 32.3095,  
5.8224

29.5625, 33.0987,  
7.3551

30.3137, 33.9534,  
9.6021

31.2204, 34.8795,  
12.6401

32.2955, 35.8822,  
16.5362

■ 33.5503, 36.9660,  
21.3500

■ 34.9952, 38.1351,  
27.1360

■ 36.6397, 39.3935,  
33.9445

■ 38.4927, 40.7446,  
41.8220

# Harmonies

## Analogous

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



37.8390, 31.5773, 6.1950



28.4649, 31.5773, 4.9114



21.1151, 31.5773, 7.7491

# Triad

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



28.4649, 31.5773, 4.9114



18.0075, 31.5773, 71.5181



48.5738, 31.5773, 59.5221

# Complementary

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



28.4649, 31.5773, 4.9114



8.0490, 3.9787, 39.3731

# 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.



41.1145, 31.5773, 92.6247



28.4649, 31.5773, 4.9114



23.3485, 31.5773, 101.6399

# Square

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



28.4649, 31.5773, 4.9114



15.8971, 31.5773, 39.0956



31.6168, 31.5773, 110.8412



50.6922, 31.5773, 30.0639



# Rectangle

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



28.4649, 31.5773, 4.9114



17.9490, 31.5773, 13.1971



31.6168, 31.5773, 110.8412



46.5440, 31.5773, 70.9714

# Sweetspot

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



28.4656, 31.5788, 4.9120



62.1572, 68.1234, 43.8545



17.4002, 9.1171, 2.2435



13.2762, 14.6147, 8.6089



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123



# Same Dimension

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



28.4656, 31.5788, 4.9120



51.0412, 56.2644, 8.1700



21.6192, 33.0378, 5.5545



8.5808, 9.1664, 8.5304



21.0070, 23.2195, 3.3746



0.6067, 0.6905, 0.1013



# Inverse Universe

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



8.0490, 3.9787, 39.3731



13.8889, 6.1636, 71.2634



10.0949, 4.5218, 39.3701



7.6522, 7.9038, 10.0750



5.7536, 2.6411, 29.2511

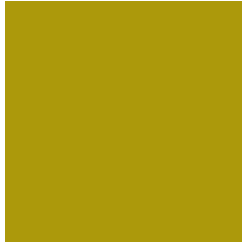


0.1835, 0.1204, 0.8216



# Previews

## White Background



This preview shows how the XYZ color 28.4649, 31.5773, 4.9114 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

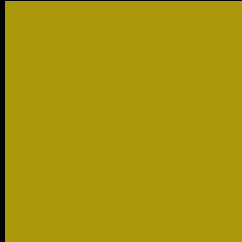
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 28.4649, 31.5773, 4.9114 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 28.4649, 31.5773, 4.9114**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.4649, 31.5773, 4.9114.



This preview shows how white text looks on a background with the XYZ color 28.4649, 31.5773,



# 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

28.4649, 31.5773, 4.9114

### Protanopia

28.4649, 31.5773, 4.9114

### Deuteranopia

32.2625, 31.6462, 5.1670



## Tritanopia

34.4788, 31.4697, 34.3940

# Trichromacy



## Original Color

28.4649, 31.5773, 4.9114

## Protanomaly

28.4649, 31.5773, 4.9114

## Deuteranomaly

30.7067, 31.5378, 5.0412

## Tritanomaly

30.9879, 30.9623, 16.6550

# Monochromacy



## Original Color

28.4649, 31.5773, 4.9114

## Achromatopsia

25.7108, 27.0498, 29.4572

## Achromatomaly

25.4361, 28.1382, 14.6803

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.4649, 31.5773, 4.9114 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(172, 153, 11)` looks like.

```
.text, #text, p{  
    color:rgb(172, 153, 11)  
}
```

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(172, 153, 11) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 153, 11) }
```

## Border

The CSS property to change the border of an element to XYZ 28.4649, 31.5773, 4.9114 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(172, 153, 11) }
```



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

```
.border{ border-color:rgb(172, 153, 11) }
```

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

Here you see how a box with a 4 pixel `rgb(172, 153, 11)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 153, 11); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 153, 11);  
box-shadow:4px 4px 4px 4px rgb(172, 153,  
11) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.4649, 31.5773, 4.9114 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 153, 11) }
```

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

```
.background{ background-color: rgb(172,  
153, 11) }
```

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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