

# Converting Colors

XYZ(29.6017, 27.1166, 2.2048)

Have a look what the booklet for  
XYZ(29.6017, 27.1166, 2.2048)  
contains.

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# Color

**XYZ(29.9750, 27.3027,  
3.6901)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C18200
RGB	193, 130, 0
RGB Percent	76%, 51%, 0%
CMY	0.2431, 0.4902, 1.0000
CMYK	0.00, 0.33, 1.00, 0.24
HSL	40°, 100%, 38%
HSV	40°, 100%, 76%
XYZ	29.9750, 27.3027, 3.6901
YIQ	134.0170, 79.2780, -27.0740

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	94, 193, 0
Decimal	12681728
CIE Lab	59.25, 15.97, 65.02
CIE LCh	59, 66.957, 76.202
Yxy	27.3027, 0.4917, 0.4478
Android (android.graphics.Color)	4290871808 (0xFFC18200)
YUV	134.0170, -66.0704, 51.7281
Hunter-Lab	52.2520, 10.9578, 32.3893

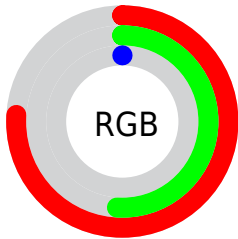
# Details

The XYZ color **29.9750, 27.3027, 3.6901** 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 **11.4034, 7.4057, 51.2803**, and the grayscale version is **22.8823, 24.0739, 26.2165**.

A 20% lighter version of the original color is **58.8807, 55.3675, 13.2139**, and **12.7739, 10.9532, 1.4409** is the 20% darker color. If you saturate the color by 10%, you get **29.9751, 27.3032, 3.6902**, and if you desaturate by 10%, it is **30.9596, 29.0799, 4.6113**.

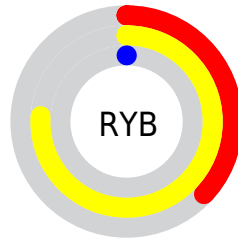
# Distribution



Red (76%)

Green (51%)

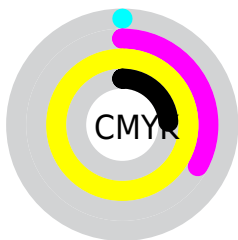
Blue (0%)



Red (37%)

Yellow (76%)

Blue (0%)

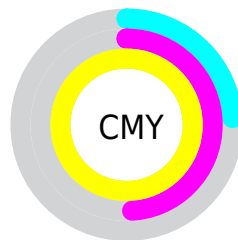


Cyan (0%)

Magenta (33%)

Yellow (100%)

Black (24%)



Cyan (24%)

Magenta (49%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 29.9750, 27.3027, 3.6901 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 29.9750, 27.3027, 3.6901 by changing the saturation by 10% instead.





 29.9750, 27.3027,  
3.6901


 29.9750, 27.3027,  
3.6901


293.6998,  
289.1198, 144.7159


 19.9676, 17.8007,  
1.4569


 59.0095, 55.3692,  
13.2885


 12.4796, 10.8070,  
0.1855


 78.7674, 74.7025,  
21.4908

 7.1457, 5.9372,  
0.0000


 102.5061, 98.0817,  
32.5199

 3.6005, 2.8069,  
0.0000

 130.5910,  
125.8912, 46.7943

 1.4787, 1.0318,  
0.0000

 163.3875,  
158.5153, 64.7325


 0.3113, 0.0000,  
0.0000


 201.2608,


 0.0000, 0.0000,


196.3385, 86.7532


0.0000


 244.5765,  
239.7452, 113.2748


 29.9750, 27.3027,  
3.6901


 29.9750, 27.3027,  
3.6901


 29.9751, 27.3032,  
3.6902

 30.9596, 29.0799,  
4.6113

 32.1152, 31.0078,  
6.1782

 33.4860, 33.1067,  
8.6163

 35.0946, 35.3869,  
12.0407

 36.9602, 37.8576,  
16.5489

■ 39.1000, 40.5268,  
22.2266

■ 41.5292, 43.4019,  
29.1506

■ 44.2619, 46.4897,  
37.3915

■ 47.3113, 49.7968,  
47.0141

# Harmonies

## Analogous

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



38.7377, 27.3027, 7.3459



29.9750, 27.3027, 3.6901



21.7198, 27.3027, 3.8158

# Triad

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



29.9750, 27.3027, 3.6901



13.3753, 27.3027, 44.5075



39.3636, 27.3027, 74.3142

# Complementary

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



29.9750, 27.3027, 3.6901



11.4034, 7.4057, 51.2803

# 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.



30.6976, 27.3027, 99.4440



29.9750, 27.3027, 3.6901



16.3412, 27.3027, 76.8571

# Square

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



29.9750, 27.3027, 3.6901



13.2634, 27.3027, 20.0467



22.3032, 27.3027, 100.5658



44.8945, 27.3027, 42.1113



# Rectangle

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



29.9750, 27.3027, 3.6901



17.5690, 27.3027, 5.9081



22.3032, 27.3027, 100.5658



36.6462, 27.3027, 84.4791

# Sweetspot

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



29.9756, 27.3041, 3.6906



74.1608, 77.4805, 51.5679



22.9274, 11.7117, 5.9535



15.5018, 16.1446, 9.8824



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

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



29.9756, 27.3041, 3.6906



53.4521, 48.4326, 6.5312



33.7346, 45.6997, 7.0432



10.6274, 11.1862, 10.6609



20.0124, 18.3106, 2.4795



0.9253, 0.9123, 0.1273



# Inverse Universe

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



11.4034, 7.4057, 51.2803



20.2246, 12.8659, 91.7777



10.2268, 4.1603, 50.7159



9.7908, 10.2730, 12.7517



7.6498, 5.0562, 34.1294

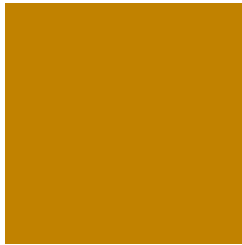


0.3942, 0.3459, 1.4959



# Previews

## White Background



This preview shows how the XYZ color 29.9750, 27.3027, 3.6901 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 29.9750, 27.3027, 3.6901 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 29.9750, 27.3027, 3.6901**

## **Background**



This preview shows how black text looks on a background with the XYZ color 29.9750, 27.3027, 3.6901.



This preview shows how white text looks on a background with the XYZ color 29.9750, 27.3027,



# 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

29.9750, 27.3027, 3.6901

### Protanopia

24.7438, 27.5526, 4.3948

### Deuteranopia

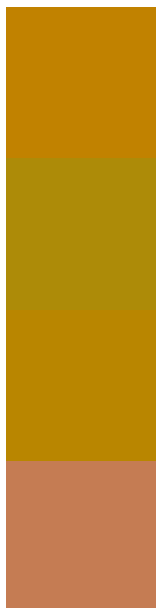
27.8602, 27.4321, 3.8265



## Tritanopia

34.4198, 27.4286, 24.5992

# Trichromacy



## Original Color

29.9750, 27.3027, 3.6901

## Protanomaly

26.5100, 27.3670, 4.1149

## Deuteranomaly

28.5327, 27.3645, 3.7780

## Tritanomaly

31.7949, 26.9102, 11.7020

# Monochromacy



## Original Color

29.9750, 27.3027, 3.6901

## Achromatopsia

22.6597, 23.8398, 25.9615

## Achromatomaly

23.5448, 24.3995, 12.0630

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 29.9750, 27.3027, 3.6901 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(193, 130, 0)` looks like.

```
.text, #text, p{  
    color:rgb(193, 130, 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(193, 130, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(193, 130, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 29.9750, 27.3027, 3.6901 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(193, 130, 0) }
```



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

```
.border{ border-color:rgb(193, 130, 0) }
```

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

Here you see how a box with a 4 pixel rgb(193, 130, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(193, 130, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(193, 130, 0);  
box-shadow:4px 4px 4px 4px rgb(193, 130,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 29.9750, 27.3027, 3.6901 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(193, 130, 0) }
```

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

```
.background{ background-color: rgb(193,  
130, 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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