

# Converting Colors

XYZ(31.2314, 25.4965, 3.2752)

Have a look what the booklet for  
XYZ(31.2314, 25.4965, 3.2752)  
contains.

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# Color

**XYZ(31.2631, 25.5599,  
3.2858)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CC7500
RGB	204, 117, 0
RGB Percent	80%, 46%, 0%
CMY	0.2000, 0.5412, 1.0000
CMYK	0.00, 0.43, 1.00, 0.20
HSL	34°, 100%, 40%
HSV	34°, 100%, 80%
XYZ	31.2631, 25.5599, 3.2858
YIQ	129.6750, 89.4090, -17.9430

# Conversions

## Conversions Part 2

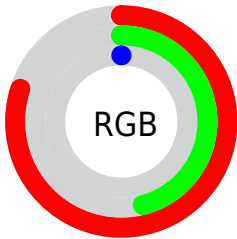
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	152, 204, 0
Decimal	13399296
CIE Lab	57.62, 27.83, 64.66
CIE LCh	58, 70.394, 66.712
Yxy	25.5599, 0.5201, 0.4252
Android (android.graphics.Color)	4291589376 (0xFFCC7500)
YUV	129.6750, -63.9298, 65.1830
Hunter-Lab	50.5568, 21.9057, 31.5364

# Details

The XYZ color **31.2631, 25.5599, 3.2858** is a dark color, and the websafe version is hex **CC6600**. The color can be described as dark washed orange. A complement of this color would be **14.3073, 11.1761, 58.5294**, and the grayscale version is **21.3007, 22.4100, 24.4045**.

A 20% lighter version of the original color is **56.6581, 50.4268, 12.2160**, and **13.3948, 9.9739, 1.2192** is the 20% darker color. If you saturate the color by 10%, you get **31.2633, 25.5605, 3.2859**, and if you desaturate by 10%, it is **32.4548, 27.7358, 4.3240**.

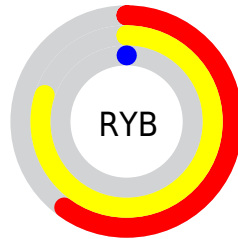
# Distribution



Red (80%)

Green (46%)

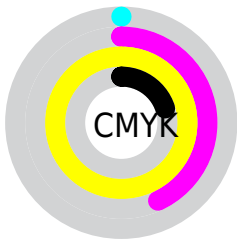
Blue (0%)



Red (60%)

Yellow (80%)

Blue (0%)

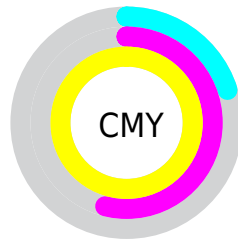


Cyan (0%)

Magenta (43%)

Yellow (100%)

Black (20%)



Cyan (20%)

Magenta (54%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.2631, 25.5599, 3.2858 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 31.2631, 25.5599, 3.2858 by changing the saturation by 10% instead.



31.2631, 25.5599,  
3.2858

31.2631, 25.5599,  
3.2858

299.5539,  
280.6149, 139.9214

20.9521, 16.4947,  
1.2424

61.0271, 52.5641,  
12.3259

13.2012, 9.8749,  
0.0138

81.2108, 71.2719,  
20.1596

7.6452, 5.3161,  
0.0000

105.4160, 93.9626,  
30.7605

3.9187, 2.4339,  
0.0000

134.0083,  
121.0208, 44.5471

1.6562, 0.8432,  
0.0000

167.3528,  
152.8307, 61.9379


0.4286, 0.0000,  
0.0000


205.8150,


0.0000, 0.0000,


189.7767, 83.3516


0.0000


 249.7603,  
232.2433, 109.2065

 31.2631, 25.5599,  
3.2858


 31.2631, 25.5599,  
3.2858

 31.2633, 25.5605,  
3.2859

 32.4548, 27.7358,  
4.3240

 33.8797, 30.1585,  
6.1157

 35.5877, 32.8529,  
8.9098

 37.6063, 35.8336,  
12.8390

 39.9586, 39.1135,  
18.0158

■ 42.6657, 42.7044,  
24.5389

■ 45.7461, 46.6170,  
32.4969

■ 49.2173, 50.8615,  
41.9708

■ 53.0952, 55.4475,  
53.0356

# Harmonies

## Analogous

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



39.6969, 25.5599, 8.3127



31.2631, 25.5599, 3.2858



22.4527, 25.5599, 2.5224

# Triad

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



31.2631, 25.5599, 3.2858



11.5144, 25.5599, 33.6009



35.2977, 25.5599, 83.9001

# Complementary

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



31.2631, 25.5599, 3.2858



14.3073, 11.1761, 58.5294

# 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.



26.2331, 25.5599, 103.7985



31.2631, 25.5599, 3.2858



13.5010, 25.5599, 65.7026

# Square

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



31.2631, 25.5599, 3.2858



12.2635, 25.5599, 13.2443



18.4460, 25.5599, 95.7088



42.3767, 25.5599, 50.4444



# Rectangle

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



31.2631, 25.5599, 3.2858



17.7268, 25.5599, 3.5753



18.4460, 25.5599, 95.7088



32.3105, 25.5599, 93.0693

# Sweetspot

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



31.2637, 25.5613, 3.2863



75.5475, 76.9371, 53.2517



26.6799, 13.5487, 10.5295



15.6896, 15.8631, 10.1380



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.



31.2637, 25.5613, 3.2863



51.5581, 41.8962, 5.3694



42.9279, 54.1841, 8.1962



11.7375, 12.2640, 11.8280



19.7716, 16.2762, 2.0995



1.0943, 0.9883, 0.1331



# Inverse Universe

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



14.3073, 11.1761, 58.5294



23.4916, 18.1031, 96.8639



11.0741, 4.4500, 57.4015



10.9885, 11.6174, 14.2336



9.0933, 7.2105, 36.8688



0.5438, 0.5214, 1.9269



# Previews

## White Background



This preview shows how the XYZ color 31.2631, 25.5599, 3.2858 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 31.2631, 25.5599, 3.2858 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 31.2631, 25.5599, 3.2858**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.2631, 25.5599, 3.2858.



This preview shows how white text looks on a background with the XYZ color 31.2631, 25.5599,

3.2858.

# 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

31.2631, 25.5599, 3.2858

### Protanopia

23.2308, 25.6707, 4.2208

### Deuteranopia

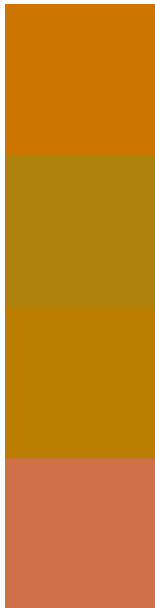
26.1558, 25.7326, 3.5883



## Tritanopia

34.6919, 25.6315, 19.9485

# Trichromacy



## Original Color

31.2631, 25.5599, 3.2858

## Protanomaly

25.6266, 25.2532, 3.8108

## Deuteranomaly

27.8391, 25.6178, 3.4775

## Tritanomaly

32.7623, 25.3482, 9.6445

# Monochromacy



## Original Color

31.2631, 25.5599, 3.2858

## Achromatopsia

21.2178, 22.3228, 24.3095

## Achromatomaly

22.7996, 22.4599, 11.3171

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.2631, 25.5599, 3.2858 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(204, 117, 0)` looks like.

```
.text, #text, p{  
    color:rgb(204, 117, 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(204, 117, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 117, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 31.2631, 25.5599, 3.2858 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(204, 117, 0) }
```



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

```
.border{ border-color:rgb(204, 117, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 117, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 117, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 117, 0);  
box-shadow:4px 4px 4px 4px rgb(204, 117,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.2631, 25.5599, 3.2858 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 117, 0) }
```

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

```
.background{ background-color: rgb(204,  
117, 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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