

# Converting Colors

XYZ(31.6238, 26.2725, 3.4331)

Have a look what the booklet for  
XYZ(31.6238, 26.2725, 3.4331)  
contains.

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# Color

**XYZ(31.6238, 26.2725,  
3.4331)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CC7801
RGB	204, 120, 1
RGB Percent	80%, 47%, 0%
CMY	0.2000, 0.5294, 0.9960
CMYK	0.00, 0.41, 1.00, 0.20
HSL	35°, 99%, 40%
HSV	35°, 100%, 80%
XYZ	31.6238, 26.2725, 3.4331
YIQ	131.5500, 88.2630, -19.2010

# Conversions

## Conversions Part 2

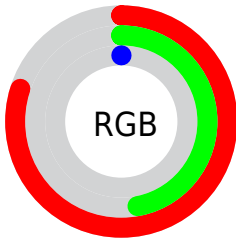
<b>Format</b>	<b>Color</b>
<b>RYB</b>	144, 204, 1
Decimal	13400065
CIELab	58.29, 26.23, 64.91
CIElCh	58, 70.010, 67.996
Yxy	26.2725, 0.5156, 0.4284
Android (android.graphics.Color)	4291590145 (0xFFCC7801)
YUV	131.5500, -64.3611, 63.5387
Hunter-Lab	51.2567, 20.4297, 31.9085

# Details

The XYZ color **31.6238, 26.2725, 3.4331** 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 **14.1603, 10.8635, 58.4768**, and the grayscale version is **21.9731, 23.1174, 25.1749**.

A 20% lighter version of the original color is **57.2577, 51.5768, 12.5677**, and **13.5809, 10.3461, 1.2812** is the 20% darker color. If you saturate the color by 10%, you get **31.5687, 26.1714, 3.3877**, and if you desaturate by 10%, it is **32.8185, 28.4482, 4.4909**.

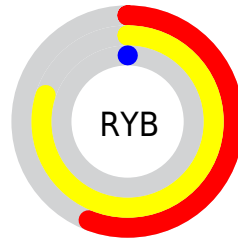
# Distribution



Red (80%)

Green (47%)

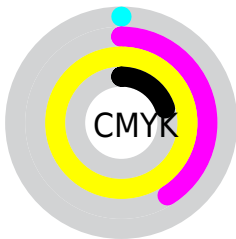
Blue (0%)



Red (56%)

Yellow (80%)

Blue (0%)

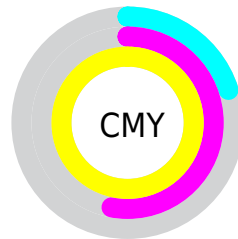


Cyan (0%)

Magenta (41%)

Yellow (100%)

Black (20%)



Cyan (20%)

Magenta (53%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.6238, 26.2725, 3.4331 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 31.6238, 26.2725, 3.4331 by changing the saturation by 10% instead.



31.6238, 26.2725,  
3.4331

31.6238, 26.2725,  
3.4331

301.1778,  
284.1172, 141.6989

21.2285, 17.0276,  
1.3198

61.5900, 53.7142,  
12.6796

13.4045, 10.2542,  
0.0779

81.8917, 72.6799,  
20.6500

7.7866, 5.5678,  
0.0000

106.2261, 95.6545,  
31.4097

4.0094, 2.5841,  
0.0000

134.9587,  
123.0226, 45.3775

1.7074, 0.9187,  
0.0000

168.4548,  
155.1685, 62.9717


0.4609, 0.0000,  
0.0000


207.0798,


0.0000, 0.0000,


192.4767, 84.6110


0.0000


 251.1990,  
235.3314, 110.7139


 31.6238, 26.2725,  
3.4331

 31.6238, 26.2725,  
3.4331


 31.5687, 26.1714,  
3.3877

 32.8185, 28.4482,  
4.4909

 34.2459, 30.8626,  
6.3248

 35.9527, 33.5390,  
9.1664

 37.9657, 36.4913,  
13.1473

 40.3079, 39.7320,  
18.3790

■ 42.9998, 43.2724,  
24.9595

■ 46.0600, 47.1228,  
32.9771

■ 49.5054, 51.2932,  
42.5123

■ 53.3519, 55.7925,  
53.6399

# Harmonies

## Analogous

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



40.2290, 26.2725, 8.3572



31.6238, 26.2725, 3.4331



22.7616, 26.2725, 2.7620

# Triad

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



31.6238, 26.2725, 3.4331



12.0106, 26.2725, 35.6396



36.4713, 26.2725, 83.7758

# Complementary

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



31.6238, 26.2725, 3.4331



14.1603, 10.8635, 58.4768

# 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.



27.3194, 26.2725, 104.7301



31.6238, 26.2725, 3.4331



14.1606, 26.2725, 68.2860

# Square

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



31.6238, 26.2725, 3.4331



12.6564, 26.2725, 14.3856



19.3239, 26.2725, 97.8537



43.4418, 26.2725, 50.0243



# Rectangle

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



31.6238, 26.2725, 3.4331



18.0453, 26.2725, 3.9624



19.3239, 26.2725, 97.8537



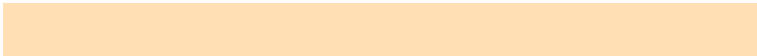
33.4751, 26.2725, 93.2243

# Sweetspot

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



31.6244, 26.2739, 3.4336



75.8064, 77.4548, 53.3380



26.5758, 13.5245, 9.9272



15.7511, 15.9861, 10.1585



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.



31.6244, 26.2739, 3.4336



52.0645, 42.9090, 5.5382



42.1122, 53.7629, 8.1867



11.7496, 12.2881, 11.8320



19.9636, 16.6601, 2.1635



1.1036, 1.0070, 0.1362



# Inverse Universe

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



14.1603, 10.8635, 58.4768



23.1541, 17.4282, 96.7514



11.1580, 4.5094, 57.4086



10.9767, 11.5938, 14.2297



8.9626, 6.9493, 36.8252



0.5366, 0.5070, 1.9245



# Previews

## White Background



This preview shows how the XYZ color 31.6238, 26.2725, 3.4331 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 31.6238, 26.2725, 3.4331 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 31.6238, 26.2725, 3.4331**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.6238, 26.2725, 3.4331.



This preview shows how white text looks on a background with the XYZ color 31.6238, 26.2725,



# 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

31.6238, 26.2725, 3.4331

### Protanopia

23.9165, 26.4581, 4.3366

### Deuteranopia

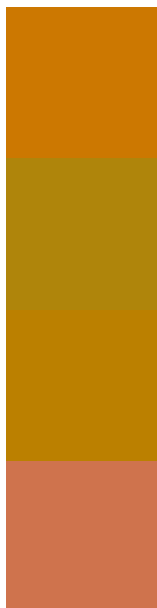
26.7476, 26.2400, 3.6551



## Tritanopia

35.1968, 26.3543, 21.0011

# Trichromacy



## Original Color

31.6238, 26.2725, 3.4331

## Protanomaly

26.1271, 25.9132, 3.9413

## Deuteranomaly

28.2127, 26.0031, 3.5321

## Tritanomaly

33.2024, 26.0627, 10.3018

# Monochromacy



## Original Color

31.6238, 26.2725, 3.4331

## Achromatopsia

21.9318, 23.0740, 25.1276

## Achromatomaly

23.4200, 23.3475, 11.6597

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.6238, 26.2725, 3.4331 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, 120, 1)` looks like.

```
.text, #text, p{  
    color:rgb(204, 120, 1)  
}
```

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, 120, 1) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 120, 1) }
```

## Border

The CSS property to change the border of an element to XYZ 31.6238, 26.2725, 3.4331 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, 120, 1) }
```



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

```
.border{ border-color:rgb(204, 120, 1) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 120, 1)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 120, 1); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 120, 1);  
box-shadow:4px 4px 4px 4px rgb(204, 120,  
1) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.6238, 26.2725, 3.4331 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 120, 1) }
```

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

```
.background{ background-color: rgb(204,  
120, 1) }
```

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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