

# Converting Colors

XYZ(31.1421, 25.3743, 9.6297)

Have a look what the booklet for  
XYZ(31.1421, 25.3743, 9.6297)  
contains.

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# Color

**XYZ(31.1171, 25.3457,  
9.5555)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C77549
RGB	199, 117, 73
RGB Percent	78%, 46%, 29%
CMY	0.2196, 0.5412, 0.7137
CMYK	0.00, 0.41, 0.63, 0.22
HSL	21°, 53%, 53%
HSV	21°, 63%, 78%
XYZ	31.1171, 25.3457, 9.5555
YIQ	136.5020, 62.9960, 3.7000

# Conversions

## Conversions Part 2

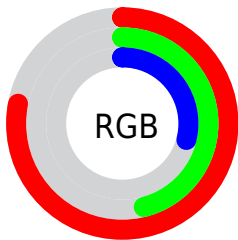
<b>Format</b>	<b>Color</b>
<b>RYB</b>	199, 141, 73
Decimal	13071689
CIELab	57.41, 28.18, 37.69
CIElCh	57, 47.062, 53.216
Yxy	25.3457, 0.4713, 0.3839
Android (android.graphics.Color)	4291261769 (0xFFC77549)
YUV	136.5020, -31.3065, 54.8107
Hunter-Lab	50.3445, 22.2250, 23.9878

# Details

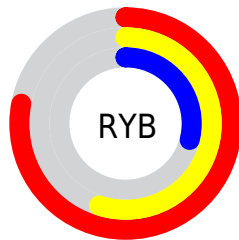
The XYZ color **31.1171, 25.3457, 9.5555** is a dark color, and the websafe version is hex **CC6633**. The color can be described as dark muted orange. A complement of this color would be **24.7771, 28.9813, 58.3207**, and the grayscale version is **23.6882, 24.9219, 27.1399**.

A 20% lighter version of the original color is **59.1899, 51.4395, 25.5481**, and **13.0088, 9.6643, 2.1570** is the 20% darker color. If you saturate the color by 10%, you get **29.1540, 22.3119, 6.1505**, and if you desaturate by 10%, it is **33.5013, 28.8841, 14.1425**.

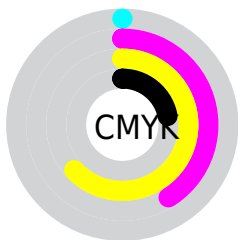
# Distribution



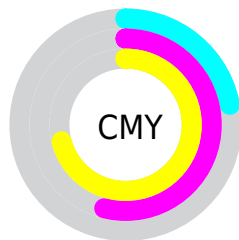
- Red (78%)
- Green (46%)
- Blue (29%)



- Red (78%)
- Yellow (55%)
- Blue (29%)



- Cyan (0%)
- Magenta (41%)
- Yellow (63%)
- Black (22%)




- Cyan (22%)
- Magenta (54%)
- Yellow (71%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.1171, 25.3457, 9.5555 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 31.1171, 25.3457, 9.5555 by changing the saturation by 10% instead.





 31.1171, 25.3457,  
9.5555


 31.1171, 25.3457,  
9.5555


298.8947,  
279.5552, 197.8376


 20.8403, 16.3348,  
5.0035


 60.7990, 52.2175,  
25.5506


 13.1191, 9.7614,  
2.1906


 80.9348, 70.8472,  
37.8309


 7.5882, 5.2410,  
0.6689


 105.0876, 93.4519,  
53.5243

 3.8822, 2.3894,  
0.0000

 133.6228,  
120.4161, 73.0494

 1.6357, 0.8204,  
0.0000

 166.9058,  
152.1241, 96.8247

 0.4155, 0.0000,  
0.0000

205.3018,

 0.0000, 0.0000,

188.9604, 125.2688

0.0000

249.1763,  
231.3093, 158.8003

■ 31.1171, 25.3457,  
9.5555

■ 31.1171, 25.3457,  
9.5555

■ 29.1540, 22.3119,  
6.1505

■ 33.5013, 28.8841,  
14.1425

■ 27.5806, 19.7532,  
3.8128

■ 36.3309, 32.9465,  
20.0087

■ 26.3632, 17.6428,  
2.4070

■ 39.6304, 37.5558,  
27.2425

■ 25.7121, 16.4600,  
1.8219

■ 43.4218, 42.7325,  
35.9243

■ 47.7257, 48.4959,  
46.1279

■ 52.5613, 54.8641,  
57.9222

■ 57.9469, 61.8548,  
71.3718

■ 63.8997, 69.4847,  
86.5379

■ 70.4364, 77.7698,  
103.4782

# Harmonies

## Analogous

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



35.3807, 25.3457, 17.1539



31.1171, 25.3457, 9.5555



25.3825, 25.3457, 6.9261

# Triad

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



31.1171, 25.3457, 9.5555



14.9154, 25.3457, 24.1180



28.5808, 25.3457, 66.6577

# Complementary

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



31.1171, 25.3457, 9.5555



24.7771, 28.9813, 58.3207

# 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.



22.8427, 25.3457, 70.8417



31.1171, 25.3457, 9.5555



15.5005, 25.3457, 41.5977

# Square

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



31.1171, 25.3457, 9.5555



16.4663, 25.3457, 12.9632



18.2100, 25.3457, 60.3232



33.7653, 25.3457, 50.4398



# Rectangle

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



31.1171, 25.3457, 9.5555



21.7155, 25.3457, 7.1675



18.2100, 25.3457, 60.3232



26.6323, 25.3457, 69.7233

# Sweetspot

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



31.1177, 25.3470, 9.5560



78.9612, 78.7703, 69.7859



32.0216, 19.3417, 33.9440



16.4465, 16.2489, 13.8682



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.



31.1177, 25.3470, 9.5560



49.9226, 37.2689, 9.0056



40.6762, 44.4639, 12.7421



10.9318, 11.2327, 11.1547



16.6082, 10.7336, 1.1964



0.8543, 0.6441, 0.0793



# Inverse Universe

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



24.7771, 28.9813, 58.3207



37.8244, 43.8936, 101.0865



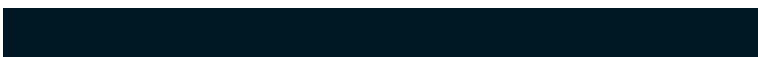
17.0593, 13.5456, 55.7481



10.6229, 11.4199, 13.5619



11.8038, 13.0016, 36.6318



0.6249, 0.7476, 1.7565



# Previews

## White Background



This preview shows how the XYZ color 31.1171, 25.3457, 9.5555 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

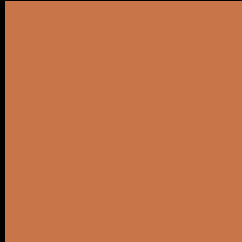
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.1171, 25.3457, 9.5555 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

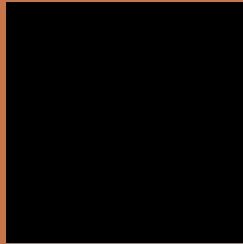
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 31.1171, 25.3457, 9.5555**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.1171, 25.3457, 9.5555.



This preview shows how white text looks on a background with the XYZ color 31.1171, 25.3457,



# 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

31.1171, 25.3457, 9.5555

### Protanopia

23.4853, 25.4315, 11.2604

### Deuteranopia

25.9343, 25.4908, 9.3477



## Tritanopia

33.3713, 25.2573, 20.5691

# Trichromacy



## Original Color

31.1171, 25.3457, 9.5555

## Protanomaly

25.6844, 24.9361, 10.4806

## Deuteranomaly

27.7828, 25.4574, 9.4107

## Tritanomaly

32.3908, 25.1871, 15.7248

# Monochromacy



## Original Color

31.1171, 25.3457, 9.5555

## Achromatopsia

23.7775, 25.0158, 27.2422

## Achromatomaly

25.5171, 24.6538, 19.3333

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.1171, 25.3457, 9.5555 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, 117, 73)` looks like.

```
.text, #text, p{  
    color:rgb(199, 117, 73)  
}
```

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, 117, 73) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 117, 73) }
```

## Border

The CSS property to change the border of an element to XYZ 31.1171, 25.3457, 9.5555 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, 117, 73) }
```



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

```
.border{ border-color:rgb(199, 117, 73) }
```

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

Here you see how a box with a 4 pixel `rgb(199, 117, 73)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 117, 73); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 117, 73);  
box-shadow:4px 4px 4px 4px rgb(199, 117,  
73) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.1171, 25.3457, 9.5555 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 117, 73) }
```

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

```
.background{ background-color: rgb(199,  
117, 73) }
```

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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