

# Converting Colors

XYZ(30.7771, 24.7111, 13.1361)

Have a look what the booklet for  
XYZ(30.7771, 24.7111, 13.1361)  
contains.

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# Color

**XYZ(30.7840, 24.7526,  
13.0528)**

# Conversions

Conversions Part 1	
Format	Color
Hex	C4735B
RGB	196, 115, 91
RGB Percent	77%, 45%, 36%
CMY	0.2314, 0.5490, 0.6431
CMYK	0.00, 0.41, 0.54, 0.23
HSL	14°, 47%, 56%
HSV	14°, 54%, 77%
XYZ	30.7840, 24.7526, 13.0528
YIQ	136.4830, 55.9800, 9.7080

# Conversions

## Conversions Part 2

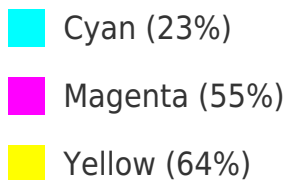
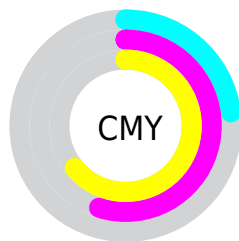
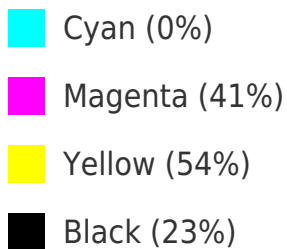
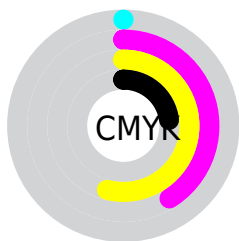
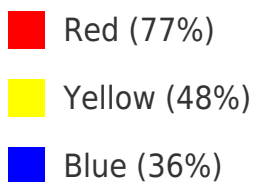
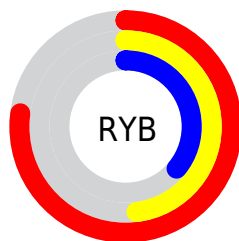
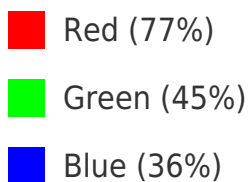
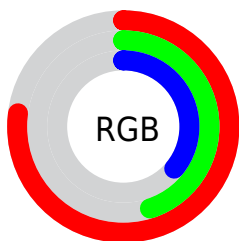
Format	Color
<a href="#">RYB</a>	<a href="#">196, 122, 91</a>
Decimal	<a href="#">12874587</a>
CIELab	<a href="#">56.83, 29.43, 26.96</a>
CIELCh	<a href="#">57, 39.915, 42.487</a>
Yxy	<a href="#">24.7526, 0.4488, 0.3609</a>
Android (android.graphics.Color)	<a href="#">4291064667</a> (0xFFC4735B)
YUV	<a href="#">136.4830, -22.4231, 52.1964</a>
Hunter-Lab	<a href="#">49.7520, 23.3808, 19.2712</a>

# Details

The XYZ color **30.7840, 24.7526, 13.0528** is a dark color, and the websafe version is hex **CC6666**. The color can be described as middle muted orange. A complement of this color would be **29.0298, 35.7128, 57.5875**, and the grayscale version is **23.6506, 24.8823, 27.0968**.

A 20% lighter version of the original color is **60.0504, 51.1884, 31.9146**, and **12.8452, 9.3733, 3.6148** is the 20% darker color. If you saturate the color by 10%, you get **28.4614, 21.2885, 8.6380**, and if you desaturate by 10%, it is **33.6114, 28.8731, 18.7256**.

# Distribution





# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.7840, 24.7526, 13.0528 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 30.7840, 24.7526, 13.0528 by changing the saturation by 10% instead.





 30.7840, 24.7526,  
13.0528


 30.7840, 24.7526,  
13.0528


297.3867,  
276.6036, 222.4755


 20.5854, 15.8928,  
7.3338


 60.2780, 51.2556,  
32.0912

 12.9320, 9.4483,  
3.5901


 80.3042, 69.6676,  
46.2476

 7.4584, 5.0348,  
1.4033


 104.3369, 92.0325,  
64.0536

 3.7993, 2.2677,  
0.1443

 132.7416,  
118.7346, 85.9276

 1.5892, 0.7565,  
0.0000

165.8835,  
150.1584, 112.2883

 0.3854, 0.0000,  
0.0000


204.1281,


 0.0000, 0.0000,


186.6882, 143.5541


0.0000


247.8407,  
228.7085, 180.1437


 30.7840, 24.7526,  
13.0528


 30.7840, 24.7526,  
13.0528


 28.4614, 21.2885,  
8.6380


 33.6114, 28.8731,  
18.7256


 26.6104, 18.4424,  
5.3826


 36.9703, 33.6782,  
25.7420


 25.1965, 16.1776,  
3.1755


 40.8876, 39.1989,  
34.1814


 24.1789, 14.4517,  
1.8825


 45.3879, 45.4633,  
44.1169


 23.6959, 13.5979,  
1.3758

 50.4941, 52.4977,  
55.6164

 56.2280, 60.3273,  
68.7437

 62.6103, 68.9762,  
83.5589

 69.6606, 78.4674,  
100.1192

 75.3361, 87.9982,  
107.6225

# Harmonies

## Analogous

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



33.4208, 24.7526, 21.7676



30.7840, 24.7526, 13.0528



26.3316, 24.7526, 9.1210

# Triad

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



30.7840, 24.7526, 13.0528



15.9645, 24.7526, 19.9338



25.5207, 24.7526, 60.6365

# Complementary

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



30.7840, 24.7526, 13.0528



29.0298, 35.7128, 57.5875

# 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.



20.9282, 24.7526, 59.6405



30.7840, 24.7526, 13.0528



15.8077, 24.7526, 32.8989

# Square

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



30.7840, 24.7526, 13.0528



17.9711, 24.7526, 12.0945



17.5101, 24.7526, 48.3034



30.1231, 24.7526, 50.6930



# Rectangle

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



30.7840, 24.7526, 13.0528



23.1393, 24.7526, 8.5659



17.5101, 24.7526, 48.3034



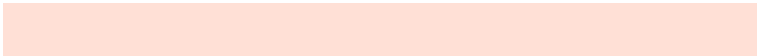
23.9182, 24.7526, 61.6443

# Sweetspot

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



30.7846, 24.7539, 13.0533



79.9321, 79.1830, 74.8233



34.0730, 22.2449, 42.1599



16.7378, 16.4328, 15.1941



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.



30.7846, 24.7539, 13.0533



51.0279, 37.7589, 14.6782



38.3349, 39.8545, 15.5700



10.2559, 10.4432, 10.5371



15.2806, 8.8470, 0.9023



0.7143, 0.4903, 0.0570



# Inverse Universe

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



29.0298, 35.7128, 57.5875



47.4346, 59.4668, 103.5859



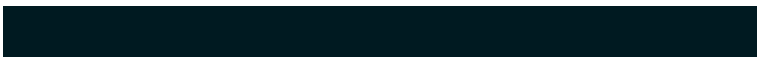
21.0854, 19.8239, 54.9393



10.1670, 11.0253, 12.8771



13.6001, 16.9567, 36.1128



0.6366, 0.8306, 1.5767



# Previews

## White Background



This preview shows how the XYZ color 30.7840, 24.7526, 13.0528 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

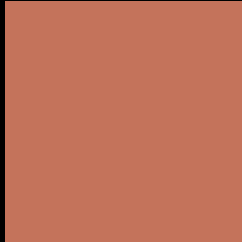
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 30.7840, 24.7526, 13.0528 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 30.7840, 24.7526, 13.0528**

## **Background**



This preview shows how black text looks on a background with the XYZ color 30.7840, 24.7526, 13.0528.



This preview shows how white text looks on a background with the XYZ color 30.7840, 24.7526,



# 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

30.7840, 24.7526, 13.0528

### Protanopia

23.2785, 25.0145, 15.6580

### Deuteranopia

25.3948, 24.9365, 12.7073



## Tritanopia

32.3029, 24.7066, 20.5191

# Trichromacy



**Original Color**  
30.7840, 24.7526, 13.0528

**Protanomaly**  
25.5250, 24.5629, 14.7051

**Deuteranomaly**  
27.0413, 24.6186, 12.7778

**Tritanomaly**  
31.5804, 24.5628, 17.5446

# Monochromacy



**Original Color**  
30.7840, 24.7526, 13.0528

**Achromatopsia**  
23.4014, 24.6201, 26.8113

**Achromatomaly**  
25.2099, 24.0635, 21.0853

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.7840, 24.7526, 13.0528 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(196, 115, 91)` looks like.

```
.text, #text, p{  
    color:rgb(196, 115, 91)  
}
```

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(196, 115, 91) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(196, 115, 91) }
```

## Border

The CSS property to change the border of an element to XYZ 30.7840, 24.7526, 13.0528 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(196, 115, 91) }
```



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

```
.border{ border-color:rgb(196, 115, 91) }
```

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

Here you see how a box with a 4 pixel rgb(196, 115, 91) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(196, 115, 91); -webkit-box-  
shadow:4px 4px 4px 4px rgb(196, 115, 91);  
box-shadow:4px 4px 4px 4px rgb(196, 115,  
91) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.7840, 24.7526, 13.0528 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(196, 115, 91) }
```

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

```
.background{ background-color: rgb(196,  
115, 91) }
```

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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