

# Converting Colors

XYZ(37.0202, 28.9642, 7.7759)

Have a look what the booklet for  
XYZ(37.0202, 28.9642, 7.7759)  
contains.

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# Color

**XYZ(37.0211, 28.9644,  
7.7771)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DC783B
RGB	220, 120, 59
RGB Percent	86%, 47%, 23%
CMY	0.1373, 0.5294, 0.7686
CMYK	0.00, 0.45, 0.73, 0.14
HSL	23°, 70%, 55%
HSV	23°, 73%, 86%
XYZ	37.0211, 28.9644, 7.7771
YIQ	142.9460, 79.1810, 2.2290

# Conversions

## Conversions Part 2

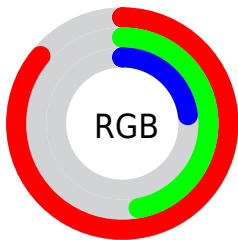
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	220, 157, 59
Decimal	14448699
CIE Lab	60.75, 34.33, 49.35
CIE LCh	61, 60.114, 55.172
Yxy	28.9644, 0.5019, 0.3927
Android (android.graphics.Color)	4292638779 (0xFFDC783B)
YUV	142.9460, -41.3854, 67.5764
Hunter-Lab	53.8186, 28.6053, 29.1053

# Details

The XYZ color **37.0211, 28.9644, 7.7771** 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 **27.1190, 30.8913, 72.2430**, and the grayscale version is **26.2256, 27.5914, 30.0470**.

A 20% lighter version of the original color is **58.9439, 52.2513, 21.4468**, and **16.5211, 11.7644, 1.5723** is the 20% darker color. If you saturate the color by 10%, you get **35.0384, 25.7281, 4.8697**, and if you desaturate by 10%, it is **39.4799, 32.7689, 12.0291**.

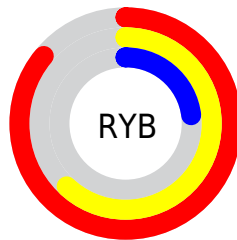
# Distribution



Red (86%)

Green (47%)

Blue (23%)



Red (86%)

Yellow (62%)

Blue (23%)

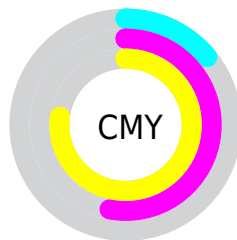


Cyan (0%)

Magenta (45%)

Yellow (73%)

Black (14%)



Cyan (14%)

Magenta (53%)


Yellow (77%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.0211, 28.9644, 7.7771 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 37.0211, 28.9644, 7.7771 by changing the saturation by 10% instead.





 37.0211, 28.9644,  
7.7771


 37.0211, 28.9644,  
7.7771


324.7558,  
297.0470, 183.8419


 25.3976, 19.0539,  
3.8669


 69.9189, 58.0205,  
22.0592

 16.5038, 11.7092,  
1.5526


 91.9238, 77.9349,  
33.2682

 9.9745, 6.5460,  
0.2567


 118.1199,  
101.9527, 47.7473

 5.4442, 3.1798,  
0.0000

 148.8726,  
130.4584, 65.9149

 2.5476, 1.2263,  
0.0000

 184.5472,  
163.8362, 88.1896

 0.9193, 0.0831,  
0.0000

 225.5090,

 0.0000, 0.0000,

202.4707, 114.9900

0.0000

272.1234,  
246.7461, 146.7346

■ 37.0211, 28.9644,  
7.7771

■ 37.0211, 28.9644,  
7.7771

■ 35.0384, 25.7281,  
4.8697

■ 39.4799, 32.7689,  
12.0291

■ 33.4875, 23.0226,  
3.1308

■ 42.4490, 37.1664,  
17.7689

■ 32.6360, 21.4576,  
2.4216

■ 45.9613, 42.1853,  
25.1227

■ 50.0458, 47.8506,  
34.2027

■ 54.7294, 54.1858,  
45.1111

■ 60.0371, 61.2132,  
57.9419

■ 65.9924, 68.9537,  
72.7828

■ 72.6175, 77.4277,  
89.7157

■ 79.6097, 86.5249,  
107.1128

# Harmonies

## Analogous

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



43.4684, 28.9644, 16.5609



37.0211, 28.9644, 7.7771



28.8123, 28.9644, 5.1709

# Triad

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



37.0211, 28.9644, 7.7771



15.1198, 28.9644, 28.0565



34.4192, 28.9644, 88.6211

# Complementary

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



37.0211, 28.9644, 7.7771



27.1190, 30.8913, 72.2430

# 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.



26.2859, 28.9644, 96.6779



37.0211, 28.9644, 7.7771



16.0587, 28.9644, 53.5785

# Square

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



37.0211, 28.9644, 7.7771



16.9567, 28.9644, 12.8083



19.8175, 28.9644, 81.6111



41.7781, 28.9644, 63.0035



# Rectangle

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



37.0211, 28.9644, 7.7771



23.7859, 28.9644, 5.5846



19.8175, 28.9644, 81.6111



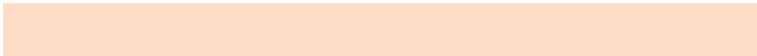
31.6473, 28.9644, 93.8660

# Sweetspot

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



37.0218, 28.9659, 7.7776



77.1717, 76.6480, 64.6991



37.5091, 20.9157, 35.7630



16.1116, 15.8619, 12.8847



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.



37.0218, 28.9659, 7.7776



47.6849, 33.7624, 5.2724



50.6206, 56.1636, 12.3106



13.4584, 13.8561, 13.6907



19.2532, 12.7919, 1.4543



1.3288, 0.9917, 0.1214

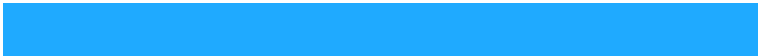


# Inverse Universe

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



27.1190, 30.8913, 72.2430



32.9722, 36.2434, 99.8656



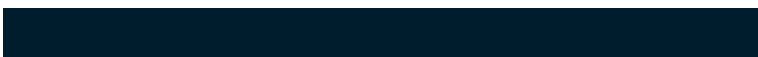
17.6249, 11.9032, 69.0783



13.0088, 13.9574, 16.6606



12.9121, 13.6936, 41.7010

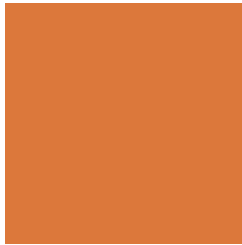


0.9186, 1.0513, 2.7289



# Previews

## White Background



This preview shows how the XYZ color 37.0211, 28.9644, 7.7771 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 37.0211, 28.9644, 7.7771 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 37.0211, 28.9644, 7.7771**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.0211, 28.9644, 7.7771.



This preview shows how white text looks on a background with the XYZ color 37.0211, 28.9644,



# 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

37.0211, 28.9644, 7.7771

### Protanopia

26.5511, 29.0592, 9.5198

### Deuteranopia

29.5724, 29.0898, 7.5463



## Tritanopia

39.7877, 28.8787, 21.5663

# Trichromacy



## Original Color

37.0211, 28.9644, 7.7771

## Protanomaly

29.6382, 28.4518, 8.7801

## Deuteranomaly

31.8663, 28.7963, 7.6201

## Tritanomaly

38.5742, 28.9022, 15.1009

# Monochromacy



## Original Color

37.0211, 28.9644, 7.7771

## Achromatopsia

26.1081, 27.4677, 29.9124

## Achromatomaly

28.3832, 27.1557, 19.0749

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.0211, 28.9644, 7.7771 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(220, 120, 59)` looks like.

```
.text, #text, p{  
    color:rgb(220, 120, 59)  
}
```

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(220, 120, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 120, 59) }
```

## Border

The CSS property to change the border of an element to XYZ 37.0211, 28.9644, 7.7771 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(220, 120, 59) }
```



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

```
.border{ border-color:rgb(220, 120, 59) }
```

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

Here you see how a box with a 4 pixel rgb(220, 120, 59) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 120, 59); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 120, 59);  
box-shadow:4px 4px 4px 4px rgb(220, 120,  
59) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.0211, 28.9644, 7.7771 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 120, 59) }
```

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

```
.background{ background-color: rgb(220,  
120, 59) }
```

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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