

# Converting Colors

XYZ(28.3894, 23.4662, 2.2430)

Have a look what the booklet for  
XYZ(28.3894, 23.4662, 2.2430)  
contains.

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# Color

**XYZ(28.4108, 23.4124,  
3.0216)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C37100
RGB	195, 113, 0
RGB Percent	76%, 44%, 0%
CMY	0.2353, 0.5568, 1.0000
CMYK	0.00, 0.42, 1.00, 0.24
HSL	35°, 100%, 38%
HSV	35°, 100%, 76%
XYZ	28.4108, 23.4124, 3.0216
YIQ	124.6360, 85.1450, -17.7590

# Conversions

## Conversions Part 2

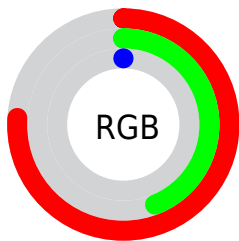
Format	Color
R <sub>Y</sub> B	142, 195, 0
Decimal	12808448
CIE Lab	55.49, 26.15, 62.72
CIE LCh	55, 67.947, 67.369
Yxy	23.4124, 0.5180, 0.4269
Android (android.graphics.Color)	4290998528 (0xFFC37100)
YUV	124.6360, -61.4455, 61.7092
Hunter-Lab	48.3864, 20.1329, 30.1679

# Details

The XYZ color **28.4108, 23.4124, 3.0216** 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 **12.8675, 9.9746, 52.8764**, and the grayscale version is **19.5514, 20.5696, 22.4002**.

A 20% lighter version of the original color is **55.6785, 48.5636, 11.5934**, and **11.8251, 8.8177, 1.0787** is the 20% darker color. If you saturate the color by 10%, you get **28.4110, 23.4131, 3.0217**, and if you desaturate by 10%, it is **29.4898, 25.3756, 3.9827**.

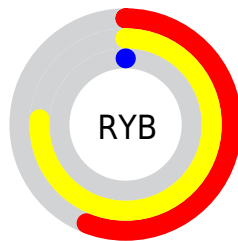
# Distribution



Red (76%)

Green (44%)

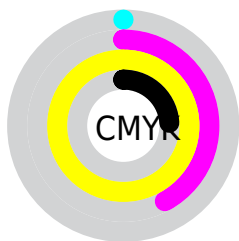
Blue (0%)



Red (56%)

Yellow (76%)

Blue (0%)

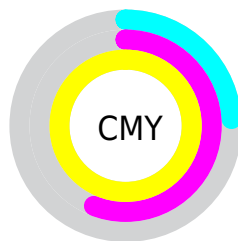


Cyan (0%)

Magenta (42%)

Yellow (100%)

Black (24%)



Cyan (24%)

Magenta (56%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.4108, 23.4124, 3.0216 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 28.4108, 23.4124, 3.0216 by changing the saturation by 10% instead.




 28.4108, 23.4124,  
3.0216

 28.4108, 23.4124,  
3.0216


286.4693,  
269.8361, 136.6353


 18.7776, 14.8983,  
1.1057


 56.5437, 49.0696,  
11.6817

 11.6127, 8.7481,  
0.0000


 75.7741, 66.9815,  
19.2629

 6.5509, 4.5772,  
0.0000


 98.9343, 88.7948,  
29.5697

 3.2267, 2.0014,  
0.0000

 126.3896,  
114.8939, 43.0205

 1.2747, 0.6083,  
0.0000

 158.5054,  
145.6632, 60.0340


 0.1642, 0.0000,  
0.0000


 195.6471,


 0.0000, 0.0000,


181.4871, 81.0285


0.0000


 238.1799,  
222.7499, 106.4228


 28.4108, 23.4124,  
3.0216


 28.4108, 23.4124,  
3.0216


 28.4110, 23.4131,  
3.0217

 29.4898, 25.3756,  
3.9827

 30.7755, 27.5560,  
5.6168

 32.3140, 29.9764,  
8.1537

 34.1296, 32.6496,  
11.7120

 36.2430, 35.5870,  
16.3920

■ 38.6729, 38.7989,  
22.2820

■ 41.4358, 42.2948,  
29.4611

■ 44.5472, 46.0836,  
38.0020

■ 48.0214, 50.1738,  
47.9716

# Harmonies

## Analogous

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



36.1205, 23.4124, 7.5115



28.4108, 23.4124, 3.0216



20.4177, 23.4124, 2.3750

# Triad

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



28.4108, 23.4124, 3.0216



10.6143, 23.4124, 31.2904



32.4357, 23.4124, 75.8145

# Complementary

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



28.4108, 23.4124, 3.0216



12.8675, 9.9746, 52.8764

# 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.



24.1947, 23.4124, 94.3185



28.4108, 23.4124, 3.0216



12.4848, 23.4124, 60.5932

# Square

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



28.4108, 23.4124, 3.0216



11.2440, 23.4124, 12.4684



17.0558, 23.4124, 87.5554



38.7914, 23.4124, 45.3969



# Rectangle

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



28.4108, 23.4124, 3.0216



16.1486, 23.4124, 3.3912



17.0558, 23.4124, 87.5554



29.7287, 23.4124, 84.2448

# Sweetspot

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



28.4113, 23.4136, 3.0220



73.9675, 75.4466, 52.1103



24.1255, 12.2501, 9.5841



15.7185, 15.9209, 10.1477



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.



28.4113, 23.4136, 3.0220



50.6328, 41.4290, 5.3280



38.8063, 48.9749, 7.4080



10.5471, 11.0255, 10.6341



18.5505, 15.3867, 1.9922



0.8685, 0.7987, 0.1084



# Inverse Universe

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



12.8675, 9.9746, 52.8764



22.8119, 17.3965, 94.6253



10.0164, 4.0258, 51.8784



9.8686, 10.4285, 12.7776



8.4423, 6.6411, 34.3935



0.4328, 0.4231, 1.5087



# Previews

## White Background



This preview shows how the XYZ color 28.4108, 23.4124, 3.0216 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 28.4108, 23.4124, 3.0216 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 28.4108, 23.4124, 3.0216**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.4108, 23.4124, 3.0216.



This preview shows how white text looks on a background with the XYZ color 28.4108, 23.4124,



# 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

28.4108, 23.4124, 3.0216

### Protanopia

21.3738, 23.6640, 3.8930

### Deuteranopia

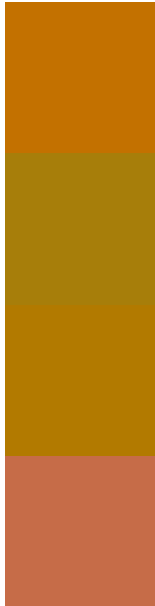
23.9516, 23.6138, 3.2955



## Tritanopia

31.5854, 23.4375, 18.4819

# Trichromacy



## Original Color

28.4108, 23.4124, 3.0216

## Protanomaly

23.4520, 23.1591, 3.5213

## Deuteranomaly

25.3196, 23.3840, 3.1791

## Tritanomaly

29.8210, 23.1988, 9.0370

# Monochromacy



## Original Color

28.4108, 23.4124, 3.0216

## Achromatopsia

19.4927, 20.5079, 22.3331

## Achromatomaly

20.8630, 20.7380, 10.4926

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.4108, 23.4124, 3.0216 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(195, 113, 0)` looks like.

```
.text, #text, p{  
    color:rgb(195, 113, 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(195, 113, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(195, 113, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 28.4108, 23.4124, 3.0216 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(195, 113, 0) }
```



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

```
.border{ border-color:rgb(195, 113, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(195, 113, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(195, 113, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(195, 113, 0);  
box-shadow:4px 4px 4px 4px rgb(195, 113,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.4108, 23.4124, 3.0216 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(195, 113, 0) }
```

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

```
.background{ background-color: rgb(195,  
113, 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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