

# Converting Colors

XYZ(29.6862, 22.9298, 2.8101)

Have a look what the booklet for  
XYZ(29.6862, 22.9298, 2.8101)  
contains.

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# Color

**XYZ(29.7826, 23.0046,  
2.8706)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CB6A00
RGB	203, 106, 0
RGB Percent	80%, 42%, 0%
CMY	0.2039, 0.5843, 1.0000
CMYK	0.00, 0.48, 1.00, 0.20
HSL	31°, 100%, 40%
HSV	31°, 100%, 80%
XYZ	29.7826, 23.0046, 2.8706
YIQ	122.9190, 91.8380, -12.4020

# Conversions

## Conversions Part 2

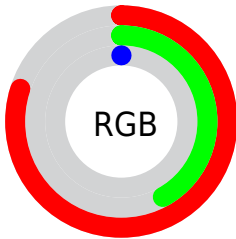
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	186, 203, 0
Decimal	13330944
CIE Lab	55.08, 33.24, 63.02
CIE LCh	55, 71.251, 62.190
Yxy	23.0046, 0.5351, 0.4133
Android (android.graphics.Color)	4291521024 (0xFFCB6A00)
YUV	122.9190, -60.5991, 70.2310
Hunter-Lab	47.9631, 26.9038, 30.0257

# Details

The XYZ color **29.7826, 23.0046, 2.8706** 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 **15.0540, 12.8608, 58.1883**, and the grayscale version is **18.9733, 19.9614, 21.7380**.

A 20% lighter version of the original color is **54.4210, 46.0954, 11.0300**, and **12.6185, 8.6770, 1.0098** is the 20% darker color. If you saturate the color by 10%, you get **29.7828, 23.0053, 2.8707**, and if you desaturate by 10%, it is **30.9689, 25.1711, 3.9025**.

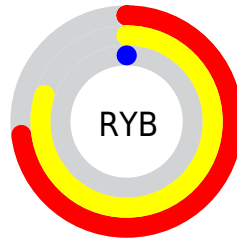
# Distribution



Red (80%)

Green (42%)

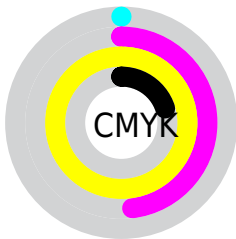
Blue (0%)



Red (73%)

Yellow (80%)

Blue (0%)

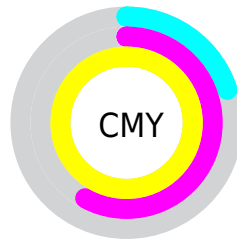


Cyan (0%)

Magenta (48%)

Yellow (100%)

Black (20%)



Cyan (20%)

Magenta (58%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 29.7826, 23.0046, 2.8706 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 29.7826, 23.0046, 2.8706 by changing the saturation by 10% instead.



■ 29.7826, 23.0046,  
2.8706

■ 29.7826, 23.0046,  
2.8706

292.8178,  
267.7486, 134.6951

■ 19.8209, 14.5969,  
1.0289

■ 58.7072, 48.4009,  
11.3074

■ 12.3724, 8.5370,  
0.0000

■ 78.4008, 66.1583,  
18.7397

■ 7.0718, 4.4404,  
0.0000

■ 102.0690, 87.8010,  
28.8726

■ 3.5538, 1.9229,  
0.0000

■ 130.0773,  
113.7134, 42.1246

■ 1.4529, 0.5621,  
0.0000

■ 162.7910,  
144.2800, 58.9143


■ 0.2935, 0.0000,  
0.0000


■ 200.5754,


■ 0.0000, 0.0000,


179.8852, 79.6603


0.0000


 243.7959,  
220.9132, 104.7810


 29.7826, 23.0046,  
2.8706


 29.7826, 23.0046,  
2.8706


 29.7828, 23.0053,  
2.8707

 30.9689, 25.1711,  
3.9025

 32.4068, 27.6239,  
5.6858

 34.1468, 30.3896,  
8.4676

 36.2169, 33.4847,  
12.3794

 38.6412, 36.9239,  
17.5326

■ 41.4411, 40.7206,  
24.0248

■ 44.6361, 44.8873,  
31.9441

■ 48.2441, 49.4356,  
41.3708

■ 52.2818, 54.3767,  
52.3791

# Harmonies

## Analogous

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



37.4833, 23.0046, 8.2379



29.7826, 23.0046, 2.8706



21.2874, 23.0046, 1.8426

# Triad

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



29.7826, 23.0046, 2.8706



9.8892, 23.0046, 26.7551



31.0407, 23.0046, 83.1997

# Complementary

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



29.7826, 23.0046, 2.8706



15.0540, 12.8608, 58.1883

# 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.



22.4534, 23.0046, 98.9841



29.7826, 23.0046, 2.8706



11.3291, 23.0046, 56.2768

# Square

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



29.7826, 23.0046, 2.8706



10.9571, 23.0046, 9.6940



15.4922, 23.0046, 86.9722



38.3246, 23.0046, 51.4604



# Rectangle

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



29.7826, 23.0046, 2.8706



16.5948, 23.0046, 2.4643



15.4922, 23.0046, 86.9722



28.1477, 23.0046, 91.1897

# Sweetspot

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



29.7831, 23.0059, 2.8710



74.5138, 74.8697, 52.9072



26.8386, 13.5806, 12.7916



15.4445, 15.3730, 10.0563



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.



29.7831, 23.0059, 2.8710



49.6492, 38.0785, 4.7331



45.0727, 54.9380, 8.2287



11.6889, 12.1667, 11.8118



19.0456, 14.8242, 1.8575



1.0583, 0.9162, 0.1211



# Inverse Universe

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



15.0540, 12.8608, 58.1883



24.9901, 21.1002, 97.3634



10.8219, 4.3337, 56.7654



11.0366, 11.7135, 14.2496



9.6702, 8.3644, 37.0611

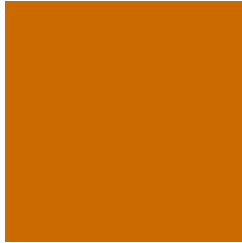


0.5747, 0.5832, 1.9372



# Previews

## White Background



This preview shows how the XYZ color 29.7826, 23.0046, 2.8706 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 29.7826, 23.0046, 2.8706 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 29.7826, 23.0046, 2.8706**

## **Background**



This preview shows how black text looks on a background with the XYZ color 29.7826, 23.0046, 2.8706.



This preview shows how white text looks on a background with the XYZ color 29.7826, 23.0046,



# 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

29.7826, 23.0046, 2.8706

### Protanopia

20.8831, 23.2051, 3.9087

### Deuteranopia

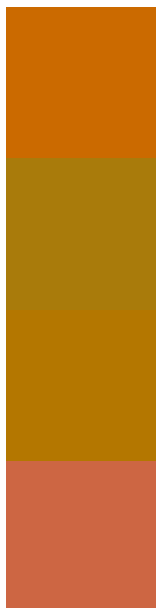
23.3972, 23.1372, 3.2328



## Tritanopia

32.4652, 23.0654, 16.1056

# Trichromacy



## Original Color

29.7826, 23.0046, 2.8706

## Protanomaly

23.5055, 22.6251, 3.4448

## Deuteranomaly

25.4192, 22.8969, 3.0798

## Tritanomaly

30.9413, 22.8871, 8.0971

# Monochromacy



## Original Color

29.7826, 23.0046, 2.8706

## Achromatopsia

18.8265, 19.8069, 21.5697

## Achromatomaly

20.6853, 19.9480, 9.9678

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 29.7826, 23.0046, 2.8706 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(203, 106, 0)` looks like.

```
.text, #text, p{  
    color:rgb(203, 106, 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(203, 106, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 106, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 29.7826, 23.0046, 2.8706 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(203, 106, 0) }
```



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

```
.border{ border-color:rgb(203, 106, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(203, 106, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 106, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 106, 0);  
box-shadow:4px 4px 4px 4px rgb(203, 106,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 29.7826, 23.0046, 2.8706 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 106, 0) }
```

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

```
.background{ background-color: rgb(203,  
106, 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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