

# Converting Colors

XYZ(32.7666, 23.7997, 4.0035)

Have a look what the booklet for  
XYZ(32.7666, 23.7997, 4.0035)  
contains.

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# Color

**XYZ(32.8998, 23.8431,  
4.0306)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D7651D
RGB	215, 101, 29
RGB Percent	84%, 40%, 11%
CMY	0.1569, 0.6039, 0.8863
CMYK	0.00, 0.53, 0.87, 0.16
HSL	23°, 76%, 48%
HSV	23°, 87%, 84%
XYZ	32.8998, 23.8431, 4.0306
YIQ	126.8780, 91.0560, 1.7760

# Conversions

## Conversions Part 2

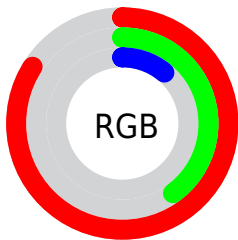
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	215, 146, 29
Decimal	14116125
CIE Lab	55.93, 41.02, 57.36
CIE LCh	56, 70.521, 54.431
Yxy	23.8431, 0.5414, 0.3923
Android (android.graphics.Color)	4292306205 (0xFFD7651D)
YUV	126.8780, -48.2539, 77.2830
Hunter-Lab	48.8294, 34.8166, 29.2865

# Details

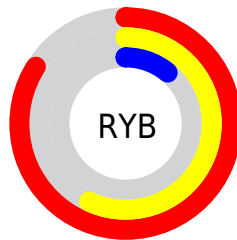
The XYZ color **32.8998, 23.8431, 4.0306** is a dark color, and the websafe version is hex **CC6600**. The color can be described as dark washed orange. A complement of this color would be **22.5943, 24.8111, 67.8878**, and the grayscale version is **20.2703, 21.3259, 23.2239**.

A 20% lighter version of the original color is **54.2808, 44.9653, 13.6028**, and **14.2775, 9.0535, 0.9950** is the 20% darker color. If you saturate the color by 10%, you get **31.5411, 21.4150, 2.6866**, and if you desaturate by 10%, it is **34.6489, 26.7578, 6.4134**.

# Distribution



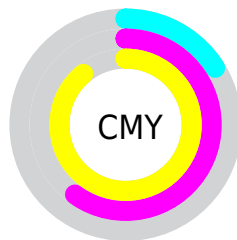
- Red (84%)
- Green (40%)
- Blue (11%)



- Red (84%)
- Yellow (57%)
- Blue (11%)



- Cyan (0%)
- Magenta (53%)
- Yellow (87%)
- Black (16%)




- Cyan (16%)
- Magenta (60%)
- Yellow (89%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.8998, 23.8431, 4.0306 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 32.8998, 23.8431, 4.0306 by changing the saturation by 10% instead.




 32.8998, 23.8431,  
4.0306


 32.8998, 23.8431,  
4.0306


306.8710,  
272.0263, 148.5649


 22.2086, 15.2173,  
1.6421


 63.5748, 49.7740,  
14.0803

 14.1277, 8.9720,  
0.3206


 84.2892, 67.8479,  
22.5786


 8.2918, 4.7229,  
0.0000


 109.0755, 89.8400,  
33.9506


 4.3356, 2.0856,  
0.0000

 138.2989,  
116.1346, 48.6148

 1.8937, 0.6565,  
0.0000

 172.3248,  
147.1161, 66.9898

 0.5732, 0.0000,  
0.0000

 211.5185,

 0.0000, 0.0000,

183.1690, 89.4941

0.0000

256.2455,  
224.6776, 116.5463

32.8998, 23.8431,  
4.0306

32.8998, 23.8431,  
4.0306

31.5411, 21.4150,  
2.6866

34.6489, 26.7578,  
6.4134

31.1352, 20.6690,  
2.3485

36.8300, 30.1869,  
10.0169

39.4791, 34.1598,  
14.9859

42.6273, 38.7018,  
21.4440

46.3027, 43.8364,  
29.5012

■ 50.5309, 49.5855,  
39.2568

■ 55.3358, 55.9701,  
50.8017

■ 60.7399, 63.0099,  
64.2208

■ 66.7643, 70.7235,  
79.5932

# Harmonies

## Analogous

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



39.8582, 23.8431, 11.6143



32.8998, 23.8431, 4.0306



24.1962, 23.8431, 2.1229

# Triad

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



32.8998, 23.8431, 4.0306



10.4926, 23.8431, 21.8960



29.6785, 23.8431, 90.7608

# Complementary

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



32.8998, 23.8431, 4.0306



22.5943, 24.8111, 67.8878

# 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.



21.1943, 23.8431, 99.6914



32.8998, 23.8431, 4.0306



11.2973, 23.8431, 48.9237

# Square

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



32.8998, 23.8431, 4.0306



12.2673, 23.8431, 7.7814



14.8047, 23.8431, 81.2163



37.7114, 23.8431, 61.1827



# Rectangle

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



32.8998, 23.8431, 4.0306



19.0227, 23.8431, 2.3548



14.8047, 23.8431, 81.2163



26.7385, 23.8431, 96.8059

# Sweetspot

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



32.9003, 23.8444, 4.0310



74.5322, 73.1999, 58.1743



33.4748, 17.3304, 27.8466



15.4652, 15.0102, 11.3092



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.



32.9003, 23.8444, 4.0310



45.6751, 30.1301, 3.4084



47.3823, 52.8083, 8.8583



12.8135, 13.2013, 13.0335



18.7183, 12.5539, 1.4366



1.2081, 0.9154, 0.1130



# Inverse Universe

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



22.5943, 24.8111, 67.8878



29.9860, 31.0921, 99.0287



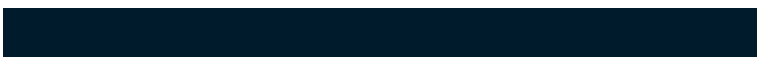
13.9433, 7.5093, 65.0041



12.3698, 13.2630, 15.8456



12.3585, 12.9787, 40.3069



0.8246, 0.9412, 2.4575



# Previews

## White Background



This preview shows how the XYZ color 32.8998, 23.8431, 4.0306 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 32.8998, 23.8431, 4.0306 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 32.8998, 23.8431, 4.0306**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.8998, 23.8431, 4.0306.



This preview shows how white text looks on a background with the XYZ color 32.8998, 23.8431,



# 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

32.8998, 23.8431, 4.0306

### Protanopia

21.7763, 24.0472, 5.3276

### Deuteranopia

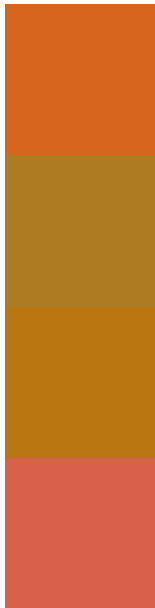
24.3460, 24.0041, 3.6085



## Tritanopia

35.2651, 23.8504, 15.0568

# Trichromacy



## Original Color

32.8998, 23.8431, 4.0306

## Protanomaly

24.8419, 23.2859, 4.7754

## Deuteranomaly

26.8217, 23.4334, 3.5997

## Tritanomaly

34.1600, 23.8091, 9.4518

# Monochromacy



## Original Color

32.8998, 23.8431, 4.0306

## Achromatopsia

20.1725, 21.2231, 23.1119

## Achromatomaly

22.6648, 21.0831, 12.7724

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.8998, 23.8431, 4.0306 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(215, 101, 29)` looks like.

```
.text, #text, p{  
    color:rgb(215, 101, 29)  
}
```

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(215, 101, 29) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(215, 101, 29) }
```

## Border

The CSS property to change the border of an element to XYZ 32.8998, 23.8431, 4.0306 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(215, 101, 29) }
```



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

```
.border{ border-color:rgb(215, 101, 29) }
```

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

Here you see how a box with a 4 pixel `rgb(215, 101, 29)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(215, 101, 29); -webkit-box-  
shadow:4px 4px 4px 4px rgb(215, 101, 29);  
box-shadow:4px 4px 4px 4px rgb(215, 101,  
29) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.8998, 23.8431, 4.0306 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(215, 101, 29) }
```

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

```
.background{ background-color: rgb(215,  
101, 29) }
```

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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