

# Converting Colors

XYZ(23.0843, 14.9911, 1.7545)

Have a look what the booklet for  
XYZ(23.0843, 14.9911, 1.7545)  
contains.

<b>XYZ(23.0698, 14.9596, 1.7577)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(23.0698, 14.9596,  
1.7577)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BD4403
RGB	189, 68, 3
RGB Percent	74%, 27%, 1%
CMY	0.2588, 0.7333, 0.9882
CMYK	0.00, 0.64, 0.98, 0.26
HSL	21°, 97%, 38%
HSV	21°, 98%, 74%
XYZ	23.0698, 14.9596, 1.7577
YIQ	96.7690, 92.9810, 5.4370

# Conversions

## Conversions Part 2

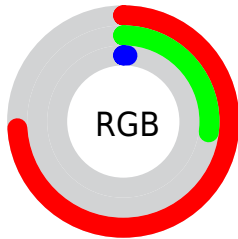
Format	Color
R <sub>Y</sub> B	189, 103, 3
Decimal	12403715
CIE Lab	45.58, 46.47, 55.62
CIE LCh	46, 72.479, 50.125
Yxy	14.9596, 0.5798, 0.3760
Android (android.graphics.Color)	4290593795 (0xFFBD4403)
YUV	96.7690, -46.2281, 80.8866
Hunter-Lab	38.6776, 38.7829, 24.3799

# Details

The XYZ color **23.0698, 14.9596, 1.7577** is a dark color, and the websafe version is hex **CC3300**. A complement of this color would be **16.4297, 18.1072, 50.7728**, and the grayscale version is **11.4001, 11.9938, 13.0613**.

A 20% lighter version of the original color is **48.1348, 34.8732, 8.3319**, and **8.8175, 4.6423, 0.4313** is the 20% darker color. If you saturate the color by 10%, you get **22.9375, 14.7216, 1.6326**, and if you desaturate by 10%, it is **24.0208, 16.6579, 2.7034**.

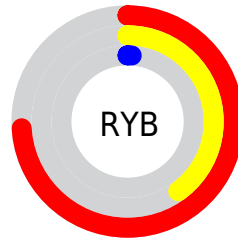
# Distribution



Red (74%)

Green (27%)

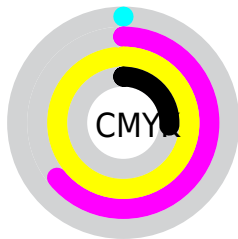
Blue (1%)



Red (74%)

Yellow (40%)

Blue (1%)

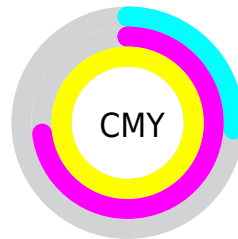


Cyan (0%)

Magenta (64%)

Yellow (98%)

Black (26%)



Cyan (26%)

Magenta (73%)


Yellow (99%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 23.0698, 14.9596, 1.7577 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 23.0698, 14.9596, 1.7577 by changing the saturation by 10% instead.





 23.0698, 14.9596,  
1.7577


 23.0698, 14.9596,  
1.7577


 260.6119,  
223.1216, 118.4931


 14.7660, 8.7910,  
0.3998


 47.9737, 34.7823,  
8.3671


 8.7406, 4.6051,  
0.0000


 65.3046, 49.2052,  
14.5587


 4.6281, 2.0175,  
0.0000


 86.3752, 67.1484,  
23.2330

 2.0633, 0.6176,  
0.0000

 111.5509, 88.9962,  
34.8085


 0.6691, 0.0000,  
0.0000


 141.1971,  
115.1330, 49.7037


 0.0000, 0.0000,  
0.0000


 175.6791,


145.9432, 68.3372


 215.3623,  
181.8113, 91.1275


 23.0698, 14.9596,  
1.7577


 23.0698, 14.9596,  
1.7577


 22.9375, 14.7216,  
1.6326

 24.0208, 16.6579,  
2.7034

 25.2619, 18.7355,  
4.3646

 26.8343, 21.2228,  
6.9158

 28.7658, 24.1433,  
10.4653

 31.0808, 27.5184,  
15.1057

■ 33.8013, 31.3680,  
20.9188

■ 36.9475, 35.7104,  
27.9786

■ 40.5380, 40.5632,  
36.3528

■ 44.5903, 45.9429,  
46.1043

# Harmonies

## Analogous

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



28.1991, 14.9596, 7.2955



23.0698, 14.9596, 1.7577



16.3112, 14.9596, 0.5019

# Triad

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



23.0698, 14.9596, 1.7577



5.5536, 14.9596, 11.2113



18.6148, 14.9596, 71.9766

# Complementary

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



23.0698, 14.9596, 1.7577



16.4297, 18.1072, 50.7728

# 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.



12.3132, 14.9596, 76.2111



23.0698, 14.9596, 1.7577



5.8464, 14.9596, 30.6735

# Square

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



23.0698, 14.9596, 1.7577



7.0220, 14.9596, 2.8965



7.9821, 14.9596, 57.6446



25.1620, 14.9596, 48.4006



# Rectangle

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



23.0698, 14.9596, 1.7577



12.2676, 14.9596, 0.5058



7.9821, 14.9596, 57.6446



16.3663, 14.9596, 76.1402

# Sweetspot

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



23.0701, 14.9605, 1.7579



64.9439, 62.2754, 47.3057



24.8495, 12.4162, 21.1656



13.4493, 12.6803, 9.0097



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



23.0701, 14.9605, 1.7579



40.8790, 25.9616, 2.8565



33.2294, 35.2789, 5.1443



9.7956, 10.0671, 10.0035



15.4986, 10.0360, 1.1203



0.6693, 0.5175, 0.0646



# Inverse Universe

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



16.4297, 18.1072, 50.7728



28.8909, 31.4603, 90.7759



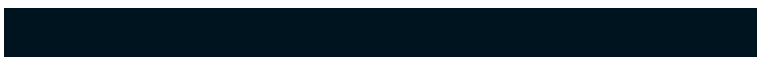
9.7949, 4.8376, 48.5612



9.5203, 10.2329, 12.1456



11.0150, 12.1416, 34.1559



0.4906, 0.5938, 1.3576



# Previews

## White Background



This preview shows how the XYZ color 23.0698, 14.9596, 1.7577 looks on a white 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



# Black Background



This preview shows how the XYZ color 23.0698, 14.9596, 1.7577 looks on a black 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

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 23.0698, 14.9596, 1.7577**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.0698, 14.9596, 1.7577.



This preview shows how white text looks on a background with the XYZ color 23.0698, 14.9596,



# 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

23.0698, 14.9596, 1.7577

### Protanopia

13.6209, 15.1254, 2.8634

### Deuteranopia

15.1668, 15.0189, 2.0996



## Tritanopia

24.0258, 14.9074, 6.9213

# Trichromacy



## Original Color

23.0698, 14.9596, 1.7577

## Protanomaly

15.9360, 14.1481, 2.3064

## Deuteranomaly

17.3719, 14.3824, 1.8892

## Tritanomaly

23.5801, 14.9096, 4.0179

# Monochromacy



## Original Color

23.0698, 14.9596, 1.7577

## Achromatopsia

11.3621, 11.9538, 13.0177

## Achromatomaly

13.4309, 11.7603, 6.2647

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.0698, 14.9596, 1.7577 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(189, 68, 3)` looks like.

```
.text, #text, p{  
    color:rgb(189, 68, 3)  
}
```

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(189, 68, 3) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 68, 3) }
```

## Border

The CSS property to change the border of an element to XYZ 23.0698, 14.9596, 1.7577 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(189, 68, 3) }
```



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

```
.border{ border-color:rgb(189, 68, 3) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 68, 3)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 68, 3); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 68, 3);  
box-shadow:4px 4px 4px 4px rgb(189, 68, 3)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 23.0698, 14.9596, 1.7577 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 68, 3) }
```

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

```
.background{ background-color: rgb(189, 68,  
3) }
```

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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