

# Converting Colors

XYZ(23.7457, 14.8445, 1.6137)

Have a look what the booklet for  
XYZ(23.7457, 14.8445, 1.6137)  
contains.

<b>XYZ(23.7698, 14.8925, 1.6217)</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(23.7698, 14.8925,  
1.6217)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C13F00
RGB	193, 63, 0
RGB Percent	76%, 25%, 0%
CMY	0.2431, 0.7529, 1.0000
CMYK	0.00, 0.67, 1.00, 0.24
HSL	20°, 100%, 38%
HSV	20°, 100%, 76%
XYZ	23.7698, 14.8925, 1.6217
YIQ	94.6880, 97.7030, 7.9670

# Conversions

## Conversions Part 2

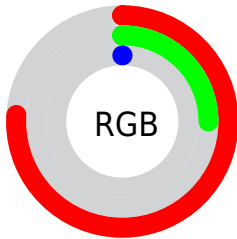
Format	Color
<a href="#">RYB</a>	<a href="#">193, 94, 0</a>
Decimal	<a href="#">12664576</a>
CIELab	<a href="#">45.49, 49.99, 56.80</a>
CIELCh	<a href="#">45, 75.666, 48.652</a>
Yxy	<a href="#">14.8925, 0.5901, 0.3697</a>
Android (android.graphics.Color)	<a href="#">4290854656 (0xFFC13F00)</a>
YUV	<a href="#">94.6880, -46.6812, 86.2196</a>
Hunter-Lab	<a href="#">38.5908, 42.4122, 24.5220</a>

# Details

The XYZ color **23.7698, 14.8925, 1.6217** is a dark color, and the websafe version is hex **CC3300**. The color can be described as dark washed red. A complement of this color would be **17.6070, 19.8132, 53.3479**, and the grayscale version is **10.8951, 11.4625, 12.4827**.

A 20% lighter version of the original color is **48.3398, 34.2780, 7.9394**, and **9.2059, 4.7458, 0.4308** is the 20% darker color. If you saturate the color by 10%, you get **23.7701, 14.8933, 1.6219**, and if you desaturate by 10%, it is **24.6972, 16.5554, 2.5235**.

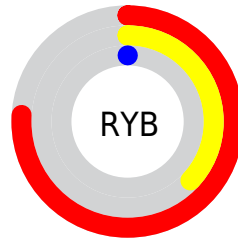
# Distribution



Red (76%)

Green (25%)

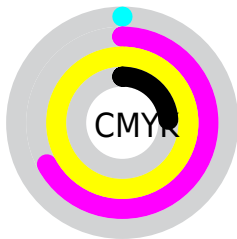
Blue (0%)



Red (76%)

Yellow (37%)

Blue (0%)

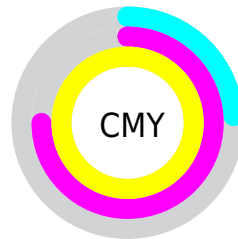


Cyan (0%)

Magenta (67%)

Yellow (100%)

Black (24%)



Cyan (24%)

Magenta (75%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 23.7698, 14.8925, 1.6217 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 23.7698, 14.8925, 1.6217 by changing the saturation by 10% instead.





 23.7698, 14.8925,  
1.6217


 23.7698, 14.8925,  
1.6217


 264.1167,  
222.7146, 116.1947


 15.2868, 8.7440,  
0.3062


 49.1117, 34.6645,  
7.9781


 9.1085, 4.5746,  
0.0000


 66.7013, 49.0567,  
13.9944


 4.8697, 1.9999,  
0.0000

 88.0571, 66.9657,  
22.4609

 2.2050, 0.6074,  
0.0000

 113.5444, 88.7757,  
33.7961

 0.7454, 0.0000,  
0.0000


 143.5287,  
114.8712, 48.4186


 0.0000, 0.0000,  
0.0000


 178.3753,


145.6366, 66.7468


 218.4495,  
181.4563, 89.1993


 23.7698, 14.8925,  
1.6217

 23.7698, 14.8925,  
1.6217


 23.7701, 14.8933,  
1.6219

 24.6972, 16.5554,  
2.5235

 25.9247, 18.6272,  
4.1140

 27.5053, 21.1458,  
6.6217

 29.4701, 24.1388,  
10.1645

 31.8463, 27.6307,  
14.8424

■ 34.6583, 31.6445,  
20.7437

■ 37.9284, 36.2016,  
27.9475

■ 41.6773, 41.3219,  
36.5264

■ 45.9244, 47.0246,  
46.5477

# Harmonies

## Analogous

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



29.0294, 14.8925, 7.4527



23.7698, 14.8925, 1.6217



16.6769, 14.8925, 0.2963

# Triad

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



23.7698, 14.8925, 1.6217



5.2850, 14.8925, 10.2980



18.3971, 14.8925, 76.3762

# Complementary

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



23.7698, 14.8925, 1.6217



17.6070, 19.8132, 53.3479

# 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.



11.9008, 14.8925, 79.6386



23.7698, 14.8925, 1.6217



5.4950, 14.8925, 30.0479

# Square

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



23.7698, 14.8925, 1.6217



6.8648, 14.8925, 2.3933



7.5612, 14.8925, 58.7427



25.3464, 14.8925, 51.6694



# Rectangle

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



23.7698, 14.8925, 1.6217



12.4082, 14.8925, 0.2531



7.5612, 14.8925, 58.7427



16.0582, 14.8925, 80.4609

# Sweetspot

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



23.7701, 14.8934, 1.6219



67.6363, 64.4316, 49.3931



26.1490, 13.0001, 22.9190



13.9580, 13.0570, 9.3678



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

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



23.7701, 14.8934, 1.6219



42.3746, 26.2777, 2.8387



34.1536, 35.6603, 5.0831



10.3358, 10.6030, 10.5637



15.8756, 10.0369, 1.1006



0.7497, 0.5611, 0.0688



# Inverse Universe

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



17.6070, 19.8132, 53.3479



31.3006, 35.0177, 95.4697



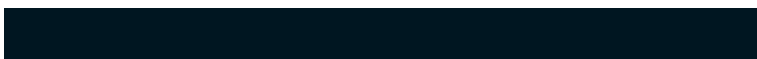
10.2380, 5.0750, 50.8915



10.0824, 10.8562, 12.8489



11.7862, 13.3288, 35.5081



0.5698, 0.6971, 1.5544



# Previews

## White Background



This preview shows how the XYZ color 23.7698, 14.8925, 1.6217 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 23.7698, 14.8925, 1.6217 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 23.7698, 14.8925, 1.6217**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.7698, 14.8925, 1.6217.



This preview shows how white text looks on a background with the XYZ color 23.7698, 14.8925,



# 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

23.7698, 14.8925, 1.6217

### Protanopia

13.6300, 15.1290, 2.9113

### Deuteranopia

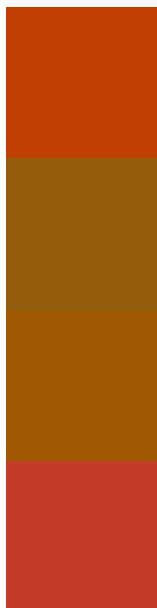
15.1668, 15.0189, 2.0996



## Tritanopia

24.6816, 14.9451, 6.1412

# Trichromacy



## Original Color

23.7698, 14.8925, 1.6217

## Protanomaly

16.1125, 13.9793, 2.2298

## Deuteranomaly

17.3944, 14.1475, 1.8140

## Tritanomaly

24.2302, 14.8475, 3.5082

# Monochromacy



## Original Color

23.7698, 14.8925, 1.6217

## Achromatopsia

10.8771, 11.4435, 12.4620

## Achromatomaly

13.2689, 11.3381, 5.7641

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.7698, 14.8925, 1.6217 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(193, 63, 0)` looks like.

```
.text, #text, p{  
    color:rgb(193, 63, 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(193, 63, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(193, 63, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 23.7698, 14.8925, 1.6217 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(193, 63, 0) }
```



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

```
.border{ border-color:rgb(193, 63, 0) }
```

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

Here you see how a box with a 4 pixel rgb(193, 63, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(193, 63, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(193, 63, 0);  
box-shadow:4px 4px 4px 4px rgb(193, 63, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 23.7698, 14.8925, 1.6217 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(193, 63, 0) }
```

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

```
.background{ background-color: rgb(193, 63,  
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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