

# Converting Colors

XYZ(23.4973, 14.8825, 1.6342)

Have a look what the booklet for  
XYZ(23.4973, 14.8825, 1.6342)  
contains.

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# Color

**XYZ(23.6285, 14.9871,  
1.6474)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C04100
RGB	192, 65, 0
RGB Percent	75%, 25%, 0%
CMY	0.2471, 0.7451, 1.0000
CMYK	0.00, 0.66, 1.00, 0.25
HSL	20°, 100%, 38%
HSV	20°, 100%, 75%
XYZ	23.6285, 14.9871, 1.6474
YIQ	95.5630, 96.5570, 6.7090

# Conversions

## Conversions Part 2

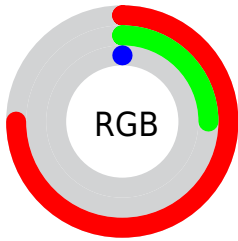
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	192, 98, 0
Decimal	12599552
CIE Lab	45.62, 48.80, 56.77
CIE LCh	46, 74.862, 49.316
Yxy	14.9871, 0.5869, 0.3722
Android (android.graphics.Color)	4290789632 (0xFFC04100)
YUV	95.5630, -47.1126, 84.5752
Hunter-Lab	38.7132, 41.1990, 24.5762

# Details

The XYZ color **23.6285, 14.9871, 1.6474** 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 **17.1026, 18.9823, 52.6312**, and the grayscale version is **11.1072, 11.6856, 12.7257**.

A 20% lighter version of the original color is **48.5753, 34.7491, 8.0179**, and **9.2059, 4.7458, 0.4308** is the 20% darker color. If you saturate the color by 10%, you get **23.6288, 14.9879, 1.6476**, and if you desaturate by 10%, it is **24.5610, 16.6615, 2.5466**.

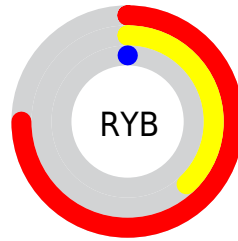
# Distribution



Red (75%)

Green (25%)

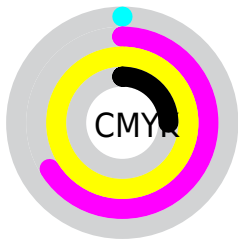
Blue (0%)



Red (75%)

Yellow (38%)

Blue (0%)

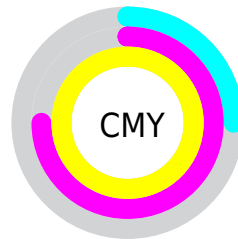


Cyan (0%)

Magenta (66%)

Yellow (100%)

Black (25%)



Cyan (25%)

Magenta (75%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.6285, 14.9871, 1.6474 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 23.6285, 14.9871, 1.6474 by changing the saturation by 10% instead.



■ 23.6285, 14.9871,  
1.6474

■ 23.6285, 14.9871,  
1.6474

■ 263.4124,  
223.2881, 116.6363

■ 15.1815, 8.8103,  
0.3243

■ 48.8824, 34.8305,  
8.0523

■ 9.0340, 4.6177,  
0.0000

■ 66.4200, 49.2660,  
14.1023

■ 4.8207, 2.0247,  
0.0000

■ 87.7185, 67.2232,  
22.6087

■ 2.1761, 0.6218,  
0.0000

■ 113.1433, 89.0864,  
33.9901

■ 0.7301, 0.0000,  
0.0000


■ 143.0597,  
115.2401, 48.6650


■ 0.0000, 0.0000,  
0.0000


■ 177.8332,


146.0687, 67.0520


 217.8289,  
181.9566, 89.5696


 23.6285, 14.9871,  
1.6474


 23.6285, 14.9871,  
1.6474


 23.6288, 14.9879,  
1.6476

 24.5610, 16.6615,  
2.5466

 25.7850, 18.7301,  
4.1241

 27.3524, 21.2295,  
6.6060

 29.2935, 24.1853,  
10.1087

 31.6345, 27.6212,  
14.7306

■ 34.3990, 31.5586,  
20.5587

■ 37.6086, 36.0179,  
27.6710

■ 41.2834, 41.0179,  
36.1391

■ 45.4420, 46.5767,  
46.0292

# Harmonies

## Analogous

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



28.9044, 14.9871, 7.3605



23.6285, 14.9871, 1.6474



16.5967, 14.9871, 0.3555

# Triad

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



23.6285, 14.9871, 1.6474



5.3839, 14.9871, 10.7218



18.6122, 14.9871, 75.3239

# Complementary

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



23.6285, 14.9871, 1.6474



17.1026, 18.9823, 52.6312

# 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.



12.1262, 14.9871, 79.1111



23.6285, 14.9871, 1.6474



5.6329, 14.9871, 30.5959

# Square

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



23.6285, 14.9871, 1.6474



6.9237, 14.9871, 2.5785



7.7469, 14.9871, 58.9479



25.4708, 14.9871, 50.7199



# Rectangle

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



23.6285, 14.9871, 1.6474



12.3825, 14.9871, 0.3338



7.7469, 14.9871, 58.9479



16.2850, 14.9871, 79.5217

# Sweetspot

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



23.6288, 14.9880, 1.6476



67.8465, 64.8520, 49.4632



25.6343, 12.7649, 21.5348



14.0070, 13.1551, 9.3842



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.



23.6288, 14.9880, 1.6476



42.6066, 26.7417, 2.9160



34.3087, 36.3478, 5.2076



10.3457, 10.6229, 10.5670



15.9651, 10.2159, 1.1304



0.7543, 0.5703, 0.0703



# Inverse Universe

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



17.1026, 18.9823, 52.6312



30.7467, 33.9099, 95.2850



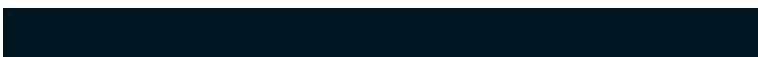
10.0309, 4.8388, 50.2739



10.0720, 10.8354, 12.8454



11.5827, 12.9218, 35.4403



0.5621, 0.6816, 1.5518



# Previews

## White Background



This preview shows how the XYZ color 23.6285, 14.9871, 1.6474 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 23.6285, 14.9871, 1.6474 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 23.6285, 14.9871, 1.6474**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.6285, 14.9871, 1.6474.



This preview shows how white text looks on a background with the XYZ color 23.6285, 14.9871,



# 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

23.6285, 14.9871, 1.6474

### Protanopia

13.7633, 15.1987, 2.8701

### Deuteranopia

15.1668, 15.0189, 2.0996



## Tritanopia

24.5865, 15.0451, 6.4586

# Trichromacy



## Original Color

23.6285, 14.9871, 1.6474

## Protanomaly

16.1997, 14.1537, 2.2589

## Deuteranomaly

17.4770, 14.3129, 1.8415

## Tritanomaly

24.1152, 14.9428, 3.7111

# Monochromacy



## Original Color

23.6285, 14.9871, 1.6474

## Achromatopsia

11.1181, 11.6971, 12.7381

## Achromatomaly

13.4509, 11.6592, 5.9564

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.6285, 14.9871, 1.6474 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(192, 65, 0)` looks like.

```
.text, #text, p{  
    color:rgb(192, 65, 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(192, 65, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(192, 65, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 23.6285, 14.9871, 1.6474 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(192, 65, 0) }
```



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

```
.border{ border-color:rgb(192, 65, 0) }
```

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

Here you see how a box with a 4 pixel rgb(192, 65, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(192, 65, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(192, 65, 0);  
box-shadow:4px 4px 4px 4px rgb(192, 65, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 23.6285, 14.9871, 1.6474 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(192, 65, 0) }
```

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

```
.background{ background-color: rgb(192, 65,  
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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