

# Converting Colors

XYZ(23.4581, 13.1220, 1.2964)

Have a look what the booklet for  
XYZ(23.4581, 13.1220, 1.2964)  
contains.

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# Color

**XYZ(23.4581, 13.1220,  
1.2964)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C42600
RGB	196, 38, 0
RGB Percent	77%, 15%, 0%
CMY	0.2314, 0.8509, 1.0000
CMYK	0.00, 0.81, 1.00, 0.23
HSL	12°, 100%, 38%
HSV	12°, 100%, 77%
XYZ	23.4581, 13.1220, 1.2964
YIQ	80.9100, 106.3660, 21.6780

# Conversions

## Conversions Part 2

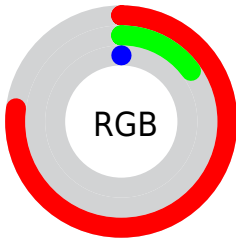
Format	Color
<a href="#">RYB</a>	196, 47, 0
Decimal	12854784
CIELab	42.95, 59.55, 55.96
CIElCh	43, 81.721, 43.220
Yxy	13.1220, 0.6193, 0.3464
Android (android.graphics.Color)	4291044864 (0xFFC42600)
YUV	80.9100, -39.8886, 100.9339
Hunter-Lab	36.2243, 52.2003, 23.2351

# Details

The XYZ color **23.4581, 13.1220, 1.2964** 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 **22.1882, 28.4345, 56.5432**, and the grayscale version is **7.8661, 8.2758, 9.0123**.

A 20% lighter version of the original color is **46.2735, 30.2617, 6.8922**, and **9.5157, 4.9055, 0.4453** is the 20% darker color. If you saturate the color by 10%, you get **23.4584, 13.1228, 1.2966**, and if you desaturate by 10%, it is **24.1980, 14.4057, 2.1485**.

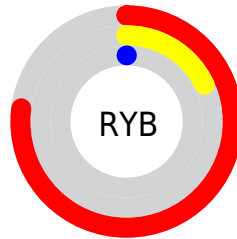
# Distribution



Red (77%)

Green (15%)

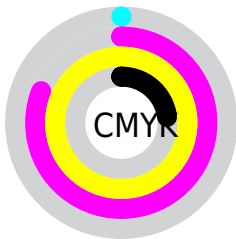
Blue (0%)



Red (77%)

Yellow (18%)

Blue (0%)

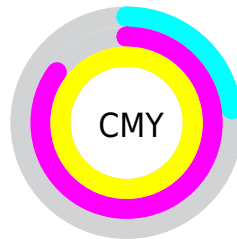


Cyan (0%)

Magenta (81%)

Yellow (100%)

Black (23%)



Cyan (23%)

Magenta (85%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 23.4581, 13.1220, 1.2964 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 23.4581, 13.1220, 1.2964 by changing the saturation by 10% instead.




 23.4581, 13.1220,  
1.2964


 23.4581, 13.1220,  
1.2964


 262.5609,  
211.6981, 110.2633


 15.0547, 7.5126,  
0.0588


 48.6056, 31.5228,  
7.0083


 8.9443, 3.7847,  
0.0000


 66.0804, 45.0830,  
12.5735


 4.7617, 1.5539,  
0.0000

 87.3096, 62.0622,  
20.5030

 2.1414, 0.3262,  
0.0000

 112.6587, 82.8449,  
31.2153


 0.7116, 0.0000,  
0.0000


 142.4931,  
107.8155, 45.1290


 0.0000, 0.0000,  
0.0000


 177.1780,


137.3582, 62.6625


 217.0788,  
171.8576, 84.2344


 23.4581, 13.1220,  
1.2964


 23.4581, 13.1220,  
1.2964


 23.4584, 13.1228,  
1.2966

 24.1980, 14.4057,  
2.1485

 25.3003, 16.2153,  
3.7333

 26.8299, 18.6111,  
6.2888

 28.8283, 21.6394,  
9.9407

 31.3315, 25.3418,  
14.7955

■ 34.3721, 29.7561,  
20.9472

■ 37.9795, 34.9175,  
28.4804

■ 42.1812, 40.8585,  
37.4723

■ 47.0029, 47.6101,  
47.9946

# Harmonies

## Analogous

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



28.2387, 13.1220, 7.7663



23.4581, 13.1220, 1.2964



16.2790, 13.1220, 0.0000

# Triad

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



23.4581, 13.1220, 1.2964



4.1340, 13.1220, 6.4685



15.4316, 13.1220, 80.9574

# Complementary

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



23.4581, 13.1220, 1.2964



22.1882, 28.4345, 56.5432

# 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.



9.3103, 13.1220, 79.2086



23.4581, 13.1220, 1.2964



4.0420, 13.1220, 23.7077

# Square

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



23.4581, 13.1220, 1.2964



5.9128, 13.1220, 1.0141



5.5971, 13.1220, 53.2714



22.6617, 13.1220, 56.9959



# Rectangle

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



23.4581, 13.1220, 1.2964



11.8083, 13.1220, 0.0000



5.5971, 13.1220, 53.2714



13.1603, 13.1220, 83.7182

# Sweetspot

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



23.4584, 13.1228, 1.2966



68.4707, 62.7835, 50.8928



29.1158, 14.2761, 34.5091



14.0335, 12.5510, 9.5860



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.



23.4584, 13.1228, 1.2966



42.3575, 23.4950, 2.3025



31.2807, 28.7674, 3.9040



10.2278, 10.3871, 10.5277



15.1216, 8.5290, 0.8493



0.7018, 0.4654, 0.0528



# Inverse Universe

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



22.1882, 28.4345, 56.5432



40.0116, 51.1432, 102.3705



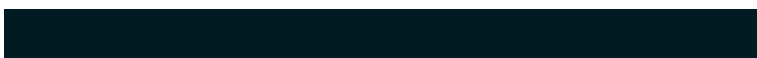
11.6900, 7.4380, 53.0438



10.1972, 11.0857, 12.8871



14.3175, 18.3914, 36.3519



0.6622, 0.8818, 1.5852



# Previews

## White Background



This preview shows how the XYZ color 23.4581, 13.1220, 1.2964 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



## 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 23.4581, 13.1220, 1.2964**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.4581, 13.1220, 1.2964.



This preview shows how white text looks on a background with the XYZ color 23.4581, 13.1220,



# 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

23.4581, 13.1220, 1.2964

### Protanopia

12.0853, 13.4113, 2.8158

### Deuteranopia

13.4209, 13.4025, 1.8796



## Tritanopia

23.6992, 13.1189, 2.8732

# Trichromacy



## Original Color

23.4581, 13.1220, 1.2964

## Protanomaly

14.3838, 11.5557, 1.9243

## Deuteranomaly

15.7213, 11.9412, 1.4763

## Tritanomaly

23.5713, 13.1168, 2.0485

# Monochromacy



## Original Color

23.4581, 13.1220, 1.2964

## Achromatopsia

7.8210, 8.2283, 8.9606

## Achromatomaly

10.6785, 8.2395, 4.2764

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.4581, 13.1220, 1.2964 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(196, 38, 0)` looks like.

```
.text, #text, p{  
    color:rgb(196, 38, 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(196, 38, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(196, 38, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 23.4581, 13.1220, 1.2964 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(196, 38, 0) }
```



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

```
.border{ border-color:rgb(196, 38, 0) }
```

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

Here you see how a box with a 4 pixel rgb(196, 38, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(196, 38, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(196, 38, 0);  
box-shadow:4px 4px 4px 4px rgb(196, 38, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 23.4581, 13.1220, 1.2964 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(196, 38, 0) }
```

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

```
.background{ background-color: rgb(196, 38,  
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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