

# Converting Colors

XYZ(24.1672, 13.3696, 1.3068)

Have a look what the booklet for  
XYZ(24.1672, 13.3696, 1.3068)  
contains.

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# Color

**XYZ(24.1542, 13.3442,  
1.3026)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C72300
RGB	199, 35, 0
RGB Percent	78%, 14%, 0%
CMY	0.2196, 0.8627, 1.0000
CMYK	0.00, 0.82, 1.00, 0.22
HSL	11°, 100%, 39%
HSV	11°, 100%, 78%
XYZ	24.1542, 13.3442, 1.3026
YIQ	80.0460, 108.9790, 23.8830

# Conversions

## Conversions Part 2

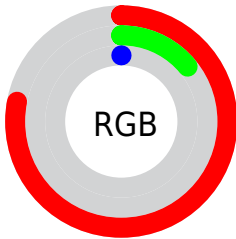
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	199, 42, 0
Decimal	13050624
CIE Lab	43.28, 61.20, 56.46
CIE LCh	43, 83.265, 42.694
Yxy	13.3442, 0.6225, 0.3439
Android (android.graphics.Color)	4291240704 (0xFFC72300)
YUV	80.0460, -39.4627, 104.3227
Hunter-Lab	36.5297, 54.1009, 23.4566

# Details

The XYZ color **24.1542, 13.3442, 1.3026** 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 **23.5812, 30.6684, 58.7090**, and the grayscale version is **7.6951, 8.0958, 8.8163**.

A 20% lighter version of the original color is **46.1805, 30.0757, 6.8612**, and **9.9917, 5.1509, 0.4676** is the 20% darker color. If you saturate the color by 10%, you get **24.1545, 13.3450, 1.3028**, and if you desaturate by 10%, it is **24.8804, 14.5962, 2.1632**.

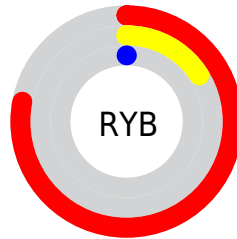
# Distribution



Red (78%)

Green (14%)

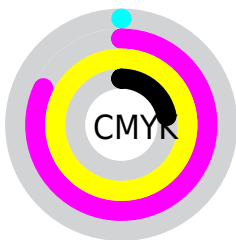
Blue (0%)



Red (78%)

Yellow (16%)

Blue (0%)

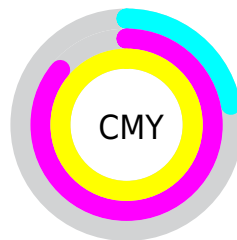


Cyan (0%)

Magenta (82%)

Yellow (100%)

Black (22%)



Cyan (22%)

Magenta (86%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 24.1542, 13.3442, 1.3026 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 24.1542, 13.3442, 1.3026 by changing the saturation by 10% instead.





 24.1542, 13.3442,  
1.3026


 24.1542, 13.3442,  
1.3026


 266.0252,  
213.1120, 110.3830


 15.5734, 7.6660,  
0.0639


 49.7346, 31.9208,  
7.0274


 9.3117, 3.8820,  
0.0000


 67.4648, 45.5879,  
12.6017

 5.0038, 1.6078,  
0.0000

 88.9756, 62.6869,  
20.5421

 2.2843, 0.3628,  
0.0000

 114.6323, 83.6020,  
31.2670


 0.7866, 0.0000,  
0.0000


 144.8003,  
108.7177, 45.1950


 0.0000, 0.0000,  
0.0000


 179.8448,


138.4183, 62.7446


 220.1313,  
173.0883, 84.3345


 24.1542, 13.3442,  
1.3026


 24.1542, 13.3442,  
1.3026


 24.1545, 13.3450,  
1.3028

 24.8804, 14.5962,  
2.1632

 25.9884, 16.4055,  
3.7866

 27.5474, 18.8386,  
6.4179

 29.6021, 21.9471,  
10.1882

 32.1913, 25.7769,  
15.2089

■ 35.3501, 30.3701,  
21.5779

■ 39.1103, 35.7653,  
29.3833

■ 43.5015, 41.9985,  
38.7057

■ 48.5511, 49.1035,  
49.6198

# Harmonies

## Analogous

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



29.0333, 13.3442, 8.0398



24.1542, 13.3442, 1.3026



16.7411, 13.3442, 0.0000

# Triad

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



24.1542, 13.3442, 1.3026



4.1461, 13.3442, 6.3189



15.6078, 13.3442, 84.0038

# Complementary

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



24.1542, 13.3442, 1.3026



23.5812, 30.6684, 58.7090

# 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.



9.3406, 13.3442, 81.6434



24.1542, 13.3442, 1.3026



4.0247, 13.3442, 23.8134

# Square

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



24.1542, 13.3442, 1.3026



5.9963, 13.3442, 0.9380



5.5782, 13.3442, 54.3620



23.0862, 13.3442, 59.3796



# Rectangle

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



24.1542, 13.3442, 1.3026



12.1094, 13.3442, 0.0000



5.5782, 13.3442, 54.3620



13.2750, 13.3442, 86.7018

# Sweetspot

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



24.1545, 13.3450, 1.3028



68.1673, 62.1766, 50.7917



30.4206, 14.8890, 37.2665



13.9638, 12.4115, 9.5628



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.



24.1545, 13.3450, 1.3028



42.1734, 23.1269, 2.2411



31.8949, 28.8258, 3.8829



10.7823, 10.9337, 11.1049



15.5777, 8.6726, 0.8529



0.7853, 0.5061, 0.0563

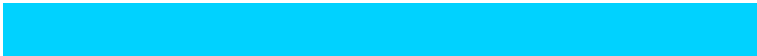


# Inverse Universe

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



23.5812, 30.6684, 58.7090



41.1287, 53.3774, 102.7429



12.2765, 8.0590, 54.9408



10.7818, 11.7377, 13.6148



15.2208, 19.8356, 37.7708



0.7636, 1.0249, 1.8027



# Previews

## White Background



This preview shows how the XYZ color 24.1542, 13.3442, 1.3026 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 24.1542, 13.3442, 1.3026**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.1542, 13.3442, 1.3026.



This preview shows how white text looks on a background with the XYZ color 24.1542, 13.3442,



# 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

24.1542, 13.3442, 1.3026

### Protanopia

12.3176, 13.6796, 2.8554

### Deuteranopia

13.5736, 13.4812, 1.8867



## Tritanopia

24.3444, 13.3288, 2.5859

# Trichromacy



## Original Color

24.1542, 13.3442, 1.3026

## Protanomaly

14.7363, 11.7374, 1.9408

## Deuteranomaly

16.0336, 12.0007, 1.4713

## Tritanomaly

24.2515, 13.3367, 1.9579

# Monochromacy



## Original Color

24.1542, 13.3442, 1.3026

## Achromatopsia

7.6249, 8.0220, 8.7359

## Achromatomaly

10.5993, 8.1168, 4.1400

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.1542, 13.3442, 1.3026 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(199, 35, 0)` looks like.

```
.text, #text, p{  
    color:rgb(199, 35, 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(199, 35, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 35, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 24.1542, 13.3442, 1.3026 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(199, 35, 0) }
```



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

```
.border{ border-color:rgb(199, 35, 0) }
```

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

Here you see how a box with a 4 pixel rgb(199, 35, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 35, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 35, 0);  
box-shadow:4px 4px 4px 4px rgb(199, 35, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 24.1542, 13.3442, 1.3026 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 35, 0) }
```

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

```
.background{ background-color: rgb(199, 35,  
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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