

# Converting Colors

XYZ(23.2622, 10.7093, 0.3136)

Have a look what the booklet for  
XYZ(23.2622, 10.7093, 0.3136)  
contains.

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# Color

**XYZ(24.3571, 12.5566,  
1.1399)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CA0000
RGB	202, 0, 0
RGB Percent	79%, 0%, 0%
CMY	0.2078, 0.9998, 1.0000
CMYK	0.00, 1.00, 1.00, 0.21
HSL	0°, 100%, 40%
HSV	0°, 100%, 79%
XYZ	24.3571, 12.5566, 1.1399
YIQ	60.3980, 120.3920, 42.8240

# Conversions

## Conversions Part 2

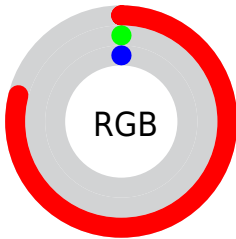
Format	Color
<a href="#">RYB</a>	202, 0, 0
Decimal	13238272
CIELab	42.09, 67.21, 56.40
CIElCh	42, 87.740, 40.000
Yxy	12.5566, 0.6401, 0.3300
Android (android.graphics.Color)	4291428352 (0xFFCA0000)
YUV	60.3980, -29.7762, 124.1850
Hunter-Lab	35.4353, 60.6835, 22.8974

# Details

The XYZ color **24.3571, 12.5566, 1.1399** is a dark color, and the websafe version is hex **CC0000**. The color can be described as dark washed red. A complement of this color would be **31.7703, 46.4838, 63.1743**, and the grayscale version is **4.3827, 4.6110, 5.0213**.

A 20% lighter version of the original color is **45.1083, 28.0049, 6.2768**, and **10.3165, 5.3184, 0.4828** is the 20% darker color. If you saturate the color by 10%, you get **24.3574, 12.5574, 1.1400**, and if you desaturate by 10%, it is **24.7394, 13.1165, 1.8990**.

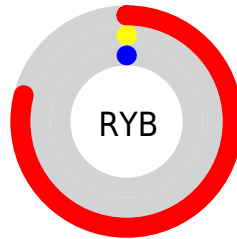
# Distribution



Red (79%)

Green (0%)

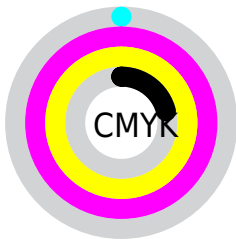
Blue (0%)



Red (79%)

Yellow (0%)

Blue (0%)

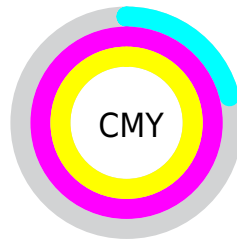


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (21%)



Cyan (21%)

Magenta (100%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 24.3571, 12.5566, 1.1399 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 24.3571, 12.5566, 1.1399 by changing the saturation by 10% instead.





 24.3571, 12.5566,  
1.1399


 24.3571, 12.5566,  
1.1399


 267.0280,  
208.0561, 107.1359

 15.7249, 7.1239,  
0.0000


 50.0628, 30.5049,  
6.5173


 9.4193, 3.5397,  
0.0000


 67.8669, 43.7893,  
11.8456

 5.0750, 1.4196,  
0.0000

 89.4591, 60.4597,  
19.4915

 2.3265, 0.2311,  
0.0000

 115.2047, 80.9005,  
29.8737


 0.8082, 0.0000,  
0.0000


 145.4690,  
105.4962, 43.4107


 0.0000, 0.0000,  
0.0000


 180.6174,


134.6311, 60.5210


 221.0153,  
168.6896, 81.6233


 24.3571, 12.5566,  
1.1399


 24.3571, 12.5566,  
1.1399

 24.3574, 12.5574,  
1.1400

 24.7394, 13.1165,  
1.8990

 25.5203, 14.2595,  
3.4507

 26.8376, 16.1874,  
6.0686

 28.7642, 19.0067,  
9.8980

 31.3617, 22.8078,  
15.0613

■ 34.6842, 27.6696,  
21.6663

■ 38.7804, 33.6633,  
29.8093

■ 43.6945, 40.8539,  
39.5789

■ 49.4676, 49.3013,  
51.0564

# Harmonies

## Analogous

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



29.0457, 12.5566, 8.3332



24.3571, 12.5566, 1.1399



16.7607, 12.5566, 0.0000

# Triad

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



24.3571, 12.5566, 1.1399



3.6008, 12.5566, 4.6969



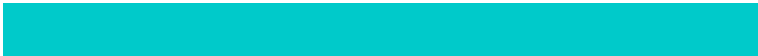
14.2488, 12.5566, 88.3710

# Complementary

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



24.3571, 12.5566, 1.1399



31.7703, 46.4838, 63.1743

# 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.



8.1372, 12.5566, 82.8646



24.3571, 12.5566, 1.1399



3.3521, 12.5566, 20.9094

# Square

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



24.3571, 12.5566, 1.1399



5.5499, 12.5566, 0.3742



4.6725, 12.5566, 52.2184



21.9528, 12.5566, 63.8042



# Rectangle

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



24.3571, 12.5566, 1.1399



11.9346, 12.5566, 0.0000



4.6725, 12.5566, 52.2184



11.9347, 12.5566, 90.2789

# Sweetspot

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



24.3574, 12.5574, 1.1401



65.3497, 56.5414, 49.8525



35.0174, 16.8207, 57.2776



13.3228, 11.1296, 9.3491



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.



24.3574, 12.5574, 1.1401



41.2406, 21.2612, 1.9302



29.0105, 21.8638, 2.6911



11.2126, 11.2141, 11.6530



15.6739, 8.0808, 0.7336



0.8087, 0.4170, 0.0379



# Inverse Universe

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



31.7703, 46.4838, 63.1743



53.7919, 78.7038, 106.9640



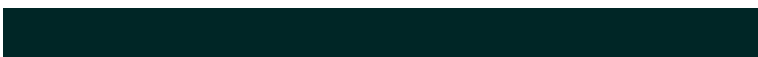
15.3142, 13.5716, 57.6889



11.5431, 12.7266, 14.4185



20.4441, 29.9123, 40.6524



1.0548, 1.5433, 2.0972



# Previews

## White Background



This preview shows how the XYZ color 24.3571, 12.5566, 1.1399 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 24.3571, 12.5566, 1.1399**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.3571, 12.5566, 1.1399.



This preview shows how white text looks on a background with the XYZ color 24.3571, 12.5566,



# 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

24.3571, 12.5566, 1.1399

### Protanopia

11.8773, 13.1547, 2.8904

### Deuteranopia

13.1768, 13.1386, 1.8415



## Tritanopia

24.0523, 12.7451, 1.1924

# Trichromacy



## Original Color

24.3571, 12.5566, 1.1399

## Protanomaly

13.8455, 9.9321, 1.7177

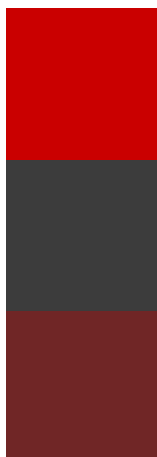
## Deuteranomaly

15.2402, 10.4138, 1.2068

## Tritanomaly

24.2189, 12.6805, 1.1711

# Monochromacy



## Original Color

24.3571, 12.5566, 1.1399

## Achromatopsia

4.2949, 4.5186, 4.9208

## Achromatomaly

7.7251, 4.9709, 2.3860

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.3571, 12.5566, 1.1399 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(202, 0, 0)` looks like.

```
.text, #text, p{  
    color:rgb(202, 0, 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(202, 0, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 0, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 24.3571, 12.5566, 1.1399 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(202, 0, 0) }
```



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

```
.border{ border-color:rgb(202, 0, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(202, 0, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 0, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(202, 0, 0); box-shadow:4px  
4px 4px 4px rgb(202, 0, 0) }
```

# Background

The CSS property to change the background color of an element to XYZ 24.3571, 12.5566, 1.1399 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 0, 0) }
```

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

```
.background{ background-color: rgb(202, 0,  
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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