

# Converting Colors

XYZ(20.5005, 6.2611, 0.0000)

Have a look what the booklet for  
XYZ(20.5005, 6.2611, 0.0000)  
contains.

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# Color

**XYZ(23.5532, 12.1421,  
1.1023)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C70000
RGB	199, 0, 0
RGB Percent	78%, 0%, 0%
CMY	0.2196, 0.9998, 1.0000
CMYK	0.00, 1.00, 1.00, 0.22
HSL	0°, 100%, 39%
HSV	0°, 100%, 78%
XYZ	23.5532, 12.1421, 1.1023
YIQ	59.5010, 118.6040, 42.1880

# Conversions

## Conversions Part 2

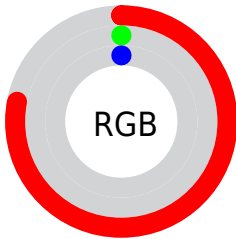
Format	Color
<b>RYB</b>	199, 0, 0
Decimal	13041664
CIELab	41.44, 66.47, 55.77
CIELCh	41, 86.764, 40.000
Yxy	12.1421, 0.6401, 0.3300
Android (android.graphics.Color)	4291231744 (0xFFC70000)
YUV	59.5010, -29.3340, 122.3406
Hunter-Lab	34.8455, 59.6742, 22.5163

# Details

The XYZ color **23.5532, 12.1421, 1.1023** 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 **30.7233, 44.9527, 61.0899**, and the grayscale version is **4.2565, 4.4782, 4.8768**.

A 20% lighter version of the original color is **45.0302, 27.8486, 6.2508**, and **9.8315, 5.0683, 0.4601** is the 20% darker color. If you saturate the color by 10%, you get **23.5534, 12.1428, 1.1024**, and if you desaturate by 10%, it is **23.9274, 12.6902, 1.8456**.

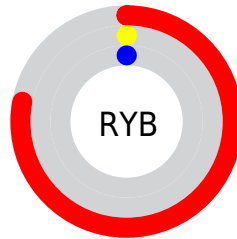
# Distribution



Red (78%)

Green (0%)

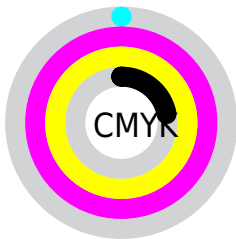
Blue (0%)



Red (78%)

Yellow (0%)

Blue (0%)

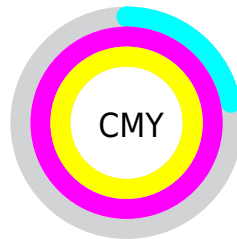


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (22%)



Cyan (22%)

Magenta (100%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.5532, 12.1421, 1.1023 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 23.5532, 12.1421, 1.1023 by changing the saturation by 10% instead.





 23.5532, 12.1421,  
1.1023


 23.5532, 12.1421,  
1.1023


 263.0364,  
205.3438, 106.3518


 15.1255, 6.8405,  
0.0000


 48.7601, 29.7536,  
6.3965


 8.9944, 3.3626,  
0.0000


 66.2700, 42.8324,  
11.6654

 4.7946, 1.3238,  
0.0000


 87.5379, 59.2724,  
19.2402

 2.1608, 0.1595,  
0.0000

 112.9293, 79.4579,  
29.5395

 0.7219, 0.0000,  
0.0000


 142.8095,  
103.7734, 42.9818


 0.0000, 0.0000,  
0.0000


 177.5438,


132.6033, 59.9855


 217.4977,  
166.3320, 80.9694


 23.5532, 12.1421,  
1.1023


 23.5532, 12.1421,  
1.1023


 23.5534, 12.1428,  
1.1024

 23.9274, 12.6902,  
1.8456

 24.6858, 13.8002,  
3.3525

 25.9624, 15.6684,  
5.8897

 27.8275, 18.3978,  
9.5969

 30.3405, 22.0751,  
14.5923

■ 33.5535, 26.7766,  
20.9794

■ 37.5132, 32.5709,  
28.8514

■ 42.2626, 39.5204,  
38.2933

■ 47.8411, 47.6831,  
49.3838

# Harmonies

## Analogous

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



28.0870, 12.1421, 8.0583



23.5532, 12.1421, 1.1023



16.2076, 12.1421, 0.0000

# Triad

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



23.5532, 12.1421, 1.1023



3.4819, 12.1421, 4.5417



13.7783, 12.1421, 85.4543

# Complementary

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



23.5532, 12.1421, 1.1023



30.7233, 44.9527, 61.0899

# 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.



7.8685, 12.1421, 80.1292



23.5532, 12.1421, 1.1023



3.2414, 12.1421, 20.2189

# Square

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



23.5532, 12.1421, 1.1023



5.3667, 12.1421, 0.3485



4.5182, 12.1421, 50.4943



21.2280, 12.1421, 61.6987



# Rectangle

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



23.5532, 12.1421, 1.1023



11.5407, 12.1421, 0.0000



4.5182, 12.1421, 50.4943



11.5407, 12.1421, 87.2991

# Sweetspot

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



23.5535, 12.1429, 1.1025



65.3492, 56.5404, 49.8523



33.8618, 16.2656, 55.3873



13.3227, 11.1294, 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.



23.5535, 12.1429, 1.1025



41.2405, 21.2610, 1.9302



28.0624, 21.1609, 2.6055



10.6341, 10.6373, 11.0555



15.1456, 7.8083, 0.7089



0.7172, 0.3698, 0.0336



# Inverse Universe

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



30.7233, 44.9527, 61.0899



53.7946, 78.7092, 106.9649



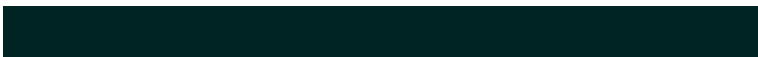
14.8182, 13.1423, 55.7881



10.9466, 12.0672, 13.6698



19.7560, 28.9060, 39.2825



0.9355, 1.3688, 1.8600



# Previews

## White Background



This preview shows how the XYZ color 23.5532, 12.1421, 1.1023 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 23.5532, 12.1421, 1.1023**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.5532, 12.1421, 1.1023.



This preview shows how white text looks on a background with the XYZ color 23.5532, 12.1421,



# 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

23.5532, 12.1421, 1.1023

### Protanopia

11.6502, 12.8927, 2.8518

### Deuteranopia

12.6964, 12.6200, 1.7667



## Tritanopia

23.2423, 12.3029, 1.1497

# Trichromacy



## Original Color

23.5532, 12.1421, 1.1023

## Protanomaly

13.4362, 9.6366, 1.6822

## Deuteranomaly

14.7527, 10.0040, 1.1534

## Tritanomaly

23.4084, 12.2451, 1.1298

# Monochromacy



## Original Color

23.5532, 12.1421, 1.1023

## Achromatopsia

4.2949, 4.5186, 4.9208

## Achromatomaly

7.5985, 4.9057, 2.3801

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.5532, 12.1421, 1.1023 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, 0, 0)` looks like.

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

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

## Border

The CSS property to change the border of an element to XYZ 23.5532, 12.1421, 1.1023 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, 0, 0) }
```



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

```
.border{ border-color:rgb(199, 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(199, 0, 0)` colored shadow looks like.

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

# Background

The CSS property to change the background color of an element to XYZ 23.5532, 12.1421, 1.1023 is called "background". The background property can be set on classes, ids or directly on the HTML element.

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

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

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