

# Converting Colors

XYZ(23.2667, 13.5025, 4.3891)

Have a look what the booklet for  
XYZ(23.2667, 13.5025, 4.3891)  
contains.

<b>XYZ(23.3709, 13.5507, 4.4014)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(23.3709, 13.5507,  
4.4014)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C03032
RGB	192, 48, 50
RGB Percent	75%, 19%, 20%
CMY	0.2471, 0.8117, 0.8039
CMYK	0.00, 0.75, 0.74, 0.25
HSL	359°, 60%, 47%
HSV	359°, 75%, 75%
XYZ	23.3709, 13.5507, 4.4014
YIQ	91.2840, 85.1820, 31.1500

# Conversions

## Conversions Part 2

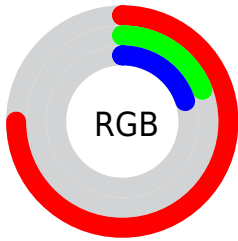
Format	Color
R <sub>Y</sub> B	192, 48, 50
Decimal	12595250
CIE Lab	43.58, 56.43, 34.09
CIE LCh	44, 65.924, 31.136
Yxy	13.5507, 0.5656, 0.3279
Android (android.graphics.Color)	4290785330 (0xFFC03032)
YUV	91.2840, -20.3530, 88.3279
Hunter-Lab	36.8113, 48.9071, 18.6788

# Details

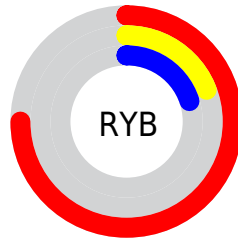
The XYZ color **23.3709, 13.5507, 4.4014** is a dark color, and the websafe version is hex **CC3333**. The color can be described as dark muted red. A complement of this color would be **29.3643, 42.0458, 55.2889**, and the grayscale version is **10.0410, 10.5639, 11.5041**.

A 20% lighter version of the original color is **48.4492, 32.2262, 14.9760**, and **9.2388, 4.7590, 0.6039** is the 20% darker color. If you saturate the color by 10%, you get **22.4210, 12.1752, 2.4692**, and if you desaturate by 10%, it is **24.8300, 15.6747, 7.3366**.

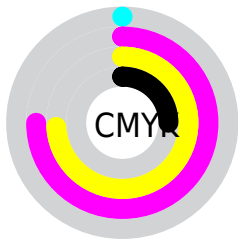
# Distribution



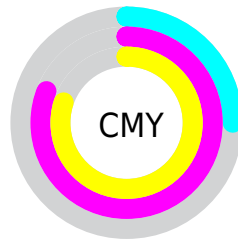
- Red (75%)
- Green (19%)
- Blue (20%)



- Red (75%)
- Yellow (19%)
- Blue (20%)



- Cyan (0%)
- Magenta (75%)
- Yellow (74%)
- Black (25%)




- Cyan (25%)
- Magenta (81%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.3709, 13.5507, 4.4014 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 23.3709, 13.5507, 4.4014 by changing the saturation by 10% instead.




 23.3709, 13.5507,  
4.4014


 23.3709, 13.5507,  
4.4014


262.1242,  
214.4175, 152.5876


 14.9898, 7.8088,  
1.8480


 48.4638, 32.2897,  
14.9254


 8.8985, 3.9729,  
0.4594


 65.9064, 46.0555,  
23.7331


 4.7316, 1.6584,  
0.0000

 87.1001, 63.2649,  
35.4627

 2.1238, 0.3965,  
0.0000

 112.4104, 84.3021,  
50.5327

 0.7021, 0.0000,  
0.0000

 142.2026,  
109.5516, 69.3617

 0.0000, 0.0000,  
0.0000

 176.8421,

139.3977, 92.3681

216.6942,  
174.2249, 119.9706

■ 23.3709, 13.5507,  
4.4014

■ 23.3709, 13.5507,  
4.4014

■ 22.4210, 12.1752,  
2.4692

■ 24.8300, 15.6747,  
7.3366

■ 21.9095, 11.4419,  
1.4058

■ 26.8548, 18.6303,  
11.3849

■ 21.7526, 11.2122,  
1.0939

■ 29.4957, 22.4919,  
16.6429

■ 32.7969, 27.3255,  
23.1964

■ 36.7987, 33.1905,  
31.1234

■ 41.5383, 40.1420,  
40.4959

■ 47.0501, 48.2308,  
51.3807

■ 53.3663, 57.5046,  
63.8405

■ 60.5176, 68.0086,  
77.9345

# Harmonies

## Analogous

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



25.5586, 13.5507, 14.1983



23.3709, 13.5507, 4.4014



18.2852, 13.5507, 1.2397

# Triad

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



23.3709, 13.5507, 4.4014



5.9997, 13.5507, 4.8515



13.0772, 13.5507, 65.2728

# Complementary

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



23.3709, 13.5507, 4.4014



29.3643, 42.0458, 55.2889

# 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.



8.6605, 13.5507, 56.2311



23.3709, 13.5507, 4.4014



5.2904, 13.5507, 15.3249

# Square

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



23.3709, 13.5507, 4.4014



8.4016, 13.5507, 1.3509



6.1187, 13.5507, 34.8549



18.7189, 13.5507, 54.8679



# Rectangle

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



23.3709, 13.5507, 4.4014



14.4690, 13.5507, 0.6994



6.1187, 13.5507, 34.8549



11.4109, 13.5507, 64.3778

# Sweetspot

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



23.3712, 13.5515, 4.4016



68.8137, 63.2718, 60.6205



31.7071, 16.8162, 51.4435



14.2894, 12.8797, 12.0684



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.



23.3712, 13.5515, 4.4016



39.9467, 21.0847, 3.0690



28.7039, 24.2840, 5.9720



10.0787, 10.0801, 10.5051



14.6397, 7.5456, 0.7486



0.6345, 0.3268, 0.0428



# Inverse Universe

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



23.3712, 13.5515, 4.4016



39.9467, 21.0847, 3.0690



17.7432, 18.4532, 52.4954



10.0787, 10.0801, 10.5051



14.6397, 7.5456, 0.7486



0.6345, 0.3268, 0.0428



# Previews

## White Background



This preview shows how the XYZ color 23.3709, 13.5507, 4.4014 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 23.3709, 13.5507, 4.4014 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 23.3709, 13.5507, 4.4014**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.3709, 13.5507, 4.4014.



This preview shows how white text looks on a background with the XYZ color 23.3709, 13.5507,



# 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

23.3709, 13.5507, 4.4014

### Protanopia

12.8038, 13.8287, 7.4632

### Deuteranopia

13.9153, 13.7509, 4.0186



## Tritanopia

23.3709, 13.5507, 4.4014

# Trichromacy



## Original Color

23.3709, 13.5507, 4.4014

## Protanomaly

15.1680, 12.4284, 6.0144

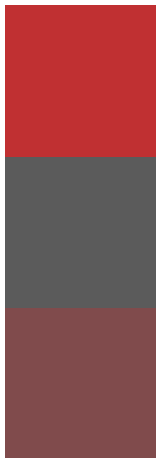
## Deuteranomaly

16.2722, 12.5946, 3.9562

## Tritanomaly

23.3709, 13.5507, 4.4014

# Monochromacy



## Original Color

23.3709, 13.5507, 4.4014

## Achromatopsia

9.9438, 10.4616, 11.3927

## Achromatomaly

12.7227, 10.1432, 8.1247

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.3709, 13.5507, 4.4014 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, 48, 50)` looks like.

```
.text, #text, p{  
    color:rgb(192, 48, 50)  
}
```

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, 48, 50) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(192, 48, 50) }
```

## Border

The CSS property to change the border of an element to XYZ 23.3709, 13.5507, 4.4014 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, 48, 50) }
```



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

```
.border{ border-color:rgb(192, 48, 50) }
```

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

Here you see how a box with a 4 pixel rgb(192, 48, 50) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(192, 48, 50); -webkit-box-  
shadow:4px 4px 4px 4px rgb(192, 48, 50);  
box-shadow:4px 4px 4px 4px rgb(192, 48,  
50) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.3709, 13.5507, 4.4014 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(192, 48, 50) }
```

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

```
.background{ background-color: rgb(192, 48,  
50) }
```

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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