

# Converting Colors

XYZ(21.4279, 9.8650, 1.5617)

Have a look what the booklet for  
XYZ(21.4279, 9.8650, 1.5617)  
contains.

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# Color

**XYZ(22.1470, 11.3993,  
1.8436)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C10017
RGB	193, 0, 23
RGB Percent	76%, 0%, 9%
CMY	0.2431, 0.9999, 0.9098
CMYK	0.00, 1.00, 0.88, 0.24
HSL	353°, 100%, 38%
HSV	353°, 100%, 76%
XYZ	22.1470, 11.3993, 1.8436
YIQ	60.3290, 107.6450, 48.0690

# Conversions

## Conversions Part 2

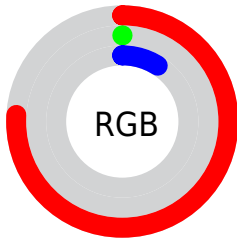
<b>Format</b>	<b>Color</b>
<b>RYB</b>	193, 0, 23
Decimal	12648471
CIELab	40.25, 65.24, 45.62
CIELCh	40, 79.608, 34.961
Yxy	11.3993, 0.6258, 0.3221
Android (android.graphics.Color)	4290838551 (0xFFC10017)
YUV	60.3290, -18.4032, 116.3525
Hunter-Lab	33.7628, 58.0035, 20.3965

# Details

The XYZ color **22.1470, 11.3993, 1.8436** 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 **26.3293, 41.0436, 44.5822**, and the grayscale version is **4.3580, 4.5850, 4.9930**.

A 20% lighter version of the original color is **45.4074, 27.8762, 8.6176**, and **9.0533, 4.6671, 0.4237** is the 20% darker color. If you saturate the color by 10%, you get **22.1465, 11.3991, 1.8420**, and if you desaturate by 10%, it is **22.6138, 11.9678, 3.1259**.

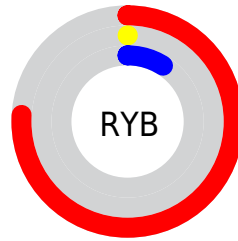
# Distribution



Red (76%)

Green (0%)

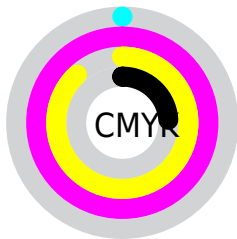
Blue (9%)



Red (76%)

Yellow (0%)

Blue (9%)

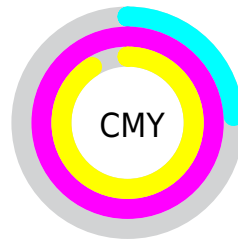


Cyan (0%)

Magenta (100%)

Yellow (88%)

Black (24%)



Cyan (24%)

Magenta (100%)


Yellow (91%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.1470, 11.3993, 1.8436 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 22.1470, 11.3993, 1.8436 by changing the saturation by 10% instead.





 22.1470, 11.3993,  
1.8436


 22.1470, 11.3993,  
1.8436


255.9309,  
200.3869, 119.8989


 14.0822, 6.3361,  
0.4565


 46.4659, 28.3962,  
8.6086

 8.2599, 3.0505,  
0.0000


 63.4506, 41.0987,  
14.9076

 4.3149, 1.1582,  
0.0000

 84.1394, 57.1164,  
23.7088

 1.8818, 0.0271,  
0.0000

 108.8975, 76.8337,  
35.4309


 0.5662, 0.0000,  
0.0000


 138.0904,  
100.6350, 50.4925


 0.0000, 0.0000,  
0.0000


 172.0834,


128.9047, 69.3119


 211.2418,  
162.0272, 92.3079


 22.1470, 11.3993,  
1.8436


 22.1470, 11.3993,  
1.8436


 22.1465, 11.3991,  
1.8420

 22.6138, 11.9678,  
3.1259

 23.4445, 13.0601,  
5.1569

 24.7384, 14.8516,  
8.0430

 26.5515, 17.4337,  
11.8660

 28.9317, 20.8843,  
16.6979

■ 31.9215, 25.2714,  
22.6037

■ 35.5592, 30.6568,  
29.6429

■ 39.8800, 37.0967,  
37.8707

■ 44.9164, 44.6431,  
47.3384

# Harmonies

## Analogous

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



25.3259, 11.3993, 9.9516



22.1470, 11.3993, 1.8436



16.0088, 11.3993, 0.0000

# Triad

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



22.1470, 11.3993, 1.8436



3.7561, 11.3993, 3.4491



11.7842, 11.3993, 74.5604

# Complementary

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



22.1470, 11.3993, 1.8436



26.3293, 41.0436, 44.5822

# 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.



6.9161, 11.3993, 65.8123



22.1470, 11.3993, 1.8436



3.3006, 11.3993, 15.2476

# Square

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



22.1470, 11.3993, 1.8436



5.7973, 11.3993, 0.2899



4.2303, 11.3993, 39.4594



18.1737, 11.3993, 58.0967



# Rectangle

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



22.1470, 11.3993, 1.8436



11.7994, 11.3993, 0.0000



4.2303, 11.3993, 39.4594



9.9240, 11.3993, 74.5485

# Sweetspot

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



22.1472, 11.4000, 1.8438



63.3411, 54.3927, 52.4265



25.6196, 12.0961, 51.4363



12.9690, 10.7498, 10.0528



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.



22.1472, 11.4000, 1.8438



39.6196, 20.3979, 3.0600



24.2322, 15.8172, 1.7769



10.1209, 10.0970, 10.7271



14.7461, 7.5882, 1.3089



0.6536, 0.3345, 0.1434



# Inverse Universe

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



22.1472, 11.4000, 1.8438



39.6196, 20.3979, 3.0600



16.6158, 17.8301, 53.0176



10.1209, 10.0970, 10.7271



14.7461, 7.5882, 1.3089



0.6536, 0.3345, 0.1434



# Previews

## White Background



This preview shows how the XYZ color 22.1470, 11.3993, 1.8436 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 22.1470, 11.3993, 1.8436**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.1470, 11.3993, 1.8436.



This preview shows how white text looks on a background with the XYZ color 22.1470, 11.3993,

1.8436.

# 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

22.1470, 11.3993, 1.8436

### Protanopia

11.0574, 12.1398, 3.7679

### Deuteranopia

12.0827, 12.0397, 1.6871



## Tritanopia

21.9545, 11.6391, 1.0894

# Trichromacy



## Original Color

22.1470, 11.3993, 1.8436

## Protanomaly

12.8266, 9.1362, 2.6008

## Deuteranomaly

13.8205, 9.4414, 1.3237

## Tritanomaly

21.9017, 11.4633, 1.2880

# Monochromacy



## Original Color

22.1470, 11.3993, 1.8436

## Achromatopsia

4.2949, 4.5186, 4.9208

## Achromatomaly

7.3905, 4.7796, 3.2224

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.1470, 11.3993, 1.8436 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(193, 0, 23)` looks like.

```
.text, #text, p{  
  color:rgb(193, 0, 23)  
}
```

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(193, 0, 23) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(193, 0, 23) }
```

## Border

The CSS property to change the border of an element to XYZ 22.1470, 11.3993, 1.8436 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(193, 0, 23) }
```



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

```
.border{ border-color:rgb(193, 0, 23) }
```

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

Here you see how a box with a 4 pixel rgb(193, 0, 23) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(193, 0, 23); -webkit-box-  
shadow:4px 4px 4px 4px rgb(193, 0, 23);  
box-shadow:4px 4px 4px 4px rgb(193, 0, 23)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 22.1470, 11.3993, 1.8436 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(193, 0, 23) }
```

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

```
.background{ background-color: rgb(193, 0,  
23) }
```

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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