

# Converting Colors

XYZ(22.3474, 11.5031, 1.8318)

Have a look what the booklet for  
XYZ(22.3474, 11.5031, 1.8318)  
contains.

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# Color

**XYZ(22.4028, 11.5312,  
1.8556)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C20017
RGB	194, 0, 23
RGB Percent	76%, 0%, 9%
CMY	0.2392, 0.9999, 0.9098
CMYK	0.00, 1.00, 0.88, 0.24
HSL	353°, 100%, 38%
HSV	353°, 100%, 76%
XYZ	22.4028, 11.5312, 1.8556
YIQ	60.6280, 108.2410, 48.2810

# Conversions

## Conversions Part 2

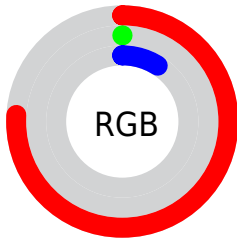
<b>Format</b>	<b>Color</b>
<b>RYB</b>	194, 0, 23
Decimal	12714007
CIELab	40.46, 65.49, 45.88
CIElCh	40, 79.962, 35.013
Yxy	11.5312, 0.6260, 0.3222
Android (android.graphics.Color)	4290904087 (0xFFC20017)
YUV	60.6280, -18.5506, 116.9672
Hunter-Lab	33.9576, 58.3356, 20.5305

# Details

The XYZ color **22.4028, 11.5312, 1.8556** 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 **26.6463, 41.5252, 45.1574**, and the grayscale version is **4.4005, 4.6296, 5.0417**.

A 20% lighter version of the original color is **45.4074, 27.8762, 8.6176**, and **9.2059, 4.7458, 0.4308** is the 20% darker color. If you saturate the color by 10%, you get **22.4023, 11.5310, 1.8538**, and if you desaturate by 10%, it is **22.8731, 12.1039, 3.1475**.

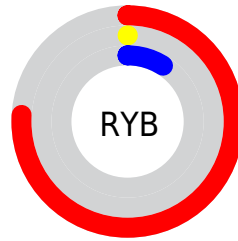
# Distribution



Red (76%)

Green (0%)

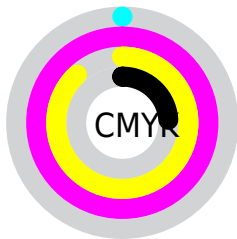
Blue (9%)



Red (76%)

Yellow (0%)

Blue (9%)

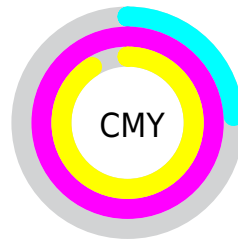


Cyan (0%)

Magenta (100%)

Yellow (88%)

Black (24%)



Cyan (24%)

Magenta (100%)


Yellow (91%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.4028, 11.5312, 1.8556 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 22.4028, 11.5312, 1.8556 by changing the saturation by 10% instead.





 22.4028, 11.5312,  
1.8556


 22.4028, 11.5312,  
1.8556


257.2356,  
201.2765, 120.0927


 14.2714, 6.4253,  
0.4643


 46.8848, 28.6384,  
8.6421


 8.3927, 3.1054,  
0.0000


 63.9660, 41.4084,  
14.9559

 4.4011, 1.1870,  
0.0000

 84.7614, 57.5020,  
23.7746

 1.9315, 0.0510,  
0.0000

 109.6360, 77.3035,  
35.5169


 0.5950, 0.0000,  
0.0000


 138.9555,  
101.1973, 50.6013


 0.0000, 0.0000,  
0.0000


 173.0850,


129.5678, 69.4464


 212.3899,  
162.7994, 92.4707


 22.4028, 11.5312,  
1.8556


 22.4028, 11.5312,  
1.8556

 22.4023, 11.5310,  
1.8538

 22.8731, 12.1039,  
3.1475

 23.7119, 13.2072,  
5.1975

 25.0196, 15.0180,  
8.1136

 26.8529, 17.6292,  
11.9788

 29.2605, 21.1194,  
16.8662

■ 32.2854, 25.5578,  
22.8419

■ 35.9663, 31.0067,  
29.9661

■ 40.3389, 37.5231,  
38.2948

■ 45.4363, 45.1598,  
47.8803

# Harmonies

## Analogous

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



25.6287, 11.5312, 10.0415



22.4028, 11.5312, 1.8556



16.1862, 11.5312, 0.0000

# Triad

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



22.4028, 11.5312, 1.8556



3.7947, 11.5312, 3.4964



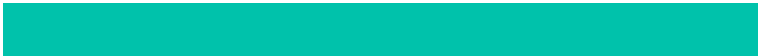
11.9314, 11.5312, 75.4759

# Complementary

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



22.4028, 11.5312, 1.8556



26.6463, 41.5252, 45.1574

# 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.



7.0007, 11.5312, 66.6604



22.4028, 11.5312, 1.8556



3.3363, 11.5312, 15.4576

# Square

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



22.4028, 11.5312, 1.8556



5.8567, 11.5312, 0.2985



4.2794, 11.5312, 39.9881



18.4005, 11.5312, 58.7667



# Rectangle

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



22.4028, 11.5312, 1.8556



11.9263, 11.5312, 0.0000



4.2794, 11.5312, 39.9881



10.0475, 11.5312, 75.4799

# Sweetspot

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



22.4030, 11.5319, 1.8558



64.8030, 55.6430, 53.6014



25.9158, 12.2358, 52.0344



13.5360, 11.2136, 10.4751



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.



22.4030, 11.5319, 1.8558



40.5410, 20.8727, 3.1128



24.5114, 15.9958, 1.7967



10.1206, 10.0969, 10.7258



14.7452, 7.5878, 1.3044



0.6535, 0.3344, 0.1428



# Inverse Universe

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



22.4030, 11.5319, 1.8558



40.5410, 20.8727, 3.1128



16.8061, 18.0315, 53.6332



10.1206, 10.0969, 10.7258



14.7452, 7.5878, 1.3044



0.6535, 0.3344, 0.1428



# Previews

## White Background



This preview shows how the XYZ color 22.4028, 11.5312, 1.8556 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 22.4028, 11.5312, 1.8556**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.4028, 11.5312, 1.8556.



This preview shows how white text looks on a background with the XYZ color 22.4028, 11.5312,



# 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

22.4028, 11.5312, 1.8556

### Protanopia

11.0574, 12.1398, 3.7679

### Deuteranopia

12.2265, 12.1138, 1.6938



## Tritanopia

22.2086, 11.7701, 1.1013

# Trichromacy



## Original Color

22.4028, 11.5312, 1.8556

## Protanomaly

12.8266, 9.1362, 2.6008

## Deuteranomaly

14.0022, 9.5350, 1.3322

## Tritanomaly

22.1558, 11.5943, 1.2999

# Monochromacy



## Original Color

22.4028, 11.5312, 1.8556

## Achromatopsia

4.4355, 4.6665, 5.0818

## Achromatomaly

7.5453, 4.9075, 3.2389

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.4028, 11.5312, 1.8556 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(194, 0, 23)` looks like.

```
.text, #text, p{  
    color:rgb(194, 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(194, 0, 23) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(194, 0, 23) }
```

## Border

The CSS property to change the border of an element to XYZ 22.4028, 11.5312, 1.8556 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(194, 0, 23) }
```



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

```
.border{ border-color:rgb(194, 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(194, 0, 23) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(194, 0, 23); -webkit-box-  
shadow:4px 4px 4px 4px rgb(194, 0, 23);  
box-shadow:4px 4px 4px 4px rgb(194, 0, 23)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 22.4028, 11.5312, 1.8556 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(194, 0, 23) }
```

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

```
.background{ background-color: rgb(194, 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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