

# Converting Colors

XYZ(22.8999, 11.8003, 1.3005)

Have a look what the booklet for  
XYZ(22.8999, 11.8003, 1.3005)  
contains.

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# Color

**XYZ(22.8088, 11.7533,  
1.2962)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C40008
RGB	196, 0, 8
RGB Percent	77%, 0%, 3%
CMY	0.2314, 0.9998, 0.9686
CMYK	0.00, 1.00, 0.96, 0.23
HSL	358°, 100%, 38%
HSV	358°, 100%, 77%
XYZ	22.8088, 11.7533, 1.2962
YIQ	59.5160, 114.2480, 44.0400

# Conversions

## Conversions Part 2

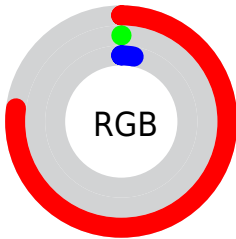
Format	Color
<b>R<sub>YB</sub></b>	196, 0, 8
Decimal	12845064
CIE Lab	40.82, 65.79, 52.30
CIE LCh	41, 84.048, 38.483
Yxy	11.7533, 0.6361, 0.3278
Android (android.graphics.Color)	4291035144 (0xFFC40008)
YUV	59.5160, -25.3974, 119.6965
Hunter-Lab	34.2831, 58.7620, 21.7565

# Details

The XYZ color **22.8088, 11.7533, 1.2962** 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 **28.8214, 43.1123, 54.4004**, and the grayscale version is **4.2537, 4.4752, 4.8735**.

A 20% lighter version of the original color is **45.0718, 27.7419, 6.8501**, and **9.5157, 4.9055, 0.4453** is the 20% darker color. If you saturate the color by 10%, you get **22.8084, 11.7531, 1.2951**, and if you desaturate by 10%, it is **23.2042, 12.3016, 2.1766**.

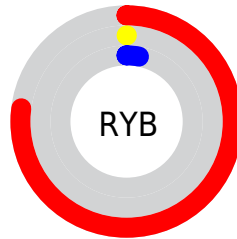
# Distribution



Red (77%)

Green (0%)

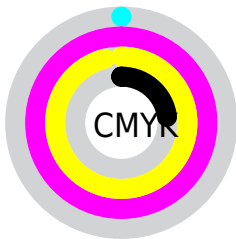
Blue (3%)



Red (77%)

Yellow (0%)

Blue (3%)

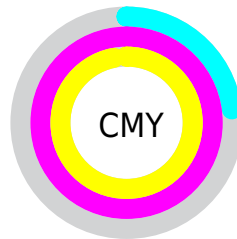


Cyan (0%)

Magenta (100%)

Yellow (96%)

Black (23%)



Cyan (23%)

Magenta (100%)


Yellow (97%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 22.8088, 11.7533, 1.2962 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 22.8088, 11.7533, 1.2962 by changing the saturation by 10% instead.





 22.8088, 11.7533,  
1.2962


 22.8088, 11.7533,  
1.2962


 259.2951,  
202.7652, 110.2594


 14.5723, 6.5759,  
0.0587


 47.5482, 29.0450,  
7.0077


 8.6041, 3.1983,  
0.0000


 64.7817, 41.9281,  
12.5726


 4.5389, 1.2361,  
0.0000

 85.7450, 58.1486,  
20.5018

 2.0113, 0.0909,  
0.0000

 110.8035, 78.0908,  
31.2137


 0.6403, 0.0000,  
0.0000


 140.3223,  
102.1392, 45.1268


 0.0000, 0.0000,  
0.0000


 174.6670,


130.6781, 62.6598


 214.2028,  
164.0920, 84.2312


 22.8088, 11.7533,  
1.2962


 22.8088, 11.7533,  
1.2962


 22.8084, 11.7531,  
1.2951

 23.2042, 12.3016,  
2.1766

 23.9836, 13.3966,  
3.8662

 25.2577, 15.2219,  
6.5191

 27.0901, 17.8749,  
10.2497

 29.5353, 21.4380,  
15.1566

■ 32.6411, 25.9837,  
21.3272

■ 36.4505, 31.5774,  
28.8406

■ 41.0031, 38.2785,  
37.7694

■ 46.3353, 46.1422,  
48.1812

# Harmonies

## Analogous

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



26.8436, 11.7533, 8.5278



22.8088, 11.7533, 1.2962



15.9427, 11.7533, 0.0000

# Triad

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



22.8088, 11.7533, 1.2962



3.5242, 11.7533, 4.1193



12.9549, 11.7533, 80.8349

# Complementary

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



22.8088, 11.7533, 1.2962



28.8214, 43.1123, 54.4004

# 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.



7.4616, 11.7533, 74.4008



22.8088, 11.7533, 1.2962



3.2203, 11.7533, 18.2966

# Square

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



22.8088, 11.7533, 1.2962



5.4340, 11.7533, 0.3208



4.3703, 11.7533, 46.1824



19.9648, 11.7533, 59.7718



# Rectangle

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



22.8088, 11.7533, 1.2962



11.4785, 11.7533, 0.0000



4.3703, 11.7533, 46.1824



10.8694, 11.7533, 82.0324

# Sweetspot

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



22.8090, 11.7541, 1.2964



65.6631, 56.6614, 51.5200



30.2628, 14.4507, 53.4184



13.3936, 11.1567, 9.7256



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.



22.8090, 11.7541, 1.2964



41.2968, 21.2827, 2.2289



26.2729, 18.7516, 2.2358



10.0894, 10.0844, 10.5614



14.6633, 7.5551, 0.8729



0.6394, 0.3288, 0.0684



# Inverse Universe

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



22.8090, 11.7541, 1.2964



41.2968, 21.2827, 2.2289



15.3075, 14.6724, 54.2494



10.0894, 10.0844, 10.5614



14.6633, 7.5551, 0.8729



0.6394, 0.3288, 0.0684



# Previews

## White Background



This preview shows how the XYZ color 22.8088, 11.7533, 1.2962 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 22.8088, 11.7533, 1.2962**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.8088, 11.7533, 1.2962.



This preview shows how white text looks on a background with the XYZ color 22.8088, 11.7533,



# 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

22.8088, 11.7533, 1.2962

### Protanopia

11.2152, 12.3823, 2.8358

### Deuteranopia

12.4602, 12.3654, 1.7300



## Tritanopia

22.7220, 12.0347, 1.1254

# Trichromacy



## Original Color

22.8088, 11.7533, 1.2962

## Protanomaly

13.0591, 9.3563, 1.7795

## Deuteranomaly

14.3948, 9.8176, 1.2224

## Tritanomaly

22.6418, 11.8480, 1.1797

# Monochromacy



## Original Color

22.8088, 11.7533, 1.2962

## Achromatopsia

4.2949, 4.5186, 4.9208

## Achromatomaly

7.4000, 4.7975, 2.6338

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.8088, 11.7533, 1.2962 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(196, 0, 8)` looks like.

```
.text, #text, p{  
    color:rgb(196, 0, 8)  
}
```

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(196, 0, 8) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(196, 0, 8) }
```

## Border

The CSS property to change the border of an element to XYZ 22.8088, 11.7533, 1.2962 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(196, 0, 8) }
```



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

```
.border{ border-color:rgb(196, 0, 8) }
```

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

Here you see how a box with a 4 pixel rgb(196, 0, 8) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(196, 0, 8); -webkit-box-shadow:4px  
4px 4px 4px rgb(196, 0, 8); box-shadow:4px  
4px 4px 4px rgb(196, 0, 8) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.8088, 11.7533, 1.2962 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(196, 0, 8) }
```

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

```
.background{ background-color: rgb(196, 0,  
8) }
```

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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