

Converting Colors

XYZ(23.0769, 12.2341, 1.1451)

Have a look what the booklet for
XYZ(23.0769, 12.2341, 1.1451)
contains.

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Color

**XYZ(22.9978, 12.2015,
1.1430)**

Conversions

Conversions Part 1

Format	Color
Hex	C41300
RGB	196, 19, 0
RGB Percent	77%, 7%, 0%
CMY	0.2314, 0.9254, 1.0000
CMYK	0.00, 0.90, 1.00, 0.23
HSL	6°, 100%, 38%
HSV	6°, 100%, 77%
XYZ	22.9978, 12.2015, 1.1430
YIQ	69.7570, 111.5910, 31.6150

Conversions

Conversions Part 2

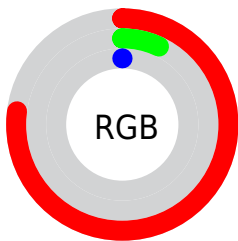
Format	Color
RYB	196, 21, 0
Decimal	12849920
CIELab	41.53, 63.57, 55.41
CIElCh	42, 84.329, 41.073
Yxy	12.2015, 0.6328, 0.3357
Android (android.graphics.Color)	4291040000 (0xFFC41300)
YUV	69.7570, -34.3902, 110.7151
Hunter-Lab	34.9306, 56.3930, 22.5114

Details

The XYZ color **22.9978, 12.2015, 1.1430** 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 **25.6807, 35.4195, 57.7072**, and the grayscale version is **5.8256, 6.1290, 6.6745**.

A 20% lighter version of the original color is **45.4322, 28.6527, 6.3848**, and **9.5157, 4.9055, 0.4453** is the 20% darker color. If you saturate the color by 10%, you get **22.9980, 12.2023, 1.1431**, and if you desaturate by 10%, it is **23.5405, 13.0907, 1.9294**.

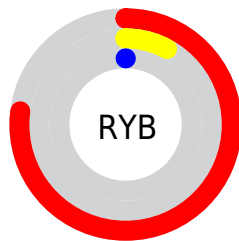
Distribution



Red (77%)

Green (7%)

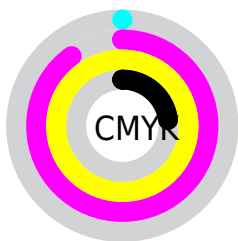
Blue (0%)



Red (77%)

Yellow (8%)

Blue (0%)

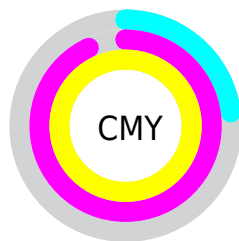


Cyan (0%)

Magenta (90%)

Yellow (100%)

Black (23%)



Cyan (23%)


Magenta (93%)


Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the XYZ color 22.9978, 12.2015, 1.1430 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 22.9978, 12.2015, 1.1430 by changing the saturation by 10% instead.


 22.9978, 12.2015,
1.1430

 22.9978, 12.2015,
1.1430


 260.2492,
205.7347, 107.1999


 14.7126, 6.8811,
0.0000


 47.8564, 29.8616,
6.5273

 8.7029, 3.3878,
0.0000


 65.1605, 42.9700,
11.8603


 4.6035, 1.3374,
0.0000

 86.2015, 59.4432,
19.5121

 2.0489, 0.1699,
0.0000

 111.3450, 79.6656,
29.9010


 0.6612, 0.0000,
0.0000


 140.9561,
104.0215, 43.4458


 0.0000, 0.0000,
0.0000


 175.4003,


132.8954, 60.5648


 215.0429,
166.6717, 81.6767


 22.9978, 12.2015,
1.1430


 22.9978, 12.2015,
1.1430


 22.9980, 12.2023,
1.1431

 23.5405, 13.0907,
1.9294

 24.4731, 14.5611,
3.4576

 25.8740, 16.6994,
5.9702

 27.7949, 19.5727,
9.5962

 30.2807, 23.2402,
14.4452

■ 33.3713, 27.7547,
20.6136

■ 37.1031, 33.1648,
28.1882

■ 41.5094, 39.5151,
37.2483

■ 46.6215, 46.8474,
47.8673

Harmonies

Analogous

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



27.5132, 12.2015, 7.7827



22.9978, 12.2015, 1.1430



15.8735, 12.2015, 0.0000

Triad

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



22.9978, 12.2015, 1.1430



3.6199, 12.2015, 5.0471



14.0209, 12.2015, 81.9931

Complementary

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



22.9978, 12.2015, 1.1430



25.6807, 35.4195, 57.7072

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.



8.1674, 12.2015, 78.0175



22.9978, 12.2015, 1.1430



3.4303, 12.2015, 20.9129

Square

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



22.9978, 12.2015, 1.1430



5.4315, 12.2015, 0.5619



4.7693, 12.2015, 50.2953



21.2361, 12.2015, 58.6955

Rectangle

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



22.9978, 12.2015, 1.1430



11.3771, 12.2015, 0.0000



4.7693, 12.2015, 50.2953



11.8201, 12.2015, 84.1134

Sweetspot

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



22.9981, 12.2023, 1.1432



66.8695, 59.5810, 50.3591



30.9690, 15.0174, 44.2682



13.6671, 11.8181, 9.4639



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.



22.9981, 12.2023, 1.1432



41.5824, 21.9447, 2.0441



28.8197, 23.8456, 3.0837



10.1501, 10.2317, 10.5018



14.8068, 7.8994, 0.7443



0.6669, 0.3957, 0.0412

Inverse Universe

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



25.6807, 35.4195, 57.7072



46.4158, 63.9515, 104.5053



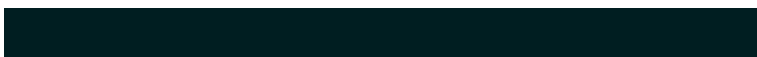
12.9559, 9.9699, 53.4656



10.2823, 11.2559, 12.9155



16.5361, 22.8288, 37.0915



0.7392, 1.0358, 1.6108

Previews

White Background



This preview shows how the XYZ color 22.9978, 12.2015, 1.1430 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 22.9978, 12.2015, 1.1430

Background



This preview shows how black text looks on a background with the XYZ color 22.9978, 12.2015, 1.1430.



This preview shows how white text looks on a background with the XYZ color 22.9978, 12.2015,

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

22.9978, 12.2015, 1.1430

Protanopia

11.4147, 12.6293, 2.7558

Deuteranopia

12.6964, 12.6200, 1.7667



Tritanopia

23.0471, 12.2212, 1.4027

Trichromacy



Original Color

22.9978, 12.2015, 1.1430

Protanomaly

13.6745, 10.3835, 1.7737

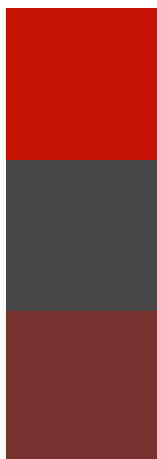
Deuteranomaly

14.7697, 10.5936, 1.2663

Tritanomaly

23.0307, 12.2147, 1.3161

Monochromacy



Original Color

22.9978, 12.2015, 1.1430

Achromatopsia

5.8214, 6.1246, 6.6697

Achromatomaly

8.8599, 6.2701, 3.2259

CSS Examples

Text

The CSS property to change the color of the text to XYZ 22.9978, 12.2015, 1.1430 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, 19, 0)` looks like.

```
.text, #text, p{  
    color:rgb(196, 19, 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(196, 19, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(196, 19, 0) }
```

Border

The CSS property to change the border of an element to XYZ 22.9978, 12.2015, 1.1430 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, 19, 0) }
```


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

```
.border{ border-color:rgb(196, 19, 0) }
```

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

Here you see how a box with a 4 pixel rgb(196, 19, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(196, 19, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(196, 19, 0);  
box-shadow:4px 4px 4px 4px rgb(196, 19, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 22.9978, 12.2015, 1.1430 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(196, 19, 0) }
```

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

```
.background{ background-color: rgb(196, 19,  
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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