

Converting Colors

XYZ(23.0288, 10.5340, 4.0089)

Have a look what the booklet for
XYZ(23.0288, 10.5340, 4.0089)
contains.

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Color

**XYZ(23.8862, 12.2448,
4.2365)**

Conversions

Conversions Part 1

Format	Color
Hex	C60033
RGB	198, 0, 51
RGB Percent	78%, 0%, 20%
CMY	0.2235, 0.9998, 0.8000
CMYK	0.00, 1.00, 0.74, 0.22
HSL	345°, 100%, 39%
HSV	345°, 100%, 78%
XYZ	23.8862, 12.2448, 4.2365
YIQ	65.0160, 101.6370, 57.8370

Conversions

Conversions Part 2

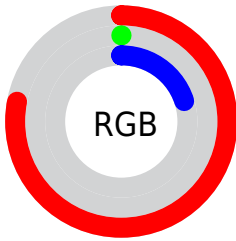
Format	Color
R_{YB}	198, 0, 51
Decimal	12976179
CIE Lab	41.60, 67.24, 31.54
CIE LCh	42, 74.273, 25.131
Yxy	12.2448, 0.5917, 0.3033
Android (android.graphics.Color)	4291166259 (0xFFC60033)
YUV	65.0160, -6.9099, 116.6270
Hunter-Lab	34.9926, 60.6085, 17.3166

Details

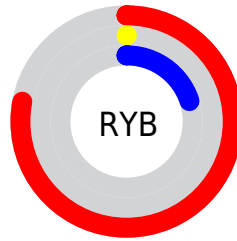
The XYZ color **23.8862, 12.2448, 4.2365** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **25.4641, 42.4959, 34.4810**, and the grayscale version is **5.0297, 5.2916, 5.7626**.

A 20% lighter version of the original color is **46.6462, 28.6201, 14.3750**, and **10.0355, 5.1684, 0.6984** is the 20% darker color. If you saturate the color by 10%, you get **23.8853, 12.2444, 4.2329**, and if you desaturate by 10%, it is **24.5105, 12.8903, 6.3047**.

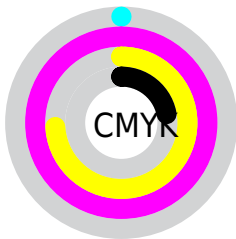
Distribution



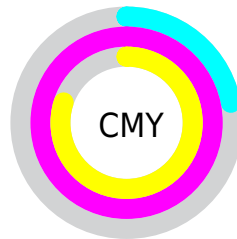
- Red (78%)
- Green (0%)
- Blue (20%)



- Red (78%)
- Yellow (0%)
- Blue (20%)



- Cyan (0%)
- Magenta (100%)
- Yellow (74%)
- Black (22%)





- Cyan (22%)
- Magenta (100%)
- Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 23.8862, 12.2448, 4.2365 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 23.8862, 12.2448, 4.2365 by changing the saturation by 10% instead.


 23.8862, 12.2448,
4.2365

 23.8862, 12.2448,
4.2365


264.6958,
206.0193, 150.8189


 15.3735, 6.9106,
1.7560


 49.3005, 29.9402,
14.5516


 9.1700, 3.4063,
0.3987


 66.9327, 43.0702,
23.2233

 4.9102, 1.3473,
0.0000

 88.3356, 59.5676,
34.7958

 2.2289, 0.1774,
0.0000

 113.8743, 79.8167,
49.6876

 0.7579, 0.0000,
0.0000

 143.9144,
104.2021, 68.3172

 0.0000, 0.0000,
0.0000

 178.8211,

133.1081, 91.1033

218.9598,
166.9190, 118.4643

■ 23.8862, 12.2448,
4.2365

■ 23.8862, 12.2448,
4.2365

■ 23.8853, 12.2444,
4.2329

■ 24.5105, 12.8903,
6.3047

■ 25.4983, 14.0844,
9.0430

■ 26.9458, 16.0074,
12.5221

■ 28.9062, 18.7542,
16.7947

■ 31.4250, 22.4055,
21.9085

■ 34.5426, 27.0320,
27.9069

■ 38.2954, 32.6976,
34.8304

■ 42.7169, 39.4606,
42.7167

■ 47.8382, 47.3750,
51.6015

Harmonies

Analogous

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



25.4553, 12.2448, 16.0357



23.8862, 12.2448, 4.2365



18.6888, 12.2448, 0.7544

Triad

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



23.8862, 12.2448, 4.2365



5.0001, 12.2448, 2.5011



10.7742, 12.2448, 70.8625

Complementary

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



23.8862, 12.2448, 4.2365



25.4641, 42.4959, 34.4810

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.



6.6302, 12.2448, 56.0134



23.8862, 12.2448, 4.2365



4.0252, 12.2448, 10.9515

Square

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



23.8862, 12.2448, 4.2365



7.7422, 12.2448, 0.3137



4.5122, 12.2448, 30.4982



16.6615, 12.2448, 62.8867

Rectangle

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



23.8862, 12.2448, 4.2365



14.5294, 12.2448, 0.0000



4.5122, 12.2448, 30.4982



9.1587, 12.2448, 68.1755

Sweetspot

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



23.8865, 12.2456, 4.2367



67.4754, 57.3862, 61.0630



21.9076, 10.1170, 54.2237



13.8085, 11.3226, 11.9104



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.



23.8865, 12.2456, 4.2367



42.2129, 21.6491, 7.0530



24.2748, 13.9779, 1.4198



10.7441, 10.6810, 11.6355



15.5634, 7.9749, 2.9106



0.7675, 0.3898, 0.2987

Inverse Universe

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



23.8865, 12.2456, 4.2367



42.2129, 21.6491, 7.0530



21.3907, 26.4720, 57.4078



10.7441, 10.6810, 11.6355



15.5634, 7.9749, 2.9106



0.7675, 0.3898, 0.2987

Previews

White Background



This preview shows how the XYZ color 23.8862, 12.2448, 4.2365 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 23.8862, 12.2448, 4.2365

Background



This preview shows how black text looks on a background with the XYZ color 23.8862, 12.2448, 4.2365.



This preview shows how white text looks on a background with the XYZ color 23.8862, 12.2448,

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

23.8862, 12.2448, 4.2365

Protanopia

12.0811, 12.8383, 8.8625

Deuteranopia

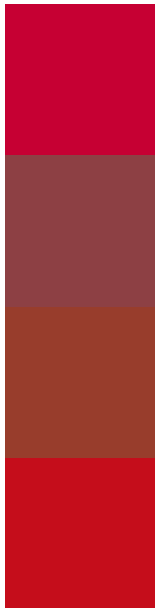
13.0233, 12.8789, 3.8070



Tritanopia

23.3734, 12.4384, 1.5844

Trichromacy



Original Color

23.8862, 12.2448, 4.2365

Protanomaly

13.8613, 9.7469, 6.6196

Deuteranomaly

15.0723, 10.1947, 3.5563

Tritanomaly

23.3677, 12.2373, 2.1673

Monochromacy



Original Color

23.8862, 12.2448, 4.2365

Achromatopsia

5.0244, 5.2861, 5.7565

Achromatomaly

8.4186, 5.4228, 4.8780

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.8862, 12.2448, 4.2365 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(198, 0, 51)` looks like.

```
.text, #text, p{  
    color:rgb(198, 0, 51)  
}
```

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(198, 0, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(198, 0, 51) }
```

Border

The CSS property to change the border of an element to XYZ 23.8862, 12.2448, 4.2365 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(198, 0, 51) }
```


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

```
.border{ border-color:rgb(198, 0, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(198, 0, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(198, 0, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(198, 0, 51);  
box-shadow:4px 4px 4px 4px rgb(198, 0, 51)  
}
```

Background

The CSS property to change the background color of an element to XYZ 23.8862, 12.2448, 4.2365 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(198, 0, 51) }
```

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

```
.background{ background-color: rgb(198, 0,  
51) }
```

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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