

Converting Colors

XYZ(12.3059, 23.8802, 3.9608)

Have a look what the booklet for
XYZ(12.3059, 23.8802, 3.9608)
contains.

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Color

**XYZ(12.3952, 24.0381,
3.9865)**

Conversions

Conversions Part 1

Format	Color
Hex	1D9C00
RGB	29, 156, 0
RGB Percent	11%, 61%, 0%
CMY	0.8863, 0.3882, 1.0000
CMYK	0.81, 0.00, 1.00, 0.39
HSL	109°, 100%, 31%
HSV	109°, 100%, 61%
XYZ	12.3952, 24.0381, 3.9865
YIQ	100.2430, -25.6160, -75.4400

Conversions

Conversions Part 2

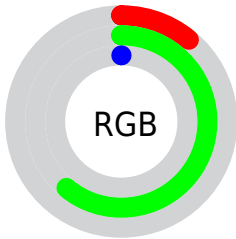
Format	Color
RYB	0, 156, 127
Decimal	1940480
CIELab	56.13, -57.33, 57.94
CIElCh	56, 81.513, 134.695
Yxy	24.0381, 0.3067, 0.5947
Android (android.graphics.Color)	4280130560 (0xFF1D9C00)
YUV	100.2430, -49.4198, -62.4801
Hunter-Lab	49.0287, -40.6726, 29.4992

Details

The XYZ color **12.3952, 24.0381, 3.9865** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **14.7553, 6.9136, 32.0104**, and the grayscale version is **12.3034, 12.9442, 14.0962**.

A 20% lighter version of the original color is **29.9363, 50.2512, 14.0829**, and **4.8502, 9.7005, 1.6167** is the 20% darker color. If you saturate the color by 10%, you get **12.3954, 24.0389, 3.9867**, and if you desaturate by 10%, it is **12.9223, 24.3001, 4.4845**.

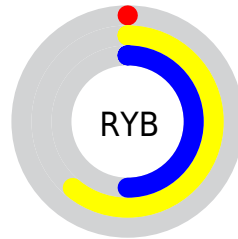
Distribution



Red (11%)

Green (61%)

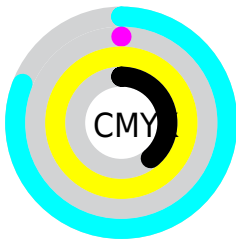
Blue (0%)



Red (0%)

Yellow (61%)

Blue (50%)

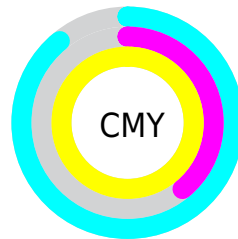


Cyan (81%)

Magenta (0%)

Yellow (100%)

Black (39%)



Cyan (89%)


Magenta (39%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.3952, 24.0381, 3.9865 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 12.3952, 24.0381, 3.9865 by changing the saturation by 10% instead.


 12.3952, 24.0381,
3.9865


 12.3952, 24.0381,
3.9865


200.7213,
273.0130, 148.0752


 7.0875, 15.3619,
1.6179


 29.8235, 50.0924,
13.9786


 3.5637, 9.0738,
0.3036


 42.6749, 68.2392,
22.4392


 1.4584, 4.7893,
0.0000

 58.7715, 90.3117,
33.7677

 0.2973, 2.1242,
0.0000

 78.4788, 116.6943,
48.3824


 0.0000, 0.6782,
0.0000


 102.1620,
147.7713, 66.7019


 0.0000, 0.0000,
0.0000


 130.1866,


183.9272, 89.1449


 162.9179,
225.5463, 116.1298


 12.3952, 24.0381,
3.9865


 12.3952, 24.0381,
3.9865


 12.3954, 24.0389,
3.9867

 12.9223, 24.3001,
4.4845

 13.6822, 24.6734,
5.3524

 14.7202, 25.1786,
6.7537

 16.0618, 25.8273,
8.7557

 17.7291, 26.6296,
11.4159

■ 19.7422, 27.5950,
14.7849

■ 22.1197, 28.7318,
18.9085

■ 24.8786, 30.0480,
23.8285

■ 28.0349, 31.5510,
29.5839

Harmonies

Analogous

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



18.5850, 24.0381, 1.2828



12.3952, 24.0381, 3.9865



9.5276, 24.0381, 14.8030

Triad

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



12.3952, 24.0381, 3.9865



18.4246, 24.0381, 113.8180



45.0125, 24.0381, 15.1676

Complementary

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



12.3952, 24.0381, 3.9865



14.7553, 6.9136, 32.0104

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.



44.9348, 24.0381, 42.2447



12.3952, 24.0381, 3.9865



27.7164, 24.0381, 114.1959

Square

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



12.3952, 24.0381, 3.9865



12.3055, 24.0381, 81.6271



37.9617, 24.0381, 82.4561



38.1516, 24.0381, 4.0979

Rectangle

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



12.3952, 24.0381, 3.9865



9.2091, 24.0381, 30.6166



37.9617, 24.0381, 82.4561



45.8467, 24.0381, 22.1823

Sweetspot

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



12.3958, 24.0391, 3.9870



39.8952, 52.0500, 33.8512



21.0198, 21.6860, 3.0783



8.3939, 11.2694, 6.7765



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



12.3958, 24.0391, 3.9870



22.3890, 43.5962, 7.2349



12.3983, 23.9816, 6.6447



6.6601, 7.4574, 7.0741



10.2324, 19.8117, 3.2847



0.2107, 0.3685, 0.0600

Inverse Universe

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



14.7553, 6.9136, 32.0104



26.6432, 12.4760, 58.1306



16.4823, 8.1770, 15.2357



6.7832, 6.6922, 8.3409



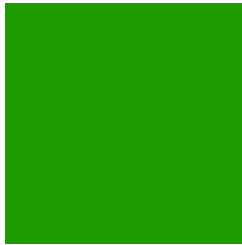
12.1800, 5.7080, 26.3670



0.2465, 0.1168, 0.4728

Previews

White Background



This preview shows how the XYZ color 12.3952, 24.0381, 3.9865 looks on a white 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

Black Background



This preview shows how the XYZ color 12.3952, 24.0381, 3.9865 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

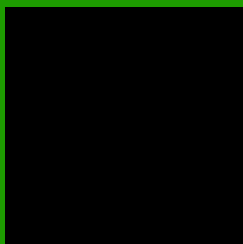
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.3952, 24.0381, 3.9865

Background



This preview shows how black text looks on a background with the XYZ color 12.3952, 24.0381, 3.9865.



This preview shows how white text looks on a background with the XYZ color 12.3952, 24.0381,

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

12.3952, 24.0381, 3.9865

Protanopia

21.2876, 23.6295, 3.4390

Deuteranopia

24.0266, 23.6191, 4.8060



Tritanopia

18.7370, 23.9872, 35.5407

Trichromacy



Original Color

12.3952, 24.0381, 3.9865



Protanomaly

15.7364, 22.4718, 3.5081



Deuteranomaly

16.5694, 22.0168, 4.1354



Tritanomaly

14.6232, 23.2272, 15.7692

Monochromacy



Original Color

12.3952, 24.0381, 3.9865



Achromatopsia

12.1130, 12.7438, 13.8780



Achromatomaly

10.4659, 15.2590, 7.2441

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3952, 24.0381, 3.9865 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(29, 156, 0)` looks like.

```
.text, #text, p{  
    color:rgb(29, 156, 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(29, 156, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(29, 156, 0) }
```

Border

The CSS property to change the border of an element to XYZ 12.3952, 24.0381, 3.9865 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(29, 156, 0) }
```


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

```
.border{ border-color:rgb(29, 156, 0) }
```

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

Here you see how a box with a 4 pixel rgb(29, 156, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(29, 156, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(29, 156, 0);  
box-shadow:4px 4px 4px 4px rgb(29, 156, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.3952, 24.0381, 3.9865 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(29, 156, 0) }
```

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

```
.background{ background-color: rgb(29, 156,  
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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