

Converting Colors

XYZ(12.2544, 24.4920, 4.1363)

Have a look what the booklet for
XYZ(12.2544, 24.4920, 4.1363)
contains.

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Color

**XYZ(12.2378, 24.4581,
4.1333)**

Conversions

Conversions Part 1

Format	Color
Hex	009E02
RGB	0, 158, 2
RGB Percent	0%, 62%, 1%
CMY	1.0000, 0.3804, 0.9921
CMYK	1.00, 0.00, 0.99, 0.38
HSL	121°, 100%, 31%
HSV	121°, 100%, 62%
XYZ	12.2378, 24.4581, 4.1333
YIQ	92.9740, -44.0920, -82.0120

Conversions

Conversions Part 2

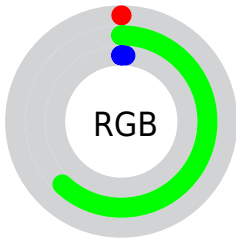
Format	Color
RYB	0, 156, 158
Decimal	40450
CIELab	56.54, -60.21, 57.86
CIELCh	57, 83.503, 136.140
Yxy	24.4581, 0.2997, 0.5990
Android (android.graphics.Color)	4278230530 (0xFF009E02)
YUV	92.9740, -44.8502, -81.5382
Hunter-Lab	49.4551, -42.3762, 29.6633

Details

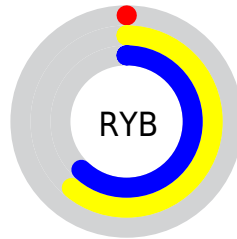
The XYZ color **12.2378, 24.4581, 4.1333** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **20.1010, 9.6694, 32.2551**, and the grayscale version is **10.5080, 11.0553, 12.0392**.

A 20% lighter version of the original color is **29.5307, 50.7852, 14.3770**, and **5.0516, 10.1032, 1.6839** is the 20% darker color. If you saturate the color by 10%, you get **12.2384, 24.4591, 4.1339**, and if you desaturate by 10%, it is **12.5437, 24.6055, 4.6440**.

Distribution



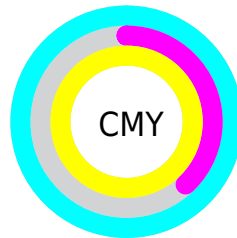
- Red (0%)
- Green (62%)
- Blue (1%)



- Red (0%)
- Yellow (61%)
- Blue (62%)



- Cyan (100%)
- Magenta (0%)
- Yellow (99%)
- Black (38%)



- Cyan (100%)
- Magenta (38%)
- Yellow (99%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2378, 24.4581, 4.1333 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 12.2378, 24.4581, 4.1333 by changing the saturation by 10% instead.

■ 12.2378, 24.4581,
4.1333

■ 12.2378, 24.4581,
4.1333

199.7112,
275.1284, 149.6957

■ 6.9792, 15.6738,
1.6988

■ 29.5406, 50.7767,
14.3160

■ 3.4953, 9.2936,
0.3599

■ 42.3155, 69.0798,
22.9013

■ 1.4208, 4.9332,
0.0000

■ 58.3265, 91.3247,
34.3739

■ 0.2710, 2.2081,
0.0000

■ 77.9390, 117.8956,
49.1524


■ 0.0000, 0.7244,
0.0000


■ 101.5184,
149.1770, 67.6552


■ 0.0000, 0.0000,
0.0000


■ 129.4300,


185.5534, 90.3011


 162.0392,
227.4090, 117.5083


 12.2378, 24.4581,
4.1333


 12.2378, 24.4581,
4.1333


 12.2384, 24.4591,
4.1339

 12.5437, 24.6055,
4.6440

 13.0882, 24.8664,
5.5643

 13.9686, 25.2888,
7.0297

 15.2272, 25.8929,
9.1070

 16.9002, 26.6963,
11.8531

■ 19.0194, 27.7143,
15.3186

■ 21.6135, 28.9607,
19.5492

■ 24.7091, 30.4482,
24.5868

■ 28.3304, 32.1886,
30.4703

Harmonies

Analogous

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



18.4442, 24.4581, 1.2290



12.2378, 24.4581, 4.1333



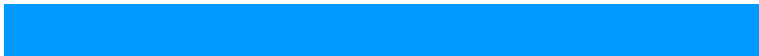
9.4479, 24.4581, 15.7884

Triad

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



12.2378, 24.4581, 4.1333



19.0647, 24.4581, 119.2341



46.1182, 24.4581, 14.3849

Complementary

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



12.2378, 24.4581, 4.1333



20.1010, 9.6694, 32.2551

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.



46.4218, 24.4581, 41.5597



12.2378, 24.4581, 4.1333



28.8179, 24.4581, 117.7476

Square

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



12.2378, 24.4581, 4.1333



12.5828, 24.4581, 86.5734



39.4270, 24.4581, 83.3205



38.6862, 24.4581, 3.7147

Rectangle

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



12.2378, 24.4581, 4.1333



9.2110, 24.4581, 32.7531



39.4270, 24.4581, 83.3205



47.1156, 24.4581, 21.3232

Sweetspot

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



12.2384, 24.4591, 4.1339



38.9478, 52.4459, 35.0100



26.3285, 31.7241, 4.7357



8.3395, 11.6119, 7.1737



76.7382, 80.7346, 87.9200



13.3056, 13.9985, 15.2444

Same Dimension

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



12.2384, 24.4591, 4.1339



22.2184, 44.4137, 7.4772



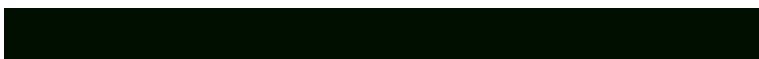
13.6387, 25.0192, 11.5078



6.5540, 7.4024, 7.0860



9.8024, 19.5889, 3.3166



0.1762, 0.3506, 0.0640

Inverse Universe

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



20.1010, 9.6694, 32.2551



36.4959, 17.5564, 58.5409



15.5125, 7.8339, 8.0919



6.9005, 6.7531, 8.3273



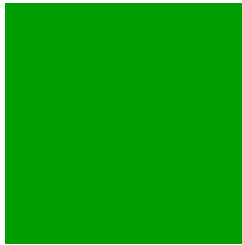
16.0994, 7.7443, 25.8381



0.2889, 0.1389, 0.4675

Previews

White Background



This preview shows how the XYZ color 12.2378, 24.4581, 4.1333 looks on a white background.

Color Contrast Check

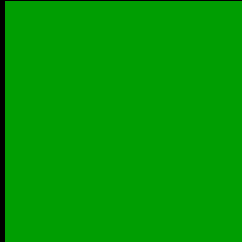
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.2378, 24.4581, 4.1333 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

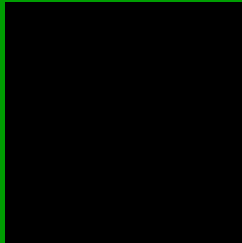
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.2378, 24.4581, 4.1333

Background



This preview shows how black text looks on a background with the XYZ color 12.2378, 24.4581, 4.1333.



This preview shows how white text looks on a background with the XYZ color 12.2378, 24.4581,

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

12.2378, 24.4581, 4.1333

Protanopia

21.6129, 24.0033, 3.4940

Deuteranopia

24.5855, 24.0999, 4.8693



Tritanopia

18.9385, 24.5289, 36.5373

Trichromacy



Original Color

12.2378, 24.4581, 4.1333



Protanomaly

14.7577, 22.1885, 3.5337



Deuteranomaly

15.5618, 21.7113, 4.1296



Tritanomaly

14.4197, 23.5848, 16.3627

Monochromacy



Original Color

12.2378, 24.4581, 4.1333



Achromatopsia

10.4043, 10.9462, 11.9204



Achromatomaly

8.9805, 13.9786, 6.4998

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2378, 24.4581, 4.1333 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(0, 158, 2)` looks like.

```
.text, #text, p{  
    color:rgb(0, 158, 2)  
}
```

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(0, 158, 2) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 158, 2) }
```

Border

The CSS property to change the border of an element to XYZ 12.2378, 24.4581, 4.1333 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(0, 158, 2) }
```


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

```
.border{ border-color:rgb(0, 158, 2) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 158, 2)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 158, 2); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 158, 2); box-shadow:4px  
4px 4px 4px rgb(0, 158, 2) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2378, 24.4581, 4.1333 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 158, 2) }
```

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

```
.background{ background-color: rgb(0, 158,  
2) }
```

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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