

# Converting Colors

XYZ(12.2459, 24.4889, 4.0814)

Have a look what the booklet for  
XYZ(12.2459, 24.4889, 4.0814)  
contains.

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# Color

**XYZ(12.2269, 24.4537,  
4.0756)**

# Conversions

## Conversions Part 1

Format	Color
Hex	009E00
RGB	0, 158, 0
RGB Percent	0%, 62%, 0%
CMY	1.0000, 0.3804, 0.9999
CMYK	1.00, 0.00, 1.00, 0.38
HSL	120°, 100%, 31%
HSV	120°, 100%, 62%
XYZ	12.2269, 24.4537, 4.0756
YIQ	92.7460, -43.4500, -82.6340

# Conversions

## Conversions Part 2

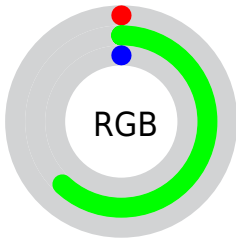
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 158, 158
Decimal	40448
CIELab	56.54, -60.27, 58.17
CIELCh	57, 83.756, 136.016
Yxy	24.4537, 0.3000, 0.6000
Android (android.graphics.Color)	4278230528 (0xFF009E00)
YUV	92.7460, -45.7238, -81.3382
Hunter-Lab	49.4507, -42.4038, 29.7289

# Details

The XYZ color **12.2269, 24.4537, 4.0756** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **20.2723, 9.7380, 33.1568**, and the grayscale version is **10.4568, 11.0014, 11.9805**.

A 20% lighter version of the original color is **29.4983, 50.7722, 14.2065**, and **5.0516, 10.1032, 1.6839** is the 20% darker color. If you saturate the color by 10%, you get **12.2274, 24.4547, 4.0760**, and if you desaturate by 10%, it is **12.5298, 24.6000, 4.5708**.

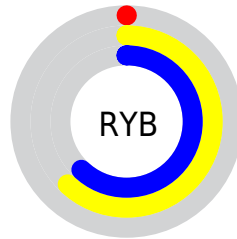
# Distribution



Red (0%)

Green (62%)

Blue (0%)



Red (0%)

Yellow (62%)

Blue (62%)

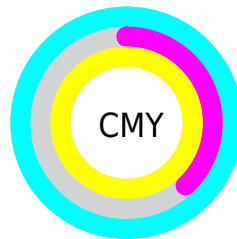


Cyan (100%)

Magenta (0%)

Yellow (100%)

Black (38%)



Cyan (100%)

Magenta (38%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2269, 24.4537, 4.0756 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 12.2269, 24.4537, 4.0756 by changing the saturation by 10% instead.





 12.2269, 24.4537,  
4.0756


 12.2269, 24.4537,  
4.0756


199.6411,  
275.1063, 149.0620


 6.9717, 15.6705,  
1.6669


 29.5210, 50.7696,  
14.1837


 3.4906, 9.2913,  
0.3379


 42.2906, 69.0710,  
22.7203


 1.4182, 4.9317,  
0.0000

 58.2956, 91.3141,  
34.1365

 0.2691, 2.2072,  
0.0000

 77.9016, 117.8830,  
48.8510


 0.0000, 0.7239,  
0.0000


 101.4737,  
149.1623, 67.2822


 0.0000, 0.0000,  
0.0000


 129.3775,


185.5364, 89.8488


 161.9781,  
227.3896, 116.9692


 12.2269, 24.4537,  
4.0756


 12.2269, 24.4537,  
4.0756


 12.2274, 24.4547,  
4.0760

 12.5298, 24.6000,  
4.5708

 13.0663, 24.8576,  
5.4484

 13.9399, 25.2773,  
6.8774

 15.1936, 25.8795,  
8.9281

 16.8640, 26.6819,  
11.6605

■ 18.9836, 27.7000,  
15.1274

■ 21.5814, 28.9479,  
19.3765

■ 24.6841, 30.4383,  
24.4516

■ 28.3166, 32.1831,  
30.3930

# Harmonies

## Analogous

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



18.4606, 24.4537, 1.2044



12.2269, 24.4537, 4.0756



9.4209, 24.4537, 15.6782

# Triad

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



12.2269, 24.4537, 4.0756



19.0147, 24.4537, 119.5721



46.2151, 24.4537, 14.4261

# Complementary

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



12.2269, 24.4537, 4.0756



20.2723, 9.7380, 33.1568

# 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.



46.4866, 24.4537, 41.7577



12.2269, 24.4537, 4.0756



28.7861, 24.4537, 118.2409

# Square

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



12.2269, 24.4537, 4.0756



12.5346, 24.4537, 86.6417



39.4389, 24.4537, 83.7300



38.7765, 24.4537, 3.7038



# Rectangle

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



12.2269, 24.4537, 4.0756



9.1762, 24.4537, 32.6348



39.4389, 24.4537, 83.7300



47.2058, 24.4537, 21.4040

# Sweetspot

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



12.2275, 24.4547, 4.0762



38.8871, 52.4217, 34.6906



26.3284, 31.7240, 4.7359



8.3251, 11.6061, 7.0981



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.



12.2275, 24.4547, 4.0762



22.2040, 44.4079, 7.4016



13.6388, 25.0193, 11.5083



6.5508, 7.4011, 7.0690



9.7925, 19.5849, 3.2643



0.1751, 0.3502, 0.0584



# Inverse Universe

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



20.2723, 9.7380, 33.1568



36.8129, 17.6832, 60.2103



15.5126, 7.8341, 8.0925



6.9042, 6.7546, 8.3465



16.2354, 7.7987, 26.5542

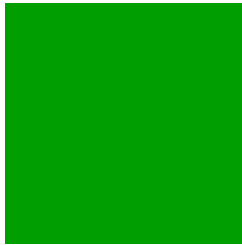


0.2903, 0.1394, 0.4748



# Previews

## White Background



This preview shows how the XYZ color 12.2269, 24.4537, 4.0756 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 12.2269, 24.4537, 4.0756 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

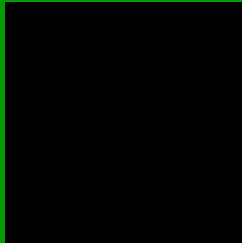
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 12.2269, 24.4537, 4.0756**

## **Background**



This preview shows how black text looks on a background with the XYZ color 12.2269, 24.4537, 4.0756.



This preview shows how white text looks on a background with the XYZ color 12.2269, 24.4537,



# 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

12.2269, 24.4537, 4.0756

### Protanopia

21.6129, 24.0033, 3.4940

### Deuteranopia

24.5855, 24.0999, 4.8693



## Tritanopia

18.9385, 24.5289, 36.5373

# Trichromacy



## Original Color

12.2269, 24.4537, 4.0756



## Protanomaly

14.7522, 22.1863, 3.5049



## Deuteranomaly

15.5618, 21.7113, 4.1296



## Tritanomaly

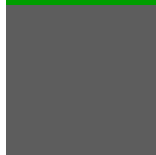
14.3704, 23.5650, 16.1030

# Monochromacy



## Original Color

12.2269, 24.4537, 4.0756



## Achromatopsia

10.4043, 10.9462, 11.9204



## Achromatomaly

8.9543, 13.9682, 6.3619

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 12.2269, 24.4537, 4.0756 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, 0)` looks like.

```
.text, #text, p{  
    color:rgb(0, 158, 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(0, 158, 0) colored shadow looks like.

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

## Border

The CSS property to change the border of an element to XYZ 12.2269, 24.4537, 4.0756 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, 0) }
```



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

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

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, 0)` colored shadow looks like.

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

# Background

The CSS property to change the background color of an element to XYZ 12.2269, 24.4537, 4.0756 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, 0) }
```

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

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