

Converting Colors

XYZ(12.2507, 24.4906, 4.1170)

Have a look what the booklet for
XYZ(12.2507, 24.4906, 4.1170)
contains.

XYZ(12.2323, 24.4559, 4.1045)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.2323, 24.4559,
4.1045)**

Conversions

Conversions Part 1

Format	Color
Hex	009E01
RGB	0, 158, 1
RGB Percent	0%, 62%, 0%
CMY	1.0000, 0.3804, 0.9960
CMYK	1.00, 0.00, 0.99, 0.38
HSL	120°, 100%, 31%
HSV	120°, 100%, 62%
XYZ	12.2323, 24.4559, 4.1045
YIQ	92.8600, -43.7710, -82.3230

Conversions

Conversions Part 2

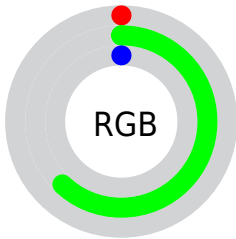
Format	Color
RYB	0, 157, 158
Decimal	40449
CIELab	56.54, -60.24, 58.01
CIELCh	57, 83.629, 136.078
Yxy	24.4559, 0.2999, 0.5995
Android (android.graphics.Color)	4278230529 (0xFF009E01)
YUV	92.8600, -45.2870, -81.4382
Hunter-Lab	49.4529, -42.3902, 29.6961

Details

The XYZ color **12.2323, 24.4559, 4.1045** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **20.1859, 9.7033, 32.7021**, and the grayscale version is **10.4823, 11.0282, 12.0097**.

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 **12.2329, 24.4569, 4.1051**, and if you desaturate by 10%, it is **12.5366, 24.6027, 4.6067**.

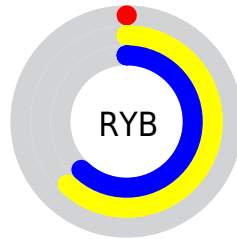
Distribution



Red (0%)

Green (62%)

Blue (0%)



Red (0%)

Yellow (62%)

Blue (62%)

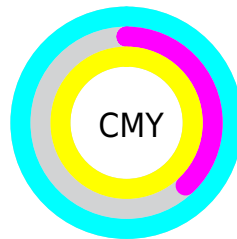


Cyan (100%)

Magenta (0%)

Yellow (99%)

Black (38%)



Cyan (100%)

Magenta (38%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2323, 24.4559, 4.1045 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 12.2323, 24.4559, 4.1045 by changing the saturation by 10% instead.

■ 12.2323, 24.4559,
4.1045

■ 12.2323, 24.4559,
4.1045

199.6758,
275.1173, 149.3799

■ 6.9754, 15.6722,
1.6828

■ 29.5307, 50.7731,
14.2501

■ 3.4929, 9.2925,
0.3489

■ 42.3029, 69.0754,
22.8110

■ 1.4195, 4.9324,
0.0000

■ 58.3109, 91.3194,
34.2556

■ 0.2700, 2.2077,
0.0000

■ 77.9201, 117.8893,
49.0021


■ 0.0000, 0.7242,
0.0000


■ 101.4959,
149.1697, 67.4693


■ 0.0000, 0.0000,
0.0000


■ 129.4035,


185.5449, 90.0756


 162.0084,
227.3993, 117.2397


 12.2323, 24.4559,
4.1045


 12.2323, 24.4559,
4.1045


 12.2329, 24.4569,
4.1051

 12.5366, 24.6027,
4.6067

 13.0770, 24.8620,
5.5057

 13.9540, 25.2829,
6.9530

 15.2101, 25.8861,
9.0170

 16.8818, 26.6890,
11.7563

■ 19.0011, 27.7070,
15.2225

■ 21.5970, 28.9541,
19.4623

■ 24.6961, 30.4430,
24.5185

■ 28.3228, 32.1856,
30.4307

Harmonies

Analogous

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



18.4523, 24.4559, 1.2167



12.2323, 24.4559, 4.1045



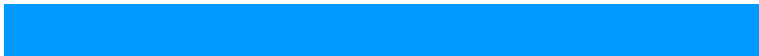
9.4344, 24.4559, 15.7335

Triad

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



12.2323, 24.4559, 4.1045



19.0398, 24.4559, 119.4030



46.1665, 24.4559, 14.4052

Complementary

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



12.2323, 24.4559, 4.1045



20.1859, 9.7033, 32.7021

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.



46.4542, 24.4559, 41.6580



12.2323, 24.4559, 4.1045



28.8022, 24.4559, 117.9934

Square

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



12.2323, 24.4559, 4.1045



12.5588, 24.4559, 86.6080



39.4331, 24.4559, 83.5242



38.7311, 24.4559, 3.7092

Rectangle

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



12.2323, 24.4559, 4.1045



9.1936, 24.4559, 32.6944



39.4331, 24.4559, 83.5242



47.1606, 24.4559, 21.3632

Sweetspot

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



12.2329, 24.4569, 4.1051



38.9175, 52.4338, 34.8507



26.3285, 31.7241, 4.7357



8.3323, 11.6090, 7.1360



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.



12.2329, 24.4569, 4.1051



22.2112, 44.4108, 7.4396



13.6387, 25.0193, 11.5078



6.5524, 7.4017, 7.0776



9.7975, 19.5869, 3.2906



0.1756, 0.3504, 0.0612

Inverse Universe

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



20.1859, 9.7033, 32.7021



36.6531, 17.6193, 59.3684



15.5125, 7.8339, 8.0919



6.9023, 6.7539, 8.3368



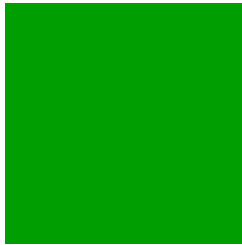
16.1668, 7.7713, 26.1931



0.2896, 0.1392, 0.4711

Previews

White Background



This preview shows how the XYZ color 12.2323, 24.4559, 4.1045 looks on a white background.

Color Contrast Check

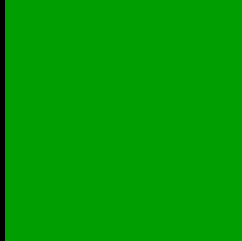
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.2323, 24.4559, 4.1045 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

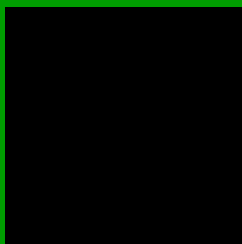
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.2323, 24.4559, 4.1045

Background



This preview shows how black text looks on a background with the XYZ color 12.2323, 24.4559, 4.1045.



This preview shows how white text looks on a background with the XYZ color 12.2323, 24.4559,

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

12.2323, 24.4559, 4.1045

Protanopia

21.6129, 24.0033, 3.4940

Deuteranopia

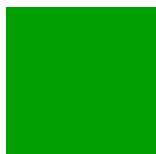
24.5855, 24.0999, 4.8693



Tritanopia

18.9385, 24.5289, 36.5373

Trichromacy



Original Color

12.2323, 24.4559, 4.1045



Protanomaly

14.7522, 22.1863, 3.5049



Deuteranomaly

15.5618, 21.7113, 4.1296



Tritanomaly

14.4197, 23.5848, 16.3627

Monochromacy



Original Color

12.2323, 24.4559, 4.1045



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 12.2323, 24.4559, 4.1045 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, 1)` looks like.

```
.text, #text, p{  
    color:rgb(0, 158, 1)  
}
```

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, 1) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 158, 1) }
```

Border

The CSS property to change the border of an element to XYZ 12.2323, 24.4559, 4.1045 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, 1) }
```


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

```
.border{ border-color:rgb(0, 158, 1) }
```

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, 1)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 158, 1); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 158, 1); box-shadow:4px  
4px 4px 4px rgb(0, 158, 1) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2323, 24.4559, 4.1045 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, 1) }
```

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

```
.background{ background-color: rgb(0, 158,  
1) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor