

Converting Colors

XYZ(12.4158, 23.4578, 8.3738)

Have a look what the booklet for
XYZ(12.4158, 23.4578, 8.3738)
contains.

XYZ(12.4251, 23.4590, 8.4306)	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(12.4251, 23.4590,
8.4306)**

Conversions

Conversions Part 1

Format	Color
Hex	009A3E
RGB	0, 154, 62
RGB Percent	0%, 60%, 24%
CMY	1.0000, 0.3961, 0.7569
CMYK	1.00, 0.00, 0.60, 0.40
HSL	144°, 100%, 30%
HSV	144°, 100%, 60%
XYZ	12.4251, 23.4590, 8.4306
YIQ	97.4660, -62.2520, -61.2600

Conversions

Conversions Part 2

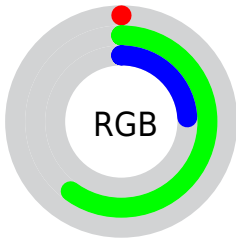
Format	Color
RYB	0, 110, 154
Decimal	39486
CIELab	55.54, -54.61, 38.10
CIELCh	56, 66.590, 145.095
Yxy	23.4590, 0.2804, 0.5294
Android (android.graphics.Color)	4278229566 (0xFF009A3E)
YUV	97.4660, -17.4847, -85.4777
Hunter-Lab	48.4345, -38.9690, 23.5840

Details

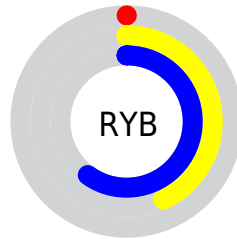
The XYZ color **12.4251, 23.4590, 8.4306** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **15.2589, 7.6431, 10.7971**, and the grayscale version is **11.5306, 12.1311, 13.2107**.

A 20% lighter version of the original color is **29.9017, 49.2893, 23.2670**, and **4.7085, 9.3293, 1.8397** is the 20% darker color. If you saturate the color by 10%, you get **12.4256, 23.4599, 8.4308**, and if you desaturate by 10%, it is **12.9036, 23.6746, 9.8850**.

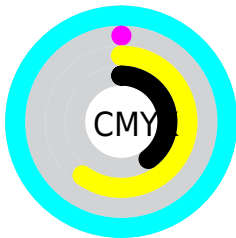
Distribution



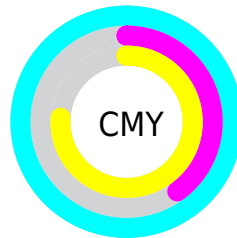
- Red (0%)
- Green (60%)
- Blue (24%)



- Red (0%)
- Yellow (43%)
- Blue (60%)



- Cyan (100%)
- Magenta (0%)
- Yellow (60%)
- Black (40%)





- Cyan (100%)
- Magenta (40%)
- Yellow (76%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.4251, 23.4590, 8.4306 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 12.4251, 23.4590, 8.4306 by changing the saturation by 10% instead.


 12.4251, 23.4590,
8.4306


 12.4251, 23.4590,
8.4306


200.9126,
270.0738, 189.1304


 7.1081, 14.9328,
4.2800


 29.8772, 49.1459,
23.3583


 3.5768, 8.7722,
1.7802


 42.7430, 67.0754,
34.9725

 1.4656, 4.5929,
0.4148

 58.8559, 88.9081,
49.9117

 0.3022, 2.0105,
0.0000

 78.5811, 115.0285,
68.5943

 0.0000, 0.6135,
0.0000

 102.2840,
145.8208, 91.4389

 0.0000, 0.0000,
0.0000

 130.3300,

181.6695, 118.8641

163.0844,
222.9591, 151.2884

■ 12.4251, 23.4590,
8.4306

■ 12.4251, 23.4590,
8.4306

■ 12.4256, 23.4599,
8.4308

■ 12.9036, 23.6746,
9.8850

■ 13.5782, 23.9855,
11.5818

■ 14.5206, 24.4292,
13.5346

■ 15.7607, 25.0206,
15.7540

■ 17.3240, 25.7729,
18.2500

■ 19.2332, 26.6975,
21.0320

■ 21.5088, 27.8049,
24.1089

■ 24.1698, 29.1046,
27.4893

■ 27.2336, 30.6055,
31.1812

Harmonies

Analogous

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



16.7149, 23.4590, 3.4103



12.4251, 23.4590, 8.4306



10.7797, 23.4590, 22.1662

Triad

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



12.4251, 23.4590, 8.4306



21.0845, 23.4590, 92.9040



38.1031, 23.4590, 11.7085

Complementary

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



12.4251, 23.4590, 8.4306



15.2589, 7.6431, 10.7971

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.



40.0072, 23.4590, 29.2462



12.4251, 23.4590, 8.4306



29.0014, 23.4590, 84.3070

Square

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



12.4251, 23.4590, 8.4306



15.0108, 23.4590, 76.7057



36.3647, 23.4590, 57.2805



31.6261, 23.4590, 4.4204

Rectangle

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



12.4251, 23.4590, 8.4306



11.0564, 23.4590, 37.9011



36.3647, 23.4590, 57.2805



39.3531, 23.4590, 16.2136

Sweetspot

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



12.4257, 23.4600, 8.4311



38.8018, 50.3767, 43.4411



16.0101, 25.4082, 4.0606



8.4002, 11.2163, 9.3239



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.



12.4257, 23.4600, 8.4311



22.4808, 42.5790, 14.8385



16.1873, 24.9646, 28.2397



6.2301, 6.9647, 7.1349



10.1399, 19.1194, 6.9571



0.1689, 0.2927, 0.1950

Inverse Universe

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



15.2589, 7.6431, 10.7971



27.6199, 13.8445, 19.0966



13.4161, 6.9060, 1.0930



6.3559, 6.2815, 7.2541



12.4493, 6.2339, 8.8908



0.2040, 0.1004, 0.2273

Previews

White Background



This preview shows how the XYZ color 12.4251, 23.4590, 8.4306 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 12.4251, 23.4590, 8.4306 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 12.4251, 23.4590, 8.4306

Background



This preview shows how black text looks on a background with the XYZ color 12.4251, 23.4590, 8.4306.



This preview shows how white text looks on a background with the XYZ color 12.4251, 23.4590,

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

12.4251, 23.4590, 8.4306

Protanopia

21.1097, 23.2539, 6.9903

Deuteranopia

23.4666, 23.0453, 9.0057



Tritanopia

17.8985, 23.3389, 35.0140

Trichromacy



Original Color

12.4251, 23.4590, 8.4306



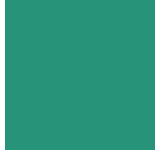
Protanomaly

14.9047, 21.7349, 7.4127



Deuteranomaly

15.4108, 20.8971, 8.5315



Tritanomaly

14.9395, 23.0163, 22.0675

Monochromacy



Original Color

12.4251, 23.4590, 8.4306



Achromatopsia

11.3621, 11.9538, 13.0177



Achromatomaly

10.0653, 14.6211, 10.6792

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4251, 23.4590, 8.4306 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, 154, 62)` looks like.

```
.text, #text, p{  
    color:rgb(0, 154, 62)  
}
```

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, 154, 62) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 154, 62) }
```

Border

The CSS property to change the border of an element to XYZ 12.4251, 23.4590, 8.4306 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, 154, 62) }
```


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

```
.border{ border-color:rgb(0, 154, 62) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 154, 62)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 154, 62); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 154, 62);  
box-shadow:4px 4px 4px 4px rgb(0, 154, 62)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.4251, 23.4590, 8.4306 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 154, 62) }
```

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

```
.background{ background-color: rgb(0, 154,  
62) }
```

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