

Converting Colors

XYZ(12.4247, 23.1958, 9.2391)

Have a look what the booklet for
XYZ(12.4247, 23.1958, 9.2391)
contains.

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Color

**XYZ(12.4346, 23.1998,
9.2915)**

Conversions

Conversions Part 1

Format	Color
Hex	009944
RGB	0, 153, 68
RGB Percent	0%, 60%, 27%
CMY	1.0000, 0.4000, 0.7333
CMYK	1.00, 0.00, 0.56, 0.40
HSL	147°, 100%, 30%
HSV	147°, 100%, 60%
XYZ	12.4346, 23.1998, 9.2915
YIQ	97.5630, -63.9030, -58.8710

Conversions

Conversions Part 2

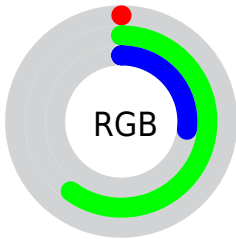
Format	Color
RYB	0, 106, 153
Decimal	39236
CIELab	55.28, -53.41, 34.84
CIELCh	55, 63.765, 146.881
Yxy	23.1998, 0.2768, 0.5164
Android (android.graphics.Color)	4278229316 (0xFF009944)
YUV	97.5630, -14.5746, -85.5628
Hunter-Lab	48.1662, -38.2092, 22.2790

Details

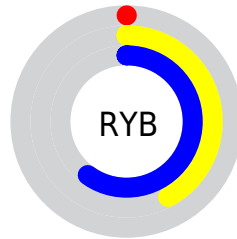
The XYZ color **12.4346, 23.1998, 9.2915** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **14.7772, 7.4286, 9.2500**, and the grayscale version is **11.5479, 12.1493, 13.2306**.

A 20% lighter version of the original color is **30.0010, 48.9352, 25.0038**, and **4.6747, 9.1614, 2.1380** is the 20% darker color. If you saturate the color by 10%, you get **12.4351, 23.2007, 9.2918**, and if you desaturate by 10%, it is **12.9157, 23.4163, 10.7685**.

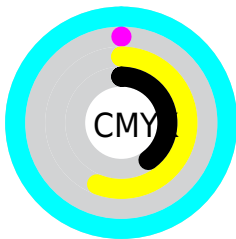
Distribution



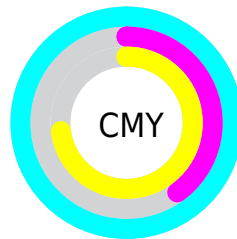
- Red (0%)
- Green (60%)
- Blue (27%)



- Red (0%)
- Yellow (42%)
- Blue (60%)



- Cyan (100%)
- Magenta (0%)
- Yellow (56%)
- Black (40%)



- Cyan (100%)
- Magenta (40%)
- Yellow (73%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.4346, 23.1998, 9.2915 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 12.4346, 23.1998, 9.2915 by changing the saturation by 10% instead.

■ 12.4346, 23.1998,
9.2915

■ 12.4346, 23.1998,
9.2915

200.9733,
268.7496, 195.8353

■ 7.1147, 14.7411,
4.8324

■ 29.8942, 48.7212,
25.0407

■ 3.5809, 8.6379,
2.0922

■ 42.7647, 66.5527,
37.1679

■ 1.4679, 4.5058,
0.6111

■ 58.8827, 88.2772,
52.6882

■ 0.3038, 1.9603,
0.0000

■ 78.6136, 114.2792,
72.0201

■ 0.0000, 0.5843,
0.0000

■ 102.3227,
144.9430, 95.5823

■ 0.0000, 0.0000,
0.0000

■ 130.3755,

180.6531, 123.7932

163.1372,
221.7938, 157.0713

■ 12.4346, 23.1998,
9.2915

■ 12.4346, 23.1998,
9.2915

■ 12.4351, 23.2007,
9.2918

■ 12.9157, 23.4163,
10.7685

■ 13.5847, 23.7244,
12.4582

■ 14.5122, 24.1612,
14.3718

■ 15.7272, 24.7413,
16.5179

■ 17.2544, 25.4774,
18.9042

■ 19.1158, 26.3806,
21.5383

■ 21.3314, 27.4611,
24.4275

■ 23.9194, 28.7282,
27.5784

■ 26.8969, 30.1906,
30.9978

Harmonies

Analogous

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



16.4073, 23.1998, 3.9159



12.4346, 23.1998, 9.2915



10.9861, 23.1998, 23.1808

Triad

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



12.4346, 23.1998, 9.2915



21.3120, 23.1998, 88.3789



36.7040, 23.1998, 11.3269

Complementary

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



12.4346, 23.1998, 9.2915



14.7772, 7.4286, 9.2500

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.



38.7976, 23.1998, 27.4613



12.4346, 23.1998, 9.2915



28.8592, 23.1998, 79.0691

Square

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



12.4346, 23.1998, 9.2915



15.3675, 23.1998, 74.5784



35.6646, 23.1998, 53.4116



30.4353, 23.1998, 4.5664

Rectangle

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



12.4346, 23.1998, 9.2915



11.3491, 23.1998, 38.4854



35.6646, 23.1998, 53.4116



37.9710, 23.1998, 15.4765

Sweetspot

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



12.4352, 23.2007, 9.2920



37.9463, 49.0536, 43.4245



15.2945, 24.7953, 3.9800



8.0279, 10.6601, 9.1389



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178

Same Dimension

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



12.4352, 23.2007, 9.2920



22.1785, 41.5121, 16.1632



16.3347, 24.7606, 29.8266



6.2405, 6.9689, 7.1900



10.2933, 19.1808, 7.7652



0.1718, 0.2939, 0.2104

Inverse Universe

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



14.7772, 7.4286, 9.2500



26.3685, 13.2652, 16.0658



13.1933, 6.7950, 0.9092



6.3452, 6.2772, 7.1979



12.2296, 6.1461, 7.7339



0.2011, 0.0992, 0.2120

Previews

White Background



This preview shows how the XYZ color 12.4346, 23.1998, 9.2915 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 12.4346, 23.1998, 9.2915 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 12.4346, 23.1998, 9.2915

Background



This preview shows how black text looks on a background with the XYZ color 12.4346, 23.1998, 9.2915.



This preview shows how white text looks on a background with the XYZ color 12.4346, 23.1998,

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

12.4346, 23.1998, 9.2915

Protanopia

20.9476, 22.9504, 7.7407

Deuteranopia

23.2281, 22.9033, 9.8531



Tritanopia

17.7531, 23.2737, 34.5669

Trichromacy



Original Color

12.4346, 23.1998, 9.2915



Protanomaly

14.8177, 21.4535, 8.2105



Deuteranomaly

15.4533, 20.9010, 9.3507



Tritanomaly

14.8082, 22.7096, 22.3418

Monochromacy



Original Color

12.4346, 23.1998, 9.2915



Achromatopsia

11.6093, 12.2139, 13.3009



Achromatomaly

10.1853, 14.6691, 11.3114

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4346, 23.1998, 9.2915 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, 153, 68)` looks like.

```
.text, #text, p{  
    color:rgb(0, 153, 68)  
}
```

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, 153, 68) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 153, 68) }
```

Border

The CSS property to change the border of an element to XYZ 12.4346, 23.1998, 9.2915 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, 153, 68) }
```


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

```
.border{ border-color:rgb(0, 153, 68) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 153, 68)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 153, 68); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 153, 68);  
box-shadow:4px 4px 4px 4px rgb(0, 153, 68)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.4346, 23.1998, 9.2915 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 153, 68) }
```

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

```
.background{ background-color: rgb(0, 153,  
68) }
```

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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