

Converting Colors

XYZ(13.0044, 24.7920, 8.0860)

Have a look what the booklet for
XYZ(13.0044, 24.7920, 8.0860)
contains.

XYZ(12.9906, 24.7592, 8.0973)	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(12.9906, 24.7592,
8.0973)**

Conversions

Conversions Part 1

Format	Color
Hex	009E3A
RGB	0, 158, 58
RGB Percent	0%, 62%, 23%
CMY	1.0000, 0.3804, 0.7725
CMYK	1.00, 0.00, 0.63, 0.38
HSL	142°, 100%, 31%
HSV	142°, 100%, 62%
XYZ	12.9906, 24.7592, 8.0973
YIQ	99.3580, -62.0680, -64.5960

Conversions

Conversions Part 2

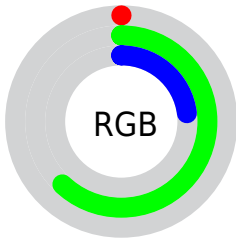
Format	Color
RYB	0, 116, 158
Decimal	40506
CIELab	56.84, -56.41, 41.48
CIELCh	57, 70.022, 143.672
Yxy	24.7592, 0.2833, 0.5400
Android (android.graphics.Color)	4278230586 (0xFF009E3A)
YUV	99.3580, -20.3895, -87.1370
Hunter-Lab	49.7586, -40.4762, 25.1827

Details

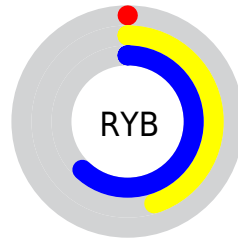
The XYZ color **12.9906, 24.7592, 8.0973** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **16.4017, 8.1897, 12.7744**, and the grayscale version is **12.0122, 12.6377, 13.7625**.

A 20% lighter version of the original color is **30.9267, 51.3211, 22.7440**, and **5.0571, 10.1053, 1.7127** is the 20% darker color. If you saturate the color by 10%, you get **12.9910, 24.7601, 8.0974**, and if you desaturate by 10%, it is **13.4812, 24.9805, 9.5805**.

Distribution



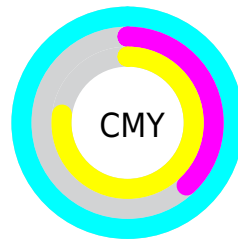
- Red (0%)
- Green (62%)
- Blue (23%)



- Red (0%)
- Yellow (45%)
- Blue (62%)



- Cyan (100%)
- Magenta (0%)
- Yellow (63%)
- Black (38%)



- Cyan (100%)
- Magenta (38%)
- Yellow (77%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9906, 24.7592, 8.0973 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 12.9906, 24.7592, 8.0973 by changing the saturation by 10% instead.

■ 12.9906, 24.7592,
8.0973

■ 12.9906, 24.7592,
8.0973

204.4962,
276.6366, 186.4562

■ 7.4990, 15.8977,
4.0686

■ 30.8884, 51.2663,
22.6983

■ 3.8252, 9.4518,
1.6631

■ 44.0252, 69.6807,
34.1077

■ 1.6037, 5.0370,
0.3352

■ 60.4413, 92.0483,
48.8143

■ 0.3948, 2.2690,
0.0000

■ 80.5018, 118.7534,
67.2369

■ 0.0000, 0.7572,
0.0000

■ 104.5723,
150.1803, 89.7938

■ 0.0000, 0.0000,
0.0000

■ 133.0179,

186.7136, 116.9036

166.2041,
228.7376, 148.9849

■ 12.9906, 24.7592,
8.0973

■ 12.9906, 24.7592,
8.0973

■ 12.9910, 24.7601,
8.0974

■ 13.4812, 24.9805,
9.5805

■ 14.1861, 25.3056,
11.3452

■ 15.1801, 25.7734,
13.4081

■ 16.4953, 26.4002,
15.7827

■ 18.1594, 27.2000,
18.4817

■ 20.1970, 28.1854,
21.5170

■ 22.6303, 29.3674,
24.8997

■ 25.4797, 30.7565,
28.6406

■ 28.7642, 32.3622,
32.7500

Harmonies

Analogous

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



17.7603, 24.7592, 3.1592



12.9906, 24.7592, 8.0973



11.0962, 24.7592, 22.2879

Triad

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



12.9906, 24.7592, 8.0973



21.8399, 24.7592, 101.2012



41.0992, 24.7592, 12.6041

Complementary

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



12.9906, 24.7592, 8.0973



16.4017, 8.1897, 12.7744

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.



42.9073, 24.7592, 32.2401



12.9906, 24.7592, 8.0973



30.4376, 24.7592, 92.9357

Square

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



12.9906, 24.7592, 8.0973



15.3835, 24.7592, 82.0494



38.6336, 24.7592, 63.4664



34.1469, 24.7592, 4.5050

Rectangle

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



12.9906, 24.7592, 8.0973



11.3098, 24.7592, 39.0836



38.6336, 24.7592, 63.4664



42.3867, 24.7592, 17.6429

Sweetspot

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



12.9912, 24.7602, 8.0979



40.8137, 53.1923, 44.8358



17.4907, 27.1680, 4.3223



8.7896, 11.7919, 9.5440



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.



12.9912, 24.7602, 8.0979



23.5022, 44.9272, 14.2378



16.7382, 26.2590, 27.8293



6.6464, 7.4393, 7.5725



10.4218, 19.8366, 6.5780



0.2059, 0.3625, 0.2204

Inverse Universe

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



16.4017, 8.1897, 12.7744



29.6850, 14.8321, 22.6753



14.2372, 7.3239, 1.3763



6.8008, 6.7132, 7.8019



13.1548, 6.5665, 10.3323



0.2550, 0.1253, 0.2888

Previews

White Background



This preview shows how the XYZ color 12.9906, 24.7592, 8.0973 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 12.9906, 24.7592, 8.0973 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

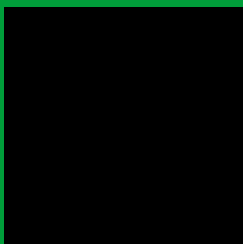
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

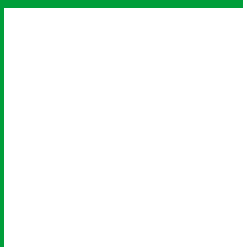
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.9906, 24.7592, 8.0973

Background



This preview shows how black text looks on a background with the XYZ color 12.9906, 24.7592, 8.0973.



This preview shows how white text looks on a background with the XYZ color 12.9906, 24.7592,

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

12.9906, 24.7592, 8.0973

Protanopia

22.1865, 24.4356, 6.7960

Deuteranopia

24.7997, 24.3213, 8.6976



Tritanopia

18.9850, 24.7746, 37.0391

Trichromacy



Original Color

12.9906, 24.7592, 8.0973



Protanomaly

15.4630, 22.6997, 7.0565



Deuteranomaly

16.2474, 22.1905, 8.2774



Tritanomaly

15.6785, 24.3376, 22.6102

Monochromacy



Original Color

12.9906, 24.7592, 8.0973



Achromatopsia

11.8596, 12.4772, 13.5877



Achromatomaly

10.3666, 15.1298, 10.7615

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9906, 24.7592, 8.0973 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, 58)` looks like.

```
.text, #text, p{  
    color:rgb(0, 158, 58)  
}
```

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, 58) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 158, 58) }
```

Border

The CSS property to change the border of an element to XYZ 12.9906, 24.7592, 8.0973 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, 58) }
```


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

```
.border{ border-color:rgb(0, 158, 58) }
```

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, 58)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 158, 58); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 158, 58);  
box-shadow:4px 4px 4px 4px rgb(0, 158, 58)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.9906, 24.7592, 8.0973 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, 58) }
```

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

```
.background{ background-color: rgb(0, 158,  
58) }
```

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