

Converting Colors

XYZ(12.5550, 23.1050, 9.7816)

Have a look what the booklet for
XYZ(12.5550, 23.1050, 9.7816)
contains.

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Color

**XYZ(12.4907, 22.9759,
9.7377)**

Conversions

Conversions Part 1

Format	Color
Hex	0A9847
RGB	10, 152, 71
RGB Percent	4%, 60%, 28%
CMY	0.9608, 0.4039, 0.7216
CMYK	0.93, 0.00, 0.53, 0.40
HSL	146°, 88%, 32%
HSV	146°, 93%, 60%
XYZ	12.4907, 22.9759, 9.7377
YIQ	100.3080, -58.6310, -55.2950

Conversions

Conversions Part 2

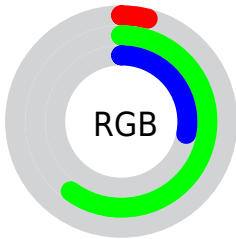
Format	Color
RYB	10, 109, 152
Decimal	694343
CIELab	55.05, -52.03, 33.06
CIElCh	55, 61.645, 147.572
Yxy	22.9759, 0.2763, 0.5083
Android (android.graphics.Color)	4278884423 (0xFF0A9847)
YUV	100.3080, -14.4488, -79.2001
Hunter-Lab	47.9332, -37.3685, 21.5084

Details

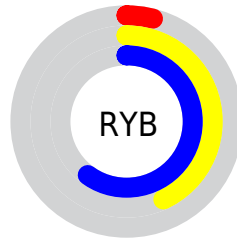
The XYZ color **12.4907, 22.9759, 9.7377** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **14.9464, 7.6482, 10.5866**, and the grayscale version is **12.2389, 12.8763, 14.0222**.

A 20% lighter version of the original color is **29.8838, 48.1300, 25.8041**, and **4.6165, 8.9855, 2.3017** is the 20% darker color. If you saturate the color by 10%, you get **12.1914, 22.8424, 8.8127**, and if you desaturate by 10%, it is **13.0705, 23.2409, 11.3233**.

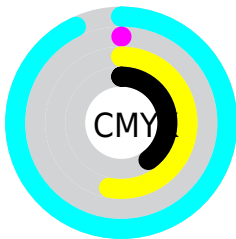
Distribution



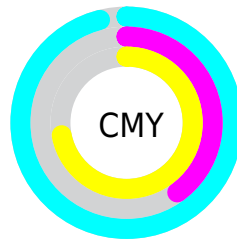
- Red (4%)
- Green (60%)
- Blue (28%)



- Red (4%)
- Yellow (43%)
- Blue (60%)



- Cyan (93%)
- Magenta (0%)
- Yellow (53%)
- Black (40%)





- Cyan (96%)
- Magenta (40%)
- Yellow (72%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.4907, 22.9759, 9.7377 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 12.4907, 22.9759, 9.7377 by changing the saturation by 10% instead.


 12.4907, 22.9759,
9.7377


 12.4907, 22.9759,
9.7377


201.3316,
267.6012, 199.2059


 7.1534, 14.5757,
5.1221


 29.9949, 48.3538,
25.9010


 3.6054, 8.5222,
2.2591


 42.8924, 66.1002,
38.2858


 1.4814, 4.4308,
0.7082

 59.0408, 87.7309,
54.0973

 0.3131, 1.9174,
0.0000

 78.8052, 113.6301,
73.7542

 0.0000, 0.5588,
0.0000

 102.5512,
144.1824, 97.6750

 0.0000, 0.0000,
0.0000

 130.6440,

179.7721, 126.2782

163.4490,
220.7835, 159.9823

■ 12.4907, 22.9759,
9.7377

■ 12.4907, 22.9759,
9.7377

■ 12.1914, 22.8424,
8.8127

■ 13.0705, 23.2409,
11.3233

■ 13.8952, 23.6268,
13.1354

■ 14.9958, 24.1500,
15.1837

■ 16.3979, 24.8235,
17.4770

■ 18.1243, 25.6589,
20.0232

■ 20.1951, 26.6665,
22.8301

■ 22.6290, 27.8557,
25.9050

■ 25.4433, 29.2353,
29.2550

■ 28.6541, 30.8134,
32.8868

Harmonies

Analogous

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



16.2848, 22.9759, 4.2516



12.4907, 22.9759, 9.7377



11.1342, 22.9759, 23.4509

Triad

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



12.4907, 22.9759, 9.7377



21.2841, 22.9759, 84.9046



35.7379, 22.9759, 11.2908

Complementary

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



12.4907, 22.9759, 9.7377



14.9464, 7.6482, 10.5866

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.



37.8414, 22.9759, 26.6509



12.4907, 22.9759, 9.7377



28.5286, 22.9759, 75.6517

Square

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



12.4907, 22.9759, 9.7377



15.5020, 22.9759, 72.3554



34.9678, 22.9759, 51.2268



29.7004, 22.9759, 4.7615

Rectangle

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



12.4907, 22.9759, 9.7377



11.5239, 22.9759, 38.2399



34.9678, 22.9759, 51.2268



36.9773, 22.9759, 15.2588

Sweetspot

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



12.4913, 22.9768, 9.7382



37.6574, 48.0495, 42.8819



15.7811, 24.7978, 4.2419



8.1810, 10.7365, 9.2621



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.



12.4913, 22.9768, 9.7382



21.4328, 40.2835, 15.1049



16.1000, 24.4203, 28.7415



6.2368, 6.9674, 7.1704



10.2368, 19.1582, 7.4678



0.1708, 0.2935, 0.2049

Inverse Universe

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



14.9464, 7.6482, 10.5866



25.7809, 12.9527, 16.4713



13.2012, 6.9501, 1.3965



6.3490, 6.2788, 7.2178



12.3054, 6.1764, 8.1334



0.2022, 0.0996, 0.2174

Previews

White Background



This preview shows how the XYZ color 12.4907, 22.9759, 9.7377 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 12.4907, 22.9759, 9.7377 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 12.4907, 22.9759, 9.7377

Background



This preview shows how black text looks on a background with the XYZ color 12.4907, 22.9759, 9.7377.



This preview shows how white text looks on a background with the XYZ color 12.4907, 22.9759,

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

12.4907, 22.9759, 9.7377

Protanopia

20.7188, 22.6225, 8.1251

Deuteranopia

23.0068, 22.5882, 10.3551



Tritanopia

17.6023, 22.9721, 34.5167

Trichromacy



Original Color

12.4907, 22.9759, 9.7377



Protanomaly

15.0696, 21.3573, 8.6383



Deuteranomaly

15.7597, 20.8392, 9.8484



Tritanomaly

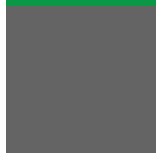
14.8718, 22.5052, 22.6289

Monochromacy



Original Color

12.4907, 22.9759, 9.7377



Achromatopsia

12.1130, 12.7438, 13.8780



Achromatomaly

10.7147, 15.1082, 11.8026

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4907, 22.9759, 9.7377 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(10, 152, 71)` looks like.

```
.text, #text, p{  
    color:rgb(10, 152, 71)  
}
```

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(10, 152, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(10, 152, 71) }
```

Border

The CSS property to change the border of an element to XYZ 12.4907, 22.9759, 9.7377 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(10, 152, 71) }
```


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

```
.border{ border-color:rgb(10, 152, 71) }
```

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

Here you see how a box with a 4 pixel `rgb(10, 152, 71)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(10, 152, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(10, 152, 71);  
box-shadow:4px 4px 4px 4px rgb(10, 152,  
71) }
```

Background

The CSS property to change the background color of an element to XYZ 12.4907, 22.9759, 9.7377 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(10, 152, 71) }
```

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

```
.background{ background-color: rgb(10, 152,  
71) }
```

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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