

Converting Colors

XYZ(12.5468, 23.2447, 9.8821)

Have a look what the booklet for
XYZ(12.5468, 23.2447, 9.8821)
contains.

XYZ(12.5609, 23.2503, 9.9566)	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(12.5609, 23.2503,
9.9566)**

Conversions

Conversions Part 1

Format	Color
Hex	009948
RGB	0, 153, 72
RGB Percent	0%, 60%, 28%
CMY	1.0000, 0.4000, 0.7176
CMYK	1.00, 0.00, 0.53, 0.40
HSL	148°, 100%, 30%
HSV	148°, 100%, 60%
XYZ	12.5609, 23.2503, 9.9566
YIQ	98.0190, -65.1870, -57.6270

Conversions

Conversions Part 2

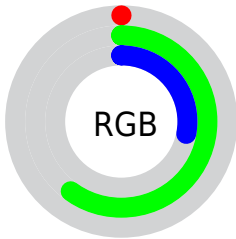
Format	Color
RYB	0, 104, 153
Decimal	39240
CIELab	55.33, -52.77, 32.88
CIELCh	55, 62.175, 148.077
Yxy	23.2503, 0.2744, 0.5080
Android (android.graphics.Color)	4278229320 (0xFF009948)
YUV	98.0190, -12.8274, -85.9627
Hunter-Lab	48.2186, -37.8834, 21.5103

Details

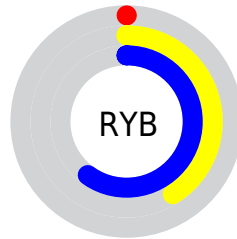
The XYZ color **12.5609, 23.2503, 9.9566** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **14.6228, 7.3668, 8.4367**, and the grayscale version is **11.6574, 12.2645, 13.3560**.

A 20% lighter version of the original color is **30.2438, 49.0323, 26.2825**, and **4.7220, 9.1803, 2.3872** is the 20% darker color. If you saturate the color by 10%, you get **12.5613, 23.2512, 9.9567**, and if you desaturate by 10%, it is **13.0454, 23.4681, 11.4515**.

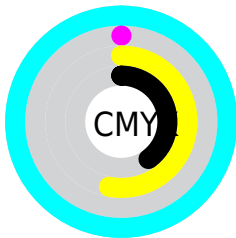
Distribution



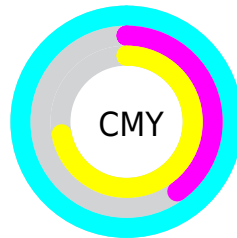
- Red (0%)
- Green (60%)
- Blue (28%)



- Red (0%)
- Yellow (41%)
- Blue (60%)



- Cyan (100%)
- Magenta (0%)
- Yellow (53%)
- Black (40%)





- Cyan (100%)
- Magenta (40%)
- Yellow (72%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.5609, 23.2503, 9.9566 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 12.5609, 23.2503, 9.9566 by changing the saturation by 10% instead.


 12.5609, 23.2503,
9.9566


 12.5609, 23.2503,
9.9566

201.7790,
269.0080, 200.8356


 7.2018, 14.7784,
5.2650


 30.1207, 48.8040,
26.3204


 3.6361, 8.6640,
2.3421


 43.0521, 66.6546,
38.8296

 1.4984, 4.5227,
0.7547

 59.2383, 88.4003,
54.7818

 0.3247, 1.9700,
0.0000

 79.0447, 114.4254,
74.5954

 0.0000, 0.5900,
0.0000

 102.8366,
145.1143, 98.6891

 0.0000, 0.0000,
0.0000

 130.9794,

180.8514, 127.4813

163.8384,
222.0212, 161.3906

■ 12.5609, 23.2503,
9.9566

■ 12.5609, 23.2503,
9.9566

■ 12.5613, 23.2512,
9.9567

■ 13.0454, 23.4681,
11.4515

■ 13.7148, 23.7765,
13.1431

■ 14.6394, 24.2121,
15.0414

■ 15.8480, 24.7896,
17.1539

■ 17.3652, 25.5217,
19.4876

■ 19.2128, 26.4194,
22.0488

■ 21.4106, 27.4928,
24.8441

■ 23.9767, 28.7511,
27.8792

■ 26.9279, 30.2030,
31.1600

Harmonies

Analogous

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



16.3702, 23.2503, 4.3028



12.5609, 23.2503, 9.9566



11.2251, 23.2503, 24.0491

Triad

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



12.5609, 23.2503, 9.9566



21.6519, 23.2503, 86.3460



36.1639, 23.2503, 11.2031

Complementary

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



12.5609, 23.2503, 9.9566



14.6228, 7.3668, 8.4367

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.



38.3886, 23.2503, 26.6259



12.5609, 23.2503, 9.9566



29.0284, 23.2503, 76.5518

Square

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



12.5609, 23.2503, 9.9566



15.7405, 23.2503, 73.8893



35.5428, 23.2503, 51.5299



29.9730, 23.2503, 4.7104

Rectangle

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



12.5609, 23.2503, 9.9566



11.6468, 23.2503, 39.1967



35.5428, 23.2503, 51.5299



37.4510, 23.2503, 15.1727

Sweetspot

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



12.5615, 23.2512, 9.9571



38.0900, 49.1111, 44.1812



14.8370, 24.5594, 3.9586



8.0625, 10.6740, 9.3211



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.



12.5615, 23.2512, 9.9571



22.4028, 41.6018, 17.3446



16.7293, 24.9184, 31.9046



6.2471, 6.9716, 7.2245



10.3980, 19.2226, 8.3164



0.1736, 0.2946, 0.2200

Inverse Universe

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



14.6228, 7.3668, 8.4367



26.0920, 13.1546, 14.6100



13.1654, 6.7838, 0.7621



6.3386, 6.2746, 7.1630



12.1019, 6.0950, 7.0616



0.1993, 0.0985, 0.2023

Previews

White Background



This preview shows how the XYZ color 12.5609, 23.2503, 9.9566 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 12.5609, 23.2503, 9.9566 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 12.5609, 23.2503, 9.9566

Background



This preview shows how black text looks on a background with the XYZ color 12.5609, 23.2503, 9.9566.



This preview shows how white text looks on a background with the XYZ color 12.5609, 23.2503,

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

12.5609, 23.2503, 9.9566

Protanopia

21.0595, 22.9952, 8.3296

Deuteranopia

23.3693, 22.9598, 10.5971



Tritanopia

17.7776, 23.2766, 35.0083

Trichromacy



Original Color

12.5609, 23.2503, 9.9566



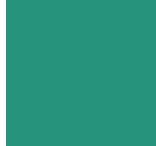
Protanomaly

14.9357, 21.5007, 8.8317



Deuteranomaly

15.5882, 20.9549, 10.0606



Tritanomaly

14.9347, 22.7602, 23.0080

Monochromacy



Original Color

12.5609, 23.2503, 9.9566



Achromatopsia

11.6093, 12.2139, 13.3009



Achromatomaly

10.2682, 14.7023, 11.7478

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.5609, 23.2503, 9.9566 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, 72)` looks like.

```
.text, #text, p{  
    color:rgb(0, 153, 72)  
}
```

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, 72) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 153, 72) }
```

Border

The CSS property to change the border of an element to XYZ 12.5609, 23.2503, 9.9566 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, 72) }
```


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

```
.border{ border-color:rgb(0, 153, 72) }
```

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, 72)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 153, 72); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 153, 72);  
box-shadow:4px 4px 4px 4px rgb(0, 153, 72)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.5609, 23.2503, 9.9566 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, 72) }
```

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

```
.background{ background-color: rgb(0, 153,  
72) }
```

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