

Converting Colors

XYZ(11.7361, 23.6305, 6.4256)

Have a look what the booklet for
XYZ(11.7361, 23.6305, 6.4256)
contains.

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Color

**XYZ(12.3621, 23.9664,
6.4571)**

Conversions

Conversions Part 1

Format	Color
Hex	009C2D
RGB	0, 156, 45
RGB Percent	0%, 61%, 18%
CMY	1.0000, 0.3882, 0.8235
CMYK	1.00, 0.00, 0.71, 0.39
HSL	137°, 100%, 31%
HSV	137°, 100%, 61%
XYZ	12.3621, 23.9664, 6.4571
YIQ	96.7020, -57.3450, -67.5930

Conversions

Conversions Part 2

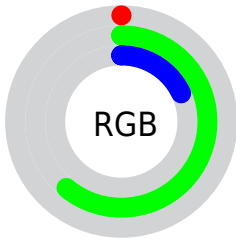
Format	Color
RYB	0, 121, 156
Decimal	39981
CIELab	56.05, -57.25, 46.24
CIELCh	56, 73.588, 141.072
Yxy	23.9664, 0.2889, 0.5602
Android (android.graphics.Color)	4278230061 (0xFF009C2D)
YUV	96.7020, -25.4891, -84.8077
Hunter-Lab	48.9555, -40.5978, 26.4486

Details

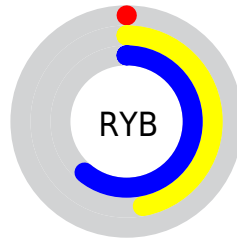
The XYZ color **12.3621, 23.9664, 6.4571** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **16.5800, 8.2159, 15.7505**, and the grayscale version is **11.3602, 11.9518, 13.0155**.

A 20% lighter version of the original color is **29.8210, 50.0739, 19.4028**, and **4.8502, 9.7005, 1.6167** is the 20% darker color. If you saturate the color by 10%, you get **12.3627, 23.9674, 6.4576**, and if you desaturate by 10%, it is **12.8122, 24.1711, 7.7450**.

Distribution



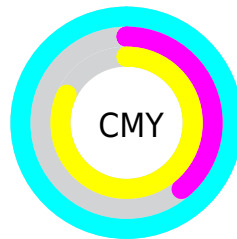
- Red (0%)
- Green (61%)
- Blue (18%)



- Red (0%)
- Yellow (47%)
- Blue (61%)



- Cyan (100%)
- Magenta (0%)
- Yellow (71%)
- Black (39%)





- Cyan (100%)
- Magenta (39%)
- Yellow (82%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.3621, 23.9664, 6.4571 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 12.3621, 23.9664, 6.4571 by changing the saturation by 10% instead.


 12.3621, 23.9664,
6.4571


 12.3621, 23.9664,
6.4571

200.5093,
272.6506, 172.5292


 7.0647, 15.3087,
3.0517


 29.7641, 49.9754,
19.3663


 3.5493, 9.0363,
1.1211


 42.5994, 68.0954,
29.7073

 1.4505, 4.7649,
0.0000


 58.6781, 90.1384,
43.1971

 0.2918, 2.1100,
0.0000

 78.3655, 116.4886,
60.2544

 0.0000, 0.6702,
0.0000

 102.0269,
147.5306, 81.2978

 0.0000, 0.0000,
0.0000

 130.0278,

183.6486, 106.7456

162.7335,
225.2272, 137.0166

■ 12.3621, 23.9664,
6.4571

■ 12.3621, 23.9664,
6.4571

■ 12.3627, 23.9674,
6.4576

■ 12.8122, 24.1711,
7.7450

■ 13.4793, 24.4800,
9.3570

■ 14.4381, 24.9319,
11.3164

■ 15.7210, 25.5431,
13.6421

■ 17.3557, 26.3275,
16.3518

■ 19.3669, 27.2976,
19.4619

■ 21.7771, 28.4646,
22.9881

■ 24.6069, 29.8388,
26.9449

■ 27.8755, 31.4297,
31.3462

Harmonies

Analogous

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



17.4394, 23.9664, 2.3348



12.3621, 23.9664, 6.4571



10.2355, 23.9664, 19.5402

Triad

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



12.3621, 23.9664, 6.4571



20.3579, 23.9664, 103.9425



41.4753, 23.9664, 12.7210

Complementary

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



12.3621, 23.9664, 6.4571



16.5800, 8.2159, 15.7505

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.



42.8114, 23.9664, 33.9735



12.3621, 23.9664, 6.4571



29.1112, 23.9664, 97.6914

Square

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



12.3621, 23.9664, 6.4571



14.0448, 23.9664, 81.3480



37.8403, 23.9664, 67.4233



34.5432, 23.9664, 4.0905

Rectangle

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



12.3621, 23.9664, 6.4571



10.2974, 23.9664, 36.0528



37.8403, 23.9664, 67.4233



42.6513, 23.9664, 18.1642

Sweetspot

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



12.3627, 23.9674, 6.4576



39.2710, 51.5616, 41.3494



18.5459, 27.2097, 4.2745



8.2500, 11.1562, 8.5329



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.



12.3627, 23.9674, 6.4576



22.3784, 43.5000, 11.3343



15.4144, 25.1881, 22.5275



6.6255, 7.4310, 7.4627



10.1961, 19.7464, 5.3898



0.1993, 0.3599, 0.1857

Inverse Universe

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



16.5800, 8.2159, 15.7505



30.0242, 14.8863, 28.1394



13.9967, 7.1826, 2.1470



6.8225, 6.7219, 7.9165



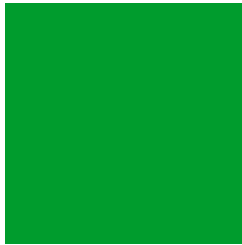
13.6718, 6.7733, 13.0546



0.2617, 0.1280, 0.3241

Previews

White Background



This preview shows how the XYZ color 12.3621, 23.9664, 6.4571 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 12.3621, 23.9664, 6.4571 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

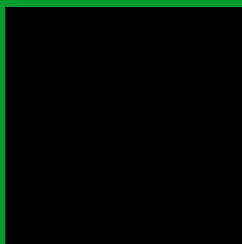
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.3621, 23.9664, 6.4571

Background



This preview shows how black text looks on a background with the XYZ color 12.3621, 23.9664, 6.4571.



This preview shows how white text looks on a background with the XYZ color 12.3621, 23.9664,

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

12.3621, 23.9664, 6.4571

Protanopia

21.4690, 23.6807, 5.3588

Deuteranopia

24.0048, 23.5616, 6.8971



Tritanopia

18.4790, 24.0821, 35.5726

Trichromacy



Original Color

12.3621, 23.9664, 6.4571



Protanomaly

14.7926, 21.9390, 5.5528



Deuteranomaly

15.6299, 21.4801, 6.4543



Tritanomaly

14.9732, 23.5451, 20.2785

Monochromacy



Original Color

12.3621, 23.9664, 6.4571



Achromatopsia

11.3621, 11.9538, 13.0177



Achromatomaly

9.8402, 14.5311, 9.4939

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3621, 23.9664, 6.4571 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, 156, 45)` looks like.

```
.text, #text, p{  
    color:rgb(0, 156, 45)  
}
```

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, 156, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 156, 45) }
```

Border

The CSS property to change the border of an element to XYZ 12.3621, 23.9664, 6.4571 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, 156, 45) }
```


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

```
.border{ border-color:rgb(0, 156, 45) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 156, 45)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 156, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 156, 45);  
box-shadow:4px 4px 4px 4px rgb(0, 156, 45)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.3621, 23.9664, 6.4571 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 156, 45) }
```

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

```
.background{ background-color: rgb(0, 156,  
45) }
```

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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