

# Converting Colors

XYZ(11.2089, 23.4310, 3.0748)

Have a look what the booklet for  
XYZ(11.2089, 23.4310, 3.0748)  
contains.

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# Color

**XYZ(11.8885, 23.7769,  
3.9628)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	009C00
RGB	0, 156, 0
RGB Percent	0%, 61%, 0%
CMY	1.0000, 0.3882, 1.0000
CMYK	1.00, 0.00, 1.00, 0.39
HSL	120°, 100%, 31%
HSV	120°, 100%, 61%
XYZ	11.8885, 23.7769, 3.9628
YIQ	91.5720, -42.9000, -81.5880

# Conversions

## Conversions Part 2

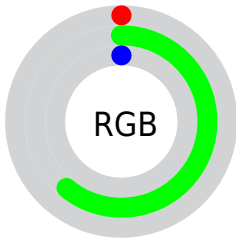
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 156, 156
Decimal	39936
CIELab	55.86, -59.70, 57.62
CIELCh	56, 82.976, 136.016
Yxy	23.7769, 0.3000, 0.6000
Android (android.graphics.Color)	4278230016 (0xFF009C00)
YUV	91.5720, -45.1450, -80.3086
Hunter-Lab	48.7616, -41.8129, 29.3147

# Details

The XYZ color **11.8885, 23.7769, 3.9628** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **19.7113, 9.4685, 32.2393**, and the grayscale version is **10.1828, 10.7131, 11.6666**.

A 20% lighter version of the original color is **28.9634, 49.7533, 13.8712**, and **4.8502, 9.7005, 1.6167** is the 20% darker color. If you saturate the color by 10%, you get **11.8889, 23.7778, 3.9632**, and if you desaturate by 10%, it is **12.1866, 23.9208, 4.4500**.

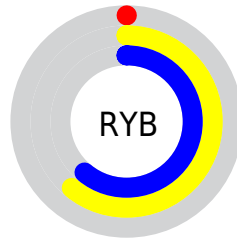
# Distribution



Red (0%)

Green (61%)

Blue (0%)



Red (0%)

Yellow (61%)

Blue (61%)

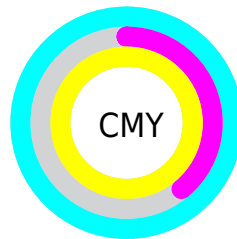


Cyan (100%)

Magenta (0%)

Yellow (100%)

Black (39%)



Cyan (100%)

Magenta (39%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 11.8885, 23.7769, 3.9628 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 11.8885, 23.7769, 3.9628 by changing the saturation by 10% instead.



■ 11.8885, 23.7769,  
3.9628

■ 11.8885, 23.7769,  
3.9628

197.4508,  
271.6906, 147.8110

■ 6.7395, 15.1682,  
1.6050

■ 28.9105, 49.6659,  
13.9239

■ 3.3446, 8.9375,  
0.2944

■ 41.5141, 67.7150,  
22.3642

■ 1.3385, 4.7005,  
0.0000

■ 57.3334, 89.6796,  
33.6691

■ 0.2118, 2.0726,  
0.0000

■ 76.7336, 115.9443,  
48.2571


■ 0.0000, 0.6492,  
0.0000


■ 100.0800,  
146.8933, 66.5467


■ 0.0000, 0.0000,  
0.0000


■ 127.7381,


182.9111, 88.9566


 160.0733,  
224.3821, 115.9051


 11.8885, 23.7769,  
3.9628


 11.8885, 23.7769,  
3.9628


 11.8889, 23.7778,  
3.9632

 12.1866, 23.9208,  
4.4500

 12.7103, 24.1724,  
5.3068

 13.5616, 24.5813,  
6.6993

 14.7819, 25.1675,  
8.6955

 16.4069, 25.9480,  
11.3534

■ 18.4677, 26.9380,  
14.7243

■ 20.9928, 28.1509,  
18.8544

■ 24.0078, 29.5991,  
23.7860

■ 27.5368, 31.2943,  
29.5583

# Harmonies

## Analogous

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



17.9497, 23.7769, 1.1711



11.8885, 23.7769, 3.9628



9.1601, 23.7769, 15.2443

# Triad

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



11.8885, 23.7769, 3.9628



18.4884, 23.7769, 116.2627



44.9360, 23.7769, 14.0268

# Complementary

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



11.8885, 23.7769, 3.9628



19.7113, 9.4685, 32.2393

# 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.



45.2000, 23.7769, 40.6020



11.8885, 23.7769, 3.9628



27.9894, 23.7769, 114.9684

# Square

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



11.8885, 23.7769, 3.9628



12.1877, 23.7769, 84.2437



38.3474, 23.7769, 81.4127



37.7033, 23.7769, 3.6013



# Rectangle

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



11.8885, 23.7769, 3.9628



8.9222, 23.7769, 31.7315



38.3474, 23.7769, 81.4127



45.8993, 23.7769, 20.8116

# Sweetspot

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



11.8891, 23.7779, 3.9633



37.8290, 50.9847, 33.7556



25.5998, 30.8460, 4.6048



7.9122, 11.0211, 6.7542



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.



11.8891, 23.7779, 3.9633



21.5929, 43.1858, 7.1979



13.2643, 24.3280, 11.2052



6.5508, 7.4011, 7.0690



9.7925, 19.5849, 3.2643



0.1751, 0.3502, 0.0584



# Inverse Universe

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



19.7113, 9.4685, 32.2393



35.7998, 17.1966, 58.5534



15.0862, 7.6184, 7.8839



6.9042, 6.7546, 8.3465



16.2354, 7.7987, 26.5543

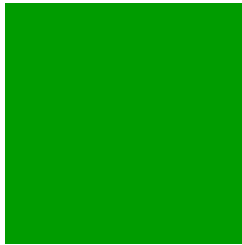


0.2903, 0.1394, 0.4748



# Previews

## White Background



This preview shows how the XYZ color 11.8885, 23.7769, 3.9628 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 11.8885, 23.7769, 3.9628 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

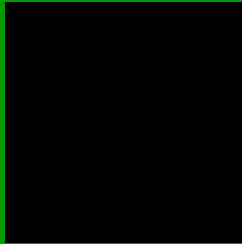
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 11.8885, 23.7769, 3.9628**

## **Background**



This preview shows how black text looks on a background with the XYZ color 11.8885, 23.7769, 3.9628.



This preview shows how white text looks on a background with the XYZ color 11.8885, 23.7769,



# 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

11.8885, 23.7769, 3.9628

### Protanopia

21.1028, 23.5342, 3.4303

### Deuteranopia

23.6859, 23.2527, 4.7532



## Tritanopia

18.3912, 23.8089, 35.5246

# Trichromacy



## Original Color

11.8885, 23.7769, 3.9628



## Protanomaly

14.3923, 21.7789, 3.4452



## Deuteranomaly

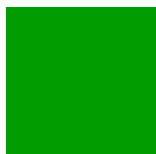
15.0343, 21.0134, 4.0227



## Tritanomaly

13.9621, 22.8864, 15.7382

# Monochromacy



## Original Color

11.8885, 23.7769, 3.9628



## Achromatopsia

10.1725, 10.7023, 11.6548



## Achromatomaly

8.7238, 13.5070, 6.2850

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 11.8885, 23.7769, 3.9628 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, 0)` looks like.

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

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, 0) colored shadow looks like.

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

## Border

The CSS property to change the border of an element to XYZ 11.8885, 23.7769, 3.9628 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, 0) }
```



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

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

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, 0)` colored shadow looks like.

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

# Background

The CSS property to change the background color of an element to XYZ 11.8885, 23.7769, 3.9628 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, 0) }
```

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

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

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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