

# Converting Colors

XYZ(11.8408, 23.6373, 4.0837)

Have a look what the booklet for  
XYZ(11.8408, 23.6373, 4.0837)  
contains.

<b>XYZ(11.9159, 23.7879, 4.1071)</b>	3
<i><b>Conversions</b></i>	4
<i><b>Details</b></i>	6
<i><b>Harmonies</b></i>	12
<i><b>Previews</b></i>	24
<i><b>Color Blindness Simulation</b></i>	28
<i><b>CSS Examples</b></i>	31

# Color

**XYZ(11.9159, 23.7879,  
4.1071)**

# Conversions

Conversions Part 1	
Format	Color
Hex	009C05
RGB	0, 156, 5
RGB Percent	0%, 61%, 2%
CMY	1.0000, 0.3882, 0.9803
CMYK	1.00, 0.00, 0.97, 0.39
HSL	122°, 100%, 31%
HSV	122°, 100%, 61%
XYZ	11.9159, 23.7879, 4.1071
YIQ	92.1420, -44.5050, -80.0330

# Conversions

## Conversions Part 2

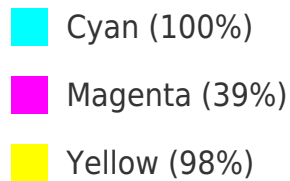
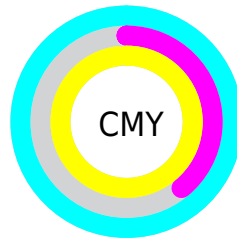
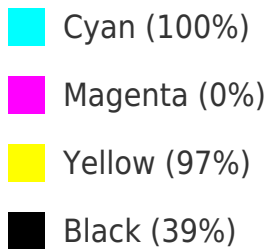
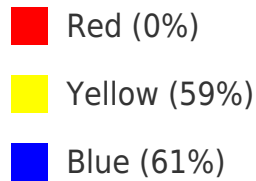
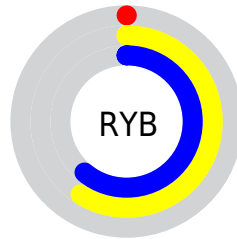
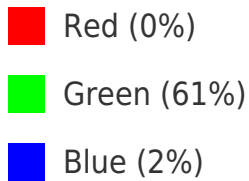
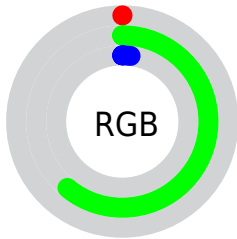
Format	Color
<a href="#">RYB</a>	<a href="#">0, 151, 156</a>
Decimal	<a href="#">39941</a>
CIELab	<a href="#">55.87, -59.56, 56.85</a>
CIELCh	<a href="#">56, 82.335, 136.335</a>
Yxy	<a href="#">23.7879, 0.2993, 0.5975</a>
Android (android.graphics.Color)	<a href="#">4278230021</a> ( <a href="#">0xFF009C05</a> )
YUV	<a href="#">92.1420, -42.9610, -80.8085</a>
Hunter-Lab	<a href="#">48.7728, -41.7424, 29.1483</a>

# Details

The XYZ color **11.9159, 23.7879, 4.1071** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **19.2962, 9.3024, 30.0534**, and the grayscale version is **10.3099, 10.8468, 11.8122**.

A 20% lighter version of the original color is **29.0276, 49.7790, 14.2093**, and **4.8502, 9.7005, 1.6167** is the 20% darker color. If you saturate the color by 10%, you get **11.9164, 23.7889, 4.1075**, and if you desaturate by 10%, it is **12.2232, 23.9355, 4.6429**.

# Distribution





# Brightness & Saturation Gradients

These gradients show how the XYZ color 11.9159, 23.7879, 4.1071 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 11.9159, 23.7879, 4.1071 by changing the saturation by 10% instead.





 11.9159, 23.7879,  
4.1071

 11.9159, 23.7879,  
4.1071


197.6290,  
271.7464, 149.4084


 6.7582, 15.1764,  
1.6843


 28.9600, 49.6839,  
14.2560


 3.3563, 8.9433,  
0.3499


 41.5772, 67.7371,  
22.8192


 1.3449, 4.7042,  
0.0000


 57.4116, 89.7063,  
34.2663

 0.2164, 2.0748,  
0.0000

 76.8285, 115.9759,  
49.0157


 0.0000, 0.6504,  
0.0000


 100.1934,  
146.9304, 67.4861


 0.0000, 0.0000,  
0.0000


 127.8715,

182.9540, 90.0960


 160.2283,  
224.4312, 117.2639


 11.9159, 23.7879,  
4.1071


 11.9159, 23.7879,  
4.1071

 11.9164, 23.7889,  
4.1075

 12.2232, 23.9355,  
4.6429

 12.7667, 24.1950,  
5.6039

 13.6347, 24.6106,  
7.0847

 14.8671, 25.2016,  
9.1445

 16.4981, 25.9845,  
11.8346

■ 18.5580, 26.9741,  
15.2007

■ 21.0741, 28.1834,  
19.2841

■ 24.0715, 29.6246,  
24.1231

■ 27.5735, 31.3090,  
29.7530

# Harmonies

## Analogous

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



17.9093, 23.7879, 1.2329



11.9159, 23.7879, 4.1071



9.2275, 23.7879, 15.5184

# Triad

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



11.9159, 23.7879, 4.1071



18.6127, 23.7879, 115.4224



44.6955, 23.7879, 13.9255

# Complementary

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



11.9159, 23.7879, 4.1071



19.2962, 9.3024, 30.0534

# 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.



45.0387, 23.7879, 40.1126



11.9159, 23.7879, 4.1071



28.0679, 23.7879, 113.7451

# Square

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



11.9159, 23.7879, 4.1071



12.3075, 23.7879, 84.0716



38.3174, 23.7879, 80.3988



37.4796, 23.7879, 3.6288



# Rectangle

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



11.9159, 23.7879, 4.1071



9.0090, 23.7879, 32.0249



38.3174, 23.7879, 80.3988



45.6753, 23.7879, 20.6122

# Sweetspot

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



11.9165, 23.7889, 4.1076



37.9787, 51.0446, 34.5443



25.1020, 30.5895, 4.5814



7.9469, 11.0349, 6.9367



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.



11.9165, 23.7889, 4.1076



21.6288, 43.2001, 7.3867



13.3593, 24.3660, 11.7058



6.5590, 7.4043, 7.1121



9.8176, 19.5950, 3.3965



0.1778, 0.3513, 0.0725



# Inverse Universe

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



19.2962, 9.3024, 30.0534



35.0313, 16.8891, 54.5063



14.9947, 7.5818, 7.4023



6.8950, 6.7509, 8.2979



15.8960, 7.6630, 24.7671

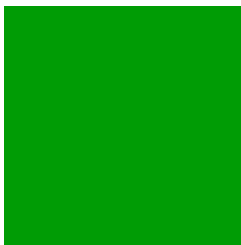


0.2868, 0.1380, 0.4563



# Previews

## White Background



This preview shows how the XYZ color 11.9159, 23.7879, 4.1071 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

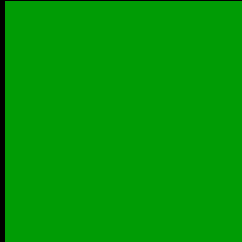
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 11.9159, 23.7879, 4.1071 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

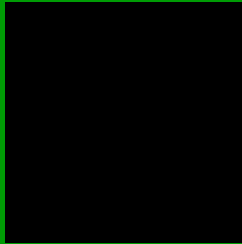
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 11.9159, 23.7879, 4.1071**

## **Background**



This preview shows how black text looks on a background with the XYZ color 11.9159, 23.7879, 4.1071.



This preview shows how white text looks on a background with the XYZ color 11.9159, 23.7879,



# 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

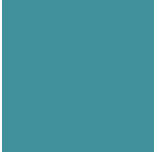
11.9159, 23.7879, 4.1071

### Protanopia

21.1028, 23.5342, 3.4303

### Deuteranopia

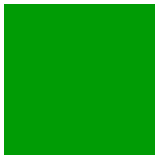
23.6859, 23.2527, 4.7532



## Tritanopia

18.3912, 23.8089, 35.5246

# Trichromacy



**Original Color**  
11.9159, 23.7879, 4.1071



**Protanomaly**  
14.4033, 21.7833, 3.5029

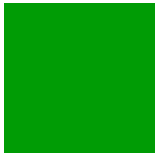


**Deuteranomaly**  
15.0442, 21.0174, 4.0745



**Tritanomaly**  
14.0602, 22.9256, 16.2544

# Monochromacy



**Original Color**  
11.9159, 23.7879, 4.1071



**Achromatopsia**  
10.1725, 10.7023, 11.6548



**Achromatomaly**  
8.7500, 13.5175, 6.4229

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 11.9159, 23.7879, 4.1071 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, 5)` looks like.

```
.text, #text, p{  
    color:rgb(0, 156, 5)  
}
```

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, 5) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 156, 5) }
```

## Border

The CSS property to change the border of an element to XYZ 11.9159, 23.7879, 4.1071 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, 5) }
```



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

```
.border{ border-color:rgb(0, 156, 5) }
```

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, 5) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 156, 5); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 156, 5); box-shadow:4px  
4px 4px 4px rgb(0, 156, 5) }
```

# Background

The CSS property to change the background color of an element to XYZ 11.9159, 23.7879, 4.1071 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, 5) }
```

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

```
.background{ background-color: rgb(0, 156,  
5) }
```

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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