

# Converting Colors

XYZ(9.4769, 21.2205, 7.7371)

Have a look what the booklet for  
XYZ(9.4769, 21.2205, 7.7371)  
contains.

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# Color

**XYZ(11.8560, 22.4490,  
7.8459)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	00973B
RGB	0, 151, 59
RGB Percent	0%, 59%, 23%
CMY	1.0000, 0.4078, 0.7686
CMYK	1.00, 0.00, 0.61, 0.41
HSL	143°, 100%, 30%
HSV	143°, 100%, 59%
XYZ	11.8560, 22.4490, 7.8459
YIQ	95.3630, -60.4640, -60.6240

# Conversions

## Conversions Part 2

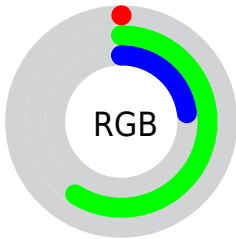
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 109, 151
Decimal	38715
CIELab	54.50, -54.05, 38.33
CIELCh	55, 66.263, 144.662
Yxy	22.4490, 0.2813, 0.5326
Android (android.graphics.Color)	4278228795 (0xFF00973B)
YUV	95.3630, -17.9270, -83.6334
Hunter-Lab	47.3804, -38.2496, 23.3482

# Details

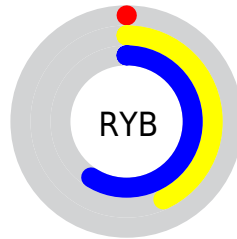
The XYZ color **11.8560, 22.4490, 7.8459** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **14.6948, 7.3523, 10.7699**, and the grayscale version is **11.0169, 11.5907, 12.6223**.

A 20% lighter version of the original color is **28.7621, 47.2730, 22.0767**, and **4.4006, 8.7485, 1.6290** is the 20% darker color. If you saturate the color by 10%, you get **11.8566, 22.4499, 7.8464**, and if you desaturate by 10%, it is **12.3153, 22.6564, 9.2254**.

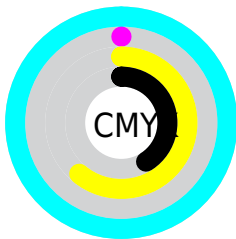
# Distribution



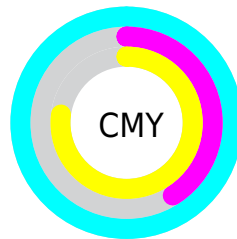
- Red (0%)
- Green (59%)
- Blue (23%)



- Red (0%)
- Yellow (43%)
- Blue (59%)



- Cyan (100%)
- Magenta (0%)
- Yellow (61%)
- Black (41%)




- Cyan (100%)
- Magenta (41%)
- Yellow (77%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 11.8560, 22.4490, 7.8459 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 11.8560, 22.4490, 7.8459 by changing the saturation by 10% instead.




 11.8560, 22.4490,  
7.8459


 11.8560, 22.4490,  
7.8459


197.2391,  
264.8822, 184.4075


 6.7172, 14.1872,  
3.9101


 28.8517, 47.4870,  
22.1970


 3.3306, 8.2510,  
1.5762


 41.4393, 65.0319,  
33.4493


 1.3309, 4.2560,  
0.2737

 57.2406, 86.4401,  
47.9777

 0.2062, 1.8177,  
0.0000

 76.6208, 112.0958,  
66.2005

 0.0000, 0.4982,  
0.0000

 99.9455, 142.3835,  
88.5363

 0.0000, 0.0000,  
0.0000

 127.5798,

177.6875, 115.4038

159.8892,  
218.3923, 147.2213

■ 11.8560, 22.4490,  
7.8459

■ 11.8560, 22.4490,  
7.8459

■ 11.8566, 22.4499,  
7.8464

■ 12.3153, 22.6564,  
9.2254

■ 12.9622, 22.9547,  
10.8435

■ 13.8666, 23.3805,  
12.7140

■ 15.0571, 23.9482,  
14.8477

■ 16.5580, 24.6703,  
17.2545

■ 18.3911, 25.5576,  
19.9440

■ 20.5760, 26.6202,  
22.9251

■ 23.1308, 27.8673,  
26.2065

■ 26.0723, 29.3073,  
29.7963

# Harmonies

## Analogous

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



16.0267, 22.4490, 3.1402



11.8560, 22.4490, 7.8459



10.2385, 22.4490, 20.9098

# Triad

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



11.8560, 22.4490, 7.8459



20.0648, 22.4490, 89.7571



36.7018, 22.4490, 11.2694

# Complementary

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



11.8560, 22.4490, 7.8459



14.6948, 7.3523, 10.7699

# 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.



38.4704, 22.4490, 28.3536



11.8560, 22.4490, 7.8459



27.7074, 22.4490, 81.7418

# Square

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



11.8560, 22.4490, 7.8459



14.2392, 22.4490, 73.7045



34.8691, 22.4490, 55.6211



30.4715, 22.4490, 4.1853



# Rectangle

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



11.8560, 22.4490, 7.8459



10.4819, 22.4490, 36.0221



34.8691, 22.4490, 55.6211



37.8897, 22.4490, 15.6566

# Sweetspot

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



11.8566, 22.4499, 7.8464



36.5942, 47.5482, 40.7188



15.5933, 24.4675, 3.9008



7.9583, 10.6323, 8.7725



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.



11.8566, 22.4499, 7.8464



21.1487, 40.1698, 13.6087



15.3274, 23.8383, 26.1237



6.2271, 6.9636, 7.1193



10.0995, 19.1032, 6.7445



0.1680, 0.2924, 0.1906



# Inverse Universe

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



14.6948, 7.3523, 10.7699



26.2237, 13.1298, 18.8034



12.8691, 6.6220, 1.1559



6.3589, 6.2827, 7.2700



12.5150, 6.2602, 9.2368



0.2049, 0.1007, 0.2317



# Previews

## White Background



This preview shows how the XYZ color 11.8560, 22.4490, 7.8459 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 11.8560, 22.4490, 7.8459 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 11.8560, 22.4490, 7.8459**

## **Background**



This preview shows how black text looks on a background with the XYZ color 11.8560, 22.4490, 7.8459.



This preview shows how white text looks on a background with the XYZ color 11.8560, 22.4490,



# 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

11.8560, 22.4490, 7.8459

### Protanopia

20.1268, 22.1516, 6.5830

### Deuteranopia

22.5188, 22.1915, 8.4067



## Tritanopia

17.2862, 22.6066, 33.5894

# Trichromacy



## Original Color

11.8560, 22.4490, 7.8459



## Protanomaly

14.1917, 20.7281, 6.8674



## Deuteranomaly

14.8173, 20.1871, 7.9660



## Tritanomaly

14.2545, 21.9948, 20.9469

# Monochromacy



## Original Color

11.8560, 22.4490, 7.8459



## Achromatopsia

10.8771, 11.4435, 12.4620



## Achromatomaly

9.5172, 13.8313, 10.1507

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 11.8560, 22.4490, 7.8459 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, 151, 59)` looks like.

```
.text, #text, p{  
    color:rgb(0, 151, 59)  
}
```

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, 151, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 151, 59) }
```

## Border

The CSS property to change the border of an element to XYZ 11.8560, 22.4490, 7.8459 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, 151, 59) }
```



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

```
.border{ border-color:rgb(0, 151, 59) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 151, 59)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 151, 59); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 151, 59);  
box-shadow:4px 4px 4px 4px rgb(0, 151, 59)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 11.8560, 22.4490, 7.8459 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 151, 59) }
```

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

```
.background{ background-color: rgb(0, 151,  
59) }
```

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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