

# Converting Colors

XYZ(23.8071, 46.6742, 9.3239)

Have a look what the booklet for  
XYZ(23.8071, 46.6742, 9.3239)  
contains.

<b>XYZ(23.9069, 46.8693, 9.3768)</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(23.9069, 46.8693,  
9.3768)**

# Conversions

## Conversions Part 1

Format	Color
Hex	15D323
RGB	21, 211, 35
RGB Percent	8%, 83%, 14%
CMY	0.9176, 0.1725, 0.8627
CMYK	0.90, 0.00, 0.83, 0.17
HSL	124°, 82%, 45%
HSV	124°, 90%, 83%
XYZ	23.9069, 46.8693, 9.3768
YIQ	134.1260, -56.7440, -95.0160

# Conversions

## Conversions Part 2

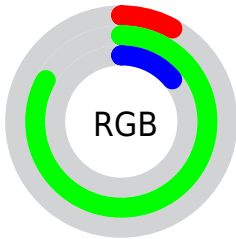
Format	Color
<a href="#">RYB</a>	<a href="#">21, 198, 211</a>
Decimal	<a href="#">1430307</a>
CIELab	<a href="#">74.11, -72.77, 67.03</a>
CIELCh	<a href="#">74, 98.939, 137.348</a>
Yxy	<a href="#">46.8693, 0.2983, 0.5847</a>
Android (android.graphics.Color)	<a href="#">4279620387 (0xFF15D323)</a>
YUV	<a href="#">134.1260, -48.8691, -99.2115</a>
Hunter-Lab	<a href="#">68.4612, -57.4741, 39.8021</a>

# Details

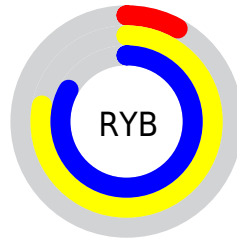
The XYZ color **23.9069, 46.8693, 9.3768** is a dark color, and the websafe version is hex **00CC00**. The color can be described as dark washed green. A complement of this color would be **37.2106, 18.4168, 54.4136**, and the grayscale version is **22.8968, 24.0893, 26.2332**.

A 20% lighter version of the original color is **44.4732, 75.7626, 23.5889**, and **11.7213, 23.4427, 3.9071** is the 20% darker color. If you saturate the color by 10%, you get **23.3855, 46.6265, 8.2403**, and if you desaturate by 10%, it is **24.9331, 47.3564, 11.3853**.

# Distribution



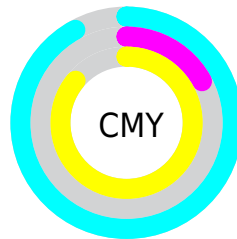
- Red (8%)
- Green (83%)
- Blue (14%)



- Red (8%)
- Yellow (78%)
- Blue (83%)



- Cyan (90%)
- Magenta (0%)
- Yellow (83%)
- Black (17%)




- Cyan (92%)
- Magenta (17%)
- Yellow (86%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.9069, 46.8693, 9.3768 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 23.9069, 46.8693, 9.3768 by changing the saturation by 10% instead.





 23.9069, 46.8693,  
9.3768


 23.9069, 46.8693,  
9.3768


264.7987,  
374.2926, 196.4849


 15.3889, 32.9323,  
4.8876


 49.3340, 85.5185,  
25.2058


 9.1809, 22.0746,  
2.1239


 66.9739, 110.9995,  
37.3826


 4.9174, 13.9117,  
0.6299


 88.3851, 141.0974,  
52.9591

 2.2331, 8.0593,  
0.0000

 113.9330,  
176.1964, 72.3537

 0.7601, 4.1329,  
0.0000

 143.9829,  
216.6811, 95.9851

 0.0000, 1.7482,  
0.0000

 178.9003,

 0.0000, 0.4546,

262.9357, 124.2717

0.0000

219.0504,  
315.3448, 157.6321

■ 0.0000, 0.0000,  
0.0000

■ 23.9069, 46.8693,  
9.3768

■ 23.9069, 46.8693,  
9.3768

■ 23.3855, 46.6265,  
8.2403


■ 24.9331, 47.3564,  
11.3853


■ 26.5974, 48.1496,  
14.3881

■ 28.9829, 49.2909,  
18.4926


■ 32.1595, 50.8146,  
23.7917

■ 36.1889, 52.7504,  
30.3682

 41.1265, 55.1254,  
38.2978

 47.0231, 57.9644,  
47.6501

 53.9258, 61.2900,  
58.4901

 61.8785, 65.1238,  
70.8786

# Harmonies

## Analogous

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



35.1480, 46.8693, 3.0768



23.9069, 46.8693, 9.3768



18.9024, 46.8693, 32.5179

# Triad

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



23.9069, 46.8693, 9.3768



37.4996, 46.8693, 217.5262



85.5856, 46.8693, 27.1312

# Complementary

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



23.9069, 46.8693, 9.3768



37.2106, 18.4168, 54.4136

# 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.



86.7064, 46.8693, 75.5049



23.9069, 46.8693, 9.3768



55.4899, 46.8693, 212.1348

# Square

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



23.9069, 46.8693, 9.3768



25.2335, 46.8693, 161.5769



74.5715, 46.8693, 149.6983



71.8247, 46.8693, 7.6667



# Rectangle

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



23.9069, 46.8693, 9.3768



18.5952, 46.8693, 64.5466



74.5715, 46.8693, 149.6983



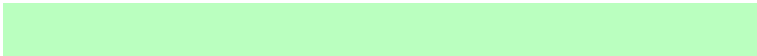
87.5619, 46.8693, 39.5504

# Sweetspot

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



23.9080, 46.8712, 9.3779



65.4751, 85.7495, 62.5214



46.8082, 58.6961, 9.5719



13.3897, 18.0533, 12.3868



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



23.9080, 46.8712, 9.3779



35.8759, 71.5663, 12.5301



27.5450, 48.3260, 28.5298



11.6912, 13.2202, 12.7301



14.1270, 28.1437, 5.0488



0.8025, 1.5787, 0.3488



# Inverse Universe

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



37.2106, 18.4168, 54.4136



56.4092, 27.3277, 81.8098



29.5983, 15.3718, 14.3275



12.2716, 11.9934, 14.7061



22.2039, 10.7544, 32.3096

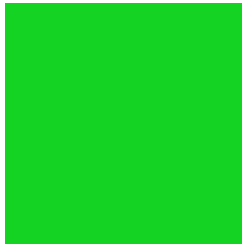


1.2530, 0.6059, 1.8671



# Previews

## White Background



This preview shows how the XYZ color 23.9069, 46.8693, 9.3768 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 23.9069, 46.8693, 9.3768 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 ✓ Pass

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

**XYZ 23.9069, 46.8693, 9.3768**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.9069, 46.8693, 9.3768.



This preview shows how white text looks on a background with the XYZ color 23.9069, 46.8693,



# 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

23.9069, 46.8693, 9.3768

### Protanopia

41.3503, 45.8234, 7.7023

### Deuteranopia

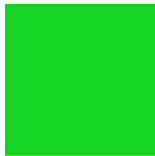
46.6408, 45.5801, 10.0810



## **Tritanopia**

35.8400, 46.4070, 69.3558

# Trichromacy



## Original Color

23.9069, 46.8693, 9.3768



## Protanomaly

29.4005, 43.1114, 8.0001



## Deuteranomaly

30.8549, 41.9105, 9.2596



## Tritanomaly

28.4119, 45.0352, 35.2122

# Monochromacy



## Original Color

23.9069, 46.8693, 9.3768



## Achromatopsia

22.6597, 23.8398, 25.9615



## Achromatomaly

19.6391, 29.0497, 16.1273

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.9069, 46.8693, 9.3768 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(21, 211, 35)` looks like.

```
.text, #text, p{  
    color:rgb(21, 211, 35)  
}
```

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(21, 211, 35) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(21, 211, 35) }
```

## Border

The CSS property to change the border of an element to XYZ 23.9069, 46.8693, 9.3768 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(21, 211, 35) }
```



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

```
.border{ border-color:rgb(21, 211, 35) }
```

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

Here you see how a box with a 4 pixel rgb(21, 211, 35) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(21, 211, 35); -webkit-box-  
shadow:4px 4px 4px 4px rgb(21, 211, 35);  
box-shadow:4px 4px 4px 4px rgb(21, 211,  
35) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.9069, 46.8693, 9.3768 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(21, 211, 35) }
```

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

```
.background{ background-color: rgb(21, 211,  
35) }
```

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