

# Converting Colors

XYZ(24.0603, 43.4336, 13.2869)

Have a look what the booklet for  
XYZ(24.0603, 43.4336, 13.2869)  
contains.

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# Color

**XYZ(23.9198, 43.2018,  
13.2090)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3CC948
RGB	60, 201, 72
RGB Percent	24%, 79%, 28%
CMY	0.7647, 0.2118, 0.7176
CMYK	0.70, 0.00, 0.64, 0.21
HSL	125°, 57%, 51%
HSV	125°, 70%, 79%
XYZ	23.9198, 43.2018, 13.2090
YIQ	144.1350, -42.6270, -70.0110

# Conversions

## Conversions Part 2

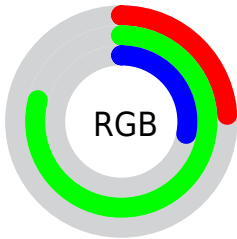
<b>Format</b>	<b>Color</b>
<b>RYB</b>	60, 190, 201
Decimal	3983688
CIELab	71.69, -62.30, 52.19
CIELCh	72, 81.272, 140.051
Yxy	43.2018, 0.2978, 0.5378
Android (android.graphics.Color)	4282173768 (0xFF3CC948)
YUV	144.1350, -35.5626, -73.7864
Hunter-Lab	65.7281, -50.0643, 34.0945

# Details

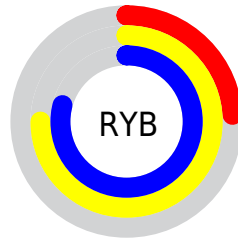
The XYZ color **23.9198, 43.2018, 13.2090** is a dark color, and the websafe version is hex **33CC33**. The color can be described as dark muted green. A complement of this color would be **34.8896, 19.3239, 50.0351**, and the grayscale version is **26.7158, 28.1071, 30.6086**.

A 20% lighter version of the original color is **48.0659, 77.4363, 31.8154**, and **10.1858, 20.2750, 3.6932** is the 20% darker color. If you saturate the color by 10%, you get **22.4155, 42.4868, 10.4622**, and if you desaturate by 10%, it is **26.0665, 44.2298, 16.9242**.

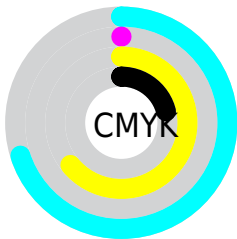
# Distribution



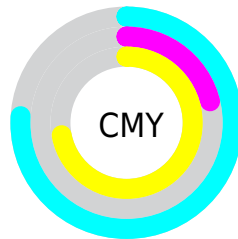
- Red (24%)
- Green (79%)
- Blue (28%)



- Red (24%)
- Yellow (75%)
- Blue (79%)



- Cyan (70%)
- Magenta (0%)
- Yellow (64%)
- Black (21%)



- Cyan (76%)
- Magenta (21%)
- Yellow (72%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.9198, 43.2018, 13.2090 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 23.9198, 43.2018, 13.2090 by changing the saturation by 10% instead.



■ 23.9198, 43.2018,  
13.2090

■ 23.9198, 43.2018,  
13.2090

264.8628,  
359.4410, 223.5075

■ 15.3986, 30.0435,  
7.4402

■ 49.3549, 80.0153,  
32.3754

■ 9.1877, 19.8716,  
3.6563

■ 66.9995, 104.4393,  
46.6101

■ 4.9219, 12.3017,  
1.4388

■ 88.4159, 133.3872,  
64.5039

■ 2.2358, 6.9495,  
0.1717

■ 113.9695,  
167.2436, 86.4753

■ 0.7615, 3.4306,  
0.0000

■ 144.0256,  
206.3928, 112.9428

■ 0.0000, 1.3604,  
0.0000

178.9496,

■ 0.0000, 0.1873,

251.2191, 144.3249

0.0000

219.1069,  
302.1071, 181.0403

■ 0.0000, 0.0000,  
0.0000

■ 23.9198, 43.2018,  
13.2090

■ 23.9198, 43.2018,  
13.2090

■ 22.4155, 42.4868,  
10.4622

■ 26.0665, 44.2298,  
16.9242

■ 21.4787, 42.0443,  
8.5911


■ 28.9139, 45.5952,  
21.6835


■ 20.9895, 41.8158,  
7.4999


■ 32.5171, 47.3264,  
27.5585


■ 36.9248, 49.4471,  
34.6135

■ 42.1817, 51.9790,  
42.9081

 48.3291, 54.9422,  
52.4978

 55.4058, 58.3557,  
63.4347

 63.4482, 62.2370,  
75.7680

 72.4905, 66.6029,  
89.5447

# Harmonies

## Analogous

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



32.6338, 43.2018, 5.7067



23.9198, 43.2018, 13.2090



20.1084, 43.2018, 35.1129

# Triad

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



23.9198, 43.2018, 13.2090



36.6537, 43.2018, 168.2960



71.3077, 43.2018, 25.5303

# Complementary

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



23.9198, 43.2018, 13.2090



34.8896, 19.3239, 50.0351

# 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.



73.0659, 43.2018, 61.4004



23.9198, 43.2018, 13.2090



50.8291, 43.2018, 160.3380

# Square

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



23.9198, 43.2018, 13.2090



26.2946, 43.2018, 132.4482



64.8983, 43.2018, 114.4940



60.5257, 43.2018, 9.5588



# Rectangle

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



23.9198, 43.2018, 13.2090



20.1135, 43.2018, 61.5589



64.8983, 43.2018, 114.4940



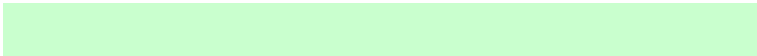
73.0539, 43.2018, 35.0038

# Sweetspot

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



23.9208, 43.2036, 13.2100



71.1102, 88.4566, 71.7240



42.7523, 52.9525, 12.2426



14.6592, 18.6630, 14.4689



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.



23.9208, 43.2036, 13.2100



37.4568, 72.3034, 16.1242



27.6525, 44.6962, 32.8604



10.5335, 11.9023, 11.4937



13.2113, 26.2969, 4.7912



0.6385, 1.2503, 0.2950



# Inverse Universe

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



34.8896, 19.3239, 50.0351



57.2778, 28.9328, 82.5066



29.0191, 16.9757, 19.1219



11.0427, 10.8004, 13.2079



20.5946, 9.9874, 29.4046



0.9869, 0.4776, 1.4542



# Previews

## White Background



This preview shows how the XYZ color 23.9198, 43.2018, 13.2090 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 23.9198, 43.2018, 13.2090 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 23.9198, 43.2018, 13.2090**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.9198, 43.2018, 13.2090.



This preview shows how white text looks on a background with the XYZ color 23.9198, 43.2018,



# 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

23.9198, 43.2018, 13.2090

### Protanopia

38.3096, 42.1116, 10.9597

### Deuteranopia

43.2219, 42.3440, 14.0788



## Tritanopia

33.7997, 42.8749, 62.9942

# Trichromacy



## Original Color

23.9198, 43.2018, 13.2090



## Protanomaly

29.8307, 40.7060, 11.5950



## Deuteranomaly

31.8295, 40.1756, 13.4742



## Tritanomaly

28.6425, 42.3913, 37.6831

# Monochromacy



## Original Color

23.9198, 43.2018, 13.2090



## Achromatopsia

26.5089, 27.8894, 30.3716



## Achromatomaly

23.5352, 31.7290, 22.0234

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.9198, 43.2018, 13.2090 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(60, 201, 72)` looks like.

```
.text, #text, p{  
    color:rgb(60, 201, 72)  
}
```

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(60, 201, 72) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(60, 201, 72) }
```

## Border

The CSS property to change the border of an element to XYZ 23.9198, 43.2018, 13.2090 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(60, 201, 72) }
```



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

```
.border{ border-color:rgb(60, 201, 72) }
```

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

Here you see how a box with a 4 pixel `rgb(60, 201, 72)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(60, 201, 72); -webkit-box-  
shadow:4px 4px 4px 4px rgb(60, 201, 72);  
box-shadow:4px 4px 4px 4px rgb(60, 201,  
72) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.9198, 43.2018, 13.2090 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(60, 201, 72) }
```

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

```
.background{ background-color: rgb(60, 201,  
72) }
```

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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