

# Converting Colors

XYZ(38.3107, 49.7838, 19.0043)

Have a look what the booklet for  
XYZ(38.3107, 49.7838, 19.0043)  
contains.

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# Color

**XYZ(38.3070, 49.8169,  
18.9059)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A6C761
RGB	166, 199, 97
RGB Percent	65%, 78%, 38%
CMY	0.3490, 0.2196, 0.6196
CMYK	0.17, 0.00, 0.51, 0.22
HSL	79°, 48%, 58%
HSV	79°, 51%, 78%
XYZ	38.3070, 49.8169, 18.9059
YIQ	177.5050, 13.0740, -38.7180

# Conversions

## Conversions Part 2

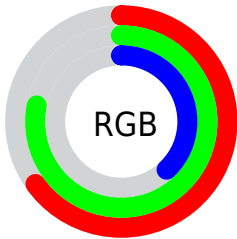
<b>Format</b>	<b>Color</b>
<b>RYB</b>	97, 199, 130
Decimal	10930017
CIELab	75.96, -27.03, 46.97
CIElCh	76, 54.193, 119.923
Yxy	49.8169, 0.3579, 0.4654
Android (android.graphics.Color)	4289120097 (0xFFA6C761)
YUV	177.5050, -39.6890, -10.0899
Hunter-Lab	70.5811, -26.6383, 33.5253

# Details

The XYZ color **38.3070, 49.8169, 18.9059** is a light color, and the websafe version is hex **99CC66**. A complement of this color would be **23.7914, 17.4201, 56.1441**, and the grayscale version is **42.2546, 44.4551, 48.4116**.

A 20% lighter version of the original color is **71.6964, 89.4100, 42.3332**, and **17.3006, 23.8928, 6.2847** is the 20% darker color. If you saturate the color by 10%, you get **36.1772, 48.8147, 14.5556**, and if you desaturate by 10%, it is **40.7395, 50.9515, 24.4873**.

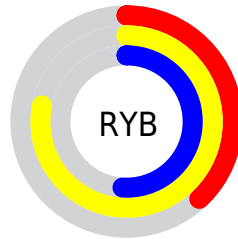
# Distribution



Red (65%)

Green (78%)

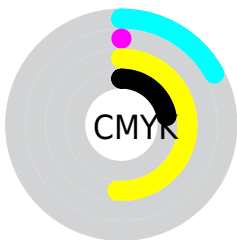
Blue (38%)



Red (38%)

Yellow (78%)

Blue (51%)

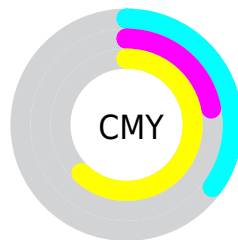


Cyan (17%)

Magenta (0%)

Yellow (51%)

Black (22%)



Cyan (35%)

Magenta (22%)


Yellow (62%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.3070, 49.8169, 18.9059 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 38.3070, 49.8169, 18.9059 by changing the saturation by 10% instead.





 38.3070, 49.8169,  
18.9059


 38.3070, 49.8169,  
18.9059


330.1932,  
385.9495, 258.3342

 26.3993, 35.2679,  
11.4262


 71.8793, 89.9035,  
42.4096


 17.2569, 23.8693,  
6.2365


 94.2747, 116.2100,  
59.2707

 10.5142, 15.2367,  
2.9183


 120.8967,  
147.2044, 80.0960

 5.8061, 8.9857,  
1.0531

 152.1106,  
183.2711, 105.3040

 2.7671, 4.7319,  
0.0000

188.2819,  
224.7946, 135.3132

 1.0318, 2.0908,  
0.0000

229.7758,

 0.0000, 0.6594,

272.1592, 170.5423

0.0000

276.9578,  
325.7494, 211.4098

■ 0.0000, 0.0000,  
0.0000

■ 38.3070, 49.8169,  
18.9059

■ 38.3070, 49.8169,  
18.9059

■ 36.1772, 48.8147,  
14.5556

■ 40.7395, 50.9515,  
24.4873

■ 34.3279, 47.9306,  
11.3396

■ 43.4881, 52.2187,  
31.3804

■ 32.7390, 47.1582,  
9.1521

■ 46.5694, 53.6271,  
39.6627

■ 31.3851, 46.4874,  
7.8657

■ 49.9976, 55.1823,  
49.4048

■ 30.3540, 45.9678,  
7.2729

■ 53.7863, 56.8900,  
60.6726

■ 57.9480, 58.7552,  
73.5278

■ 62.4946, 60.7828,  
88.0287

■ 67.2426, 62.8995,  
103.2045

■ 69.2003, 63.9087,  
103.2961

# Harmonies

## Analogous

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



47.3755, 49.8169, 15.4663



38.3070, 49.8169, 18.9059



32.4530, 49.8169, 30.8691

# Triad

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



38.3070, 49.8169, 18.9059



38.2678, 49.8169, 118.0156



69.5474, 49.8169, 54.3168

# Complementary

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



38.3070, 49.8169, 18.9059



23.7914, 17.4201, 56.1441

# 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.



66.2229, 49.8169, 87.1655



38.3070, 49.8169, 18.9059



47.3234, 49.8169, 131.0424

# Square

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



38.3070, 49.8169, 18.9059



32.4327, 49.8169, 86.9884



57.7135, 49.8169, 118.1409



66.2555, 49.8169, 30.9579

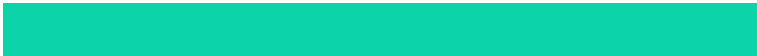


# Rectangle

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



38.3070, 49.8169, 18.9059



30.6861, 49.8169, 45.0805



57.7135, 49.8169, 118.1409



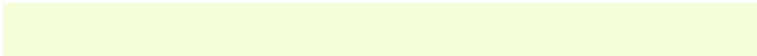
69.1611, 49.8169, 64.5679

# Sweetspot

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



38.3082, 49.8191, 18.9070



85.0842, 95.5045, 79.4251



33.6025, 28.7865, 15.0953



17.9368, 20.3173, 16.2199



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.



38.3082, 49.8191, 18.9070



62.7720, 85.1965, 24.4210



29.7454, 45.4048, 18.5062



11.1774, 12.2384, 11.3359



19.6122, 29.6058, 4.6808



1.0021, 1.4397, 0.2251



# Inverse Universe

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



23.7914, 17.4201, 56.1441



34.5384, 22.0521, 97.0438



33.4776, 22.4135, 56.5974



10.3745, 10.4513, 13.3880



8.0868, 3.4032, 34.9750



0.4593, 0.2005, 1.6596



# Previews

## White Background



This preview shows how the XYZ color 38.3070, 49.8169, 18.9059 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 38.3070, 49.8169, 18.9059 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 38.3070, 49.8169, 18.9059**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.3070, 49.8169, 18.9059.



This preview shows how white text looks on a background with the XYZ color 38.3070, 49.8169,



# 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

38.3070, 49.8169, 18.9059

### Protanopia

45.1997, 49.4528, 17.5190

### Deuteranopia

50.3136, 49.2941, 19.4333



## Tritanopia

47.0214, 49.3886, 62.9318

# Trichromacy



## Original Color

38.3070, 49.8169, 18.9059

## Protanomaly

42.1370, 49.1461, 17.8550

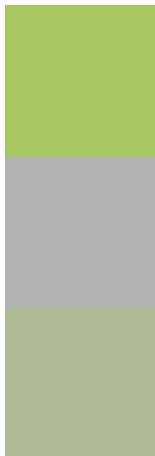
## Deuteranomaly

45.0360, 49.0170, 19.1442

## Tritanomaly

42.7872, 48.9406, 42.3133

# Monochromacy



## Original Color

38.3070, 49.8169, 18.9059

## Achromatopsia

42.3164, 44.5201, 48.4824

## Achromatomaly

40.4393, 46.2864, 35.2366

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.3070, 49.8169, 18.9059 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(166, 199, 97)` looks like.

```
.text, #text, p{  
    color:rgb(166, 199, 97)  
}
```

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(166, 199, 97) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(166, 199, 97) }
```

## Border

The CSS property to change the border of an element to XYZ 38.3070, 49.8169, 18.9059 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(166, 199, 97) }
```



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

```
.border{ border-color:rgb(166, 199, 97) }
```

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

Here you see how a box with a 4 pixel `rgb(166, 199, 97)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(166, 199, 97); -webkit-box-  
shadow:4px 4px 4px 4px rgb(166, 199, 97);  
box-shadow:4px 4px 4px 4px rgb(166, 199,  
97) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.3070, 49.8169, 18.9059 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(166, 199, 97) }
```

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

```
.background{ background-color: rgb(166,  
199, 97) }
```

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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