

# Converting Colors

XYZ(49.2839, 68.8244, 41.9193)

Have a look what the booklet for  
XYZ(49.2839, 68.8244, 41.9193)  
contains.

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# Color

**XYZ(49.4194, 68.8849,  
42.1439)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9CEB9C
RGB	156, 235, 156
RGB Percent	61%, 92%, 61%
CMY	0.3882, 0.0784, 0.3882
CMYK	0.34, 0.00, 0.34, 0.08
HSL	120°, 66%, 77%
HSV	120°, 34%, 92%
XYZ	49.4194, 68.8849, 42.1439
YIQ	202.3730, -21.7250, -41.3170

# Conversions

## Conversions Part 2

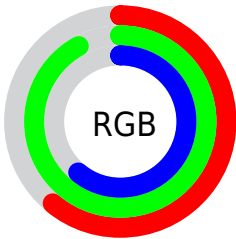
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">156, 235, 235</a>
Decimal	<a href="#">10283932</a>
CIELab	<a href="#">86.45, -39.52, 30.88</a>
CIElCh	<a href="#">86, 50.155, 142.000</a>
Yxy	<a href="#">68.8849, 0.3080, 0.4293</a>
Android (android.graphics.Color)	<a href="#">4288474012 (0xFF9CEB9C)</a>
YUV	<a href="#">202.3730, -22.8619, -40.6691</a>
Hunter-Lab	<a href="#">82.9969, -38.9592, 27.9918</a>

# Details

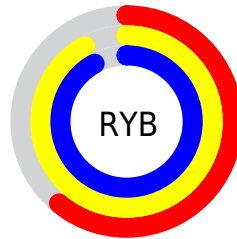
The XYZ color **49.4194, 68.8849, 42.1439** is a light color, and the websafe version is hex **99FF99**. A complement of this color would be **61.1471, 47.4387, 84.5338**, and the grayscale version is **56.5217, 59.4652, 64.7576**.

A 20% lighter version of the original color is **74.9584, 90.3693, 75.1203**, and **23.9856, 36.0064, 18.7825** is the 20% darker color. If you saturate the color by 10%, you get **43.5032, 66.0451, 32.4655**, and if you desaturate by 10%, it is **56.6039, 72.3380, 53.8940**.

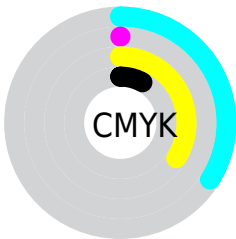
# Distribution



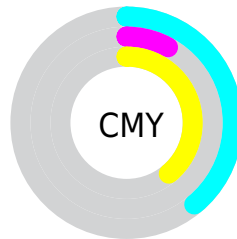
- Red (61%)
- Green (92%)
- Blue (61%)



- Red (61%)
- Yellow (92%)
- Blue (92%)



- Cyan (34%)
- Magenta (0%)
- Yellow (34%)
- Black (8%)




- Cyan (39%)
- Magenta (8%)
- Yellow (39%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.4194, 68.8849, 42.1439 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 49.4194, 68.8849, 42.1439 by changing the saturation by 10% instead.





 49.4194, 68.8849,  
42.1439


 49.4194, 68.8849,  
42.1439


374.8807,  
456.6249, 370.8964

 35.1682, 50.6180,  
28.8876


 88.5110, 117.6172,  
79.6898

 23.9596, 35.9047,  
18.7509

 114.0821,  
148.8513, 104.8165

 15.4282, 24.3606,  
11.3155


144.1573,  
185.1766, 134.7370

 9.2087, 15.6013,  
6.1626

179.1018,  
226.9775, 169.8699

 4.9358, 9.2425,  
2.8738

219.2810,  
274.6384, 210.6338

 2.2440, 4.8997,  
1.0306


265.0604,

 0.7658, 2.1885,


328.5437, 257.4471


0.0000


316.8051,  
389.0777, 310.7284


 0.0000, 0.7137,  
0.0000


 0.0000, 0.0000,  
0.0000


 49.4194, 68.8849,  
42.1439


 49.4194, 68.8849,  
42.1439


 43.5032, 66.0451,  
32.4655


 56.6039, 72.3380,  
53.8940


 38.7768, 63.7748,  
24.7346

 65.1187, 76.4281,  
67.8215

 35.1613, 62.0380,  
18.8206

 75.0281, 81.1881,  
84.0302

 32.5658, 60.7913,  
14.5752

 86.3909, 86.6463,  
102.6159

■ 30.8855, 59.9842,  
11.8267

■ 88.9997, 87.8994,  
106.8832

■ 29.9929, 59.5554,  
10.3666

■ 29.7097, 59.4194,  
9.9033

# Harmonies

## Analogous

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



57.4662, 68.8849, 29.9916



49.4194, 68.8849, 42.1439



45.7724, 68.8849, 66.4589

# Triad

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



49.4194, 68.8849, 42.1439



62.4171, 68.8849, 157.7334



88.4127, 68.8849, 53.5247

# Complementary

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



49.4194, 68.8849, 42.1439



61.1471, 47.4387, 84.5338

# 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.



90.1434, 68.8849, 84.2517



49.4194, 68.8849, 42.1439



74.1911, 68.8849, 151.2092

# Square

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



49.4194, 68.8849, 42.1439



52.6761, 68.8849, 137.4584



84.6736, 68.8849, 121.6172



80.1908, 68.8849, 35.0812



# Rectangle

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



49.4194, 68.8849, 42.1439



45.9857, 68.8849, 89.0881



84.6736, 68.8849, 121.6172



89.8091, 68.8849, 62.4884

# Sweetspot

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



49.4212, 68.8878, 42.1454



82.4457, 93.9455, 88.2835



69.9731, 79.4827, 43.1067



17.2975, 19.9404, 18.3250



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

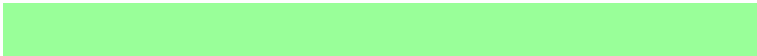


# Same Dimension

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



49.4212, 68.8878, 42.1454



54.6468, 80.5923, 42.8133



53.3275, 70.4504, 62.7160



14.8684, 16.8622, 15.9898



16.5341, 33.0681, 5.5114



1.2983, 2.5966, 0.4328



# Inverse Universe

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



61.1471, 47.4387, 84.5338



70.6810, 51.2624, 100.7758



56.0585, 45.4032, 57.7375



15.7149, 15.3138, 19.0498



27.4131, 13.1679, 44.8383



2.1526, 1.0340, 3.5209



# Previews

## White Background



This preview shows how the XYZ color 49.4194, 68.8849, 42.1439 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 49.4194, 68.8849, 42.1439 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 49.4194, 68.8849, 42.1439**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.4194, 68.8849, 42.1439.



This preview shows how white text looks on a background with the XYZ color 49.4194, 68.8849,



# 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

49.4194, 68.8849, 42.1439

### Protanopia

63.2500, 68.0626, 37.8207

### Deuteranopia

69.4659, 67.8221, 43.6121



## Tritanopia

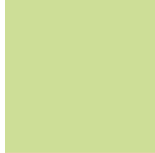
59.6959, 68.4928, 94.0785

# Trichromacy



## Original Color

49.4194, 68.8849, 42.1439



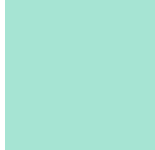
## Protanomaly

56.8840, 67.4561, 39.3004



## Deuteranomaly

60.0715, 67.0692, 43.0373



## Tritanomaly

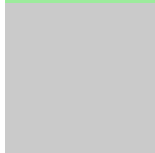
55.2272, 68.2969, 71.8999

# Monochromacy



## Original Color

49.4194, 68.8849, 42.1439



## Achromatopsia

56.1383, 59.0619, 64.3184



## Achromatomaly

52.8111, 61.9102, 55.0654

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.4194, 68.8849, 42.1439 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(156, 235, 156)` looks like.

```
.text, #text, p{  
    color:rgb(156, 235, 156)  
}
```

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(156, 235, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(156, 235, 156) }
```

## Border

The CSS property to change the border of an element to XYZ 49.4194, 68.8849, 42.1439 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(156, 235, 156) }
```



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

```
.border{ border-color:rgb(156, 235, 156) }
```

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

Here you see how a box with a 4 pixel `rgb(156, 235, 156)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(156, 235, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(156, 235, 156);  
box-shadow:4px 4px 4px 4px rgb(156, 235,  
156) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.4194, 68.8849, 42.1439 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(156, 235, 156) }
```

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

```
.background{ background-color: rgb(156,  
235, 156) }
```

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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