

# Converting Colors

XYZ(33.4659, 50.7137, 9.1235)

Have a look what the booklet for  
XYZ(33.4659, 50.7137, 9.1235)  
contains.

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# Color

**XYZ(33.4129, 50.6846,  
9.1207)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8BD01C
RGB	139, 208, 28
RGB Percent	55%, 82%, 11%
CMY	0.4549, 0.1843, 0.8901
CMYK	0.33, 0.00, 0.87, 0.18
HSL	83°, 76%, 46%
HSV	83°, 87%, 82%
XYZ	33.4129, 50.6846, 9.1207
YIQ	166.8490, 16.6560, -70.6080

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	28, 208, 97
Decimal	9162780
CIE Lab	76.49, -45.77, 71.95
CIE LCh	76, 85.277, 122.462
Yxy	50.6846, 0.3584, 0.5437
Android (android.graphics.Color)	4287352860 (0xFF8BD01C)
YUV	166.8490, -68.4526, -24.4236
Hunter-Lab	71.1931, -40.8130, 42.2394

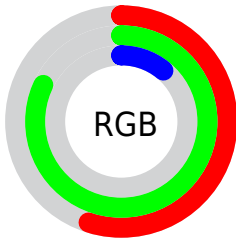
# Details

The XYZ color **33.4129, 50.6846, 9.1207** is a dark color, and the websafe version is hex **99CC00**.

The color can be described as dark washed chartreuse. A complement of this color would be **16.7329, 7.9277, 60.3258**, and the grayscale version is **36.9759, 38.9016, 42.3638**.

A 20% lighter version of the original color is **60.8063, 84.1985, 23.6368**, and **14.7846, 24.5318, 3.9559** is the 20% darker color. If you saturate the color by 10%, you get **31.9604, 49.9571, 8.1653**, and if you desaturate by 10%, it is **35.1353, 51.5348, 10.9804**.

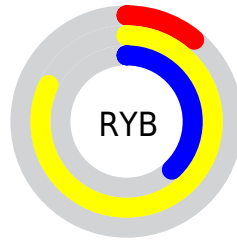
# Distribution



Red (55%)

Green (82%)

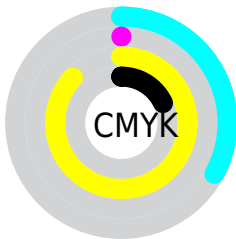
Blue (11%)



Red (11%)

Yellow (82%)

Blue (38%)

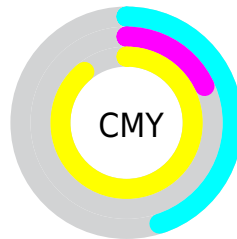


Cyan (33%)

Magenta (0%)

Yellow (87%)

Black (18%)



Cyan (45%)

Magenta (18%)

Yellow (89%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.4129, 50.6846, 9.1207 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 33.4129, 50.6846, 9.1207 by changing the saturation by 10% instead.



■ 33.4129, 50.6846,  
9.1207

■ 33.4129, 50.6846,  
9.1207

309.1384,  
389.3371, 194.5269

■ 22.6037, 35.9577,  
4.7221

■ 64.3700, 91.1884,  
24.7094

■ 14.4202, 24.4015,  
2.0293

■ 85.2486, 117.7340,  
36.7365

■ 8.4972, 15.6317,  
0.5732

■ 110.2144,  
148.9880, 52.1436

■ 4.4692, 9.2639,  
0.0000

■ 139.6327,  
185.3348, 71.3491

■ 1.9708, 4.9137,  
0.0000

■ 173.8689,  
227.1587, 94.7717

■ 0.6175, 2.1967,  
0.0000

■ 213.2884,

■ 0.0000, 0.7182,

274.8441, 122.8298

0.0000

258.2564,  
328.7755, 155.9420

■ 0.0000, 0.0000,  
0.0000

■ 33.4129, 50.6846,  
9.1207

■ 33.4129, 50.6846,  
9.1207

■ 31.9604, 49.9571,  
8.1653

■ 35.1353, 51.5348,  
10.9804

■ 31.4982, 49.7234,  
7.9374

■ 37.1579, 52.5148,  
13.9084

■ 39.5085, 53.6376,  
18.0362

■ 42.2102, 54.9128,  
23.4753

■ 45.2836, 56.3488,  
30.3246

■ 48.7474, 57.9532,  
38.6737

■ 52.6189, 59.7333,  
48.6044

■ 56.9142, 61.6955,  
60.1928

■ 61.6485, 63.8463,  
73.5101

# Harmonies

## Analogous

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



46.8582, 50.6846, 5.5742



33.4129, 50.6846, 9.1207



25.6323, 50.6846, 23.5392

# Triad

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



33.4129, 50.6846, 9.1207



35.2480, 50.6846, 176.8079



86.1322, 50.6846, 51.4699

# Complementary

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



33.4129, 50.6846, 9.1207



16.7329, 7.9277, 60.3258

# 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.



81.1154, 50.6846, 107.0766



33.4129, 50.6846, 9.1207



49.5146, 50.6846, 199.3234

# Square

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



33.4129, 50.6846, 9.1207



26.5143, 50.6846, 117.6559



66.7459, 50.6846, 168.6696



79.2501, 50.6846, 19.9999



# Rectangle

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



33.4129, 50.6846, 9.1207



23.5660, 50.6846, 44.3681



66.7459, 50.6846, 168.6696



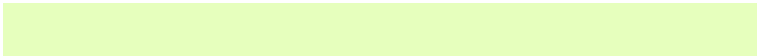
85.7812, 50.6846, 67.6353

# Sweetspot

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



33.4141, 50.6868, 9.1218



77.4119, 91.9350, 61.6387



30.4990, 22.0456, 3.7471



16.1408, 19.4799, 12.1364



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.



33.4141, 50.6868, 9.1218



49.7111, 78.7121, 12.5729



24.0339, 45.8512, 8.6828



12.3462, 13.5619, 12.5790



19.7412, 31.0459, 4.9520



1.1909, 1.7808, 0.2810



# Inverse Universe

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



16.7329, 7.9277, 60.3258



23.0614, 9.8034, 95.2845



32.2962, 15.9509, 61.0542



11.5860, 11.6354, 14.8789



9.2444, 3.9460, 37.4669



0.6044, 0.2657, 2.0990



# Previews

## White Background



This preview shows how the XYZ color 33.4129, 50.6846, 9.1207 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 33.4129, 50.6846, 9.1207 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

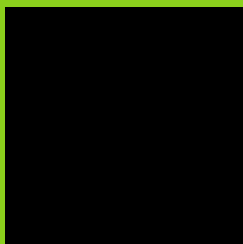
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 33.4129, 50.6846, 9.1207**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.4129, 50.6846, 9.1207.



This preview shows how white text looks on a background with the XYZ color 33.4129, 50.6846,



# 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

33.4129, 50.6846, 9.1207

### Protanopia

45.2794, 50.0214, 8.0277

### Deuteranopia

51.0460, 49.8871, 9.7351



## **Tritanopia**

45.0758, 50.2170, 67.6387

# Trichromacy



## Original Color

33.4129, 50.6846, 9.1207

## Protanomaly

39.6876, 49.4104, 8.3096

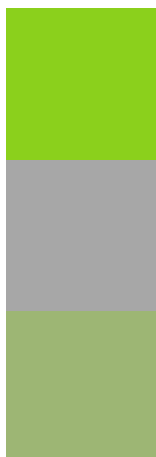
## Deuteranomaly

42.6852, 48.9728, 9.3008

## Tritanomaly

38.1009, 49.0467, 33.4454

# Monochromacy



## Original Color

33.4129, 50.6846, 9.1207

## Achromatopsia

36.7301, 38.6429, 42.0822

## Achromatomaly

33.7850, 41.8849, 22.8269

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.4129, 50.6846, 9.1207 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(139, 208, 28)` looks like.

```
.text, #text, p{  
    color:rgb(139, 208, 28)  
}
```

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(139, 208, 28) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(139, 208, 28) }
```

## Border

The CSS property to change the border of an element to XYZ 33.4129, 50.6846, 9.1207 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(139, 208, 28) }
```



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

```
.border{ border-color:rgb(139, 208, 28) }
```

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

Here you see how a box with a 4 pixel `rgb(139, 208, 28)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(139, 208, 28); -webkit-box-  
shadow:4px 4px 4px 4px rgb(139, 208, 28);  
box-shadow:4px 4px 4px 4px rgb(139, 208,  
28) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.4129, 50.6846, 9.1207 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(139, 208, 28) }
```

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

```
.background{ background-color: rgb(139,  
208, 28) }
```

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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