

# Converting Colors

XYZ(49.9426, 78.3659, 33.6130)

Have a look what the booklet for  
XYZ(49.9426, 78.3659, 33.6130)  
contains.

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# Color

**XYZ(49.9426, 78.3659,  
33.6130)**

# Conversions

## Conversions Part 1

Format	Color
Hex	88FF82
RGB	136, 255, 130
RGB Percent	53%, 100%, 51%
CMY	0.4667, 0.0000, 0.4902
CMYK	0.47, 0.00, 0.49, 0.00
HSL	117°, 100%, 75%
HSV	117°, 49%, 100%
XYZ	49.9426, 78.3659, 33.6130
YIQ	205.1690, -30.7990, -64.1030

# Conversions

## Conversions Part 2

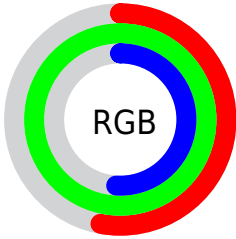
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">130, 255, 249</a>
Decimal	<a href="#">8978306</a>
CIELab	<a href="#">90.95, -57.50, 49.22</a>
CIELCh	<a href="#">91, 75.693, 139.438</a>
Yxy	<a href="#">78.3659, 0.3084, 0.4840</a>
Android (android.graphics.Color)	<a href="#">4287168386 (0xFF88FF82)</a>
YUV	<a href="#">205.1690, -37.0583, -60.6612</a>
Hunter-Lab	<a href="#">88.5245, -54.2141, 39.4546</a>

# Details

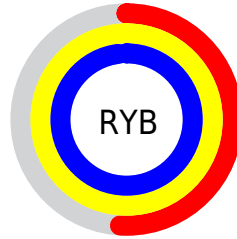
The XYZ color **49.9426, 78.3659, 33.6130** is a light color, and the websafe version is hex **99FF99**. A complement of this color would be **65.1009, 43.3264, 99.5394**, and the grayscale version is **58.3784, 61.4186, 66.8848**.

A 20% lighter version of the original color is **67.0226, 86.6249, 59.0868**, and **24.2075, 41.9642, 13.8452** is the 20% darker color. If you saturate the color by 10%, you get **44.9314, 75.9564, 25.5241**, and if you desaturate by 10%, it is **56.2715, 81.4057, 43.9796**.

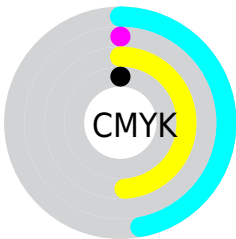
# Distribution



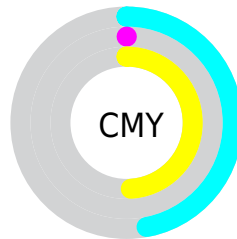
- Red (53%)
- Green (100%)
- Blue (51%)



- Red (51%)
- Yellow (100%)
- Blue (98%)



- Cyan (47%)
- Magenta (0%)
- Yellow (49%)
- Black (0%)




- Cyan (47%)
- Magenta (0%)
- Yellow (49%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.9426, 78.3659, 33.6130 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 49.9426, 78.3659, 33.6130 by changing the saturation by 10% instead.





 49.9426, 78.3659,  
33.6130

 49.9426, 78.3659,  
33.6130


376.8971,  
489.4086, 333.1193


 35.5854, 58.3746,  
22.3215


 89.2822, 131.0658,  
66.4584

 24.2828, 42.1099,  
13.8928


 114.9952,  
164.5432, 88.8494

 15.6694, 29.1873,  
7.9082


 145.2243,  
203.2847, 115.7773

 9.3799, 19.2226,  
3.9493

180.3347,  
247.6748, 147.6606

 5.0489, 11.8312,  
1.5976

220.6919,  
298.0979, 184.9180

 2.3110, 6.6289,  
0.2891

266.6611,

 0.8003, 3.2311,

354.9382, 227.9678

0.0000

318.6077,  
418.5803, 277.2288

0.0000, 1.2535,  
0.0000

0.0000, 0.1048,  
0.0000

49.9426, 78.3659,  
33.6130

49.9426, 78.3659,  
33.6130

44.9314, 75.9564,  
25.5241

56.2715, 81.4057,  
43.9796

41.1438, 74.1324,  
19.5383

64.0010, 85.1152,  
56.7736

38.4751, 72.8441,  
15.4617

73.2084, 89.5313,  
72.1365

36.8024, 72.0331,  
13.0629

83.9652, 94.6880,  
90.1977

■ 35.9646, 71.6239, 95.0500, 100.0000,  
12.0012 108.9000

■ 35.9149, 71.5999,  
11.9273

# Harmonies

## Analogous

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



62.9292, 78.3659, 19.6446



49.9426, 78.3659, 33.6130



43.9239, 78.3659, 67.4785

# Triad

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



49.9426, 78.3659, 33.6130



67.9592, 78.3659, 235.9222



114.7185, 78.3659, 54.9174

# Complementary

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



49.9426, 78.3659, 33.6130



65.1009, 43.3264, 99.5394

# 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.



116.6897, 78.3659, 106.0745



49.9426, 78.3659, 33.6130



87.3741, 78.3659, 227.7278

# Square

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



49.9426, 78.3659, 33.6130



53.0820, 78.3659, 192.6412



105.9806, 78.3659, 173.5220



100.9821, 78.3659, 27.8047



# Rectangle

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



49.9426, 78.3659, 33.6130



43.8360, 78.3659, 103.7439



105.9806, 78.3659, 173.5220



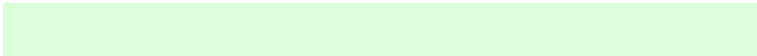
116.8584, 78.3659, 69.2301

# Sweetspot

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



49.9430, 78.3661, 33.6142



77.3407, 91.5126, 79.0627



79.0680, 90.4688, 34.4152



16.0833, 19.3618, 16.1332



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.



49.9430, 78.3661, 33.6142



44.9394, 75.9603, 25.5369



53.8562, 79.8220, 59.1636



17.8522, 20.2097, 19.1043



18.8002, 37.4300, 6.2338



1.8576, 3.6584, 0.6082



# Inverse Universe

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



65.1009, 43.3264, 99.5394



61.6898, 37.1482, 98.5267



59.5031, 41.3382, 58.7246



18.7015, 18.2534, 22.7875



28.7403, 13.7267, 50.5693

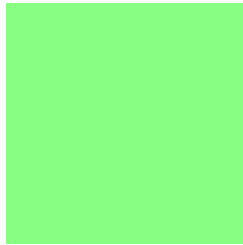


2.8238, 1.3497, 4.9249



# Previews

## White Background



This preview shows how the XYZ color 49.9426, 78.3659, 33.6130 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

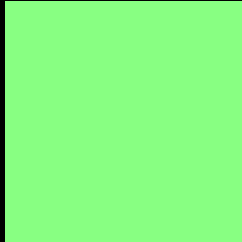
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.9426, 78.3659, 33.6130 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 49.9426, 78.3659, 33.6130**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.9426, 78.3659, 33.6130.



This preview shows how white text looks on a background with the XYZ color 49.9426, 78.3659,



# 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

49.9426, 78.3659, 33.6130

### Protanopia

70.9172, 77.3521, 28.9620

### Deuteranopia

76.2242, 77.0477, 57.3086



## Tritanopia

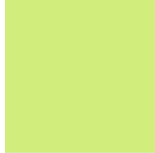
66.5957, 78.0670, 106.1662

# Trichromacy



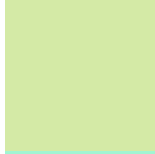
## Original Color

49.9426, 78.3659, 33.6130



## Protanomaly

60.5071, 76.1596, 30.5800



## Deuteranomaly

63.4571, 75.5959, 47.3233



## Tritanomaly

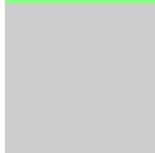
58.9832, 77.5350, 72.8298

# Monochromacy



## Original Color

49.9426, 78.3659, 33.6130



## Achromatopsia

58.0276, 61.0496, 66.4830



## Achromatomaly

53.2459, 65.6930, 51.9931

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.9426, 78.3659, 33.6130 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(136, 255, 130)` looks like.

```
.text, #text, p{  
    color:rgb(136, 255, 130)  
}
```

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(136, 255, 130) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 255, 130) }
```

## Border

The CSS property to change the border of an element to XYZ 49.9426, 78.3659, 33.6130 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(136, 255, 130) }
```



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

```
.border{ border-color:rgb(136, 255, 130) }
```

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

Here you see how a box with a 4 pixel `rgb(136, 255, 130)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(136, 255, 130); -webkit-box-  
shadow:4px 4px 4px 4px rgb(136, 255, 130);  
box-shadow:4px 4px 4px 4px rgb(136, 255,  
130) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.9426, 78.3659, 33.6130 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(136, 255, 130) }
```

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

```
.background{ background-color: rgb(136,  
255, 130) }
```

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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