

# Converting Colors

XYZ(49.7389, 78.5169, 22.0405)

Have a look what the booklet for  
XYZ(49.7389, 78.5169, 22.0405)  
contains.

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# Color

**XYZ(49.7759, 78.5372,  
21.9869)**

# Conversions

## Conversions Part 1

Format	Color
Hex	94FF59
RGB	148, 255, 89
RGB Percent	58%, 100%, 35%
CMY	0.4196, 0.0000, 0.6510
CMYK	0.42, 0.00, 0.65, 0.00
HSL	99°, 100%, 67%
HSV	99°, 65%, 100%
XYZ	49.7759, 78.5372, 21.9869
YIQ	204.0830, -10.4860, -74.3100

# Conversions

## Conversions Part 2

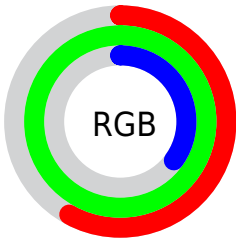
<b>Format</b>	<b>Color</b>
<b>RYB</b>	89, 255, 196
Decimal	9764697
CIELab	91.02, -58.29, 67.19
CIElCh	91, 88.949, 130.943
Yxy	78.5372, 0.3312, 0.5225
Android (android.graphics.Color)	4287954777 (0xFF94FF59)
YUV	204.0830, -56.7359, -49.1848
Hunter-Lab	88.6212, -54.8290, 47.3250

# Details

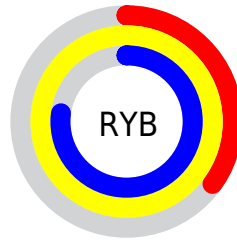
The XYZ color **49.7759, 78.5372, 21.9869** is a light color, and the websafe version is hex **99FF66**. The color can be described as light muted chartreuse. A complement of this color would be **44.3892, 26.1021, 97.3064**, and the grayscale version is **57.7993, 60.8093, 66.2214**.

A 20% lighter version of the original color is **66.8833, 86.9742, 40.0506**, and **24.0616, 42.0247, 7.7076** is the 20% darker color. If you saturate the color by 10%, you get **46.1188, 76.7549, 17.1615**, and if you desaturate by 10%, it is **54.2263, 80.6855, 28.7866**.

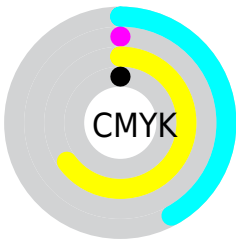
# Distribution



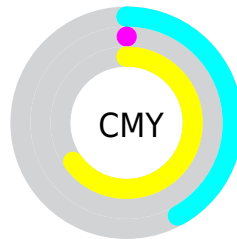
- Red (58%)
- Green (100%)
- Blue (35%)



- Red (35%)
- Yellow (100%)
- Blue (77%)



- Cyan (42%)
- Magenta (0%)
- Yellow (65%)
- Black (0%)




- Cyan (42%)
- Magenta (0%)
- Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.7759, 78.5372, 21.9869 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 49.7759, 78.5372, 21.9869 by changing the saturation by 10% instead.





 49.7759, 78.5372,  
21.9869


 49.7759, 78.5372,  
21.9869


376.2554,  
489.9893, 275.4291

 35.4524, 58.5154,  
13.6490


 89.0366, 131.3071,  
47.6263


 24.1797, 42.2231,  
7.7410


 114.7045,  
164.8240, 65.7648

 15.5925, 29.2760,  
3.8443


 144.8846,  
203.6081, 88.0074

 9.3252, 19.2897,  
1.5403

 179.9422,  
248.0437, 114.7725

 5.0127, 11.8798,  
0.2477

220.2428,  
298.5152, 146.4787

 2.2896, 6.6619,  
0.0000

266.1516,

 0.7893, 3.2516,

355.4070, 183.5445

0.0000

318.0340,  
419.1036, 226.3885

0.0000, 1.2644,  
0.0000

0.0000, 0.1134,  
0.0000

49.7759, 78.5372,  
21.9869

49.7759, 78.5372,  
21.9869

46.1188, 76.7549,  
17.1615

54.2263, 80.6855,  
28.7866

43.1966, 75.3133,  
14.0944

59.5206, 83.2222,  
37.7394

40.9410, 74.1829,  
12.5252

65.7053, 86.1675,  
49.0078

40.0377, 73.7252,  
12.1202

72.8229, 89.5402,  
62.7380

■ 80.9130, 93.3579,  
79.0640

■ 90.0129, 97.6369,  
98.1101

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



66.7467, 78.5372, 12.4962



49.7759, 78.5372, 21.9869



40.8202, 78.5372, 51.1578

# Triad

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



49.7759, 78.5372, 21.9869



61.4175, 78.5372, 263.7451



125.5744, 78.5372, 64.1210

# Complementary

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



49.7759, 78.5372, 21.9869



44.3892, 26.1021, 97.3064

# 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.



123.3508, 78.5372, 132.5798



49.7759, 78.5372, 21.9869



83.1478, 78.5372, 273.4581

# Square

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



49.7759, 78.5372, 21.9869



46.5506, 78.5372, 194.8459



106.6693, 78.5372, 217.0660



112.2449, 78.5372, 27.3791



# Rectangle

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



49.7759, 78.5372, 21.9869



39.2618, 78.5372, 87.5649



106.6693, 78.5372, 217.0660



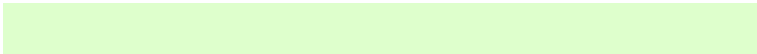
126.6799, 78.5372, 83.4947

# Sweetspot

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



49.7761, 78.5372, 21.9881



76.8217, 91.4290, 70.7254



62.3653, 60.6252, 17.8672



15.9642, 19.3435, 14.1771



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.



49.7761, 78.5372, 21.9881



45.1973, 76.3024, 16.0999



42.7572, 74.7948, 27.2621



18.3807, 20.4822, 19.1290



21.0672, 38.5986, 6.3399



2.1649, 3.8168, 0.6226



# Inverse Universe

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



44.3892, 26.1021, 97.3064



39.3108, 20.2868, 96.4516



59.5018, 34.2812, 80.4723



18.1296, 17.9585, 22.7608



17.6400, 8.0042, 50.0498

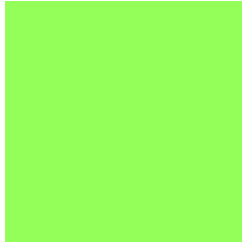


1.8365, 0.8407, 4.8787



# Previews

## White Background



This preview shows how the XYZ color 49.7759, 78.5372, 21.9869 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

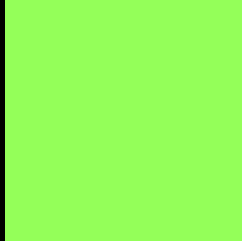
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.7759, 78.5372, 21.9869 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

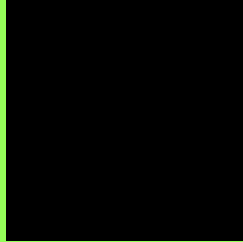
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

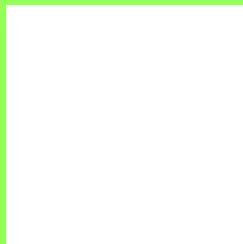
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 49.7759, 78.5372, 21.9869**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.7759, 78.5372, 21.9869.



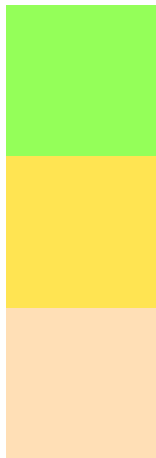
This preview shows how white text looks on a background with the XYZ color 49.7759, 78.5372,



# 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

49.7759, 78.5372, 21.9869

### Protanopia

70.5064, 77.3560, 19.1978

### Deuteranopia

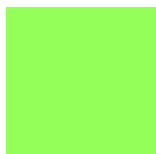
76.0712, 77.4128, 55.1887



## Tritanopia

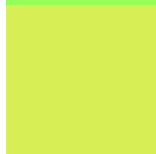
67.6806, 78.1928, 106.1333

# Trichromacy



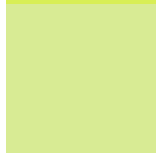
## Original Color

49.7759, 78.5372, 21.9869



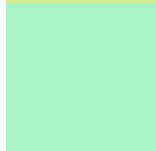
## Protanomaly

60.5331, 76.4039, 20.1513



## Deuteranomaly

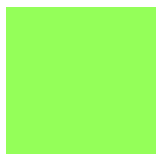
63.3725, 76.1537, 39.3760



## Tritanomaly

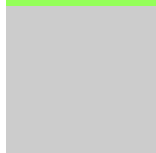
58.5632, 77.0765, 63.4204

# Monochromacy



## Original Color

49.7759, 78.5372, 21.9869



## Achromatopsia

57.3938, 60.3827, 65.7568



## Achromatomaly

52.6764, 65.5743, 44.0632

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.7759, 78.5372, 21.9869 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(148, 255, 89)` looks like.

```
.text, #text, p{  
    color:rgb(148, 255, 89)  
}
```

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(148, 255, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(148, 255, 89) }
```

## Border

The CSS property to change the border of an element to XYZ 49.7759, 78.5372, 21.9869 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(148, 255, 89) }
```



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

```
.border{ border-color:rgb(148, 255, 89) }
```

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

Here you see how a box with a 4 pixel `rgb(148, 255, 89)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(148, 255, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(148, 255, 89);  
box-shadow:4px 4px 4px 4px rgb(148, 255,  
89) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.7759, 78.5372, 21.9869 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(148, 255, 89) }
```

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

```
.background{ background-color: rgb(148,  
255, 89) }
```

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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