

# Converting Colors

XYZ(49.9412, 78.7516, 16.1557)

Have a look what the booklet for  
XYZ(49.9412, 78.7516, 16.1557)  
contains.

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# Color

**XYZ(49.9672, 78.7644,  
16.1839)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9BFF37
RGB	155, 255, 55
RGB Percent	61%, 100%, 22%
CMY	0.3922, 0.0000, 0.7843
CMYK	0.39, 0.00, 0.78, 0.00
HSL	90°, 100%, 61%
HSV	90°, 78%, 100%
XYZ	49.9672, 78.7644, 16.1839
YIQ	202.3000, 4.6000, -83.4000

# Conversions

## Conversions Part 2

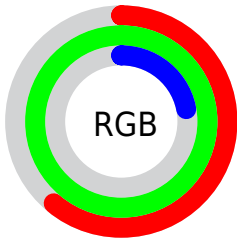
<b>Format</b>	<b>Color</b>
<b>RYB</b>	55, 255, 155
Decimal	10223415
CIELab	91.13, -58.22, 78.76
CIElCh	91, 97.941, 126.471
Yxy	78.7644, 0.3448, 0.5435
Android (android.graphics.Color)	4288413495 (0xFF9BFF37)
YUV	202.3000, -72.6189, -41.4821
Hunter-Lab	88.7493, -54.8131, 51.3127

# Details

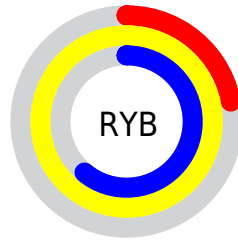
The XYZ color **49.9672, 78.7644, 16.1839** is a light color, and the websafe version is hex **99FF33**. The color can be described as light washed chartreuse. A complement of this color would be **32.9359, 16.9227, 96.1382**, and the grayscale version is **56.7646, 59.7208, 65.0360**.

A 20% lighter version of the original color is **67.3489, 87.4269, 30.4650**, and **24.5823, 42.3122, 6.8714** is the 20% darker color. If you saturate the color by 10%, you get **47.1863, 77.3841, 13.6453**, and if you desaturate by 10%, it is **53.3222, 80.4042, 20.3976**.

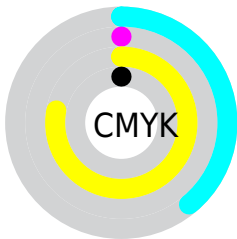
# Distribution



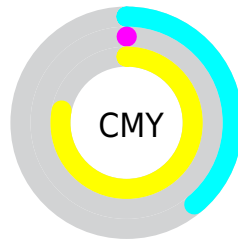
- Red (61%)
- Green (100%)
- Blue (22%)



- Red (22%)
- Yellow (100%)
- Blue (61%)



- Cyan (39%)
- Magenta (0%)
- Yellow (78%)
- Black (0%)




- Cyan (39%)
- Magenta (0%)
- Yellow (78%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.9672, 78.7644, 16.1839 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 49.9672, 78.7644, 16.1839 by changing the saturation by 10% instead.





 49.9672, 78.7644,  
16.1839


 49.9672, 78.7644,  
16.1839


376.9918,  
490.7590, 242.3071

 35.6050, 58.7021,  
9.4986


 89.3184, 131.6271,  
37.6884


 24.2980, 42.3734,  
4.9666


 115.0381,  
165.1964, 53.3447


 15.6808, 29.3938,  
2.1693


 145.2744,  
204.0367, 72.8284

 9.3879, 19.3789,  
0.6566

 180.3926,  
248.5326, 96.5581

 5.0542, 11.9444,  
0.0000

 220.7581,  
299.0683, 124.9522

 2.3142, 6.7058,  
0.0000

266.7362,

 0.8019, 3.2788,

356.0284, 158.4294

0.0000

318.6923,  
419.7971, 197.4082

■ 0.0000, 1.2790,  
0.0000

■ 0.0000, 0.1248,  
0.0000

■ 49.9672, 78.7644,  
16.1839

■ 49.9672, 78.7644,  
16.1839

■ 47.1863, 77.3841,  
13.6453

■ 53.3222, 80.4042,  
20.3976

■ 44.9112, 76.2351,  
12.4629

■ 57.3012, 82.3243,  
26.5082

■ 44.5862, 76.0701,  
12.3331

■ 61.9479, 84.5431,  
34.7075

■ 67.3008, 87.0768,  
45.1626

■ 73.3953, 89.9402,  
58.0241

■ 80.2640, 93.1473,  
73.4291

■ 87.9372, 96.7109,  
91.5048

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.



69.6218, 78.7644, 9.0822



49.9672, 78.7644, 16.1839



39.1302, 78.7644, 42.0131

# Triad

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



49.9672, 78.7644, 16.1839



57.4109, 78.7644, 281.5148



132.8728, 78.7644, 71.2860

# Complementary

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



49.9672, 78.7644, 16.1839



32.9359, 16.9227, 96.1382

# 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.



127.5836, 78.7644, 152.5675



49.9672, 78.7644, 16.1839



80.3613, 78.7644, 305.2875

# Square

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



49.9672, 78.7644, 16.1839



42.7183, 78.7644, 195.1025



106.8993, 78.7644, 248.9017



120.0760, 78.7644, 27.5414



# Rectangle

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



49.9672, 78.7644, 16.1839



36.6723, 78.7644, 77.6346



106.8993, 78.7644, 248.9017



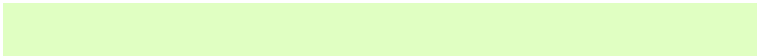
133.1855, 78.7644, 94.4356

# Sweetspot

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



49.9674, 78.7645, 16.1851



76.3393, 91.3171, 64.5237



53.6519, 44.9801, 9.4698



15.8301, 19.3073, 12.6828



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.



49.9674, 78.7645, 16.1851



45.8633, 76.7183, 12.8541



38.0258, 72.6084, 15.6262



18.6369, 20.6142, 19.1410



23.4694, 39.8370, 6.4523



2.4111, 3.9437, 0.6341



# Inverse Universe

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



32.9359, 16.9227, 96.1382



28.2418, 12.7340, 95.5771



60.6566, 31.2132, 97.4355



17.8684, 17.8239, 22.7485



14.2165, 6.2393, 49.8896

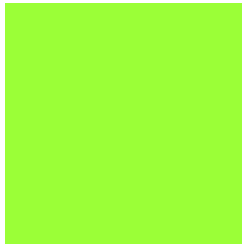


1.5101, 0.6724, 4.8635



# Previews

## White Background



This preview shows how the XYZ color 49.9672, 78.7644, 16.1839 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

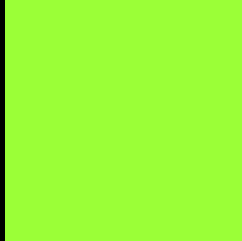
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.9672, 78.7644, 16.1839 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

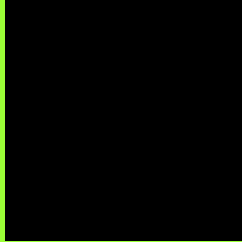
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

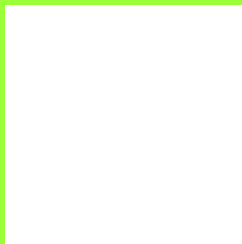
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 49.9672, 78.7644, 16.1839**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.9672, 78.7644, 16.1839.



This preview shows how white text looks on a background with the XYZ color 49.9672, 78.7644,



# 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

49.9672, 78.7644, 16.1839

### Protanopia

70.6345, 77.8487, 18.5112

### Deuteranopia

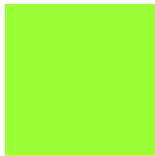
75.9682, 77.3715, 54.6463



## Tritanopia

68.5839, 78.2275, 106.0924

# Trichromacy



## Original Color

49.9672, 78.7644, 16.1839



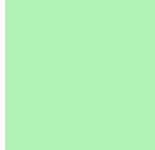
## Protanomaly

60.8934, 76.6513, 17.3801



## Deuteranomaly

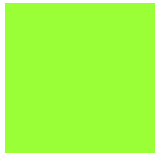
63.2949, 76.2260, 34.2988



## Tritanomaly

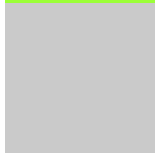
58.4734, 77.1927, 56.0738

# Monochromacy



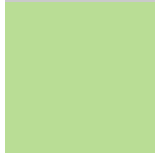
## Original Color

49.9672, 78.7644, 16.1839



## Achromatopsia

56.1383, 59.0619, 64.3184



## Achromatomaly

51.2889, 64.1971, 38.1218

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.9672, 78.7644, 16.1839 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(155, 255, 55)` looks like.

```
.text, #text, p{  
    color:rgb(155, 255, 55)  
}
```

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(155, 255, 55) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(155, 255, 55) }
```

## Border

The CSS property to change the border of an element to XYZ 49.9672, 78.7644, 16.1839 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(155, 255, 55) }
```



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

```
.border{ border-color:rgb(155, 255, 55) }
```

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

Here you see how a box with a 4 pixel `rgb(155, 255, 55)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(155, 255, 55); -webkit-box-  
shadow:4px 4px 4px 4px rgb(155, 255, 55);  
box-shadow:4px 4px 4px 4px rgb(155, 255,  
55) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.9672, 78.7644, 16.1839 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(155, 255, 55) }
```

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

```
.background{ background-color: rgb(155,  
255, 55) }
```

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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