

Converting Colors

XYZ(49.8209, 77.9384, 33.3399)

Have a look what the booklet for
XYZ(49.8209, 77.9384, 33.3399)
contains.

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Color

**XYZ(49.7208, 77.7870,
33.1627)**

Conversions

Conversions Part 1

Format	Color
Hex	89FE81
RGB	137, 254, 129
RGB Percent	54%, 100%, 51%
CMY	0.4627, 0.0039, 0.4941
CMYK	0.46, 0.00, 0.49, 0.00
HSL	116°, 98%, 75%
HSV	116°, 49%, 100%
XYZ	49.7208, 77.7870, 33.1627
YIQ	204.7670, -29.6070, -63.6790

Conversions

Conversions Part 2

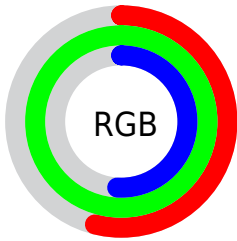
Format	Color
RYB	129, 254, 246
Decimal	9043585
CIELab	90.68, -56.96, 49.37
CIELCh	91, 75.383, 139.084
Yxy	77.7870, 0.3095, 0.4841
Android (android.graphics.Color)	4287233665 (0xFF89FE81)
YUV	204.7670, -37.3531, -59.4317
Hunter-Lab	88.1969, -53.7157, 39.4444

Details

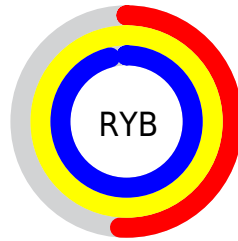
The XYZ color **49.7208, 77.7870, 33.1627** is a light color, and the websafe version is hex **99FF99**. A complement of this color would be **63.7496, 42.4517, 98.6041**, and the grayscale version is **58.1253, 61.1523, 66.5949**.

A 20% lighter version of the original color is **67.1767, 86.7165, 58.5448**, and **24.0249, 41.5382, 13.5889** is the 20% darker color. If you saturate the color by 10%, you get **44.7610, 75.4039, 25.1865**, and if you desaturate by 10%, it is **55.9627, 80.7872, 43.3925**.

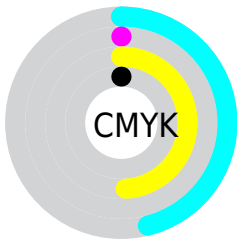
Distribution



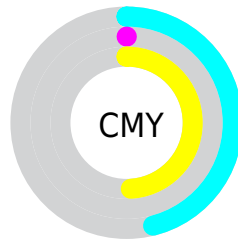
- Red (54%)
- Green (100%)
- Blue (51%)



- Red (51%)
- Yellow (100%)
- Blue (96%)



- Cyan (46%)
- Magenta (0%)
- Yellow (49%)
- Black (0%)





- Cyan (46%)
- Magenta (0%)
- Yellow (49%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 49.7208, 77.7870, 33.1627 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 49.7208, 77.7870, 33.1627 by changing the saturation by 10% instead.

 49.7208, 77.7870,
33.1627


 49.7208, 77.7870,
33.1627


376.0432,
487.4431, 331.0367


 35.4085, 57.8990,
21.9790


 88.9554, 130.2498,
65.7484

 24.1457, 41.7275,
13.6433


 114.6083,
163.5934, 87.9874

 15.5671, 28.8880,
7.7371


 144.7722,
202.1911, 114.7487

 9.3072, 18.9961,
3.8418

179.8124,
246.4271, 146.4507

 5.0008, 11.6674,
1.5390

220.0942,
296.6859, 183.5119

 2.2825, 6.5177,
0.2467

265.9831,

 0.7857, 3.1623,

353.3520, 226.3510

0.0000

317.8443,
416.8096, 275.3864

0.0000, 1.2171,
0.0000

0.0000, 0.0756,
0.0000

49.7208, 77.7870,
33.1627

49.7208, 77.7870,
33.1627

44.7610, 75.4039,
25.1865

55.9627, 80.7872,
43.3925

40.9889, 73.5859,
19.2890

63.5613, 84.4327,
56.0227

38.3063, 72.2890,
15.2785

72.5921, 88.7618,
71.1941

36.5966, 71.4579,
12.9253

83.1235, 93.8070,
89.0349

■ 35.7061, 71.0210,
11.8840

94.7334, 99.3668,
108.7945

■ 35.6614, 70.9992,
11.8247

Harmonies

Analogous

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



62.6719, 77.7870, 19.4802



49.7208, 77.7870, 33.1627



43.6700, 77.7870, 66.4674

Triad

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



49.7208, 77.7870, 33.1627



67.2600, 77.7870, 233.6134



113.8951, 77.7870, 55.0084

Complementary

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



49.7208, 77.7870, 33.1627



63.7496, 42.4517, 98.6041

Split Complementary

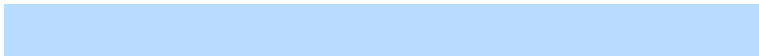
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



115.6923, 77.7870, 105.9873



49.7208, 77.7870, 33.1627



86.4709, 77.7870, 226.1445

Square

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



49.7208, 77.7870, 33.1627



52.5850, 77.7870, 190.2740



104.9552, 77.7870, 172.8454



100.3973, 77.7870, 27.8604

Rectangle

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



49.7208, 77.7870, 33.1627



43.5280, 77.7870, 102.2241



104.9552, 77.7870, 172.8454



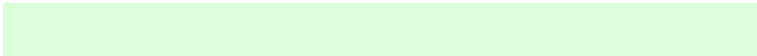
115.9647, 77.7870, 69.2971

Sweetspot

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



49.7227, 77.7903, 33.1644



77.5247, 91.6074, 79.0713



77.6935, 88.3687, 33.7321



16.1269, 19.3842, 16.1352



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

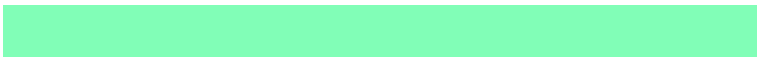
The Same Dimension uses a secret algorithm to generate beautiful new colors.



49.7227, 77.7903, 33.1644



45.2490, 76.1199, 25.5514



53.0622, 78.9802, 57.3410



17.8791, 20.2236, 19.1055



18.8403, 37.4506, 6.2357



1.8704, 3.6650, 0.6088

Inverse Universe

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



63.7496, 42.4517, 98.6041



60.8429, 36.7116, 98.4870



59.1319, 40.9357, 59.3289



18.6711, 18.2377, 22.7861



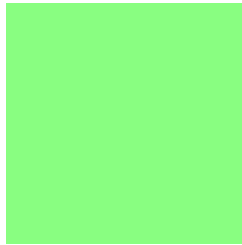
28.0252, 13.3580, 50.5358



2.7620, 1.3178, 4.9221

Previews

White Background



This preview shows how the XYZ color 49.7208, 77.7870, 33.1627 looks on a white background.

Color Contrast Check

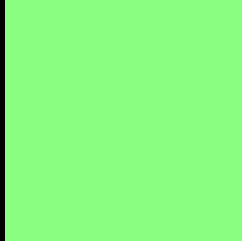
Large Text (above 18pt) WCAG AA × Fail

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 49.7208, 77.7870, 33.1627 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

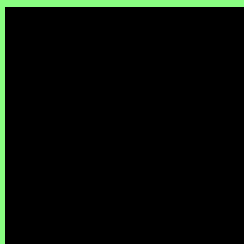
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 49.7208, 77.7870, 33.1627

Background



This preview shows how black text looks on a background with the XYZ color 49.7208, 77.7870, 33.1627.

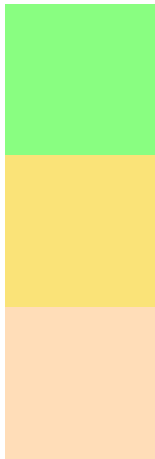


This preview shows how white text looks on a background with the XYZ color 49.7208, 77.7870,

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

49.7208, 77.7870, 33.1627

Protanopia

70.2836, 76.6182, 28.8538

Deuteranopia

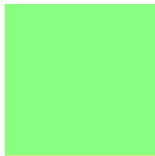
75.7482, 76.4336, 56.1082



Tritanopia

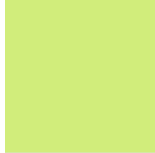
65.8581, 77.2533, 106.0480

Trichromacy



Original Color

49.7208, 77.7870, 33.1627



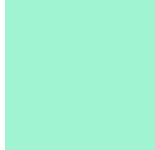
Protanomaly

60.1538, 75.5537, 30.1518



Deuteranomaly

62.9911, 74.9552, 46.2698



Tritanomaly

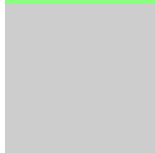
58.3565, 76.7784, 72.0656

Monochromacy



Original Color

49.7208, 77.7870, 33.1627



Achromatopsia

58.0276, 61.0496, 66.4830



Achromatomaly

53.1459, 65.6530, 51.4662

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.7208, 77.7870, 33.1627 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(137, 254, 129)` looks like.

```
.text, #text, p{  
    color:rgb(137, 254, 129)  
}
```

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(137, 254, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 254, 129) }
```

Border

The CSS property to change the border of an element to XYZ 49.7208, 77.7870, 33.1627 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(137, 254, 129) }
```


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

```
.border{ border-color:rgb(137, 254, 129) }
```

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

Here you see how a box with a 4 pixel `rgb(137, 254, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 254, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 254, 129);  
box-shadow:4px 4px 4px 4px rgb(137, 254,  
129) }
```

Background

The CSS property to change the background color of an element to XYZ 49.7208, 77.7870, 33.1627 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 254, 129) }
```

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

```
.background{ background-color: rgb(137,  
254, 129) }
```

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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