

Converting Colors

XYZ(49.7963, 78.7560, 12.5769)

Have a look what the booklet for
XYZ(49.7963, 78.7560, 12.5769)
contains.

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Color

**XYZ(49.8606, 78.7891,
12.5799)**

Conversions

Conversions Part 1

Format	Color
Hex	9EFF00
RGB	158, 255, 0
RGB Percent	62%, 100%, 0%
CMY	0.3804, 0.0000, 0.9998
CMYK	0.38, 0.00, 1.00, 0.00
HSL	83°, 100%, 50%
HSV	83°, 100%, 100%
XYZ	49.8606, 78.7891, 12.5799
YIQ	196.9270, 24.0430, -99.8690

Conversions

Conversions Part 2

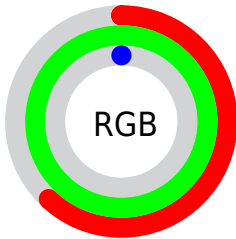
Format	Color
RYB	0, 255, 97
Decimal	10419968
CIELab	91.14, -58.55, 87.31
CIELCh	91, 105.128, 123.847
Yxy	78.7891, 0.3530, 0.5579
Android (android.graphics.Color)	4288610048 (0xFF9EFF00)
YUV	196.9270, -97.0850, -34.1390
Hunter-Lab	88.7632, -55.0676, 53.7314

Details

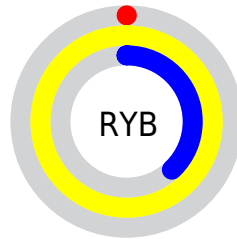
The XYZ color **49.8606, 78.7891, 12.5799** is a dark color, and the websafe version is hex **99FF00**. The color can be described as middle saturated chartreuse. A complement of this color would be **22.9845, 9.7645, 95.2811**, and the grayscale version is **53.5874, 56.3781, 61.3957**.

A 20% lighter version of the original color is **66.9938, 87.3882, 23.9263**, and **25.0180, 42.8750, 6.9571** is the 20% darker color. If you saturate the color by 10%, you get **49.8575, 78.7875, 12.5798**, and if you desaturate by 10%, it is **52.0263, 79.8846, 13.6277**.

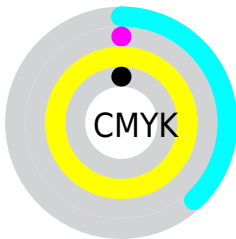
Distribution



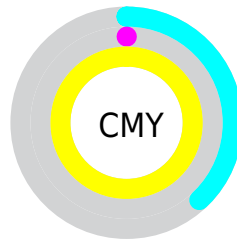
- Red (62%)
- Green (100%)
- Blue (0%)



- Red (0%)
- Yellow (100%)
- Blue (38%)



- Cyan (38%)
- Magenta (0%)
- Yellow (100%)
- Black (0%)





- Cyan (38%)
- Magenta (0%)
- Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 49.8606, 78.7891, 12.5799 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 49.8606, 78.7891, 12.5799 by changing the saturation by 10% instead.


 49.8606, 78.7891,
12.5799

 49.8606, 78.7891,
12.5799


376.5816,
490.8426, 219.3199

 35.5200, 58.7224,
7.0126


 89.1614, 131.6619,
31.2270


 24.2321, 42.3897,
3.3914


 114.8522,
165.2368, 45.1439


 15.6315, 29.4066,
1.2978


 145.0572,
204.0833, 62.6811

 9.3530, 19.3886,
0.0600

 180.1417,
248.5857, 84.2570

 5.0311, 11.9514,
0.0000

 220.4710,
299.1285, 110.2904

 2.3005, 6.7106,
0.0000

 266.4105,

 0.7949, 3.2818,

356.0959, 141.1996

0.0000

318.3256,
419.8725, 177.4033

■ 0.0000, 1.2806,
0.0000

■ 0.0000, 0.1261,
0.0000

■ 49.8606, 78.7891,
12.5799

■ 49.8606, 78.7891,
12.5799

■ 49.8575, 78.7875,
12.5798

■ 52.0263, 79.8846,
13.6277

■ 54.5818, 81.1539,
15.9241

■ 57.6024, 82.6273,
19.8490

■ 61.1354, 84.3242,
25.6348

65.2208, 86.2610,
33.4762

69.8938, 88.4520,
43.5435

75.1862, 90.9104,
55.9890

81.1273, 93.6481,
70.9519

87.7441, 96.6763,
88.5604

Harmonies

Analogous

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



71.5079, 78.7891, 6.9244



49.8606, 78.7891, 12.5799



37.7215, 78.7891, 36.0685

Triad

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



49.8606, 78.7891, 12.5799



54.5303, 78.7891, 295.8611



138.3820, 78.7891, 76.3325

Complementary

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



49.8606, 78.7891, 12.5799



22.9845, 9.7645, 95.2811

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.



130.8129, 78.7891, 167.8978



49.8606, 78.7891, 12.5799



78.3702, 78.7891, 330.6174

Square

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



49.8606, 78.7891, 12.5799



39.9355, 78.7891, 195.9585



107.1361, 78.7891, 273.9941



125.8995, 78.7891, 27.3354

Rectangle

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



49.8606, 78.7891, 12.5799



34.6788, 78.7891, 71.0259



107.1361, 78.7891, 273.9941



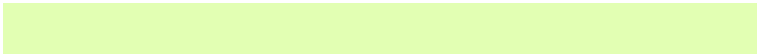
138.1120, 78.7891, 102.4656

Sweetspot

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



49.8607, 78.7892, 12.5810



75.1774, 90.9063, 55.9676



45.2008, 29.1813, 3.2514



15.5970, 19.2287, 10.7925



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.



49.8607, 78.7892, 12.5810



49.8575, 78.7875, 12.5798



36.4210, 71.8608, 11.9521



18.8525, 20.7254, 19.1511



26.2231, 41.2566, 6.5812



2.6749, 4.0797, 0.6465

Inverse Universe

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



22.9845, 9.7645, 95.2811



22.9814, 9.7622, 95.2808



47.8709, 22.5939, 96.4457



17.6562, 17.7145, 22.7386



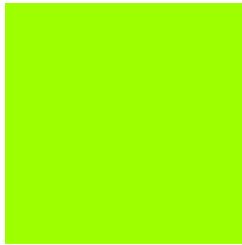
12.1611, 5.1798, 49.7934



1.3011, 0.5646, 4.8537

Previews

White Background



This preview shows how the XYZ color 49.8606, 78.7891, 12.5799 looks on a white background.

Color Contrast Check

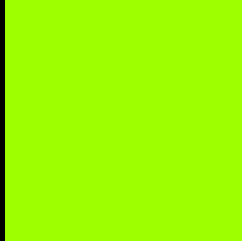
Large Text (above 18pt) WCAG AA × Fail

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 49.8606, 78.7891, 12.5799 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

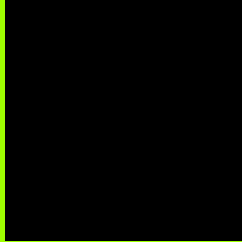
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 49.8606, 78.7891, 12.5799

Background



This preview shows how black text looks on a background with the XYZ color 49.8606, 78.7891, 12.5799.



This preview shows how white text looks on a background with the XYZ color 49.8606, 78.7891,

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

49.8606, 78.7891, 12.5799

Protanopia

70.6345, 77.8487, 18.5112

Deuteranopia

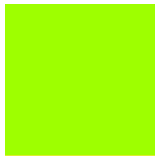
75.9682, 77.3715, 54.6463



Tritanopia

69.0732, 78.4797, 106.1153

Trichromacy



Original Color

49.8606, 78.7891, 12.5799



Protanomaly

60.6655, 76.5950, 14.6045



Deuteranomaly

62.3180, 75.8701, 27.5795



Tritanomaly

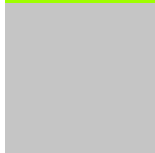
57.0037, 76.6571, 45.9743

Monochromacy



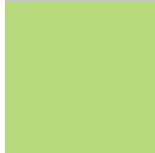
Original Color

49.8606, 78.7891, 12.5799



Achromatopsia

53.0703, 55.8340, 60.8033



Achromatomaly

48.3015, 61.6908, 28.7638

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.8606, 78.7891, 12.5799 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(158, 255, 0)` looks like.

```
.text, #text, p{  
    color:rgb(158, 255, 0)  
}
```

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(158, 255, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(158, 255, 0) }
```

Border

The CSS property to change the border of an element to XYZ 49.8606, 78.7891, 12.5799 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(158, 255, 0) }
```


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

```
.border{ border-color:rgb(158, 255, 0) }
```

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

Here you see how a box with a 4 pixel rgb(158, 255, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(158, 255, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(158, 255, 0);  
box-shadow:4px 4px 4px 4px rgb(158, 255,  
0) }
```

Background

The CSS property to change the background color of an element to XYZ 49.8606, 78.7891, 12.5799 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(158, 255, 0) }
```

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

```
.background{ background-color: rgb(158,  
255, 0) }
```

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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