

Converting Colors

XYZ(49.0010, 78.3460, 12.5397)

Have a look what the booklet for
XYZ(49.0010, 78.3460, 12.5397)
contains.

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Color

**XYZ(49.0864, 78.3900,
12.5437)**

Conversions

Conversions Part 1

Format	Color
Hex	9AFF00
RGB	154, 255, 0
RGB Percent	60%, 100%, 0%
CMY	0.3961, 0.0000, 0.9998
CMYK	0.40, 0.00, 1.00, 0.00
HSL	84°, 100%, 50%
HSV	84°, 100%, 100%
XYZ	49.0864, 78.3900, 12.5437
YIQ	195.7310, 21.6590, -100.7170

Conversions

Conversions Part 2

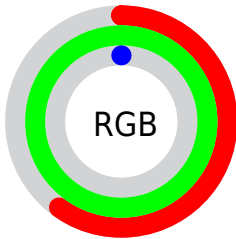
Format	Color
RYB	0, 255, 101
Decimal	10157824
CIELab	90.96, -59.87, 87.09
CIELCh	91, 105.687, 124.506
Yxy	78.3900, 0.3506, 0.5598
Android (android.graphics.Color)	4288347904 (0xFF9AFF00)
YUV	195.7310, -96.4954, -36.5981
Hunter-Lab	88.5381, -55.9796, 53.5767

Details

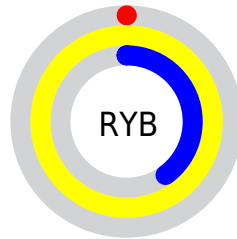
The XYZ color **49.0864, 78.3900, 12.5437** is a dark color, and the websafe version is hex **99FF00**. The color can be described as middle saturated chartreuse. A complement of this color would be **23.4219, 9.9900, 95.3015**, and the grayscale version is **52.8618, 55.6148, 60.5645**.

A 20% lighter version of the original color is **65.8047, 86.7752, 23.8707**, and **24.2806, 42.1567, 6.8573** is the 20% darker color. If you saturate the color by 10%, you get **49.0832, 78.3884, 12.5435**, and if you desaturate by 10%, it is **51.2721, 79.4958, 13.5925**.

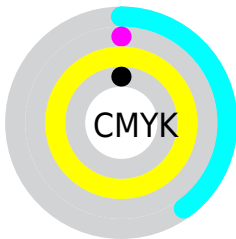
Distribution



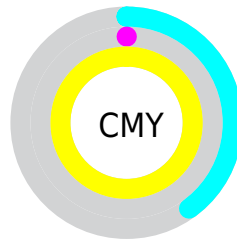
- Red (60%)
- Green (100%)
- Blue (0%)



- Red (0%)
- Yellow (100%)
- Blue (40%)



- Cyan (40%)
- Magenta (0%)
- Yellow (100%)
- Black (0%)





- Cyan (40%)
- Magenta (0%)
- Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 49.0864, 78.3900, 12.5437 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 49.0864, 78.3900, 12.5437 by changing the saturation by 10% instead.


 49.0864, 78.3900,
12.5437

 49.0864, 78.3900,
12.5437


373.5937,
489.4903, 219.0764

 34.9028, 58.3944,
6.9881


 88.0197, 131.0998,
31.1606


 23.7542, 42.1258,
3.3763


 113.5002,
164.5827, 45.0590


 15.2751, 29.1998,
1.2898


 143.4770,
203.3302, 62.5754

 9.1003, 19.2320,
0.0534

 178.3155,
247.7267, 84.1283

 4.8643, 11.8381,
0.0000

 218.3811,
298.1566, 110.1364

 2.2018, 6.6335,
0.0000

 264.0391,

 0.7437, 3.2340,

355.0042, 141.0180

0.0000

315.6548,
418.6540, 177.1918

■ 0.0000, 1.2551,
0.0000

■ 0.0000, 0.1060,
0.0000

■ 49.0864, 78.3900,
12.5437

■ 49.0864, 78.3900,
12.5437

■ 49.0832, 78.3884,
12.5435

■ 51.2721, 79.4958,
13.5925

■ 53.8592, 80.7813,
15.8904

■ 56.9236, 82.2773,
19.8174

■ 60.5128, 84.0033,
25.6059

64.6674, 85.9757,
33.4507

69.4229, 88.2093,
43.5219

74.8117, 90.7173,
55.9720

80.8632, 93.5119,
70.9402

87.6049, 96.6045,
88.5546

Harmonies

Analogous

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



70.5541, 78.3900, 6.7230



49.0864, 78.3900, 12.5437



37.1661, 78.3900, 36.4889

Triad

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



49.0864, 78.3900, 12.5437



54.5567, 78.3900, 298.1525



138.1535, 78.3900, 74.3364

Complementary

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



49.0864, 78.3900, 12.5437



23.4219, 9.9900, 95.3015

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.



130.9894, 78.3900, 165.3807



49.0864, 78.3900, 12.5437



78.6056, 78.3900, 331.1536

Square

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



49.0864, 78.3900, 12.5437



39.7559, 78.3900, 198.3960



107.4675, 78.3900, 272.3918



125.2129, 78.3900, 26.2900

Rectangle

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



49.0864, 78.3900, 12.5437



34.2554, 78.3900, 72.0592



107.4675, 78.3900, 272.3918



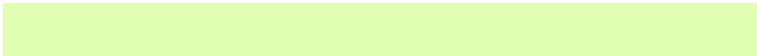
138.0372, 78.3900, 100.1896

Sweetspot

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



49.0865, 78.3900, 12.5448



74.8025, 90.7130, 55.9500



45.5869, 29.9535, 3.3801



15.5077, 19.1827, 10.7884



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.



49.0865, 78.3900, 12.5448



49.0832, 78.3884, 12.5435



36.2894, 71.7929, 11.9459



18.8240, 20.7107, 19.1498



25.8199, 41.0487, 6.5623



2.6371, 4.0602, 0.6447

Inverse Universe

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



23.4219, 9.9900, 95.3015



23.4187, 9.9877, 95.3013



49.1813, 23.2694, 96.5070



17.6838, 17.7287, 22.7399



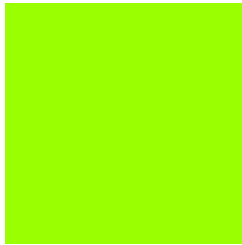
12.3932, 5.2994, 49.8043



1.3255, 0.5772, 4.8548

Previews

White Background



This preview shows how the XYZ color 49.0864, 78.3900, 12.5437 looks on a white background.

Color Contrast Check

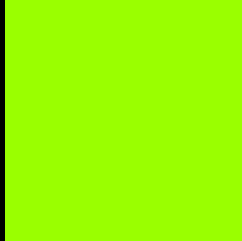
Large Text (above 18pt) WCAG AA × Fail

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 49.0864, 78.3900, 12.5437 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

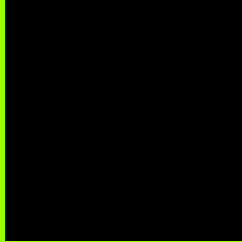
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 49.0864, 78.3900, 12.5437

Background



This preview shows how black text looks on a background with the XYZ color 49.0864, 78.3900, 12.5437.

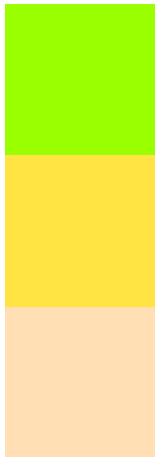


This preview shows how white text looks on a background with the XYZ color 49.0864, 78.3900,

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

49.0864, 78.3900, 12.5437

Protanopia

70.0268, 77.1642, 16.6722

Deuteranopia

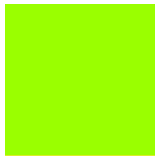
75.7644, 77.2900, 53.5731



Tritanopia

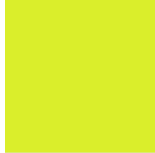
68.1014, 77.9787, 106.0698

Trichromacy



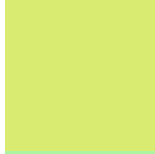
Original Color

49.0864, 78.3900, 12.5437



Protanomaly

59.9240, 76.2289, 13.8408



Deuteranomaly

61.6590, 75.5370, 27.2499



Tritanomaly

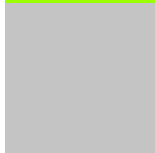
56.1059, 76.1942, 45.9323

Monochromacy



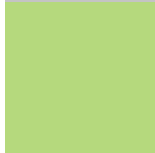
Original Color

49.0864, 78.3900, 12.5437



Achromatopsia

52.4687, 55.2011, 60.1140



Achromatomaly

47.5706, 60.9301, 28.6555

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.0864, 78.3900, 12.5437 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(154, 255, 0)` looks like.

```
.text, #text, p{  
    color:rgb(154, 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(154, 255, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(154, 255, 0) }
```

Border

The CSS property to change the border of an element to XYZ 49.0864, 78.3900, 12.5437 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(154, 255, 0) }
```


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

```
.border{ border-color:rgb(154, 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(154, 255, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(154, 255, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(154, 255, 0);  
box-shadow:4px 4px 4px 4px rgb(154, 255,  
0) }
```

Background

The CSS property to change the background color of an element to XYZ 49.0864, 78.3900, 12.5437 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(154, 255, 0) }
```

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

```
.background{ background-color: rgb(154,  
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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