

# Converting Colors

XYZ(48.2298, 78.4833, 12.7330)

Have a look what the booklet for  
XYZ(48.2298, 78.4833, 12.7330)  
contains.

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# Color

**XYZ(47.8145, 77.7318,  
12.5985)**

# Conversions

## Conversions Part 1

Format	Color
Hex	93FF04
RGB	147, 255, 4
RGB Percent	58%, 100%, 2%
CMY	0.4235, 0.0000, 0.9842
CMYK	0.42, 0.00, 0.98, 0.00
HSL	86°, 100%, 51%
HSV	86°, 98%, 100%
XYZ	47.8145, 77.7318, 12.5985
YIQ	194.0940, 16.2030, -100.9570

# Conversions

## Conversions Part 2

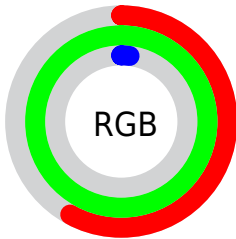
<b>Format</b>	<b>Color</b>
<b>RYB</b>	4, 255, 112
Decimal	9699076
CIELab	90.66, -62.07, 86.43
CIELCh	91, 106.413, 125.683
Yxy	77.7318, 0.3461, 0.5627
Android (android.graphics.Color)	4287889156 (0xFF93FF04)
YUV	194.0940, -93.7163, -41.3014
Hunter-Lab	88.1656, -57.4847, 53.2437

# Details

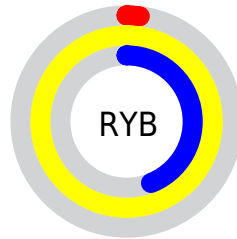
The XYZ color **47.8145, 77.7318, 12.5985** is a dark color, and the websafe version is hex **99FF00**. The color can be described as middle saturated chartreuse. A complement of this color would be **24.7810, 10.7550, 95.3776**, and the grayscale version is **51.8676, 54.5687, 59.4253**.

A 20% lighter version of the original color is **64.0749, 85.8835, 23.7897**, and **23.5335, 41.7715, 6.8224** is the 20% darker color. If you saturate the color by 10%, you get **47.4831, 77.5635, 12.4686**, and if you desaturate by 10%, it is **50.0838, 78.8778, 13.7829**.

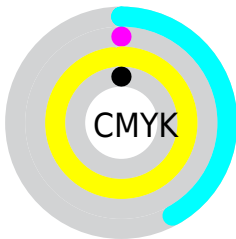
# Distribution



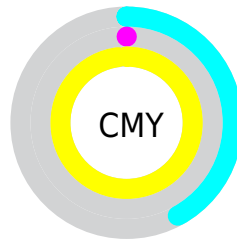
- Red (58%)
- Green (100%)
- Blue (2%)



- Red (2%)
- Yellow (100%)
- Blue (44%)



- Cyan (42%)
- Magenta (0%)
- Yellow (98%)
- Black (0%)




- Cyan (42%)
- Magenta (0%)
- Yellow (98%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.8145, 77.7318, 12.5985 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 47.8145, 77.7318, 12.5985 by changing the saturation by 10% instead.





 47.8145, 77.7318,  
12.5985


 47.8145, 77.7318,  
12.5985


368.6512,  
487.2555, 219.4449

 33.8906, 57.8537,  
7.0252


 86.1395, 130.1720,  
31.2611


 22.9721, 41.6910,  
3.3992


 111.2714,  
163.5028, 45.1875


 14.6935, 28.8594,  
1.3019


 140.8700,  
202.0867, 62.7353

 8.6895, 18.9745,  
0.0633

 175.3007,  
246.3080, 84.3231

 4.5947, 11.6519,  
0.0000

 214.9288,  
296.5512, 110.3694

 2.0438, 6.5071,  
0.0000

 260.1197,

 0.6584, 3.1558,

353.2005, 141.2928

0.0000

311.2387,  
416.6405, 177.5118

■ 0.0000, 1.2136,  
0.0000

■ 0.0000, 0.0728,  
0.0000

■ 47.8145, 77.7318,  
12.5985

■ 47.8145, 77.7318,  
12.5985

■ 47.4831, 77.5635,  
12.4686

■ 50.0838, 78.8778,  
13.7829

■ 52.8013, 80.2254,  
16.3215

■ 56.0320, 81.8010,  
20.5302

■ 59.8230, 83.6242,  
26.6344

64.2150, 85.7116,  
34.8243

69.2441, 88.0783,  
45.2670

74.9429, 90.7377,  
58.1128

81.3417, 93.7025,  
73.4989

88.4685, 96.9843,  
91.5522

# Harmonies

## Analogous

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



68.9166, 77.7318, 6.4593



47.8145, 77.7318, 12.5985



36.2976, 77.7318, 37.4057

# Triad

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



47.8145, 77.7318, 12.5985



54.7055, 77.7318, 301.5513



137.5951, 77.7318, 70.9038

# Complementary

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



47.8145, 77.7318, 12.5985



24.7810, 10.7550, 95.3776

# 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.



131.1893, 77.7318, 160.7015



47.8145, 77.7318, 12.5985



79.0798, 77.7318, 331.1956

# Square

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



47.8145, 77.7318, 12.5985



39.5537, 77.7318, 202.5265



108.0300, 77.7318, 268.8656



123.8792, 77.7318, 24.6055



# Rectangle

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



47.8145, 77.7318, 12.5985



33.6228, 77.7318, 74.0523



108.0300, 77.7318, 268.8656



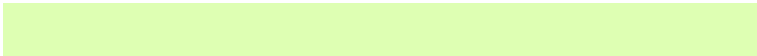
137.7566, 77.7318, 96.1844

# Sweetspot

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



47.8146, 77.7318, 12.5996



73.9944, 90.2964, 55.9122



46.6888, 32.1223, 3.8554



15.3155, 19.0836, 10.7794



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.



47.8146, 77.7318, 12.5996



47.4831, 77.5635, 12.4686



36.1819, 71.7349, 12.0552



18.7621, 20.6788, 19.1469



24.9854, 40.6185, 6.5233



2.5579, 4.0194, 0.6410



# Inverse Universe

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



24.7810, 10.7550, 95.3776



24.4480, 10.5183, 95.3494



52.0540, 24.8148, 96.6539



17.7443, 17.7599, 22.7427



12.9377, 5.5801, 49.8298

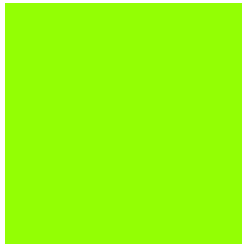


1.3819, 0.6063, 4.8575



# Previews

## White Background



This preview shows how the XYZ color 47.8145, 77.7318, 12.5985 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

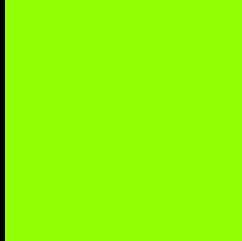
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.8145, 77.7318, 12.5985 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 47.8145, 77.7318, 12.5985**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.8145, 77.7318, 12.5985.



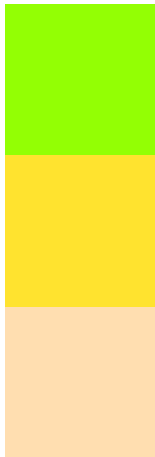
This preview shows how white text looks on a background with the XYZ color 47.8145, 77.7318,



# 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

47.8145, 77.7318, 12.5985

### Protanopia

69.2222, 76.4034, 13.7883

### Deuteranopia

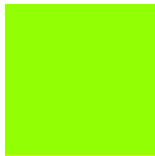
75.1977, 76.6371, 51.9034



## Tritanopia

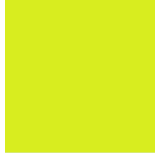
66.9246, 77.3721, 106.0147

# Trichromacy



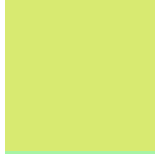
## Original Color

47.8145, 77.7318, 12.5985



## Protanomaly

58.8504, 75.2662, 12.7224



## Deuteranomaly

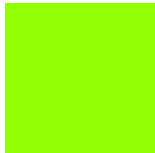
60.7224, 74.6368, 26.8287



## Tritanomaly

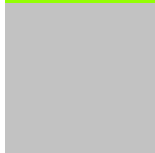
54.9879, 75.5972, 46.8155

# Monochromacy



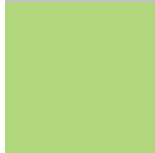
## Original Color

47.8145, 77.7318, 12.5985



## Achromatopsia

51.2775, 53.9479, 58.7493



## Achromatomaly

46.3890, 59.9395, 28.5266

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.8145, 77.7318, 12.5985 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(147, 255, 4)` looks like.

```
.text, #text, p{  
    color:rgb(147, 255, 4)  
}
```

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(147, 255, 4) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(147, 255, 4) }
```

## Border

The CSS property to change the border of an element to XYZ 47.8145, 77.7318, 12.5985 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(147, 255, 4) }
```



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

```
.border{ border-color:rgb(147, 255, 4) }
```

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

Here you see how a box with a 4 pixel `rgb(147, 255, 4)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(147, 255, 4); -webkit-box-  
shadow:4px 4px 4px 4px rgb(147, 255, 4);  
box-shadow:4px 4px 4px 4px rgb(147, 255,  
4) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.8145, 77.7318, 12.5985 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(147, 255, 4) }
```

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

```
.background{ background-color: rgb(147,  
255, 4) }
```

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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