

# Converting Colors

XYZ(47.8366, 76.3034, 19.4684)

Have a look what the booklet for  
XYZ(47.8366, 76.3034, 19.4684)  
contains.

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# Color

**XYZ(47.6871, 76.1002,  
19.3832)**

# Conversions

## Conversions Part 1

Format	Color
Hex	90FC4E
RGB	144, 252, 78
RGB Percent	56%, 99%, 31%
CMY	0.4353, 0.0117, 0.6941
CMYK	0.43, 0.00, 0.69, 0.01
HSL	97°, 97%, 65%
HSV	97°, 69%, 99%
XYZ	47.6871, 76.1002, 19.3832
YIQ	199.8720, -8.5140, -77.0100

# Conversions

## Conversions Part 2

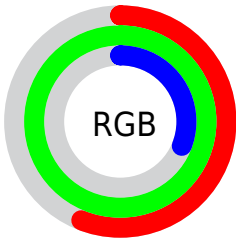
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">78, 252, 186</a>
Decimal	<a href="#">9501774</a>
<a href="#">CIELab</a>	<a href="#">89.91, -59.19, 70.09</a>
<a href="#">CIElCh</a>	<a href="#">90, 91.735, 130.179</a>
<a href="#">Yxy</a>	<a href="#">76.1002, 0.3331, 0.5315</a>
<a href="#">Android (android.graphics.Color)</a>	<a href="#">4287691854 (0xFF90FC4E)</a>
<a href="#">YUV</a>	<a href="#">199.8720, -60.0829, -48.9997</a>
<a href="#">Hunter-Lab</a>	<a href="#">87.2354, -55.0853, 47.8909</a>

# Details

The XYZ color **47.6871, 76.1002, 19.3832** is a light color, and the websafe version is hex **99FF66**. The color can be described as light washed chartreuse. A complement of this color would be **40.5490, 22.9189, 94.3864**, and the grayscale version is **55.1848, 58.0587, 63.2260**.

A 20% lighter version of the original color is **65.0350, 86.1066, 36.1142**, and **22.9948, 40.8241, 6.6679** is the 20% darker color. If you saturate the color by 10%, you get **44.4060, 74.4963, 15.3836**, and if you desaturate by 10%, it is **51.6963, 78.0443, 25.2258**.

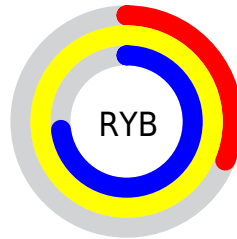
# Distribution



Red (56%)

Green (99%)

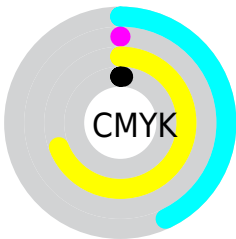
Blue (31%)



Red (31%)

Yellow (99%)

Blue (73%)

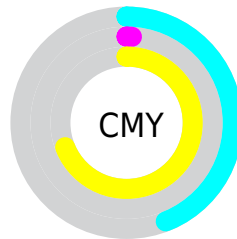


Cyan (43%)

Magenta (0%)

Yellow (69%)

Black (1%)



Cyan (44%)

Magenta (1%)


Yellow (69%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.6871, 76.1002, 19.3832 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 47.6871, 76.1002, 19.3832 by changing the saturation by 10% instead.





 47.6871, 76.1002,  
19.3832


 47.6871, 76.1002,  
19.3832


368.1538,  
481.6906, 261.0490

 33.7894, 56.5147,  
11.7679


 85.9509, 127.8685,  
43.2259


 22.8940, 40.6157,  
6.4652


 111.0476,  
160.8201, 60.2904

 14.6355, 28.0189,  
3.0566


 140.6081,  
198.9959, 81.3417

 8.6486, 18.3399,  
1.1236

 174.9977,  
242.7802, 106.7983

 4.5680, 11.1943,  
0.0000

214.5816,  
292.5574, 137.0788

 2.0282, 6.1977,  
0.0000

259.7254,

 0.6497, 2.9657,

348.7119, 172.6017

0.0000

310.7944,  
411.6282, 213.7856

0.0000, 1.1138,  
0.0000

0.0000, 0.0000,  
0.0000

47.6871, 76.1002,  
19.3832

47.6871, 76.1002,  
19.3832

44.4060, 74.4963,  
15.3836

51.6963, 78.0443,  
25.2258

41.7903, 73.1978,  
13.0000


56.4783, 80.3403,  
33.0934


39.7626, 72.1747,  
11.9045

62.0797, 83.0111,  
43.1517


39.5917, 72.0881,  
11.8277

68.5415, 86.0745,  
55.5478

 75.9015, 89.5473,  
70.4162

 84.1955, 93.4450,  
87.8812

 93.4567, 97.7824,  
108.0586

 94.1020, 98.1041,  
108.5840

# Harmonies

## Analogous

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



64.8949, 76.1002, 10.7042



47.6871, 76.1002, 19.3832



38.5749, 76.1002, 47.3187

# Triad

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



47.6871, 76.1002, 19.3832



58.5298, 76.1002, 264.6215



124.2995, 76.1002, 62.6909

# Complementary

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



47.6871, 76.1002, 19.3832



40.5490, 22.9189, 94.3864

# 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.



121.5979, 76.1002, 132.8287



47.6871, 76.1002, 19.3832



80.3144, 76.1002, 276.5784

# Square

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



47.6871, 76.1002, 19.3832



43.8682, 76.1002, 192.3717



104.2701, 76.1002, 219.5856



111.0243, 76.1002, 25.5817



# Rectangle

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



47.6871, 76.1002, 19.3832



36.9010, 76.1002, 83.2518



104.2701, 76.1002, 219.5856



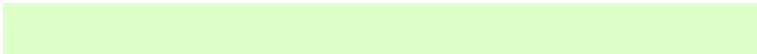
125.2866, 76.1002, 82.4698

# Sweetspot

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



47.6889, 76.1035, 19.3849



76.4064, 91.2500, 69.1223



58.9351, 56.0725, 14.9258



15.8979, 19.3161, 13.8665



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.



47.6889, 76.1035, 19.3849



44.4603, 75.9541, 14.6366



40.1735, 72.1317, 23.4366



17.6395, 19.6300, 18.3217



20.7736, 37.6275, 6.1679



2.0377, 3.5435, 0.5766



# Inverse Universe

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



40.5490, 22.9189, 94.3864



36.5446, 18.0557, 96.1667



57.3953, 31.9555, 79.2676



17.3180, 17.1766, 21.7879



16.5065, 7.4521, 48.5420

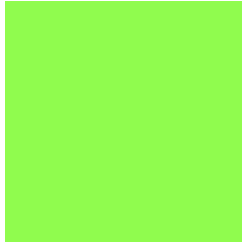


1.6466, 0.7509, 4.5013



# Previews

## White Background



This preview shows how the XYZ color 47.6871, 76.1002, 19.3832 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

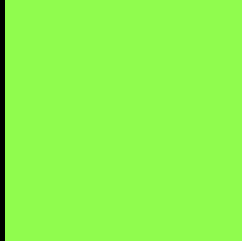
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.6871, 76.1002, 19.3832 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

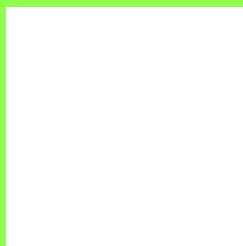
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 47.6871, 76.1002, 19.3832**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.6871, 76.1002, 19.3832.



This preview shows how white text looks on a background with the XYZ color 47.6871, 76.1002,



# 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

47.6871, 76.1002, 19.3832

### Protanopia

68.2074, 75.0008, 16.8429

### Deuteranopia

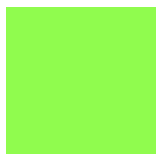
73.9222, 74.8633, 49.0820



## Tritanopia

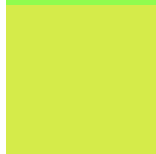
64.6110, 75.3431, 104.9032

# Trichromacy



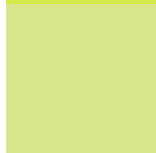
## Original Color

47.6871, 76.1002, 19.3832



## Protanomaly

58.3849, 74.0572, 17.6958



## Deuteranomaly

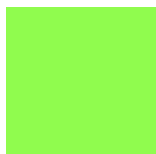
61.1156, 73.4050, 34.6144



## Tritanomaly

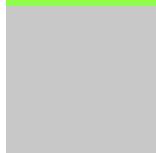
55.6499, 74.3097, 60.1253

# Monochromacy



## Original Color

47.6871, 76.1002, 19.3832



## Achromatopsia

54.8990, 57.7580, 62.8985



## Achromatomaly

50.1547, 62.7666, 40.9242

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.6871, 76.1002, 19.3832 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(144, 252, 78)` looks like.

```
.text, #text, p{  
    color:rgb(144, 252, 78)  
}
```

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(144, 252, 78) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(144, 252, 78) }
```

## Border

The CSS property to change the border of an element to XYZ 47.6871, 76.1002, 19.3832 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(144, 252, 78) }
```



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

```
.border{ border-color:rgb(144, 252, 78) }
```

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

Here you see how a box with a 4 pixel `rgb(144, 252, 78)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(144, 252, 78); -webkit-box-  
shadow:4px 4px 4px 4px rgb(144, 252, 78);  
box-shadow:4px 4px 4px 4px rgb(144, 252,  
78) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.6871, 76.1002, 19.3832 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(144, 252, 78) }
```

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

```
.background{ background-color: rgb(144,  
252, 78) }
```

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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