

# Converting Colors

XYZ(40.0307, 67.7971, 12.5795)

Have a look what the booklet for  
XYZ(40.0307, 67.7971, 12.5795)  
contains.

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# Color

**XYZ(39.9407, 67.6906,  
12.5506)**

# Conversions

## Conversions Part 1

Format	Color
Hex	79F223
RGB	121, 242, 35
RGB Percent	47%, 95%, 14%
CMY	0.5255, 0.0510, 0.8627
CMYK	0.50, 0.00, 0.86, 0.05
HSL	95°, 89%, 54%
HSV	95°, 86%, 95%
XYZ	39.9407, 67.6906, 12.5506
YIQ	182.2230, -5.6690, -90.0290

# Conversions

## Conversions Part 2

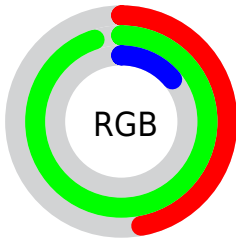
<b>Format</b>	<b>Color</b>
<b>RYB</b>	35, 242, 156
Decimal	7991843
CIELab	85.85, -64.51, 78.27
CIELCh	86, 101.427, 129.493
Yxy	67.6906, 0.3323, 0.5632
Android (android.graphics.Color)	4286181923 (0xFF79F223)
YUV	182.2230, -72.5809, -53.6926
Hunter-Lab	82.2743, -57.3258, 48.5476

# Details

The XYZ color **39.9407, 67.6906, 12.5506** is a dark color, and the websafe version is hex **99FF33**. The color can be described as middle washed chartreuse. A complement of this color would be **30.3429, 14.6836, 85.2432**, and the grayscale version is **44.9731, 47.3152, 51.5263**.

A 20% lighter version of the original color is **57.7366, 82.5666, 25.7259**, and **18.7142, 35.4017, 5.8469** is the 20% darker color. If you saturate the color by 10%, you get **37.8586, 66.6475, 11.1799**, and if you desaturate by 10%, it is **42.5639, 68.9882, 15.2395**.

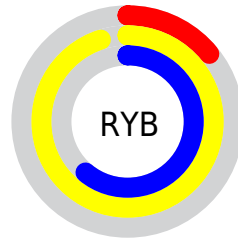
# Distribution



Red (47%)

Green (95%)

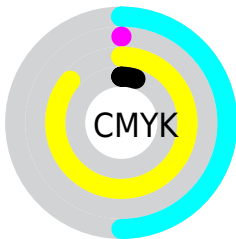
Blue (14%)



Red (14%)

Yellow (95%)

Blue (61%)

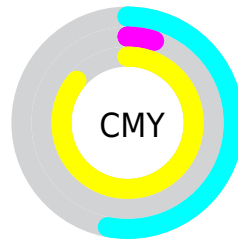


Cyan (50%)

Magenta (0%)

Yellow (86%)

Black (5%)



Cyan (53%)

Magenta (5%)

Yellow (86%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 39.9407, 67.6906, 12.5506 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 39.9407, 67.6906, 12.5506 by changing the saturation by 10% instead.





 39.9407, 67.6906,  
12.5506


 39.9407, 67.6906,  
12.5506


337.0123,  
452.3990, 219.1228


 27.6763, 49.6461,  
6.9928


 74.3581, 115.9094,  
31.1733

 18.2210, 35.1323,  
3.3792


 97.2419, 146.8525,  
45.0752


 11.2094, 23.7648,  
1.2914


 124.3961,  
182.8639, 62.5955

 6.2762, 15.1592,  
0.0547

 156.1862,  
224.3279, 84.1529

 3.0560, 8.9312,  
0.0000

 192.9775,  
271.6291, 110.1657

 1.1834, 4.6963,  
0.0000

 235.1354,

 0.0932, 2.0702,

325.1517, 141.0526

0.0000

283.0252,  
385.2802, 177.2322

■ 0.0000, 0.6478,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 39.9407, 67.6906,  
12.5506

■ 39.9407, 67.6906,  
12.5506

■ 37.8586, 66.6475,  
11.1799


■ 42.5639, 68.9882,  
15.2395


■ 37.0681, 66.2469,  
10.8332


■ 45.7792, 70.5554,  
19.4734


■ 49.6347, 72.4149,  
25.4414


■ 54.1717, 74.5845,  
33.3045

 59.4272, 77.0800,  
43.2051

 65.4351, 79.9164,  
55.2720

 72.2273, 83.1073,  
69.6234

 79.8332, 86.6655,  
86.3690

 88.2810, 90.6034,  
105.6112

# Harmonies

## Analogous

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



57.2601, 67.6906, 5.8732



39.9407, 67.6906, 12.5506



30.9572, 67.6906, 37.4057

# Triad

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



39.9407, 67.6906, 12.5506



49.9462, 67.6906, 269.7004



119.1034, 67.6906, 54.5837

# Complementary

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



39.9407, 67.6906, 12.5506



30.3429, 14.6836, 85.2432

# 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.



115.7947, 67.6906, 128.1070



39.9407, 67.6906, 12.5506



71.9761, 67.6906, 285.0482

# Square

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



39.9407, 67.6906, 12.5506



35.6962, 67.6906, 188.4134



97.0692, 67.6906, 222.7129



105.2503, 67.6906, 18.6644



# Rectangle

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



39.9407, 67.6906, 12.5506



29.2552, 67.6906, 72.5788



97.0692, 67.6906, 222.7129



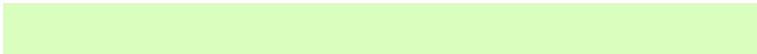
120.0238, 67.6906, 74.8398

# Sweetspot

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



39.9423, 67.6935, 12.5521



73.3032, 89.8169, 61.4465



48.7711, 42.6954, 7.2616



15.1693, 18.9791, 12.0909



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.



39.9423, 67.6935, 12.5521



41.6956, 74.5799, 12.1978



33.0729, 64.1150, 13.9122



16.1880, 17.9771, 16.7664



20.0595, 35.6626, 5.8263



1.7794, 3.0238, 0.4899



# Inverse Universe

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



30.3429, 14.6836, 85.2432



30.4572, 13.6161, 95.6306



50.7783, 25.5038, 73.3058



15.7827, 15.6852, 19.9173



14.7130, 6.5903, 45.6245

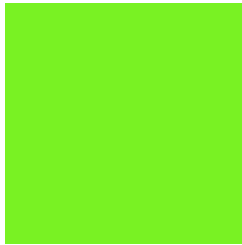


1.3369, 0.6065, 3.8008



# Previews

## White Background



This preview shows how the XYZ color 39.9407, 67.6906, 12.5506 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

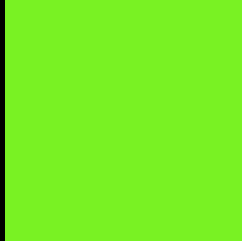
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 39.9407, 67.6906, 12.5506 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

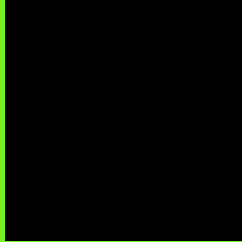
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 39.9407, 67.6906, 12.5506

## Background



This preview shows how black text looks on a background with the XYZ color 39.9407, 67.6906, 12.5506.



This preview shows how white text looks on a background with the XYZ color 39.9407, 67.6906,



# 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

39.9407, 67.6906, 12.5506

### Protanopia

60.1682, 66.6930, 10.6791

### Deuteranopia

66.6465, 66.3527, 28.0336



## Tritanopia

56.2397, 67.0938, 94.7803

# Trichromacy



## Original Color

39.9407, 67.6906, 12.5506



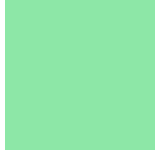
## Protanomaly

49.9034, 65.2703, 11.1306



## Deuteranomaly

52.4133, 64.0199, 19.4921



## Tritanomaly

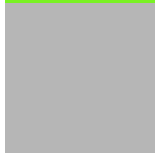
46.5355, 65.6046, 46.7695

# Monochromacy



## Original Color

39.9407, 67.6906, 12.5506



## Achromatopsia

44.4628, 46.7784, 50.9417



## Achromatomaly

40.0525, 52.2443, 28.7420

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 39.9407, 67.6906, 12.5506 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(121, 242, 35)` looks like.

```
.text, #text, p{  
    color:rgb(121, 242, 35)  
}
```

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(121, 242, 35) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(121, 242, 35) }
```

## Border

The CSS property to change the border of an element to XYZ 39.9407, 67.6906, 12.5506 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(121, 242, 35) }
```



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

```
.border{ border-color:rgb(121, 242, 35) }
```

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

Here you see how a box with a 4 pixel `rgb(121, 242, 35)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(121, 242, 35); -webkit-box-  
shadow:4px 4px 4px 4px rgb(121, 242, 35);  
box-shadow:4px 4px 4px 4px rgb(121, 242,  
35) }
```

# Background

The CSS property to change the background color of an element to XYZ 39.9407, 67.6906, 12.5506 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(121, 242, 35) }
```

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

```
.background{ background-color: rgb(121,  
242, 35) }
```

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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