

# Converting Colors

XYZ(42.5569, 66.9447, 11.6622)

Have a look what the booklet for  
XYZ(42.5569, 66.9447, 11.6622)  
contains.

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# Color

**XYZ(42.5033, 66.8460,  
11.6397)**

# Conversions

## Conversions Part 1

Format	Color
Hex	93ED1A
RGB	147, 237, 26
RGB Percent	58%, 93%, 10%
CMY	0.4235, 0.0706, 0.8980
CMYK	0.38, 0.00, 0.89, 0.07
HSL	86°, 85%, 52%
HSV	86°, 89%, 93%
XYZ	42.5033, 66.8460, 11.6397
YIQ	186.0360, 14.0910, -84.7010

# Conversions

## Conversions Part 2

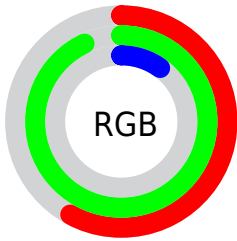
Format	Color
<a href="#">RYB</a>	<a href="#">26, 237, 116</a>
Decimal	<a href="#">9694490</a>
CIELab	<a href="#">85.43, -54.83, 79.95</a>
CIELCh	<a href="#">85, 96.946, 124.441</a>
Yxy	<a href="#">66.8460, 0.3513, 0.5525</a>
Android (android.graphics.Color)	<a href="#">4287884570 (0xFF93ED1A)</a>
YUV	<a href="#">186.0360, -78.8977, -34.2346</a>
Hunter-Lab	<a href="#">81.7594, -50.2843, 48.7907</a>

# Details

The XYZ color **42.5033, 66.8460, 11.6397** 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 **22.8619, 10.5687, 80.9596**, and the grayscale version is **47.1178, 49.5716, 53.9834**.

A 20% lighter version of the original color is **63.6967, 85.6672, 24.7335**, and **20.1590, 34.6209, 5.6200** is the 20% darker color. If you saturate the color by 10%, you get **40.5967, 65.8853, 10.6440**, and if you desaturate by 10%, it is **44.7814, 67.9783, 13.7466**.

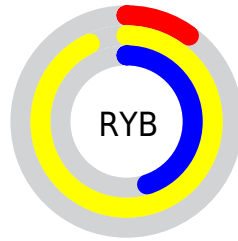
# Distribution



Red (58%)

Green (93%)

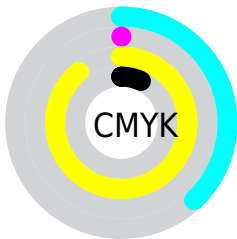
Blue (10%)



Red (10%)

Yellow (93%)

Blue (45%)

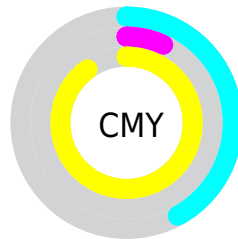


Cyan (38%)

Magenta (0%)

Yellow (89%)

Black (7%)



Cyan (42%)

Magenta (7%)


Yellow (90%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.5033, 66.8460, 11.6397 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 42.5033, 66.8460, 11.6397 by changing the saturation by 10% instead.





 42.5033, 66.8460,  
11.6397

 42.5033, 66.8460,  
11.6397


347.5213,  
449.3964, 212.8978


 29.6884, 48.9595,  
6.3793


 78.2212, 114.6997,  
29.4917

 19.7491, 34.5873,  
3.0046


 101.8549,  
145.4357, 42.9203


 12.3200, 23.3452,  
1.0970


 129.8256,  
181.2237, 59.9088

 7.0358, 14.8486,  
0.0000

 162.4986,  
222.4479, 80.8757

 3.5310, 8.7132,  
0.0000

 200.2394,  
269.4930, 106.2395

 1.4404, 4.5546,  
0.0000

 243.4132,

 0.2847, 1.9884,

322.7431, 136.4187

0.0000

292.3854,  
382.5828, 171.8320

0.0000, 0.6007,  
0.0000

0.0000, 0.0000,  
0.0000

42.5033, 66.8460,  
11.6397

42.5033, 66.8460,  
11.6397

40.5967, 65.8853,  
10.6440


44.7814, 67.9783,  
13.7466


40.4230, 65.7972,  
10.5696


47.4851, 69.2974,  
17.2492


50.6557, 70.8225,  
22.3384


54.3273, 72.5678,  
29.1745

 58.5301, 74.5457,  
37.8979

 63.2914, 76.7675,  
48.6349

 68.6366, 79.2438,  
61.5008

 74.5890, 81.9843,  
76.6022

 81.1706, 84.9982,  
94.0384

# Harmonies

## Analogous

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



60.3183, 66.8460, 6.5130



42.5033, 66.8460, 11.6397



32.5236, 66.8460, 32.0533

# Triad

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



42.5033, 66.8460, 11.6397



46.9882, 66.8460, 245.7097



115.6788, 66.8460, 63.8078

# Complementary

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



42.5033, 66.8460, 11.6397



22.8619, 10.5687, 80.9596

# 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.



109.8030, 66.8460, 138.4982



42.5033, 66.8460, 11.6397



66.8643, 66.8460, 272.4666

# Square

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



42.5033, 66.8460, 11.6397



34.6631, 66.8460, 164.9523



90.5628, 66.8460, 225.2153



105.1570, 66.8460, 23.5448



# Rectangle

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



42.5033, 66.8460, 11.6397



30.0685, 66.8460, 61.6757



90.5628, 66.8460, 225.2153



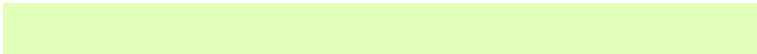
115.5716, 66.8460, 85.1518

# Sweetspot

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



42.5048, 66.8489, 11.6412



75.8868, 91.1805, 60.1380



41.1226, 30.0985, 4.6205



15.8044, 19.3126, 11.8474



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.



42.5048, 66.8489, 11.6412



47.6532, 77.6512, 12.4766



31.4938, 61.1725, 11.1258



15.6953, 17.2885, 16.0285



22.2216, 36.0002, 5.7775



1.8546, 2.8834, 0.4588



# Inverse Universe

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



22.8619, 10.5687, 80.9596



24.3296, 10.4573, 95.3439



44.9973, 21.9799, 81.9955



14.8404, 14.8630, 19.0089



11.4251, 4.9258, 44.0916

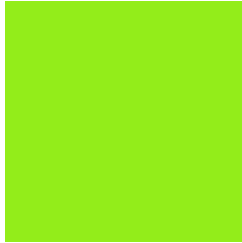


1.0051, 0.4425, 3.4673



# Previews

## White Background



This preview shows how the XYZ color 42.5033, 66.8460, 11.6397 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

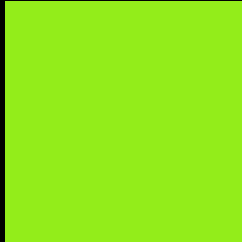
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.5033, 66.8460, 11.6397 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 42.5033, 66.8460, 11.6397**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.5033, 66.8460, 11.6397.



This preview shows how white text looks on a background with the XYZ color 42.5033, 66.8460,



# 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

42.5033, 66.8460, 11.6397

### Protanopia

59.4844, 65.9766, 10.0898

### Deuteranopia

66.1029, 65.7537, 26.3473



## **Tritanopia**

58.2594, 66.2437, 90.6046

# Trichromacy



## Original Color

42.5033, 66.8460, 11.6397

## Protanomaly

51.7011, 65.4149, 10.5632

## Deuteranomaly

54.5145, 64.3665, 18.1451

## Tritanomaly

48.9392, 64.8584, 43.6578

# Monochromacy



## Original Color

42.5033, 66.8460, 11.6397

## Achromatopsia

46.6715, 49.1021, 53.4722

## Achromatomaly

42.7409, 53.9918, 28.5909

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.5033, 66.8460, 11.6397 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, 237, 26)` looks like.

```
.text, #text, p{  
    color:rgb(147, 237, 26)  
}
```

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, 237, 26) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(147, 237, 26) }
```

## Border

The CSS property to change the border of an element to XYZ 42.5033, 66.8460, 11.6397 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, 237, 26) }
```



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

```
.border{ border-color:rgb(147, 237, 26) }
```

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

Here you see how a box with a 4 pixel `rgb(147, 237, 26)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(147, 237, 26); -webkit-box-  
shadow:4px 4px 4px 4px rgb(147, 237, 26);  
box-shadow:4px 4px 4px 4px rgb(147, 237,  
26) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.5033, 66.8460, 11.6397 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(147, 237, 26) }
```

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

```
.background{ background-color: rgb(147,  
237, 26) }
```

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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