

Converting Colors

XYZ(45.6030, 68.4718, 13.5516)

Have a look what the booklet for
XYZ(45.6030, 68.4718, 13.5516)
contains.

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Color

**XYZ(45.4952, 68.3507,
13.4845)**

Conversions

Conversions Part 1

Format	Color
Hex	A1ED2F
RGB	161, 237, 47
RGB Percent	63%, 93%, 18%
CMY	0.3686, 0.0706, 0.8156
CMYK	0.32, 0.00, 0.80, 0.07
HSL	84°, 84%, 56%
HSV	84°, 80%, 93%
XYZ	45.4952, 68.3507, 13.4845
YIQ	192.6160, 15.6940, -75.2020

Conversions

Conversions Part 2

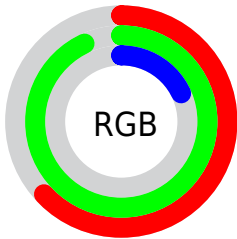
Format	Color
RYB	47, 237, 123
Decimal	10612015
CIELab	86.18, -49.32, 76.48
CIELCh	86, 91.005, 122.813
Yxy	68.3507, 0.3573, 0.5368
Android (android.graphics.Color)	4288802095 (0xFFA1ED2F)
YUV	192.6160, -71.7887, -27.7272
Hunter-Lab	82.6745, -46.4530, 48.2017

Details

The XYZ color **45.4952, 68.3507, 13.4845** 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 **24.4743, 12.3606, 81.2207**, and the grayscale version is **50.8667, 53.5157, 58.2786**.

A 20% lighter version of the original color is **68.3933, 88.0179, 28.1363**, and **22.0034, 35.8725, 5.7644** is the 20% darker color. If you saturate the color by 10%, you get **43.3024, 67.2635, 11.5278**, and if you desaturate by 10%, it is **48.0954, 69.6223, 16.8161**.

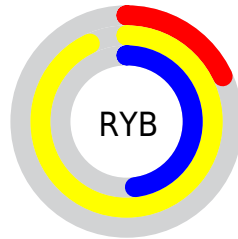
Distribution



Red (63%)

Green (93%)

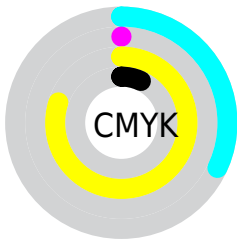
Blue (18%)



Red (18%)

Yellow (93%)

Blue (48%)

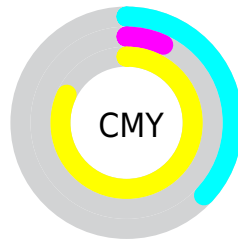


Cyan (32%)

Magenta (0%)

Yellow (80%)

Black (7%)



Cyan (37%)

Magenta (7%)


Yellow (82%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 45.4952, 68.3507, 13.4845 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 45.4952, 68.3507, 13.4845 by changing the saturation by 10% instead.


 45.4952, 68.3507,
13.4845


 45.4952, 68.3507,
13.4845


359.5255,
454.7376, 225.3157

 32.0506, 50.1831,
7.6284


 82.6955, 116.8537,
32.8754

 21.5559, 35.5589,
3.7737


 107.1819,
147.9579, 47.2472


 13.6457, 24.0937,
1.5021


 136.0797,
184.1431, 65.2947

 7.9547, 15.4032,
0.2195

 169.7541,
225.7936, 87.4363

 4.1175, 9.1028,
0.0000

 208.5705,
273.2940, 114.0907

 1.7688, 4.8083,
0.0000

252.8943,

 0.4988, 2.1352,

327.0285, 145.6764

0.0000

303.0909,
387.3815, 182.6118

■ 0.0000, 0.6843,
0.0000

■ 0.0000, 0.0000,
0.0000

■ 45.4952, 68.3507,
13.4845

■ 45.4952, 68.3507,
13.4845

■ 43.3024, 67.2635,
11.5278


■ 48.0954, 69.6223,
16.8161


■ 41.4743, 66.3393,
10.6189


■ 51.1380, 71.0856,
21.7121


■ 54.6586, 72.7576,
28.3369


■ 58.6870, 74.6504,
36.8329

 63.2504, 76.7754,
47.3276

 68.3735, 79.1427,
59.9376

 74.0795, 81.7618,
74.7701

 80.3899, 84.6417,
91.9256

 86.4575, 87.4439,
106.9293

Harmonies

Analogous

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



63.0089, 68.3507, 8.4413



45.4952, 68.3507, 13.4845



35.3247, 68.3507, 33.1865

Triad

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



45.4952, 68.3507, 13.4845



48.2484, 68.3507, 231.3693



114.0585, 68.3507, 68.9045

Complementary

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



45.4952, 68.3507, 13.4845



24.4743, 12.3606, 81.2207

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.



107.7734, 68.3507, 140.5310



45.4952, 68.3507, 13.4845



66.9617, 68.3507, 259.2660

Square

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



45.4952, 68.3507, 13.4845



36.6577, 68.3507, 156.0466



89.3222, 68.3507, 219.5209



105.0275, 68.3507, 27.7869

Rectangle

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



45.4952, 68.3507, 13.4845



32.6425, 68.3507, 60.9060



89.3222, 68.3507, 219.5209



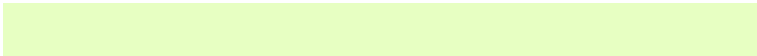
113.6691, 68.3507, 89.8035

Sweetspot

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



45.4968, 68.3537, 13.4860



78.2746, 92.3148, 64.6143



42.5240, 32.3786, 6.6987



16.2946, 19.5468, 12.7045



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.



45.4968, 68.3537, 13.4860



49.7342, 78.7175, 12.8656



33.0464, 61.9353, 12.9033



15.7352, 17.3090, 16.0304



22.7944, 36.2954, 5.8043



1.8980, 2.9058, 0.4608

Inverse Universe

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



24.4743, 12.3606, 81.2207



24.3609, 10.6377, 95.3771



45.2188, 23.0548, 82.1915



14.8015, 14.8429, 19.0071



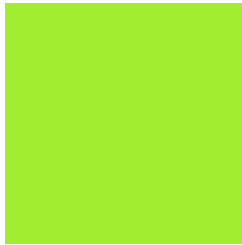
11.0501, 4.7324, 44.0740



0.9736, 0.4262, 3.4658

Previews

White Background



This preview shows how the XYZ color 45.4952, 68.3507, 13.4845 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 45.4952, 68.3507, 13.4845 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

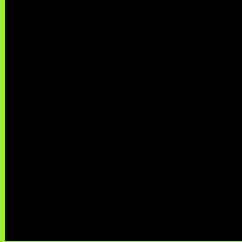
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 45.4952, 68.3507, 13.4845

Background



This preview shows how black text looks on a background with the XYZ color 45.4952, 68.3507, 13.4845.

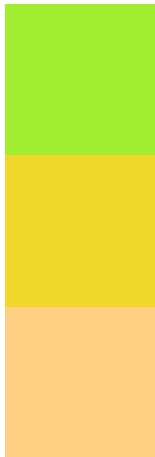


This preview shows how white text looks on a background with the XYZ color 45.4952, 68.3507,

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

45.4952, 68.3507, 13.4845

Protanopia

60.9763, 67.4617, 11.9054

Deuteranopia

67.5821, 67.4974, 30.5854



Tritanopia

61.0562, 68.0763, 90.8110

Trichromacy



Original Color

45.4952, 68.3507, 13.4845

Protanomaly

53.9751, 66.9468, 12.3627

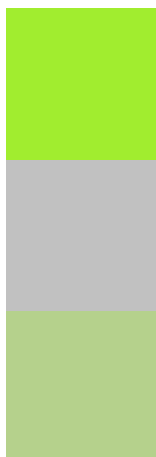
Deuteranomaly

57.1904, 66.4351, 21.8656

Tritanomaly

52.5350, 67.0328, 47.7059

Monochromacy



Original Color

45.4952, 68.3507, 13.4845

Achromatopsia

50.6879, 53.3276, 58.0738

Achromatomaly

46.5901, 57.3181, 33.4189

CSS Examples

Text

The CSS property to change the color of the text to XYZ 45.4952, 68.3507, 13.4845 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(161, 237, 47)` looks like.

```
.text, #text, p{  
    color:rgb(161, 237, 47)  
}
```

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(161, 237, 47) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(161, 237, 47) }
```

Border

The CSS property to change the border of an element to XYZ 45.4952, 68.3507, 13.4845 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(161, 237, 47) }
```


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

```
.border{ border-color:rgb(161, 237, 47) }
```

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

Here you see how a box with a 4 pixel rgb(161, 237, 47) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(161, 237, 47); -webkit-box-  
shadow:4px 4px 4px 4px rgb(161, 237, 47);  
box-shadow:4px 4px 4px 4px rgb(161, 237,  
47) }
```

Background

The CSS property to change the background color of an element to XYZ 45.4952, 68.3507, 13.4845 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(161, 237, 47) }
```

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

```
.background{ background-color: rgb(161,  
237, 47) }
```

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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