

# Converting Colors

XYZ(52.5614, 80.1124, 15.8249)

Have a look what the booklet for  
XYZ(52.5614, 80.1124, 15.8249)  
contains.

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# Color

**XYZ(52.5060, 80.0838,  
15.8223)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A8FF33
RGB	168, 255, 51
RGB Percent	66%, 100%, 20%
CMY	0.3412, 0.0000, 0.8000
CMYK	0.34, 0.00, 0.80, 0.00
HSL	86°, 100%, 60%
HSV	86°, 80%, 100%
XYZ	52.5060, 80.0838, 15.8223
YIQ	205.7310, 13.6320, -81.8880

# Conversions

## Conversions Part 2

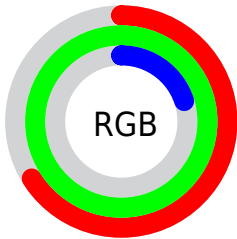
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 255, 138
Decimal	11075379
CIELab	91.72, -54.06, 80.58
CIELCh	92, 97.035, 123.857
Yxy	80.0838, 0.3538, 0.5396
Android (android.graphics.Color)	4289265459 (0xFFA8FF33)
YUV	205.7310, -76.2824, -33.0901
Hunter-Lab	89.4896, -51.8758, 52.1599

# Details

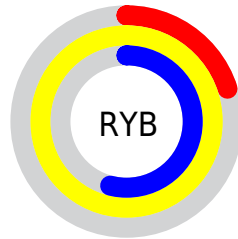
The XYZ color **52.5060, 80.0838, 15.8223** is a light color, and the websafe version is hex **99FF33**. The color can be described as light washed chartreuse. A complement of this color would be **29.7171, 14.9926, 95.9353**, and the grayscale version is **58.9609, 62.0315, 67.5523**.

A 20% lighter version of the original color is **70.8494, 89.2518, 29.7128**, and **26.3784, 43.5763, 7.0208** is the 20% darker color. If you saturate the color by 10%, you get **49.8699, 78.7730, 13.5251**, and if you desaturate by 10%, it is **55.6439, 81.6178, 19.7518**.

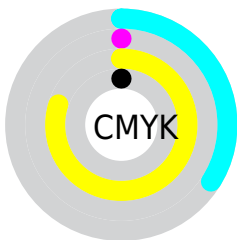
# Distribution



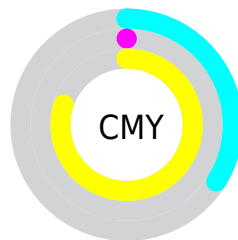
- Red (66%)
- Green (100%)
- Blue (20%)



- Red (20%)
- Yellow (100%)
- Blue (54%)



- Cyan (34%)
- Magenta (0%)
- Yellow (80%)
- Black (0%)




- Cyan (34%)
- Magenta (0%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 52.5060, 80.0838, 15.8223 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 52.5060, 80.0838, 15.8223 by changing the saturation by 10% instead.





 52.5060, 80.0838,  
15.8223


 52.5060, 80.0838,  
15.8223


386.6789,  
495.2152, 240.1007


 37.6345, 59.7873,  
9.2455


 93.0469, 133.4835,  
37.0519

 25.8750, 43.2472,  
4.8027


 119.4469,  
167.3556, 52.5418


 16.8624, 30.0791,  
2.0752


 150.4205,  
206.5216, 71.8399

 10.2311, 19.8987,  
0.6010

 186.3330,  
251.3660, 95.3645

 5.6159, 12.3214,  
0.0000

 227.5497,  
302.2732, 123.5344

 2.6514, 6.9630,  
0.0000

274.4360,

 0.9722, 3.4389,

359.6275, 156.7680

0.0000

327.3573,  
423.8134, 195.4839

0.0000, 1.3650,  
0.0000

0.0000, 0.1907,  
0.0000

52.5060, 80.0838,  
15.8223

52.5060, 80.0838,  
15.8223

49.8699, 78.7730,  
13.5251

55.6439, 81.6178,  
19.7518

47.6584, 77.6538,  
12.4771

59.3318, 83.3946,  
25.5425

47.6576, 77.6534,  
12.4768

63.6112, 85.4314,  
33.3905

68.5186, 87.7434,  
43.4660

■ 74.0871, 90.3441,  
55.9216

■ 80.3472, 93.2464,  
70.8964

■ 87.3270, 96.4618,  
88.5188

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



72.9522, 80.0838, 9.5669



52.5060, 80.0838, 15.8223



40.8121, 80.0838, 39.7774

# Triad

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



52.5060, 80.0838, 15.8223



56.9672, 80.0838, 276.4235



134.3483, 80.0838, 78.3239

# Complementary

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



52.5060, 80.0838, 15.8223



29.7171, 14.9926, 95.9353

# 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.



127.4958, 80.0838, 162.3429



52.5060, 80.0838, 15.8223



79.3725, 80.0838, 306.9904

# Square

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



52.5060, 80.0838, 15.8223



42.9675, 80.0838, 187.6524



105.9193, 80.0838, 257.0559



123.0219, 80.0838, 31.0681



# Rectangle

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



52.5060, 80.0838, 15.8223



37.8458, 80.0838, 73.3747



105.9193, 80.0838, 257.0559



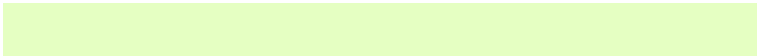
134.1061, 80.0838, 102.6560

# Sweetspot

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



52.5062, 80.0839, 15.8235



77.7559, 92.0474, 64.5900



50.6427, 39.1090, 8.0127



16.1698, 19.4825, 12.6987



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.



52.5062, 80.0839, 15.8235



48.5033, 78.0830, 12.8080



38.7423, 72.9884, 15.1793



18.7691, 20.6824, 19.1472



25.0765, 40.6655, 6.5276



2.5666, 4.0239, 0.6414



# Inverse Universe

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



29.7171, 14.9926, 95.9353



25.1791, 11.0596, 95.4154



54.4944, 27.7658, 97.0949



17.7375, 17.7564, 22.7424



12.8736, 5.5471, 49.8268

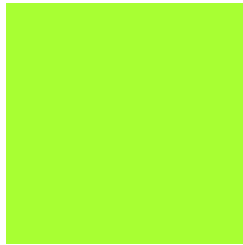


1.3753, 0.6029, 4.8572



# Previews

## White Background



This preview shows how the XYZ color 52.5060, 80.0838, 15.8223 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

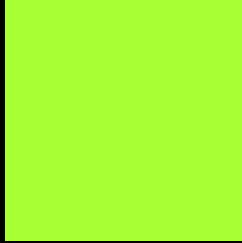
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 52.5060, 80.0838, 15.8223 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 52.5060, 80.0838, 15.8223**

## **Background**



This preview shows how black text looks on a background with the XYZ color 52.5060, 80.0838, 15.8223.



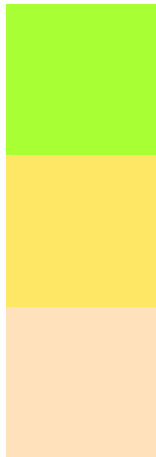
This preview shows how white text looks on a background with the XYZ color 52.5060, 80.0838,



# 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

52.5060, 80.0838, 15.8223

### Protanopia

72.2142, 79.3711, 24.0844

### Deuteranopia

77.4060, 79.2406, 58.2289



## Tritanopia

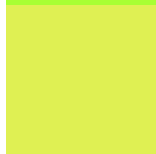
71.0991, 79.5241, 106.2101

# Trichromacy



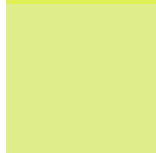
## Original Color

52.5060, 80.0838, 15.8223



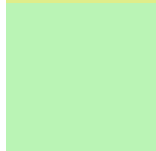
## Protanomaly

63.1528, 78.6327, 20.0327



## Deuteranomaly

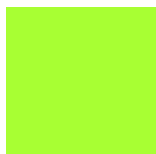
65.3031, 78.0913, 35.6761



## Tritanomaly

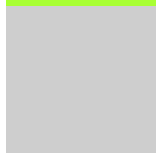
60.9409, 78.4767, 55.6517

# Monochromacy



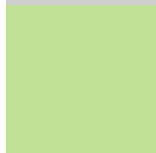
## Original Color

52.5060, 80.0838, 15.8223



## Achromatopsia

58.6655, 61.7207, 67.2138



## Achromatomaly

53.8989, 66.7198, 38.8916

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 52.5060, 80.0838, 15.8223 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(168, 255, 51)` looks like.

```
.text, #text, p{  
    color:rgb(168, 255, 51)  
}
```

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(168, 255, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 255, 51) }
```

## Border

The CSS property to change the border of an element to XYZ 52.5060, 80.0838, 15.8223 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(168, 255, 51) }
```



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

```
.border{ border-color:rgb(168, 255, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(168, 255, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 255, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 255, 51);  
box-shadow:4px 4px 4px 4px rgb(168, 255,  
51) }
```

# Background

The CSS property to change the background color of an element to XYZ 52.5060, 80.0838, 15.8223 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 255, 51) }
```

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

```
.background{ background-color: rgb(168,  
255, 51) }
```

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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