

Converting Colors

XYZ(49.6128, 78.5924, 15.6869)

Have a look what the booklet for
XYZ(49.6128, 78.5924, 15.6869)
contains.

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Color

**XYZ(49.6840, 78.6290,
15.6903)**

Conversions

Conversions Part 1

Format	Color
Hex	9AFF33
RGB	154, 255, 51
RGB Percent	60%, 100%, 20%
CMY	0.3961, 0.0000, 0.8000
CMYK	0.40, 0.00, 0.80, 0.00
HSL	90°, 100%, 60%
HSV	90°, 80%, 100%
XYZ	49.6840, 78.6290, 15.6903
YIQ	201.5450, 5.2880, -84.8560

Conversions

Conversions Part 2

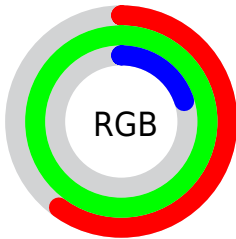
Format	Color
R_{YB}	51, 255, 152
Decimal	10157875
CIE _{Lab}	91.07, -58.72, 79.74
CIE _{LCh}	91, 99.028, 126.365
Yxy	78.6290, 0.3450, 0.5460
Android (android.graphics.Color)	4288347955 (0xFF9AFF33)
YUV	201.5450, -74.2187, -41.6970
Hunter-Lab	88.6730, -55.1631, 51.5800

Details

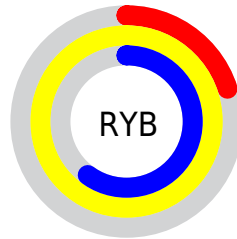
The XYZ color **49.6840, 78.6290, 15.6903** is a light color, and the websafe version is hex **99FF33**. The color can be described as light washed chartreuse. A complement of this color would be **32.1851, 16.2649, 96.0508**, and the grayscale version is **56.3013, 59.2334, 64.5051**.

A 20% lighter version of the original color is **66.8788, 87.2049, 29.5270**, and **24.3799, 42.2078, 6.8620** is the 20% darker color. If you saturate the color by 10%, you get **46.9893, 77.2880, 13.3903**, and if you desaturate by 10%, it is **52.9397, 80.2237, 19.6254**.

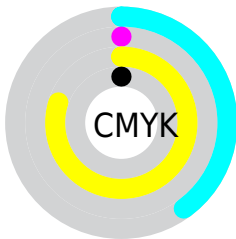
Distribution



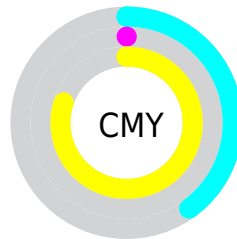
- Red (60%)
- Green (100%)
- Blue (20%)



- Red (20%)
- Yellow (100%)
- Blue (60%)



- Cyan (40%)
- Magenta (0%)
- Yellow (80%)
- Black (0%)





- Cyan (40%)
- Magenta (0%)
- Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 49.6840, 78.6290, 15.6903 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 49.6840, 78.6290, 15.6903 by changing the saturation by 10% instead.


 49.6840, 78.6290,
15.6903

 49.6840, 78.6290,
15.6903


375.9013,
490.3004, 239.2902

 35.3791, 58.5908,
9.1533


 88.9011, 131.4364,
36.8190


 24.1230, 42.2838,
4.7431


 114.5441,
164.9745, 52.2477


 15.5501, 29.3236,
2.0413


 144.6972,
203.7813, 71.4775

 9.2952, 19.3258,
0.5805

 179.7257,
248.2412, 94.9268

 4.9929, 11.9059,
0.0000

 219.9950,
298.7387, 123.0142

 2.2778, 6.6796,
0.0000

265.8705,

 0.7833, 3.2626,

355.6581, 156.1582

0.0000

317.7175,
419.3839, 194.7774

■ 0.0000, 1.2703,
0.0000

■ 0.0000, 0.1180,
0.0000

■ 49.6840, 78.6290,
15.6903

■ 49.6840, 78.6290,
15.6903

■ 46.9893, 77.2880,
13.3903

■ 52.9397, 80.2237,
19.6254

■ 44.7752, 76.1675,
12.3422

■ 56.8073, 82.0932,
25.4245

■ 44.7744, 76.1671,
12.3419

■ 61.3312, 84.2560,
33.2840

■ 66.5504, 86.7287,
43.3742

■ 72.5006, 89.5262,
55.8477

■ 79.2145, 92.6624,
70.8438

■ 86.7226, 96.1502,
88.4909

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.



69.5265, 78.6290, 8.7113



49.6840, 78.6290, 15.6903



38.7565, 78.6290, 41.4040

Triad

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



49.6840, 78.6290, 15.6903



57.0588, 78.6290, 284.0373



133.4694, 78.6290, 71.2282

Complementary

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



49.6840, 78.6290, 15.6903



32.1851, 16.2649, 96.0508

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.



128.0412, 78.6290, 153.5826



49.6840, 78.6290, 15.6903



80.1963, 78.6290, 308.5280

Square

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



49.6840, 78.6290, 15.6903



42.3024, 78.6290, 196.0514



107.0439, 78.6290, 251.3939



120.5548, 78.6290, 27.1481

Rectangle

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



49.6840, 78.6290, 15.6903



36.2693, 78.6290, 77.1728



107.0439, 78.6290, 251.3939



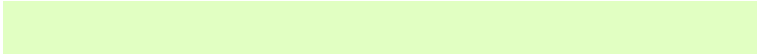
133.7638, 78.6290, 94.6485

Sweetspot

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



49.6842, 78.6291, 15.6915



76.4326, 91.3652, 64.5281



52.6812, 43.1860, 8.6923



15.8524, 19.3188, 12.6838



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.



49.6842, 78.6291, 15.6915



45.6146, 76.5938, 12.6728



37.9012, 72.5548, 15.1400



18.6457, 20.6188, 19.1414



23.5681, 39.8879, 6.4570



2.4208, 3.9487, 0.6346

Inverse Universe

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



32.1851, 16.2649, 96.0508



27.5838, 12.2992, 95.5279



59.2345, 30.2094, 97.3167



17.8597, 17.8194, 22.7481



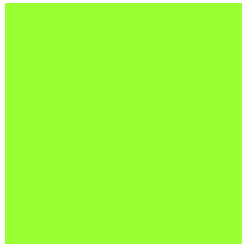
14.1189, 6.1891, 49.8850



1.5005, 0.6675, 4.8630

Previews

White Background



This preview shows how the XYZ color 49.6840, 78.6290, 15.6903 looks on a white background.

Color Contrast Check

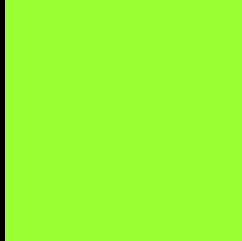
Large Text (above 18pt) WCAG AA × Fail

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 49.6840, 78.6290, 15.6903 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 49.6840, 78.6290, 15.6903

Background



This preview shows how black text looks on a background with the XYZ color 49.6840, 78.6290, 15.6903.



This preview shows how white text looks on a background with the XYZ color 49.6840, 78.6290,

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

49.6840, 78.6290, 15.6903

Protanopia

70.5293, 77.8066, 17.9575

Deuteranopia

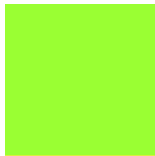
75.8659, 77.3306, 54.1078



Tritanopia

68.3418, 78.1027, 106.0811

Trichromacy



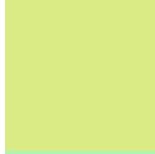
Original Color

49.6840, 78.6290, 15.6903



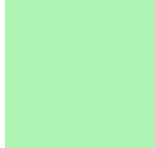
Protanomaly

60.4713, 76.4478, 16.7230



Deuteranomaly

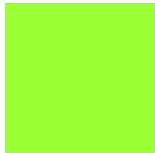
62.8554, 76.0155, 33.5499



Tritanomaly

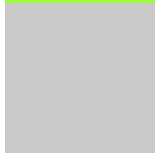
58.1467, 77.0362, 55.5209

Monochromacy



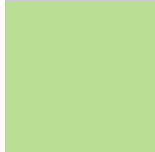
Original Color

49.6840, 78.6290, 15.6903



Achromatopsia

56.1383, 59.0619, 64.3184



Achromatomaly

51.1305, 64.1338, 37.2880

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.6840, 78.6290, 15.6903 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(154, 255, 51)` looks like.

```
.text, #text, p{  
    color:rgb(154, 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(154, 255, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(154, 255, 51) }
```

Border

The CSS property to change the border of an element to XYZ 49.6840, 78.6290, 15.6903 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(154, 255, 51) }
```


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

```
.border{ border-color:rgb(154, 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(154, 255, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(154, 255, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(154, 255, 51);  
box-shadow:4px 4px 4px 4px rgb(154, 255,  
51) }
```

Background

The CSS property to change the background color of an element to XYZ 49.6840, 78.6290, 15.6903 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(154, 255, 51) }
```

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

```
.background{ background-color: rgb(154,  
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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