

Converting Colors

XYZ(49.1049, 78.3305, 15.6632)

Have a look what the booklet for
XYZ(49.1049, 78.3305, 15.6632)
contains.

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Color

**XYZ(49.1200, 78.3383,
15.6639)**

Conversions

Conversions Part 1

Format	Color
Hex	97FF33
RGB	151, 255, 51
RGB Percent	59%, 100%, 20%
CMY	0.4078, 0.0000, 0.8000
CMYK	0.41, 0.00, 0.80, 0.00
HSL	91°, 100%, 60%
HSV	91°, 80%, 100%
XYZ	49.1200, 78.3383, 15.6639
YIQ	200.6480, 3.5000, -85.4920

Conversions

Conversions Part 2

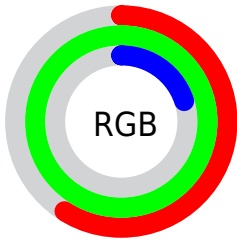
Format	Color
RYB	51, 255, 155
Decimal	9961267
CIELab	90.93, -59.68, 79.57
CIElCh	91, 99.465, 126.869
Yxy	78.3383, 0.3432, 0.5474
Android (android.graphics.Color)	4288151347 (0xFF97FF33)
YUV	200.6480, -73.7765, -43.5413
Hunter-Lab	88.5089, -55.8281, 51.4634

Details

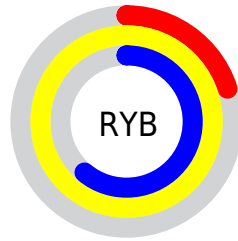
The XYZ color **49.1200, 78.3383, 15.6639** is a light color, and the websafe version is hex **99FF33**. The color can be described as light washed chartreuse. A complement of this color would be **32.7539, 16.5582, 96.0775**, and the grayscale version is **55.7406, 58.6434, 63.8627**.

A 20% lighter version of the original color is **66.0059, 86.7549, 29.4861**, and **24.0861, 42.0564, 6.8482** is the 20% darker color. If you saturate the color by 10%, you get **46.4220, 76.9956, 13.3638**, and if you desaturate by 10%, it is **52.3922, 79.9415, 19.5997**.

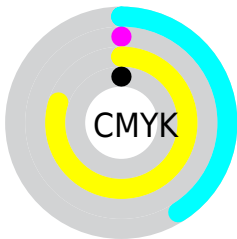
Distribution



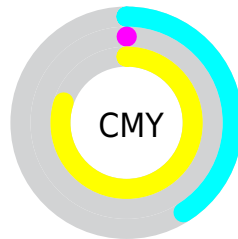
- Red (59%)
- Green (100%)
- Blue (20%)



- Red (20%)
- Yellow (100%)
- Blue (61%)



- Cyan (41%)
- Magenta (0%)
- Yellow (80%)
- Black (0%)





- Cyan (41%)
- Magenta (0%)
- Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 49.1200, 78.3383, 15.6639 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 49.1200, 78.3383, 15.6639 by changing the saturation by 10% instead.


 49.1200, 78.3383,
15.6639


 49.1200, 78.3383,
15.6639


373.7237,
489.3150, 239.1278

 34.9296, 58.3519,
9.1349


 88.0693, 131.0269,
36.7724

 23.7749, 42.0916,
4.7312


 113.5589,
164.4979, 52.1889


 15.2906, 29.1731,
2.0345


 143.5457,
203.2326, 71.4049

 9.1112, 19.2118,
0.5764

 178.3949,
247.6154, 94.8391

 4.8715, 11.8234,
0.0000

 218.4720,
298.0306, 122.9100

 2.2060, 6.6235,
0.0000

264.1422,

 0.7459, 3.2278,

354.8627, 156.0360

0.0000

315.7710,
418.4960, 194.6358

■ 0.0000, 1.2518,
0.0000

■ 0.0000, 0.1034,
0.0000

■ 49.1200, 78.3383,
15.6639

■ 49.1200, 78.3383,
15.6639

■ 46.4220, 76.9956,
13.3638

■ 52.3922, 79.9415,
19.5997

■ 44.2172, 75.8798,
12.3161

■ 56.2904, 81.8267,
25.4003

■ 44.2164, 75.8794,
12.3158

■ 60.8597, 84.0130,
33.2619

■ 66.1398, 86.5171,
43.3549

■ 72.1670, 89.3543,
55.8320

■ 78.9746, 92.5387,
70.8325

■ 86.5937, 96.0837,
88.4848

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.



68.8409, 78.3383, 8.5421



49.1200, 78.3383, 15.6639



38.3450, 78.3383, 41.7468

Triad

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



49.1200, 78.3383, 15.6639



57.0819, 78.3383, 285.6483



133.3011, 78.3383, 69.8294

Complementary

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



49.1200, 78.3383, 15.6639



32.7539, 16.5582, 96.0775

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.



128.1649, 78.3383, 151.8344



49.1200, 78.3383, 15.6639



80.3731, 78.3383, 308.8753

Square

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



49.1200, 78.3383, 15.6639



42.1694, 78.3383, 197.8278



107.2855, 78.3383, 250.2637



120.0621, 78.3383, 26.3866

Rectangle

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



49.1200, 78.3383, 15.6639



35.9530, 78.3383, 77.9761



107.2855, 78.3383, 250.2637



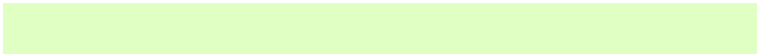
133.7054, 78.3383, 93.0626

Sweetspot

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



49.1201, 78.3384, 15.6651



76.1531, 91.2211, 64.5150



53.2298, 44.2832, 8.8751



15.7856, 19.2844, 12.6807



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.



49.1201, 78.3384, 15.6651



45.0514, 76.3035, 12.6465



37.7235, 72.4632, 15.1317



18.6194, 20.6052, 19.1402



23.2753, 39.7369, 6.4433



2.3919, 3.9338, 0.6332

Inverse Universe

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



32.7539, 16.5582, 96.0775



28.1535, 12.5929, 95.5546



60.4743, 30.8485, 97.3748



17.8860, 17.8330, 22.7494



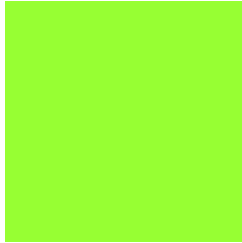
14.4153, 6.3418, 49.8989



1.5297, 0.6825, 4.8644

Previews

White Background



This preview shows how the XYZ color 49.1200, 78.3383, 15.6639 looks on a white background.

Color Contrast Check

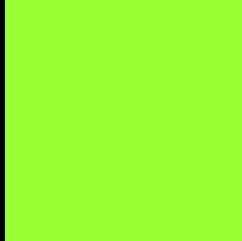
Large Text (above 18pt) WCAG AA × Fail

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 49.1200, 78.3383, 15.6639 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

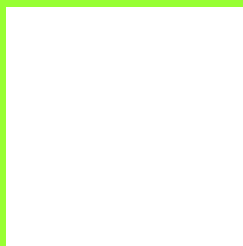
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 49.1200, 78.3383, 15.6639

Background



This preview shows how black text looks on a background with the XYZ color 49.1200, 78.3383, 15.6639.



This preview shows how white text looks on a background with the XYZ color 49.1200, 78.3383, 15.6639.

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

49.1200, 78.3383, 15.6639

Protanopia

70.0268, 77.1642, 16.6722

Deuteranopia

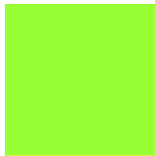
75.7644, 77.2900, 53.5731



Tritanopia

67.6256, 77.7335, 106.0476

Trichromacy



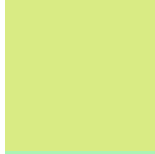
Original Color

49.1200, 78.3383, 15.6639



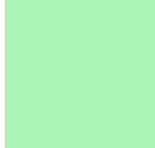
Protanomaly

60.0593, 76.2486, 16.1094



Deuteranomaly

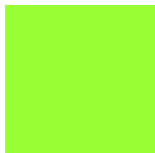
62.4885, 75.8343, 33.1738



Tritanomaly

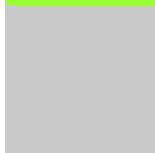
57.4858, 76.6955, 55.4900

Monochromacy



Original Color

49.1200, 78.3383, 15.6639



Achromatopsia

55.5167, 58.4078, 63.6061



Achromatomaly

50.5732, 63.8555, 36.8540

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.1200, 78.3383, 15.6639 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(151, 255, 51)` looks like.

```
.text, #text, p{  
    color:rgb(151, 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(151, 255, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(151, 255, 51) }
```

Border

The CSS property to change the border of an element to XYZ 49.1200, 78.3383, 15.6639 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(151, 255, 51) }
```


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

```
.border{ border-color:rgb(151, 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(151, 255, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(151, 255, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(151, 255, 51);  
box-shadow:4px 4px 4px 4px rgb(151, 255,  
51) }
```

Background

The CSS property to change the background color of an element to XYZ 49.1200, 78.3383, 15.6639 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(151, 255, 51) }
```

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

```
.background{ background-color: rgb(151,  
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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