

# Converting Colors

XYZ(53.1512, 40.3901,  
120.3188)

Have a look what the booklet for  
XYZ(53.1512, 40.3901, 120.3188)  
contains.

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# Color

**XYZ(49.2228, 38.7788,  
99.4985)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BC93FF
RGB	188, 147, 255
RGB Percent	74%, 58%, 100%
CMY	0.2627, 0.4235, 0.0000
CMYK	0.26, 0.42, 0.00, 0.00
HSL	263°, 100%, 79%
HSV	263°, 42%, 100%
XYZ	49.2228, 38.7788, 99.4985
YIQ	171.5710, -10.2320, 42.2800

# Conversions

## Conversions Part 2

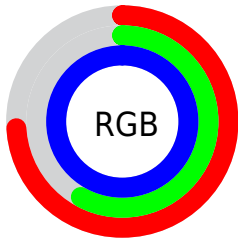
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	188, 147, 255
Decimal	12358655
CIE <sub>Lab</sub>	68.59, 36.91, -48.23
CIE <sub>LCh</sub>	69, 60.736, 307.424
Yxy	38.7788, 0.2625, 0.2068
Android (android.graphics.Color)	4290548735 (0xFFBC93FF)
YUV	171.5710, 41.1305, 14.4082
Hunter-Lab	62.2726, 32.1165, -51.1421

# Details

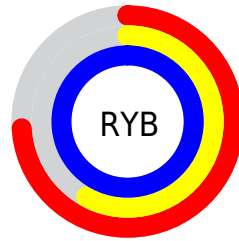
The XYZ color **49.2228, 38.7788, 99.4985** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **68.7582, 87.9228, 40.9520**, and the grayscale version is **38.8001, 40.8207, 44.4538**.

A 20% lighter version of the original color is **77.1766, 69.0539, 103.8688**, and **23.8916, 17.3485, 55.5154** is the 20% darker color. If you saturate the color by 10%, you get **42.0024, 29.8089, 98.1477**, and if you desaturate by 10%, it is **57.7517, 49.7293, 101.1626**.

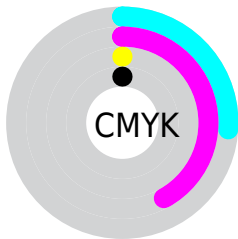
# Distribution



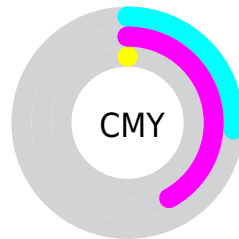
- Red (74%)
- Green (58%)
- Blue (100%)



- Red (74%)
- Yellow (58%)
- Blue (100%)



- Cyan (26%)
- Magenta (42%)
- Yellow (0%)
- Black (0%)




- Cyan (26%)
- Magenta (42%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.2228, 38.7788, 99.4985 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 49.2228, 38.7788, 99.4985 by changing the saturation by 10% instead.





 49.2228, 38.7788,  
99.4985


 49.2228, 38.7788,  
99.4985


374.1212,  
340.9491, 579.8166

 35.0115, 26.5877,  
75.2672


 88.2210, 73.3003,  
162.5137

 23.8383, 17.2638,  
55.3288


 113.7386, 96.3994,  
202.1347

 15.3378, 10.4228,  
39.2647


143.7558,  
123.9034, 247.7227

 9.1447, 5.6802,  
26.6563

178.6377,  
156.1966, 299.6963

 4.8935, 2.6516,  
17.0851

218.7499,  
193.6633, 358.4739

 2.2190, 0.9527,  
10.1326

264.4576,

 0.7527, 0.0000,

236.6881, 424.4741

5.3802

316.1263,  
285.6552, 498.1155

■ 0.0000, 0.0000,  
2.4094

■ 0.0000, 0.0000,  
0.7916

■ 49.2228, 38.7788,  
99.4985

■ 49.2228, 38.7788,  
99.4985

■ 42.0024, 29.8089,  
98.1477

■ 57.7517, 49.7293,  
101.1626

■ 36.0142, 22.6907,  
97.0893

■ 67.6517, 62.7695,  
103.1578

■ 31.1792, 17.2866,  
96.3011

■ 78.9856, 78.0054,  
105.5013

■ 27.4061, 13.4365,  
95.7568

■ 91.8113, 95.5346,  
108.2088

■ 24.5868, 10.9483,  
95.4251

95.0500, 100.0000,  
108.9000

■ 22.9594, 9.7509,  
95.2798

# Harmonies

## Analogous

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



39.2896, 38.7788, 119.1065



49.2228, 38.7788, 99.4985



56.6158, 38.7788, 65.8855

# Triad

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



49.2228, 38.7788, 99.4985



44.3912, 38.7788, 9.8441



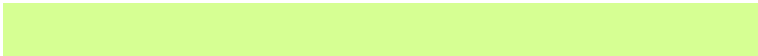
21.4443, 38.7788, 49.4126

# Complementary

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



49.2228, 38.7788, 99.4985



68.7582, 87.9228, 40.9520

# 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.



22.3323, 38.7788, 25.0371



49.2228, 38.7788, 99.4985



34.5291, 38.7788, 8.5424

# Square

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



49.2228, 38.7788, 99.4985



53.5062, 38.7788, 17.5949



26.7596, 38.7788, 12.6583



24.0801, 38.7788, 83.0777



# Rectangle

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



49.2228, 38.7788, 99.4985



58.4904, 38.7788, 44.6392



26.7596, 38.7788, 12.6583



21.3498, 38.7788, 39.8966

# Sweetspot

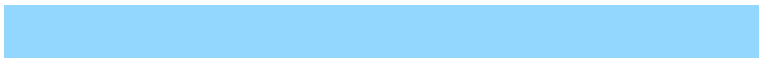
The Sweet Spot groups the original color and five complimentary colors.



49.2241, 38.7803, 99.4987



78.2062, 76.9491, 105.3385



54.4859, 62.2288, 103.7474



16.1814, 15.7159, 22.4306



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.



49.2241, 38.7803, 99.4987



42.9048, 30.9103, 98.3127



64.6236, 46.7190, 100.2194



17.6547, 17.7137, 22.7385



12.1495, 5.1738, 49.7929



1.2998, 0.5640, 4.8536



# Inverse Universe

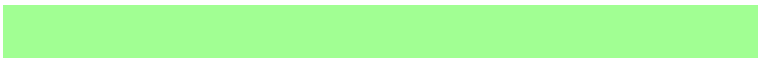
The Inverse Universe completely reimagines the original color for something new.



63.8118, 46.9835, 69.3237



59.6627, 40.3527, 62.7998



55.8060, 81.2457, 40.3458



18.4832, 18.1766, 21.1616



24.8572, 12.4322, 18.4302

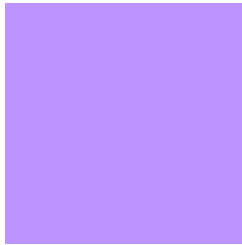


2.4735, 1.2318, 2.0748



# Previews

## White Background



This preview shows how the XYZ color 49.2228, 38.7788, 99.4985 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

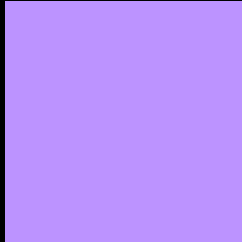
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.2228, 38.7788, 99.4985 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 49.2228, 38.7788, 99.4985**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.2228, 38.7788, 99.4985.



This preview shows how white text looks on a background with the XYZ color 49.2228, 38.7788,



# 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

49.2228, 38.7788, 99.4985

### Protanopia

41.4968, 39.2812, 100.0026

### Deuteranopia

40.2846, 39.2696, 96.7234



## Tritanopia

38.6668, 38.7239, 47.0315

# Trichromacy



## Original Color

49.2228, 38.7788, 99.4985

## Protanomaly

43.6033, 38.5437, 99.7493

## Deuteranomaly

42.7192, 38.6539, 97.3049

## Tritanomaly

41.8367, 38.4452, 62.9732

# Monochromacy



## Original Color

49.2228, 38.7788, 99.4985

## Achromatopsia

39.2122, 41.2543, 44.9259

## Achromatomaly

42.1180, 39.9236, 61.3633

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.2228, 38.7788, 99.4985 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(188, 147, 255)` looks like.

```
.text, #text, p{  
    color:rgb(188, 147, 255)  
}
```

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(188, 147, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(188, 147, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 49.2228, 38.7788, 99.4985 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(188, 147, 255) }
```



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

```
.border{ border-color:rgb(188, 147, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(188, 147, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(188, 147, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(188, 147, 255);  
box-shadow:4px 4px 4px 4px rgb(188, 147,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.2228, 38.7788, 99.4985 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(188, 147, 255) }
```

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

```
.background{ background-color: rgb(188,  
147, 255) }
```

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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