

# Converting Colors

XYZ(50.8816, 41.7613, 99.9867)

Have a look what the booklet for  
XYZ(50.8816, 41.7613, 99.9867)  
contains.

<b>XYZ(50.9247, 41.8158, 99.9950)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(50.9247, 41.8158,  
99.9950)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BD9CFF
RGB	189, 156, 255
RGB Percent	74%, 61%, 100%
CMY	0.2588, 0.3882, 0.0000
CMYK	0.26, 0.39, 0.00, 0.00
HSL	260°, 100%, 81%
HSV	260°, 39%, 100%
XYZ	50.9247, 41.8158, 99.9950
YIQ	177.1530, -12.1110, 37.7850

# Conversions

## Conversions Part 2

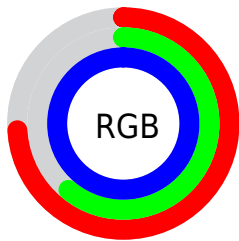
Format	Color
R <sub>Y</sub> B	189, 156, 255
Decimal	12426495
CIE Lab	70.74, 32.20, -44.84
CIE LCh	71, 55.211, 305.684
Yxy	41.8158, 0.2642, 0.2170
Android (android.graphics.Color)	4290616575 (0xFFBD9CFF)
YUV	177.1530, 38.3786, 10.3898
Hunter-Lab	64.6651, 27.4073, -46.4176

# Details

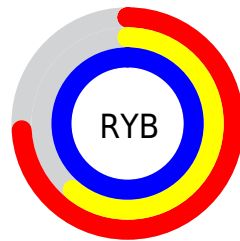
The XYZ color **50.9247, 41.8158, 99.9950** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **71.8856, 89.4502, 44.9310**, and the grayscale version is **41.6809, 43.8515, 47.7543**.

A 20% lighter version of the original color is **79.7020, 73.5827, 104.6099**, and **24.8162, 18.9644, 55.7786** is the 20% darker color. If you saturate the color by 10%, you get **43.1137, 32.0906, 98.5295**, and if you desaturate by 10%, it is **60.1309, 53.5952, 101.7834**.

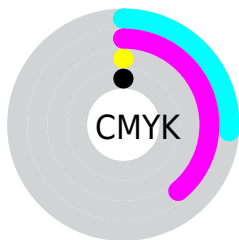
# Distribution



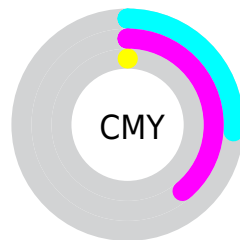
- Red (74%)
- Green (61%)
- Blue (100%)



- Red (74%)
- Yellow (61%)
- Blue (100%)



- Cyan (26%)
- Magenta (39%)
- Yellow (0%)
- Black (0%)



- Cyan (26%)
- Magenta (39%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.9247, 41.8158, 99.9950 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 50.9247, 41.8158, 99.9950 by changing the saturation by 10% instead.





 50.9247, 41.8158,  
99.9950


 50.9247, 41.8158,  
99.9950


380.6636,  
353.7188, 581.4232

 36.3695, 28.9571,  
75.6795


 90.7271, 77.9208,  
163.2021

 24.8911, 19.0484,  
55.6647


 116.7050,  
101.9358, 202.9308

 16.1243, 11.7052,  
39.5319

147.2212,  
130.4384, 248.6344

 9.7035, 6.5433,  
26.8628

182.6410,  
163.8130, 300.7313

 5.2636, 3.1782,  
17.2387

223.3298,  
202.4439, 359.6400

 2.4391, 1.2254,  
10.2410

269.6529,

 0.8646, 0.0823,

246.7156, 425.7793

5.4514

321.9758,  
297.0124, 499.5675

■ 0.0000, 0.0000,  
2.4511

■ 0.0000, 0.0000,  
0.8141

■ 50.9247, 41.8158,  
99.9950

■ 50.9247, 41.8158,  
99.9950

■ 43.1137, 32.0906,  
98.5295

■ 60.1309, 53.5952,  
101.7834

■ 36.6201, 24.2928,  
97.3666

■ 70.7960, 67.5359,  
103.9121

■ 31.3642, 18.2885,  
96.4847

■ 82.9847, 83.7430,  
106.3980

■ 27.2549, 13.9239,  
95.8588

95.0500, 100.0000,  
108.9000

■ 24.1866, 11.0179,  
95.4596

■ 22.0134, 9.3116,  
95.2448

■ 21.7964, 9.1513,  
95.2253

# Harmonies

## Analogous

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



41.5140, 41.8158, 116.3946



50.9247, 41.8158, 99.9950



58.0450, 41.8158, 69.6095

# Triad

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



50.9247, 41.8158, 99.9950



47.4443, 41.8158, 13.3046



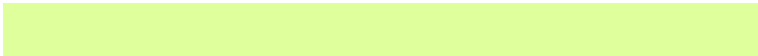
24.6730, 41.8158, 50.7089

# Complementary

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



50.9247, 41.8158, 99.9950



71.8856, 89.4502, 44.9310

# 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.



25.7623, 41.8158, 27.7635



50.9247, 41.8158, 99.9950



38.0263, 41.8158, 11.5294

# Square

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



50.9247, 41.8158, 99.9950



55.8293, 41.8158, 21.9966



30.3338, 41.8158, 15.6271



27.0905, 41.8158, 81.7311



# Rectangle

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



50.9247, 41.8158, 99.9950



60.0132, 41.8158, 49.4317



30.3338, 41.8158, 15.6271



24.6464, 41.8158, 41.8398

# Sweetspot

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



50.9261, 41.8174, 99.9952



78.9423, 78.3407, 105.5683



57.8826, 66.5315, 104.3989



16.5511, 16.3075, 22.5253



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.



50.9261, 41.8174, 99.9952



44.4366, 33.7154, 98.7734



65.3673, 49.2621, 100.6710



17.5735, 17.6718, 22.7347



11.5297, 4.8543, 49.7639



1.2329, 0.5295, 4.8505



# Inverse Universe

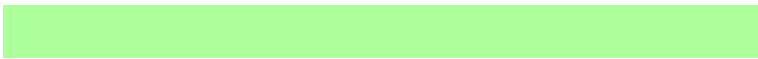
The Inverse Universe completely reimagines the original color for something new.



66.3140, 50.3122, 75.3240



62.1970, 43.5387, 69.4491



58.8850, 82.7481, 44.3226



18.5201, 18.1914, 21.3562



25.4122, 12.6542, 21.3529

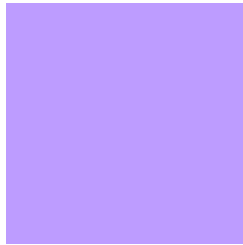


2.5251, 1.2524, 2.3463



# Previews

## White Background



This preview shows how the XYZ color 50.9247, 41.8158, 99.9950 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

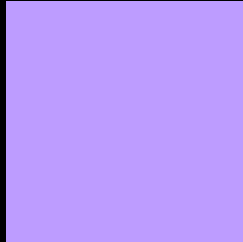
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 50.9247, 41.8158, 99.9950 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

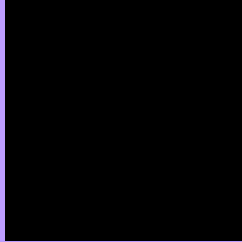
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 50.9247, 41.8158, 99.9950

## Background



This preview shows how black text looks on a background with the XYZ color 50.9247, 41.8158, 99.9950.



This preview shows how white text looks on a background with the XYZ color 50.9247, 41.8158,



# 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

50.9247, 41.8158, 99.9950

### Protanopia

43.9263, 41.8987, 100.3798

### Deuteranopia

43.3077, 42.1960, 97.9575



## Tritanopia

41.1191, 41.8166, 51.2516

# Trichromacy



## Original Color

50.9247, 41.8158, 99.9950

## Protanomaly

46.0023, 41.6039, 100.2135

## Deuteranomaly

45.4664, 41.6334, 98.5682

## Tritanomaly

44.3251, 41.7493, 66.6950

# Monochromacy



## Original Color

50.9247, 41.8158, 99.9950

## Achromatopsia

41.7894, 43.9657, 47.8787

## Achromatomaly

44.2635, 42.6075, 63.6487

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.9247, 41.8158, 99.9950 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(189, 156, 255)` looks like.

```
.text, #text, p{  
    color:rgb(189, 156, 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(189, 156, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 156, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 50.9247, 41.8158, 99.9950 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(189, 156, 255) }
```



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

```
.border{ border-color:rgb(189, 156, 255) }
```

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

Here you see how a box with a 4 pixel rgb(189, 156, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 156, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 156, 255);  
box-shadow:4px 4px 4px 4px rgb(189, 156,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.9247, 41.8158, 99.9950 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 156, 255) }
```

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

```
.background{ background-color: rgb(189,  
156, 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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