

# Converting Colors

XYZ(52.2824, 41.5362,  
113.4771)

Have a look what the booklet for  
XYZ(52.2824, 41.5362, 113.4771)  
contains.

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# Color

**XYZ(49.6909, 40.4416,  
99.7947)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BA99FF
RGB	186, 153, 255
RGB Percent	73%, 60%, 100%
CMY	0.2706, 0.4000, 0.0000
CMYK	0.27, 0.40, 0.00, 0.00
HSL	259°, 100%, 80%
HSV	259°, 40%, 100%
XYZ	49.6909, 40.4416, 99.7947
YIQ	174.4950, -13.0740, 38.7180

# Conversions

## Conversions Part 2

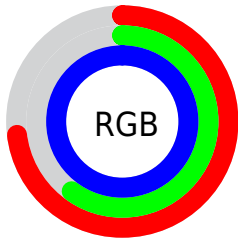
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">186, 153, 255</a>
Decimal	<a href="#">12229119</a>
CIELab	<a href="#">69.78, 33.04, -46.37</a>
CIELCh	<a href="#">70, 56.938, 305.470</a>
Yxy	<a href="#">40.4416, 0.2616, 0.2129</a>
Android (android.graphics.Color)	<a href="#">4290419199 (0xFFBA99FF)</a>
YUV	<a href="#">174.4950, 39.6890, 10.0899</a>
Hunter-Lab	<a href="#">63.5937, 28.1875, -48.5255</a>

# Details

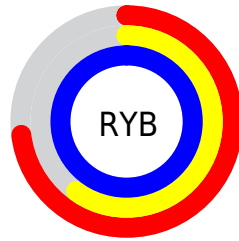
The XYZ color **49.6909, 40.4416, 99.7947** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **71.6344, 89.3497, 43.6092**, and the grayscale version is **40.2948, 42.3933, 46.1663**.

A 20% lighter version of the original color is **77.9141, 71.5648, 104.3146**, and **24.0526, 18.1304, 55.6579** is the 20% darker color. If you saturate the color by 10%, you get **42.0139, 30.9369, 98.3648**, and if you desaturate by 10%, it is **58.7683, 51.9936, 101.5461**.

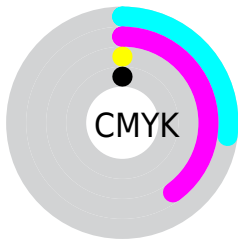
# Distribution



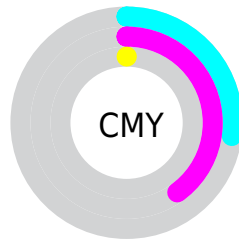
- Red (73%)
- Green (60%)
- Blue (100%)



- Red (73%)
- Yellow (60%)
- Blue (100%)



- Cyan (27%)
- Magenta (40%)
- Yellow (0%)
- Black (0%)




- Cyan (27%)
- Magenta (40%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.6909, 40.4416, 99.7947 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 49.6909, 40.4416, 99.7947 by changing the saturation by 10% instead.





 49.6909, 40.4416,  
99.7947


 49.6909, 40.4416,  
99.7947


375.9279,  
347.9813, 580.7753

 35.3847, 27.8830,  
75.5132


 88.9113, 75.8355,  
162.9244

 24.1272, 18.2375,  
55.5291


 114.5562, 99.4396,  
202.6097

 15.5533, 11.1206,  
39.4241


144.7113,  
127.4943, 248.2667

 9.2974, 6.1480,  
26.7794

179.7420,  
160.3841, 300.3138

 4.9943, 2.9353,  
17.1767

220.0136,  
198.4933, 359.1697

 2.2787, 1.0980,  
10.1972

265.8916,

 0.7837, 0.0000,

242.2063, 425.2529

5.4226

317.7413,  
291.9075, 498.9819

■ 0.0000, 0.0000,  
2.4343

■ 0.0000, 0.0000,  
0.8050

■ 49.6909, 40.4416,  
99.7947

■ 49.6909, 40.4416,  
99.7947

■ 42.0139, 30.9369,  
98.3648

■ 58.7683, 51.9936,  
101.5461

■ 35.6578, 23.3510,  
97.2356

■ 69.3113, 65.7016,  
103.6363

■ 30.5412, 17.5477,  
96.3851

■ 81.3857, 81.6721,  
106.0825

■ 26.5706, 13.3701,  
95.7880

95.0500, 100.0000,  
108.9000

■ 23.6368, 10.6323,  
95.4142

■ 21.5737, 9.0366,  
95.2149

■ 21.5734, 9.0364,  
95.2149

# Harmonies

## Analogous

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



40.1562, 40.4416, 116.5365



49.6909, 40.4416, 99.7947



56.9620, 40.4416, 68.7021

# Triad

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



49.6909, 40.4416, 99.7947



46.2922, 40.4416, 12.0802



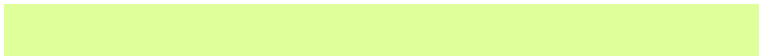
23.3332, 40.4416, 49.0620

# Complementary

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



49.6909, 40.4416, 99.7947



71.6344, 89.3497, 43.6092

# 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.



24.4413, 40.4416, 26.1151



49.6909, 40.4416, 99.7947



36.7705, 40.4416, 10.3319

# Square

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



49.6909, 40.4416, 99.7947



54.7900, 40.4416, 20.6251



29.0277, 40.4416, 14.2448



25.7145, 40.4416, 80.6278



# Rectangle

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



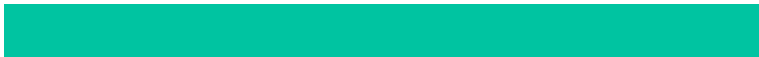
49.6909, 40.4416, 99.7947



58.9968, 40.4416, 48.1739



29.0277, 40.4416, 14.2448



23.3150, 40.4416, 40.1384

# Sweetspot

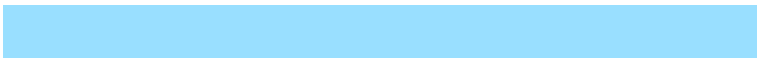
The Sweet Spot groups the original color and five complimentary colors.



49.6923, 40.4431, 99.7950



78.8436, 78.2899, 105.5637



57.4954, 66.6084, 104.4341



16.5279, 16.2956, 22.5242



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.



49.6923, 40.4431, 99.7950



43.4402, 32.6791, 98.6259



64.1338, 47.8880, 100.4708



17.5563, 17.6630, 22.7339



11.4104, 4.7927, 49.7583



1.2197, 0.5227, 4.8499



# Inverse Universe

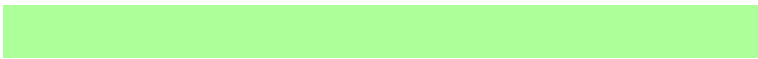
The Inverse Universe completely reimagines the original color for something new.



65.8167, 49.3176, 75.1580



61.8900, 42.8526, 69.5687



58.4582, 82.5571, 42.9926



18.5280, 18.1945, 21.3975



25.5361, 12.7037, 22.0056

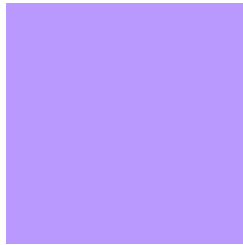


2.5365, 1.2570, 2.4064



# Previews

## White Background



This preview shows how the XYZ color 49.6909, 40.4416, 99.7947 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

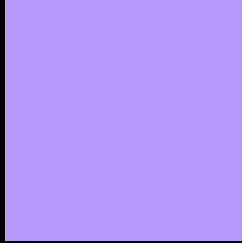
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.6909, 40.4416, 99.7947 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

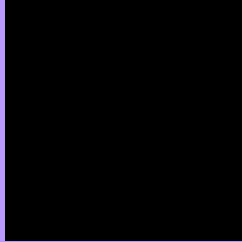
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 49.6909, 40.4416, 99.7947**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.6909, 40.4416, 99.7947.



This preview shows how white text looks on a background with the XYZ color 49.6909, 40.4416,



# 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

49.6909, 40.4416, 99.7947

### Protanopia

42.8678, 40.8007, 100.2237

### Deuteranopia

41.7503, 40.5551, 97.7229



## Tritanopia

39.6447, 40.5240, 49.9884

# Trichromacy



## Original Color

49.6909, 40.4416, 99.7947

## Protanomaly

45.0518, 40.5825, 100.0665

## Deuteranomaly

44.1532, 40.1563, 98.3523

## Tritanomaly

42.7373, 40.1449, 65.8179

# Monochromacy



## Original Color

49.6909, 40.4416, 99.7947

## Achromatopsia

40.2316, 42.3268, 46.0938

## Achromatomaly

42.7758, 41.0492, 62.1687

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.6909, 40.4416, 99.7947 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(186, 153, 255)` looks like.

```
.text, #text, p{  
    color:rgb(186, 153, 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(186, 153, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(186, 153, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 49.6909, 40.4416, 99.7947 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(186, 153, 255) }
```



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

```
.border{ border-color:rgb(186, 153, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(186, 153, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(186, 153, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(186, 153, 255);  
box-shadow:4px 4px 4px 4px rgb(186, 153,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.6909, 40.4416, 99.7947 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(186, 153, 255) }
```

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

```
.background{ background-color: rgb(186,  
153, 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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