

# Converting Colors

XYZ(47.2512, 38.7285,  
127.3647)

Have a look what the booklet for  
XYZ(47.2512, 38.7285, 127.3647)  
contains.

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# Color

**XYZ(42.0000, 36.7208,  
99.4819)**

# Conversions

## Conversions Part 1

Format	Color
Hex	959AFF
RGB	149, 154, 255
RGB Percent	58%, 60%, 100%
CMY	0.4157, 0.3961, 0.0000
CMYK	0.42, 0.40, 0.00, 0.00
HSL	237°, 100%, 79%
HSV	237°, 42%, 100%
XYZ	42.0000, 36.7208, 99.4819
YIQ	164.0190, -35.4010, 30.3510

# Conversions

## Conversions Part 2

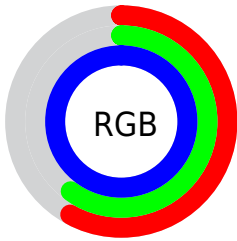
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	149, 154, 255
Decimal	9804543
CIE <sub>Lab</sub>	67.07, 22.79, -50.85
CIE <sub>LCh</sub>	67, 55.724, 294.141
Yxy	36.7208, 0.2357, 0.2061
Android (android.graphics.Color)	4287994623 (0xFF959AFF)
YUV	164.0190, 44.8536, -13.1717
Hunter-Lab	60.5977, 17.6716, -54.9167

# Details

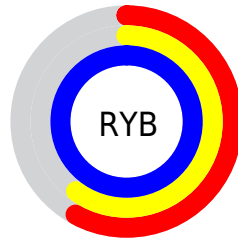
The XYZ color **42.0000, 36.7208, 99.4819** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **80.8513, 91.8023, 41.8939**, and the grayscale version is **35.1023, 36.9303, 40.2171**.

A 20% lighter version of the original color is **66.3380, 65.5971, 103.7729**, and **19.4569, 16.0530, 55.4991** is the 20% darker color. If you saturate the color by 10%, you get **34.2342, 27.3552, 98.0835**, and if you desaturate by 10%, it is **51.5983, 48.2371, 101.1989**.

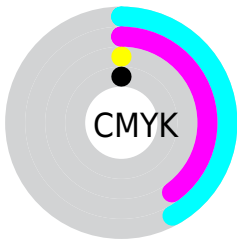
# Distribution



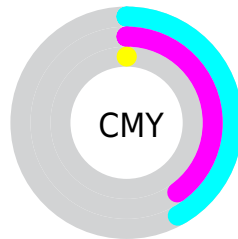
- Red (58%)
- Green (60%)
- Blue (100%)



- Red (58%)
- Yellow (60%)
- Blue (100%)



- Cyan (42%)
- Magenta (40%)
- Yellow (0%)
- Black (0%)



- Cyan (42%)
- Magenta (40%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.0000, 36.7208, 99.4819 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 42.0000, 36.7208, 99.4819 by changing the saturation by 10% instead.



■ 42.0000, 36.7208,  
99.4819

■ 42.0000, 36.7208,  
99.4819

345.4746,  
332.1002, 579.7628

■ 29.2924, 24.9914,  
75.2534

■ 77.4648, 70.1432,  
162.4907

■ 19.4475, 16.0706,  
55.3176

■ 100.9527, 92.6049,  
202.1081

■ 12.1000, 9.5742,  
39.2557

128.7647,  
119.4129, 247.6922

■ 6.8845, 5.1175,  
26.6494

161.2663,  
150.9515, 299.6616

■ 3.4357, 2.3164,  
17.0800

198.8227,  
187.6051, 358.4349

■ 1.3881, 0.7824,  
10.1289

241.7993,

■ 0.2477, 0.0000,

229.7582, 424.4304

5.3778

290.5615,  
277.7951, 498.0669

■ 0.0000, 0.0000,  
2.4080

■ 0.0000, 0.0000,  
0.7908

■ 42.0000, 36.7208,  
99.4819

■ 42.0000, 36.7208,  
99.4819

■ 34.2342, 27.3552,  
98.0835

■ 51.5983, 48.2371,  
101.1989

■ 28.1807, 20.0033,  
96.9835

■ 63.1316, 62.0221,  
103.2518

■ 23.7109, 14.5184,  
96.1604

■ 76.6993, 78.1896,  
105.6574

■ 20.6764, 10.7322,  
95.5895

■ 92.3927, 96.8449,  
108.4311

■ 18.9006, 8.4460,  
95.2418

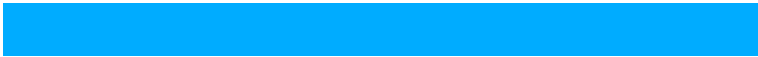
95.0500, 100.0000,  
108.9000

■ 18.1818, 7.4835,  
95.0939

# Harmonies

## Analogous

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



33.2648, 36.7208, 106.6967



42.0000, 36.7208, 99.4819



49.8451, 36.7208, 74.0261

# Triad

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



42.0000, 36.7208, 99.4819



45.3447, 36.7208, 12.8321



21.0716, 36.7208, 35.4054

# Complementary

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



42.0000, 36.7208, 99.4819



80.8513, 91.8023, 41.8939

# 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.



23.2907, 36.7208, 18.4016



42.0000, 36.7208, 99.4819



36.5920, 36.7208, 9.2075

# Square

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



42.0000, 36.7208, 99.4819



51.9846, 36.7208, 23.7716



28.6525, 36.7208, 10.7260



22.0434, 36.7208, 62.2686



# Rectangle

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



42.0000, 36.7208, 99.4819



53.0415, 36.7208, 54.1403



28.6525, 36.7208, 10.7260



21.4561, 36.7208, 28.5372

# Sweetspot

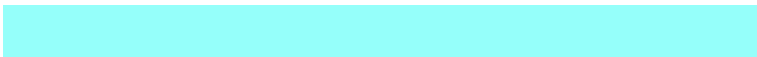
The Sweet Spot groups the original color and five complimentary colors.



42.0013, 36.7221, 99.4821



76.0683, 77.4386, 105.5457



65.3636, 84.7933, 103.1179



15.8795, 16.0962, 22.5199



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.



42.0013, 36.7221, 99.4821



35.3349, 28.6862, 98.2824



51.7462, 40.5465, 99.7067



17.0717, 17.5150, 22.7309



9.5294, 3.9684, 49.6983



0.9509, 0.4326, 4.8466



# Inverse Universe

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



57.8211, 45.0895, 36.2287



53.1632, 38.2759, 26.9623



67.0017, 86.9990, 41.6967



18.0441, 18.0009, 18.8493



21.5982, 11.1286, 1.2687

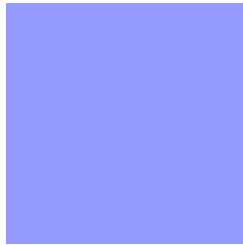


2.1146, 1.0882, 0.1849



# Previews

## White Background



This preview shows how the XYZ color 42.0000, 36.7208, 99.4819 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

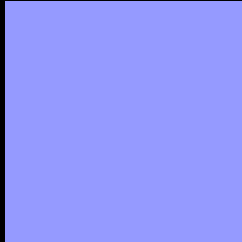
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.0000, 36.7208, 99.4819 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

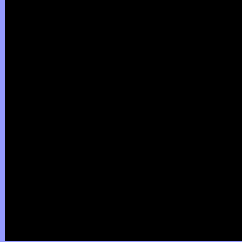
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 42.0000, 36.7208, 99.4819**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.0000, 36.7208, 99.4819.



This preview shows how white text looks on a background with the XYZ color 42.0000, 36.7208,



# 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

42.0000, 36.7208, 99.4819

### Protanopia

39.3732, 36.8736, 99.6499

### Deuteranopia

38.0293, 36.9992, 98.0657



## Tritanopia

32.0953, 36.6201, 50.1765

# Trichromacy



## Original Color

42.0000, 36.7208, 99.4819

## Protanomaly

40.2685, 36.8246, 99.5932

## Deuteranomaly

39.3623, 36.8866, 98.8111

## Tritanomaly

35.2653, 36.5576, 65.5192

# Monochromacy



## Original Color

42.0000, 36.7208, 99.4819

## Achromatopsia

35.2861, 37.1238, 40.4278

## Achromatomaly

36.9469, 36.5438, 57.9297

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.0000, 36.7208, 99.4819 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(149, 154, 255)` looks like.

```
.text, #text, p{  
    color:rgb(149, 154, 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(149, 154, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(149, 154, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 42.0000, 36.7208, 99.4819 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(149, 154, 255) }
```



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

```
.border{ border-color:rgb(149, 154, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(149, 154, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(149, 154, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(149, 154, 255);  
box-shadow:4px 4px 4px 4px rgb(149, 154,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.0000, 36.7208, 99.4819 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(149, 154, 255) }
```

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

```
.background{ background-color: rgb(149,  
154, 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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