

# Converting Colors

XYZ(46.8626, 42.1767, 98.1639)

Have a look what the booklet for  
XYZ(46.8626, 42.1767, 98.1639)  
contains.

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# Color

**XYZ(46.7517, 42.0455,  
97.7470)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A6A5FC
RGB	166, 165, 252
RGB Percent	65%, 65%, 99%
CMY	0.3490, 0.3529, 0.0118
CMYK	0.34, 0.35, 0.00, 0.01
HSL	241°, 94%, 82%
HSV	241°, 35%, 99%
XYZ	46.7517, 42.0455, 97.7470
YIQ	175.2170, -27.3310, 27.2690

# Conversions

## Conversions Part 2

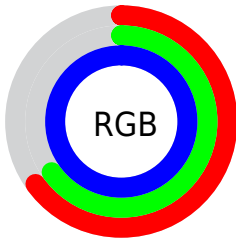
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	166, 165, 252
Decimal	10921468
CIELab	70.90, 20.11, -43.10
CIELCh	71, 47.565, 295.013
Yxy	42.0455, 0.2506, 0.2254
Android (android.graphics.Color)	4289111548 (0xFFA6A5FC)
YUV	175.2170, 37.8540, -8.0833
Hunter-Lab	64.8425, 15.2248, -43.9871

# Details

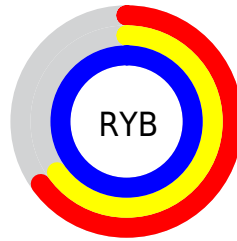
The XYZ color **46.7517, 42.0455, 97.7470** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **81.3862, 92.8474, 49.2306**, and the grayscale version is **40.6814, 42.8000, 46.6092**.

A 20% lighter version of the original color is **74.0746, 74.0944, 105.0052**, and **22.3110, 19.1299, 54.1463** is the 20% darker color. If you saturate the color by 10%, you get **37.9206, 31.3979, 96.1580**, and if you desaturate by 10%, it is **57.4926, 55.0085, 99.6838**.

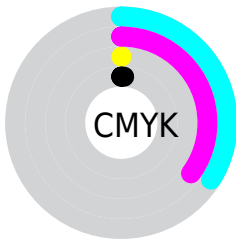
# Distribution



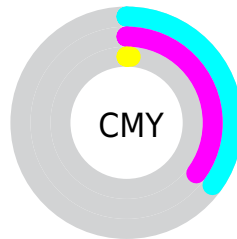
- Red (65%)
- Green (65%)
- Blue (99%)



- Red (65%)
- Yellow (65%)
- Blue (99%)



- Cyan (34%)
- Magenta (35%)
- Yellow (0%)
- Black (1%)



- Cyan (35%)
- Magenta (35%)
- Yellow (1%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.7517, 42.0455, 97.7470 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 46.7517, 42.0455, 97.7470 by changing the saturation by 10% instead.



■ 46.7517, 42.0455,  
97.7470

■ 46.7517, 42.0455,  
97.7470

364.4880,  
354.6715, 574.1298

■ 33.0465, 29.1369,  
73.8139

■ 84.5639, 78.2685,  
160.0824

■ 22.3215, 19.1844,  
54.1459

■ 109.4016,  
102.3517, 199.3217

■ 14.2112, 11.8036,  
38.3243

138.6809,  
130.9285, 244.5003

■ 8.3504, 6.6101,  
25.9307

172.7670,  
164.3834, 296.0366

■ 4.3737, 3.2195,  
16.5465

212.0255,  
203.1008, 354.3491

■ 1.9156, 1.2474,  
9.7532

256.8216,

■ 0.5859, 0.0999,

247.4650, 419.8565

5.1322

307.5206,  
297.8604, 492.9772

■ 0.0000, 0.0000,  
2.2649

■ 0.0000, 0.0000,  
0.7115

■ 46.7517, 42.0455,  
97.7470

■ 46.7517, 42.0455,  
97.7470

■ 37.9206, 31.3979,  
96.1580

■ 57.4926, 55.0085,  
99.6838

■ 30.8833, 22.9250,  
94.8935

■ 70.2411, 70.4070,  
101.9841

■ 25.5182, 16.4784,  
93.9319

■ 85.0939, 88.3584,  
104.6662

■ 21.6870, 11.8889,  
93.2480

94.5708, 99.8083,  
106.3768

■ 19.2291, 8.9603,  
92.8123

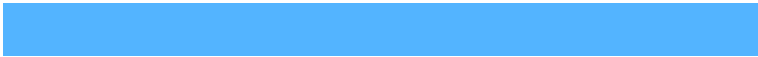
■ 17.9483, 7.4521,  
92.5887

■ 17.6071, 7.0470,  
92.5285

# Harmonies

## Analogous

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



38.6542, 42.0455, 104.3990



46.7517, 42.0455, 97.7470



53.7780, 42.0455, 75.6065

# Triad

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



46.7517, 42.0455, 97.7470



49.3431, 42.0455, 18.5450



26.6346, 42.0455, 42.0939

# Complementary

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



46.7517, 42.0455, 97.7470



81.3862, 92.8474, 49.2306

# 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.



28.7431, 42.0455, 25.0553



46.7517, 42.0455, 97.7470



41.3010, 42.0455, 14.6342

# Square

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



46.7517, 42.0455, 97.7470



55.4073, 42.0455, 29.7093



33.8655, 42.0455, 16.5465



27.6937, 42.0455, 66.8004



# Rectangle

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



46.7517, 42.0455, 97.7470



56.5464, 42.0455, 58.0061



33.8655, 42.0455, 16.5465



26.9873, 42.0455, 35.4059

# Sweetspot

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



46.7532, 42.0471, 97.7480



78.7747, 80.3246, 105.9601



67.8992, 84.6494, 104.8566



16.4097, 16.6474, 22.5983



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.



46.7532, 42.0471, 97.7480



41.9123, 35.8185, 99.3124



57.1803, 47.4225, 98.2360



16.3015, 16.6526, 21.7404



9.1799, 3.6751, 48.1991



0.8565, 0.3436, 4.4644



# Inverse Universe

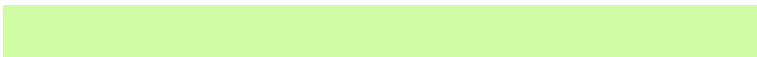
The Inverse Universe completely reimagines the original color for something new.



71.0135, 54.5720, 98.0575



70.0752, 50.3594, 99.6227



67.7563, 85.8209, 48.5927



17.9840, 17.5209, 21.7712



29.8312, 14.3482, 47.9470

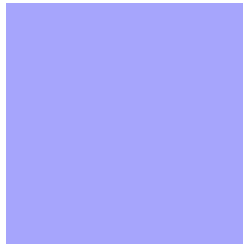


2.7656, 1.3300, 4.4550



# Previews

## White Background



This preview shows how the XYZ color 46.7517, 42.0455, 97.7470 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

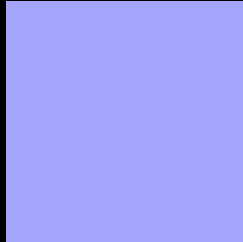
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.7517, 42.0455, 97.7470 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 46.7517, 42.0455, 97.7470**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.7517, 42.0455, 97.7470.



This preview shows how white text looks on a background with the XYZ color 46.7517, 42.0455,



# 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

46.7517, 42.0455, 97.7470

### Protanopia

44.2900, 42.3656, 100.4508

### Deuteranopia

43.4928, 42.3097, 97.1411



## **Tritanopia**

38.2630, 41.9782, 55.3761

# Trichromacy



## Original Color

46.7517, 42.0455, 97.7470

## Protanomaly

45.2142, 42.3040, 99.5484

## Deuteranomaly

44.3631, 41.9203, 97.0200

## Tritanomaly

41.0544, 41.9603, 68.8861

# Monochromacy



## Original Color

46.7517, 42.0455, 97.7470

## Achromatopsia

40.7470, 42.8690, 46.6844

## Achromatomaly

42.3557, 42.2083, 62.4145

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.7517, 42.0455, 97.7470 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(166, 165, 252)` looks like.

```
.text, #text, p{  
    color:rgb(166, 165, 252)  
}
```

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(166, 165, 252) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(166, 165, 252) }
```

## Border

The CSS property to change the border of an element to XYZ 46.7517, 42.0455, 97.7470 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(166, 165, 252) }
```



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

```
.border{ border-color:rgb(166, 165, 252) }
```

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

Here you see how a box with a 4 pixel `rgb(166, 165, 252)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(166, 165, 252); -webkit-box-  
shadow:4px 4px 4px 4px rgb(166, 165, 252);  
box-shadow:4px 4px 4px 4px rgb(166, 165,  
252) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.7517, 42.0455, 97.7470 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(166, 165, 252) }
```

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

```
.background{ background-color: rgb(166,  
165, 252) }
```

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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