

# Converting Colors

XYZ(46.6823, 42.3266, 90.0722)

Have a look what the booklet for  
XYZ(46.6823, 42.3266, 90.0722)  
contains.

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# Color

**XYZ(46.6765, 42.4539,  
89.7387)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ACA6F2
RGB	172, 166, 242
RGB Percent	67%, 65%, 95%
CMY	0.3255, 0.3490, 0.0510
CMYK	0.29, 0.31, 0.00, 0.05
HSL	245°, 75%, 80%
HSV	245°, 31%, 95%
XYZ	46.6765, 42.4539, 89.7387
YIQ	176.4580, -20.8200, 24.9080

# Conversions

## Conversions Part 2

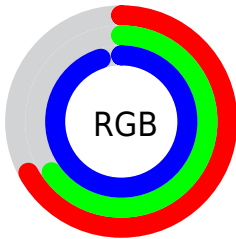
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	172, 166, 242
Decimal	11314930
CIE <sub>Lab</sub>	71.18, 18.69, -37.20
CIE <sub>LCh</sub>	71, 41.632, 296.677
Yxy	42.4539, 0.2610, 0.2373
Android (android.graphics.Color)	4289505010 (0xFFACA6F2)
YUV	176.4580, 32.3122, -3.9097
Hunter-Lab	65.1567, 13.8485, -36.0490

# Details

The XYZ color **46.6765, 42.4539, 89.7387** is a light color, and the websafe version is hex **9999CC**. A complement of this color would be **73.2281, 84.0912, 48.4497**, and the grayscale version is **41.3514, 43.5048, 47.3768**.

A 20% lighter version of the original color is **76.2195, 75.5909, 105.1810**, and **22.3515, 19.4313, 49.0270** is the 20% darker color. If you saturate the color by 10%, you get **38.1960, 32.1553, 88.1986**, and if you desaturate by 10%, it is **56.8081, 54.8341, 91.5951**.

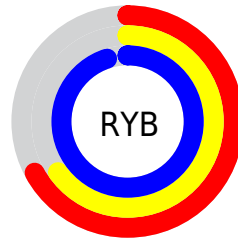
# Distribution



Red (67%)

Green (65%)

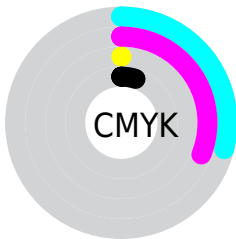
Blue (95%)



Red (67%)

Yellow (65%)

Blue (95%)

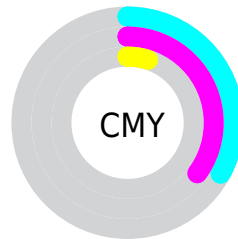


Cyan (29%)

Magenta (31%)

Yellow (0%)

Black (5%)



Cyan (33%)

Magenta (35%)

Yellow (5%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.6765, 42.4539, 89.7387 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 46.6765, 42.4539, 89.7387 by changing the saturation by 10% instead.



■ 46.6765, 42.4539,  
89.7387

■ 46.6765, 42.4539,  
89.7387

364.1923,  
356.3611, 547.7286

■ 32.9869, 29.4569,  
67.1914

■ 84.4522, 78.8861,  
148.9077

■ 22.2756, 19.4267,  
48.7777

■ 109.2690,  
103.0901, 186.3666

■ 14.1773, 11.9790,  
34.0788

138.5256,  
131.7985, 229.6331

■ 8.3266, 6.7294,  
22.6763

172.5873,  
165.3958, 279.1257

■ 4.3582, 3.2934,  
14.1516

211.8194,  
204.2663, 335.2630

■ 1.9067, 1.2868,  
8.0862

256.5874,

■ 0.5807, 0.1309,

248.7944, 398.4636

4.0616

307.2566,  
299.3645, 469.1460

■ 0.0000, 0.0000,  
1.6592

■ 0.0000, 0.0000,  
0.3326

■ 46.6765, 42.4539,  
89.7387

■ 46.6765, 42.4539,  
89.7387

■ 38.1960, 32.1553,  
88.1986

■ 56.8081, 54.8341,  
91.5951

■ 31.2747, 23.8191,  
86.9543

■ 68.6673, 69.3963,  
93.7808

■ 25.8185, 17.3219,  
85.9878

■ 82.3311, 86.2405,  
96.3119

■ 21.7214, 12.5241,  
85.2777

■ 93.0272, 99.1909,  
98.2478

■ 18.8629, 9.2659,  
84.7995

■ 17.1009, 7.3571,  
84.5239

■ 16.2978, 6.5504,  
84.4105

# Harmonies

## Analogous

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



39.5787, 42.4539, 96.1473



46.6765, 42.4539, 89.7387



52.6265, 42.4539, 70.6982

# Triad

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



46.6765, 42.4539, 89.7387



48.1761, 42.4539, 20.9863



28.3889, 42.4539, 44.0341

# Complementary

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



46.6765, 42.4539, 89.7387



73.2281, 84.0912, 48.4497

# 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.



30.1505, 42.4539, 28.1728



46.6765, 42.4539, 89.7387



41.1336, 42.4539, 17.5065

# Square

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



46.6765, 42.4539, 89.7387



53.5600, 42.4539, 31.0369



34.6247, 42.4539, 19.6983



29.5149, 42.4539, 65.7015



# Rectangle

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



46.6765, 42.4539, 89.7387



54.8585, 42.4539, 55.6529



34.6247, 42.4539, 19.6983



28.6575, 42.4539, 37.9270

# Sweetspot

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



46.6780, 42.4556, 89.7397



80.8070, 82.4304, 106.2594



62.0190, 75.0486, 95.2222



16.8371, 17.0785, 22.6590



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.



46.6780, 42.4556, 89.7397



45.9675, 39.7879, 99.8648



55.9779, 47.2499, 90.1749



15.0129, 15.2883, 19.8813



8.7987, 3.5413, 45.3477



0.7717, 0.3151, 3.7744



# Inverse Universe

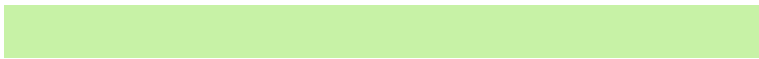
The Inverse Universe completely reimagines the original color for something new.



65.3956, 52.2073, 85.9879



70.3265, 52.4849, 94.7030



62.1718, 78.3914, 47.9323



16.3973, 16.0086, 19.6482



26.8428, 13.0095, 38.6841

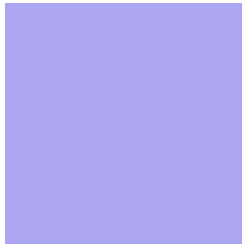


2.2489, 1.0886, 3.3017



# Previews

## White Background



This preview shows how the XYZ color 46.6765, 42.4539, 89.7387 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

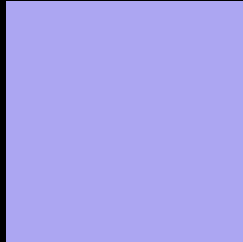
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.6765, 42.4539, 89.7387 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

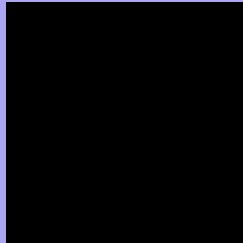
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 46.6765, 42.4539, 89.7387**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.6765, 42.4539, 89.7387.



This preview shows how white text looks on a background with the XYZ color 46.6765, 42.4539,



# 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

46.6765, 42.4539, 89.7387

### Protanopia

44.1496, 42.7382, 93.1111

### Deuteranopia

43.7666, 42.6282, 89.1404



## Tritanopia

39.5175, 42.3454, 54.8059

# Trichromacy



## Original Color

46.6765, 42.4539, 89.7387

## Protanomaly

45.1542, 42.7130, 92.2507

## Deuteranomaly

44.7491, 42.5739, 89.0781

## Tritanomaly

41.7782, 42.1078, 66.2473

# Monochromacy



## Original Color

46.6765, 42.4539, 89.7387

## Achromatopsia

41.2663, 43.4154, 47.2793

## Achromatomaly

42.8570, 42.7891, 60.6439

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.6765, 42.4539, 89.7387 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(172, 166, 242)` looks like.

```
.text, #text, p{  
    color:rgb(172, 166, 242)  
}
```

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(172, 166, 242) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 166, 242) }
```

## Border

The CSS property to change the border of an element to XYZ 46.6765, 42.4539, 89.7387 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(172, 166, 242) }
```



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

```
.border{ border-color:rgb(172, 166, 242) }
```

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

Here you see how a box with a 4 pixel `rgb(172, 166, 242)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(172, 166, 242); -webkit-box-shadow:4px 4px 4px 4px rgb(172, 166, 242); box-shadow:4px 4px 4px 4px rgb(172, 166, 242) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.6765, 42.4539, 89.7387 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 166, 242) }
```

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

```
.background{ background-color: rgb(172,  
166, 242) }
```

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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