

# Converting Colors

XYZ(46.3929, 42.2911, 90.5126)

Have a look what the booklet for  
XYZ(46.3929, 42.2911, 90.5126)  
contains.

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# Color

**XYZ(46.3914, 42.2895,  
90.5116)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AAA6F3
RGB	170, 166, 243
RGB Percent	67%, 65%, 95%
CMY	0.3333, 0.3490, 0.0471
CMYK	0.30, 0.32, 0.00, 0.05
HSL	243°, 76%, 80%
HSV	243°, 32%, 95%
XYZ	46.3914, 42.2895, 90.5116
YIQ	175.9740, -22.3330, 24.7950

# Conversions

## Conversions Part 2

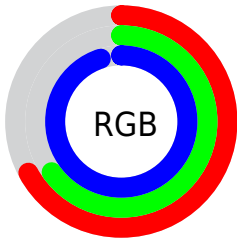
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	170, 166, 243
Decimal	11183859
CIE Lab	71.07, 18.37, -37.93
CIE LCh	71, 42.146, 295.843
Yxy	42.2895, 0.2589, 0.2360
Android (android.graphics.Color)	4289373939 (0xFFAAA6F3)
YUV	175.9740, 33.0438, -5.2392
Hunter-Lab	65.0304, 13.5352, -37.0007

# Details

The XYZ color **46.3914, 42.2895, 90.5116** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **74.5310, 85.2059, 48.5961**, and the grayscale version is **41.0961, 43.2363, 47.0843**.

A 20% lighter version of the original color is **75.5850, 75.2638, 105.1513**, and **22.0827, 19.2928, 49.0144** is the 20% darker color. If you saturate the color by 10%, you get **37.8331, 31.9288, 88.9636**, and if you desaturate by 10%, it is **56.6598, 54.7724, 92.3806**.

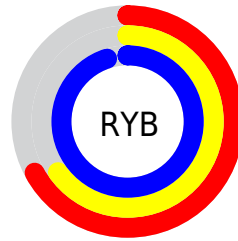
# Distribution



Red (67%)

Green (65%)

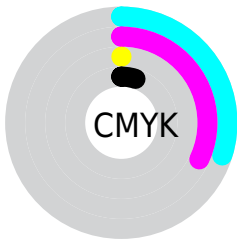
Blue (95%)



Red (67%)

Yellow (65%)

Blue (95%)

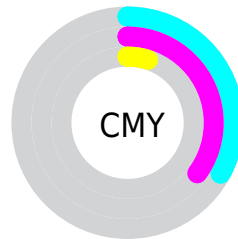


Cyan (30%)

Magenta (32%)

Yellow (0%)

Black (5%)



Cyan (33%)

Magenta (35%)

Yellow (5%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.3914, 42.2895, 90.5116 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 46.3914, 42.2895, 90.5116 by changing the saturation by 10% instead.



■ 46.3914, 42.2895,  
90.5116

■ 46.3914, 42.2895,  
90.5116

363.0696,  
355.6816, 550.3067

■ 32.7607, 29.3280,  
67.8289

■ 84.0287, 78.6376,  
149.9905

■ 22.1016, 19.3291,  
49.2928

■ 108.7661,  
102.7930, 187.6239

■ 14.0486, 11.9083,  
34.4845

137.9364,  
131.4485, 231.0779

■ 8.2364, 6.6813,  
22.9857

171.9050,  
164.9886, 280.7711

■ 4.2996, 3.2636,  
14.3778

211.0373,  
203.7975, 337.1221

■ 1.8730, 1.2708,  
8.2421

255.6986,

■ 0.5611, 0.1185,

248.2597, 400.5493

4.1603

306.2542,  
298.7596, 471.4713

■ 0.0000, 0.0000,  
1.7137

■ 0.0000, 0.0000,  
0.3701

■ 46.3914, 42.2895,  
90.5116

■ 46.3914, 42.2895,  
90.5116

■ 37.8331, 31.9288,  
88.9636

■ 56.6598, 54.7724,  
92.3806

■ 30.8879, 23.5675,  
87.7158

■ 68.7195, 69.4812,  
94.5840

■ 25.4557, 17.0783,  
86.7495

■ 82.6520, 86.5186,  
97.1383

■ 21.4236, 12.3166,  
86.0429

■ 93.1778, 99.2511,  
99.0411

■ 18.6627, 9.1172,  
85.5709

■ 17.0203, 7.2821,  
85.3033

■ 16.3383, 6.5539,  
85.1986

# Harmonies

## Analogous

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



39.2212, 42.2895, 96.5678



46.3914, 42.2895, 90.5116



52.4741, 42.2895, 71.4336

# Triad

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



46.3914, 42.2895, 90.5116



48.2875, 42.2895, 20.8322



28.1452, 42.2895, 43.2915

# Complementary

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



46.3914, 42.2895, 90.5116



74.5310, 85.2059, 48.5961

# 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.



29.9983, 42.2895, 27.5233



46.3914, 42.2895, 90.5116



41.1846, 42.2895, 17.1859

# Square

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



46.3914, 42.2895, 90.5116



53.6555, 42.2895, 31.1253



34.5763, 42.2895, 19.2188



29.1978, 42.2895, 65.1046



# Rectangle

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



46.3914, 42.2895, 90.5116



54.8068, 42.2895, 56.1977



34.5763, 42.2895, 19.2188



28.4424, 42.2895, 37.1971

# Sweetspot

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



46.3929, 42.2911, 90.5126



79.1063, 80.4955, 105.9756



62.8151, 76.3999, 96.2307



16.4891, 16.6883, 22.6020



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.



46.3929, 42.2911, 90.5126



45.4256, 39.5085, 99.8395



55.9261, 47.2057, 90.9587



15.6608, 15.9678, 20.7992



8.9999, 3.6140, 46.7612



0.8185, 0.3318, 4.1111



# Inverse Universe

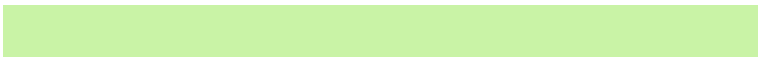
The Inverse Universe completely reimagines the original color for something new.



66.1794, 52.5605, 88.3192



70.7339, 52.6479, 96.8486



62.9281, 79.2244, 48.0531



17.1743, 16.7526, 20.6642



28.1702, 13.6115, 42.4661

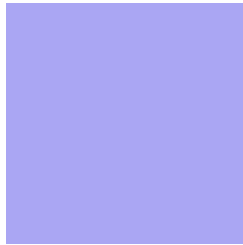


2.4871, 1.2008, 3.7914



# Previews

## White Background



This preview shows how the XYZ color 46.3914, 42.2895, 90.5116 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

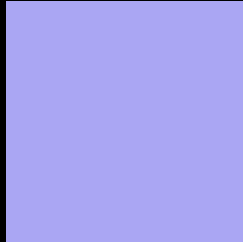
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.3914, 42.2895, 90.5116 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 46.3914, 42.2895, 90.5116**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.3914, 42.2895, 90.5116.



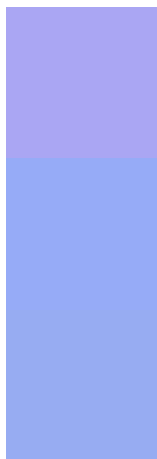
This preview shows how white text looks on a background with the XYZ color 46.3914, 42.2895,



# 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

46.3914, 42.2895, 90.5116

### Protanopia

43.9291, 42.3253, 93.8500

### Deuteranopia

43.5420, 42.4952, 89.9119



## Tritanopia

39.1177, 42.1393, 54.7872

# Trichromacy



## Original Color

46.3914, 42.2895, 90.5116

## Protanomaly

44.7271, 42.1979, 92.9764

## Deuteranomaly

44.5023, 42.4294, 89.8486

## Tritanomaly

41.3654, 41.8950, 66.2280

# Monochromacy



## Original Color

46.3914, 42.2895, 90.5116

## Achromatopsia

41.2663, 43.4154, 47.2793

## Achromatomaly

42.6334, 42.6738, 60.6334

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.3914, 42.2895, 90.5116 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(170, 166, 243)` looks like.

```
.text, #text, p{  
    color:rgb(170, 166, 243)  
}
```

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(170, 166, 243) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 166, 243) }
```

## Border

The CSS property to change the border of an element to XYZ 46.3914, 42.2895, 90.5116 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(170, 166, 243) }
```



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

```
.border{ border-color:rgb(170, 166, 243) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 166, 243)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 166, 243); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 166, 243);  
box-shadow:4px 4px 4px 4px rgb(170, 166,  
243) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.3914, 42.2895, 90.5116 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 166, 243) }
```

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

```
.background{ background-color: rgb(170,  
166, 243) }
```

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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