

# Converting Colors

XYZ(45.3715, 41.7848, 90.0130)

Have a look what the booklet for  
XYZ(45.3715, 41.7848, 90.0130)  
contains.

<b>XYZ(45.3891, 41.7902, 89.6785)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(45.3891, 41.7902,  
89.6785)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A6A6F2
RGB	166, 166, 242
RGB Percent	65%, 65%, 95%
CMY	0.3490, 0.3490, 0.0510
CMYK	0.31, 0.31, 0.00, 0.05
HSL	240°, 75%, 80%
HSV	240°, 31%, 95%
XYZ	45.3891, 41.7902, 89.6785
YIQ	174.6640, -24.3960, 23.6360

# Conversions

## Conversions Part 2

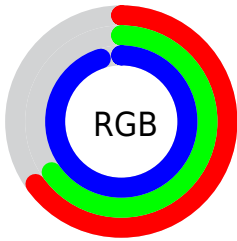
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	166, 166, 242
Decimal	10921714
CIE Lab	70.73, 17.00, -37.95
CIE LCh	71, 41.579, 294.131
Yxy	41.7902, 0.2566, 0.2363
Android (android.graphics.Color)	4289111794 (0xFFA6A6F2)
YUV	174.6640, 33.1966, -7.5983
Hunter-Lab	64.6453, 12.1999, -36.9976

# Details

The XYZ color **45.3891, 41.7902, 89.6785** is a light color, and the websafe version is hex **9999CC**. A complement of this color would be **75.2539, 85.1355, 48.5444**, and the grayscale version is **40.4183, 42.5231, 46.3077**.

A 20% lighter version of the original color is **74.3379, 74.6209, 105.0930**, and **21.5623, 19.0245, 48.9900** is the 20% darker color. If you saturate the color by 10%, you get **36.7925, 31.4317, 88.1329**, and if you desaturate by 10%, it is **55.7707, 54.2993, 91.5466**.

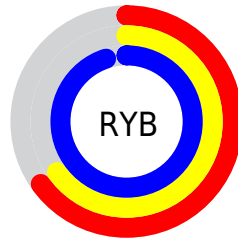
# Distribution



Red (65%)

Green (65%)

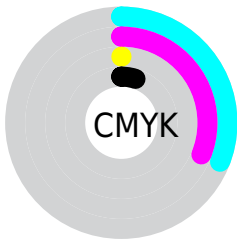
Blue (95%)



Red (65%)

Yellow (65%)

Blue (95%)

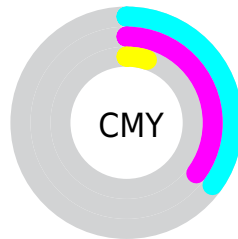


Cyan (31%)

Magenta (31%)

Yellow (0%)

Black (5%)



Cyan (35%)

Magenta (35%)


Yellow (5%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.3891, 41.7902, 89.6785 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 45.3891, 41.7902, 89.6785 by changing the saturation by 10% instead.





 45.3891, 41.7902,  
89.6785


 45.3891, 41.7902,  
89.6785


359.1044,  
353.6125, 547.5276

 31.9666, 28.9370,  
67.1418


 82.5375, 77.8820,  
148.8234

 21.4914, 19.0332,  
48.7376


 106.9940,  
101.8894, 186.2686

 13.5982, 11.6943,  
34.0472


135.8594,  
130.3838, 229.5204

 7.9216, 6.5359,  
22.6522

169.4988,  
163.7494, 278.9974

 4.0962, 3.1736,  
14.1340

208.2776,  
202.3707, 335.1181

 1.7567, 1.2230,  
8.0741

252.5613,

 0.4914, 0.0804,

246.6320, 398.3010

4.0540

302.7151,  
296.9178, 468.9646

■ 0.0000, 0.0000,  
1.6550

■ 0.0000, 0.0000,  
0.3296

■ 45.3891, 41.7902,  
89.6785

■ 45.3891, 41.7902,  
89.6785

■ 36.7925, 31.4317,  
88.1329

■ 55.7707, 54.2993,  
91.5466

■ 29.8764, 23.0983,  
86.8889

■ 68.0254, 69.0654,  
93.7508

■ 24.5321, 16.6587,  
85.9277

■ 82.2406, 86.1937,  
96.3077

■ 20.6365, 11.9648,  
85.2270

■ 93.0272, 99.1909,  
98.2479

■ 18.0480, 8.8458,  
84.7614

■ 16.5968, 7.0973,  
84.5003

■ 16.0272, 6.4109,  
84.3979

# Harmonies

## Analogous

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



38.3805, 41.7902, 94.6700



45.3891, 41.7902, 89.6785



51.4581, 41.7902, 71.5641

# Triad

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



45.3891, 41.7902, 89.6785



48.0034, 41.7902, 21.1530



27.9408, 41.7902, 41.7305

# Complementary

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



45.3891, 41.7902, 89.6785



75.2539, 85.1355, 48.5444

# 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.



29.9188, 41.7902, 26.6882



45.3891, 41.7902, 89.6785



41.0910, 41.7902, 17.2245

# Square

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



45.3891, 41.7902, 89.6785



53.0855, 41.7902, 31.6812



34.5444, 41.7902, 18.9083



28.8108, 41.7902, 62.8520



# Rectangle

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



45.3891, 41.7902, 89.6785



53.8819, 41.7902, 56.6908



34.5444, 41.7902, 18.9083



28.2867, 41.7902, 35.8924

# Sweetspot

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



45.3906, 41.7918, 89.6795



80.2157, 82.1256, 106.2317



63.5061, 78.0231, 95.7180



16.6930, 17.0042, 22.6523



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.



45.3906, 41.7918, 89.6795



44.4142, 38.9871, 99.7921



54.5664, 46.5221, 90.1089



14.8973, 15.2288, 19.8759



8.6099, 3.4439, 45.3388



0.7163, 0.2865, 3.7718



# Inverse Universe

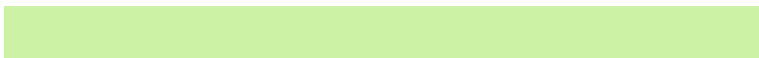
The Inverse Universe completely reimagines the original color for something new.



66.2822, 52.5619, 90.6570



71.5339, 52.9678, 101.0611



63.5381, 79.0958, 47.9961



16.4543, 16.0314, 19.9487



28.2813, 13.5849, 46.2592



2.3527, 1.1301, 3.8483



# Previews

## White Background



This preview shows how the XYZ color 45.3891, 41.7902, 89.6785 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

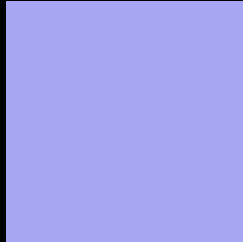
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.3891, 41.7902, 89.6785 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

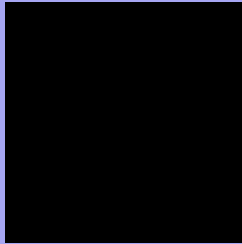
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 45.3891, 41.7902, 89.6785**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.3891, 41.7902, 89.6785.



This preview shows how white text looks on a background with the XYZ color 45.3891, 41.7902,



# 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

45.3891, 41.7902, 89.6785

### Protanopia

43.2506, 41.7316, 92.1617

### Deuteranopia

43.0178, 41.9607, 89.0510



## Tritanopia

38.3372, 41.7369, 54.7506

# Trichromacy



## Original Color

45.3891, 41.7902, 89.6785

## Protanomaly

44.0347, 41.8762, 91.3500

## Deuteranomaly

43.7755, 41.7947, 88.9791

## Tritanomaly

40.5592, 41.4794, 66.1902

# Monochromacy



## Original Color

45.3891, 41.7902, 89.6785

## Achromatopsia

40.7470, 42.8690, 46.6844

## Achromatomaly

42.0746, 42.3992, 59.9991

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.3891, 41.7902, 89.6785 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, 166, 242)` looks like.

```
.text, #text, p{  
    color:rgb(166, 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(166, 166, 242) colored shadow looks like.

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

## Border

The CSS property to change the border of an element to XYZ 45.3891, 41.7902, 89.6785 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, 166, 242) }
```



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

```
.border{ border-color:rgb(166, 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(166, 166, 242)` colored shadow looks like.

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

# Background

The CSS property to change the background color of an element to XYZ 45.3891, 41.7902, 89.6785 is called "background". The background property can be set on classes, ids or directly on the HTML element.

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

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

```
.background{ background-color: rgb(166,  
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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