

# Converting Colors

XYZ(41.7566, 35.7896, 69.8400)

Have a look what the booklet for  
XYZ(41.7566, 35.7896, 69.8400)  
contains.

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# Color

**XYZ(41.8070, 35.8410,  
69.6803)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B494D8
RGB	180, 148, 216
RGB Percent	71%, 58%, 85%
CMY	0.2941, 0.4196, 0.1529
CMYK	0.17, 0.31, 0.00, 0.15
HSL	268°, 47%, 71%
HSV	268°, 31%, 85%
XYZ	41.8070, 35.8410, 69.6803
YIQ	165.3200, -2.7560, 27.9320

# Conversions

## Conversions Part 2

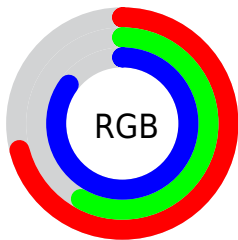
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	180, 148, 216
Decimal	11834584
CIE <sub>Lab</sub>	66.40, 25.09, -30.28
CIE <sub>LCh</sub>	66, 39.327, 309.639
Yxy	35.8410, 0.2838, 0.2433
Android (android.graphics.Color)	4290024664 (0xFFB494D8)
YUV	165.3200, 24.9852, 12.8744
Hunter-Lab	59.8674, 19.8835, -27.1012

# Details

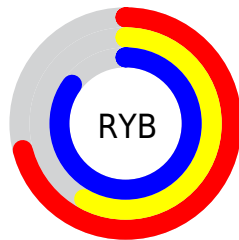
The XYZ color **41.8070, 35.8410, 69.6803** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **49.6694, 61.4411, 37.2600**, and the grayscale version is **35.8035, 37.6681, 41.0206**.

A 20% lighter version of the original color is **74.0956, 67.4656, 103.7246**, and **19.3119, 15.5582, 35.7034** is the 20% darker color. If you saturate the color by 10%, you get **36.1768, 28.3703, 68.5356**, and if you desaturate by 10%, it is **48.2915, 44.6923, 71.0476**.

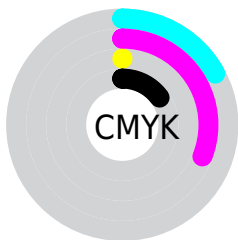
# Distribution



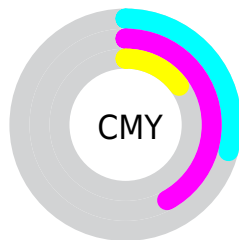
- Red (71%)
- Green (58%)
- Blue (85%)



- Red (71%)
- Yellow (58%)
- Blue (85%)



- Cyan (17%)
- Magenta (31%)
- Yellow (0%)
- Black (15%)



- Cyan (29%)
- Magenta (42%)
- Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.8070, 35.8410, 69.6803 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 41.8070, 35.8410, 69.6803 by changing the saturation by 10% instead.



■ 41.8070, 35.8410,  
69.6803

■ 41.8070, 35.8410,  
69.6803

344.6875,  
328.2651, 478.1854

■ 29.1406, 24.3114,  
50.7908

■ 77.1744, 68.7866,  
120.4296

■ 19.3321, 15.5648,  
35.6665

■ 100.6062, 90.9714,  
153.1264

■ 12.0159, 9.2167,  
23.8891

128.3572,  
117.4767, 191.2626

■ 6.8268, 4.8828,  
15.0399

160.7928,  
148.6869, 235.2570

■ 3.3994, 2.1787,  
8.7005

198.2782,  
184.9865, 285.5279

■ 1.3683, 0.7083,  
4.4522

241.1789,

■ 0.2335, 0.0000,

226.7598, 342.4939

1.8766

289.8602,  
274.3912, 406.5736

■ 0.0000, 0.0000,  
0.4778

■ 0.0000, 0.0000,  
0.0000

■ 41.8070, 35.8410,  
69.6803

■ 41.8070, 35.8410,  
69.6803

■ 36.1768, 28.3703,  
68.5356

■ 48.2915, 44.6923,  
71.0476

■ 31.3567, 22.2024,  
67.5992

■ 55.6641, 54.9872,  
72.6461

■ 27.3037, 17.2588,  
66.8586

■ 63.9614, 66.7905,  
74.4871

■ 23.9690, 13.4500,  
66.2991

■ 73.2165, 80.1613,  
76.5801

■ 21.2971, 10.6738,  
65.9041

■ 83.1397, 94.5133,  
78.8273

■ 19.2224, 8.8086,  
65.6534

■ 87.0845, 96.5469,  
79.0119

■ 17.8344, 7.7621,  
65.5246

■ 89.3948, 97.7379,  
79.1200

# Harmonies

## Analogous

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



35.9960, 35.8410, 80.4893



41.8070, 35.8410, 69.6803



45.8145, 35.8410, 51.4216

# Triad

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



41.8070, 35.8410, 69.6803



38.1567, 35.8410, 15.8441



24.0829, 35.8410, 44.7069

# Complementary

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



41.8070, 35.8410, 69.6803



49.6694, 61.4411, 37.2600

# 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.



24.5198, 35.8410, 28.8000



41.8070, 35.8410, 69.6803



32.2058, 35.8410, 15.0002

# Square

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



41.8070, 35.8410, 69.6803



43.5443, 35.8410, 21.7858



27.3445, 35.8410, 19.0097



26.0734, 35.8410, 63.5663



# Rectangle

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



41.8070, 35.8410, 69.6803



46.6810, 35.8410, 39.2291



27.3445, 35.8410, 19.0097



23.9565, 35.8410, 38.8211

# Sweetspot

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



41.8082, 35.8425, 69.6811



83.8311, 83.9894, 106.4009



41.8046, 45.6470, 71.5738



17.5778, 17.4603, 22.6937



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.



41.8082, 35.8425, 69.6811



55.1136, 44.5028, 100.2928



50.6393, 40.3951, 70.0944



12.2928, 12.2923, 15.6623



10.6785, 4.6575, 38.7893



0.7392, 0.3300, 2.3440



# Inverse Universe

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



47.5616, 39.2408, 50.4162



65.0422, 50.3711, 66.8762



42.5292, 57.7601, 36.9258



12.6952, 12.5296, 14.3353



18.6266, 9.3870, 10.6038

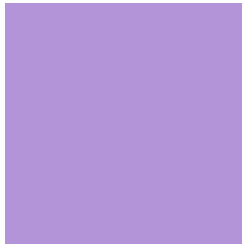


1.1652, 0.5829, 0.8591



# Previews

## White Background



This preview shows how the XYZ color 41.8070, 35.8410, 69.6803 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

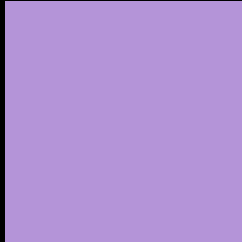
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 41.8070, 35.8410, 69.6803 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

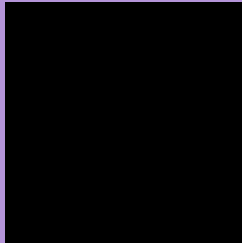
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 41.8070, 35.8410, 69.6803**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.8070, 35.8410, 69.6803.



This preview shows how white text looks on a background with the XYZ color 41.8070, 35.8410,



# 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

41.8070, 35.8410, 69.6803

### Protanopia

37.1441, 35.9833, 76.2219

### Deuteranopia

36.9302, 36.0409, 68.6285



## Tritanopia

36.2317, 35.7492, 42.5268

# Trichromacy



## Original Color

41.8070, 35.8410, 69.6803

## Protanomaly

38.6165, 35.7845, 73.9790

## Deuteranomaly

38.4843, 35.8226, 69.1761

## Tritanomaly

38.0977, 35.7703, 51.3508

# Monochromacy



## Original Color

41.8070, 35.8410, 69.6803

## Achromatopsia

35.7637, 37.6262, 40.9749

## Achromatomaly

37.6274, 36.8030, 50.4679

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.8070, 35.8410, 69.6803 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(180, 148, 216)` looks like.

```
.text, #text, p{  
    color:rgb(180, 148, 216)  
}
```

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(180, 148, 216) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 148, 216) }
```

## Border

The CSS property to change the border of an element to XYZ 41.8070, 35.8410, 69.6803 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(180, 148, 216) }
```



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

```
.border{ border-color:rgb(180, 148, 216) }
```

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

Here you see how a box with a 4 pixel rgb(180, 148, 216) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 148, 216); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 148, 216);  
box-shadow:4px 4px 4px 4px rgb(180, 148,  
216) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.8070, 35.8410, 69.6803 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 148, 216) }
```

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

```
.background{ background-color: rgb(180,  
148, 216) }
```

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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