

# Converting Colors

XYZ(40.2986, 31.2299, 67.5675)

Have a look what the booklet for  
XYZ(40.2986, 31.2299, 67.5675)  
contains.

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# Color

**XYZ(40.3699, 31.2594,  
67.5243)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BA82D6
RGB	186, 130, 214
RGB Percent	73%, 51%, 84%
CMY	0.2706, 0.4902, 0.1608
CMYK	0.13, 0.39, 0.00, 0.16
HSL	280°, 51%, 67%
HSV	280°, 39%, 84%
XYZ	40.3699, 31.2594, 67.5243
YIQ	156.3200, 6.4120, 37.9960

# Conversions

## Conversions Part 2

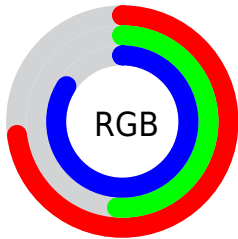
Format	Color
<b>RYB</b>	186, 130, 214
Decimal	12223190
CIELab	62.73, 36.51, -34.82
CIELCh	63, 50.452, 316.357
Yxy	31.2594, 0.2901, 0.2246
Android (android.graphics.Color)	4290413270 (0xFFBA82D6)
YUV	156.3200, 28.4362, 26.0294
Hunter-Lab	55.9101, 31.0433, -32.4692

# Details

The XYZ color **40.3699, 31.2594, 67.5243** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **42.1774, 56.9747, 29.8947**, and the grayscale version is **31.6187, 33.2653, 36.2259**.

A 20% lighter version of the original color is **72.1526, 60.5557, 102.4933**, and **18.4141, 12.9205, 34.3243** is the 20% darker color. If you saturate the color by 10%, you get **36.1242, 25.2760, 66.5937**, and if you desaturate by 10%, it is **45.2962, 38.4738, 68.6577**.

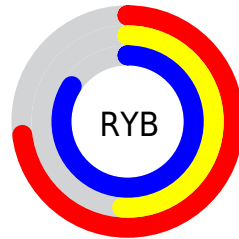
# Distribution



Red (73%)

Green (51%)

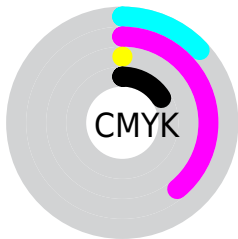
Blue (84%)



Red (73%)

Yellow (51%)

Blue (84%)

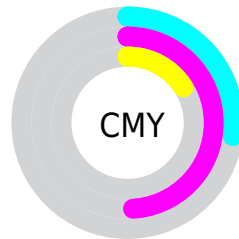


Cyan (13%)

Magenta (39%)

Yellow (0%)

Black (16%)



Cyan (27%)

Magenta (49%)


Yellow (16%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.3699, 31.2594, 67.5243 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 40.3699, 31.2594, 67.5243 by changing the saturation by 10% instead.





 40.3699, 31.2594,  
67.5243


 40.3699, 31.2594,  
67.5243

338.7879,  
307.7316, 470.3610


 28.0126, 20.7965,  
49.0466


 75.0072, 61.6482,  
117.3191

 18.4756, 12.9753,  
34.2906


 98.0179, 82.3429,  
149.4733

 11.3938, 7.4115,  
22.8377


 125.3104,  
107.2170, 187.0234

 6.4016, 3.7208,  
14.2696

157.2501,  
136.6548, 230.3879

 3.1337, 1.5186,  
8.1675

194.2024,  
171.0408, 279.9853

 1.2249, 0.3018,  
4.1130

236.5325,

 0.1259, 0.0000,

210.7593, 336.2343

1.6875

284.6059,  
256.1948, 399.5533

■ 0.0000, 0.0000,  
0.3522

■ 0.0000, 0.0000,  
0.0000

■ 40.3699, 31.2594,  
67.5243

■ 40.3699, 31.2594,  
67.5243

■ 36.1242, 25.2760,  
66.5937

■ 45.2962, 38.4738,  
68.6577

■ 32.5176, 20.4452,  
65.8513

■ 50.9349, 46.9835,  
70.0030

■ 29.5088, 16.6853,  
65.2842

■ 57.3195, 56.8529,  
71.5715

■ 27.0497, 13.9020,  
64.8765

■ 64.4803, 68.1411,  
73.3729

■ 25.0836, 11.9839,  
64.6099

■ 72.4459, 80.9033,  
75.4164

■ 23.5177, 10.7475,  
64.4538

■ 80.1477, 93.0005,  
77.3455

■ 23.4078, 10.6650,  
64.4437

■ 82.4683, 94.1969,  
77.4541

■ 84.8836, 95.4420,  
77.5672

■ 87.3945, 96.7364,  
77.6847

# Harmonies

## Analogous

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



33.6016, 31.2594, 84.9856



40.3699, 31.2594, 67.5243



44.5397, 31.2594, 43.7961

# Triad

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



40.3699, 31.2594, 67.5243



32.9479, 31.2594, 8.8720



18.7231, 31.2594, 45.8824

# Complementary

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



40.3699, 31.2594, 67.5243



42.1774, 56.9747, 29.8947

# 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.



18.6039, 31.2594, 25.8459



40.3699, 31.2594, 67.5243



26.1331, 31.2594, 9.0632

# Square

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



40.3699, 31.2594, 67.5243



39.8279, 31.2594, 13.2963



21.1159, 31.2594, 13.9872



21.4714, 31.2594, 69.5510



# Rectangle

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



40.3699, 31.2594, 67.5243



44.9238, 31.2594, 30.0045



21.1159, 31.2594, 13.9872



18.3907, 31.2594, 38.4137

# Sweetspot

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



40.3710, 31.2607, 67.5250



82.3997, 80.1231, 105.7301



33.8117, 34.5363, 68.5029



17.3641, 16.7267, 22.5633



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.



40.3710, 31.2607, 67.5250



54.7739, 39.0445, 99.2572



46.3048, 34.4985, 59.7245



12.5322, 12.4157, 15.6735



14.2628, 6.5053, 38.9571



0.9464, 0.4368, 2.3537



# Inverse Universe

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



41.8867, 32.7313, 36.4592



57.6726, 41.7289, 45.6238



38.1812, 54.8108, 34.3966



12.5923, 12.4884, 13.7933



17.4992, 8.9360, 4.6669



1.0934, 0.5541, 0.4810



# Previews

## White Background



This preview shows how the XYZ color 40.3699, 31.2594, 67.5243 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

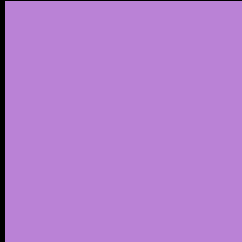
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.3699, 31.2594, 67.5243 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

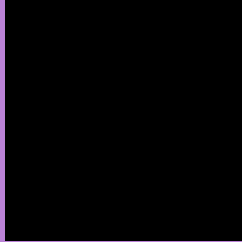
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 40.3699, 31.2594, 67.5243**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.3699, 31.2594, 67.5243.



This preview shows how white text looks on a background with the XYZ color 40.3699, 31.2594,



# 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

40.3699, 31.2594, 67.5243

### Protanopia

33.3426, 31.4931, 79.1844

### Deuteranopia

32.2121, 31.4524, 65.3459



## Tritanopia

33.7867, 31.3251, 34.8375

# Trichromacy



## Original Color

40.3699, 31.2594, 67.5243

## Protanomaly

35.1602, 30.9309, 74.6381

## Deuteranomaly

34.5292, 31.0235, 65.7963

## Tritanomaly

35.7473, 31.0148, 45.1767

# Monochromacy



## Original Color

40.3699, 31.2594, 67.5243

## Achromatopsia

31.5995, 33.2452, 36.2040

## Achromatomaly

34.3059, 32.2573, 46.0131

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.3699, 31.2594, 67.5243 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(186, 130, 214)` looks like.

```
.text, #text, p{  
    color:rgb(186, 130, 214)  
}
```

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(186, 130, 214) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(186, 130, 214) }
```

## Border

The CSS property to change the border of an element to XYZ 40.3699, 31.2594, 67.5243 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(186, 130, 214) }
```



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

```
.border{ border-color:rgb(186, 130, 214) }
```

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

Here you see how a box with a 4 pixel rgb(186, 130, 214) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(186, 130, 214); -webkit-box-  
shadow:4px 4px 4px 4px rgb(186, 130, 214);  
box-shadow:4px 4px 4px 4px rgb(186, 130,  
214) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.3699, 31.2594, 67.5243 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(186, 130, 214) }
```

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

```
.background{ background-color: rgb(186,  
130, 214) }
```

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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