

# Converting Colors

XYZ(40.0802, 29.2491, 57.0003)

Have a look what the booklet for  
XYZ(40.0802, 29.2491, 57.0003)  
contains.

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# Color

**XYZ(40.0786, 29.2766,  
56.9647)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C677C6
RGB	198, 119, 198
RGB Percent	78%, 47%, 78%
CMY	0.2235, 0.5333, 0.2235
CMYK	0.00, 0.40, 0.00, 0.22
HSL	300°, 41%, 62%
HSV	300°, 40%, 78%
XYZ	40.0786, 29.2766, 56.9647
YIQ	151.6270, 21.7250, 41.3170

# Conversions

## Conversions Part 2

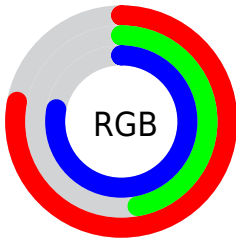
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	198, 119, 198
Decimal	13006790
CIE <sub>Lab</sub>	61.02, 42.94, -28.35
CIE <sub>LCh</sub>	61, 51.453, 326.560
Yxy	29.2766, 0.3173, 0.2318
Android (android.graphics.Color)	4291196870 (0xFFC677C6)
YUV	151.6270, 22.8619, 40.6691
Hunter-Lab	54.1079, 37.5292, -24.5450

# Details

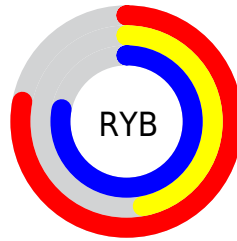
The XYZ color **40.0786, 29.2766, 56.9647** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **31.1328, 45.6431, 24.6235**, and the grayscale version is **29.5835, 31.1241, 33.8941**.

A 20% lighter version of the original color is **74.2336, 58.3671, 101.9612**, and **18.2565, 11.8986, 27.7200** is the 20% darker color. If you saturate the color by 10%, you get **37.9634, 25.0456, 56.2598**, and if you desaturate by 10%, it is **42.6866, 34.4919, 57.8344**.

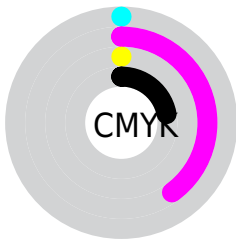
# Distribution



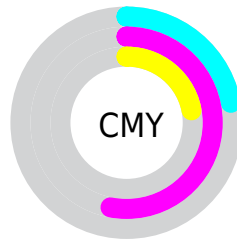
- Red (78%)
- Green (47%)
- Blue (78%)



- Red (78%)
- Yellow (47%)
- Blue (78%)



- Cyan (0%)
- Magenta (40%)
- Yellow (0%)
- Black (22%)




- Cyan (22%)
- Magenta (53%)
- Yellow (22%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.0786, 29.2766, 56.9647 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 40.0786, 29.2766, 56.9647 by changing the saturation by 10% instead.





 40.0786, 29.2766,  
56.9647


 40.0786, 29.2766,  
56.9647


337.5835,  
298.5178, 430.8071


 27.7843, 19.2902,  
40.5677


 74.5668, 58.5163,  
101.9135

 18.3028, 11.8801,  
27.6643


 97.4914, 78.5383,  
131.3024

 11.2686, 6.6621,  
17.8359


 124.6901,  
102.6743, 165.8591

 6.3164, 3.2517,  
10.6640

156.5284,  
131.3086, 206.0020

 3.0809, 1.2645,  
5.7301

193.3715,  
164.8258, 252.1497

 1.1967, 0.1135,  
2.6155

235.5848,

 0.1037, 0.0000,

203.6101, 304.7207

0.9005

283.5337,  
248.0460, 364.1337

■ 0.0000, 0.0000,  
0.0000

■ 40.0786, 29.2766,  
56.9647

■ 40.0786, 29.2766,  
56.9647

■ 37.9634, 25.0456,  
56.2598

■ 42.6866, 34.4919,  
57.8344

■ 36.3074, 21.7336,  
55.7077

■ 45.8125, 40.7437,  
58.8765

■ 35.0774, 19.2736,  
55.2976


■ 49.4833, 48.0853,  
60.1002

■ 34.2343, 17.5876,  
55.0165


■ 53.7233, 56.5652,  
61.5136


■ 33.7323, 16.5836,  
54.8490


■ 58.5551, 66.2287,  
63.1244


 33.4843, 16.0876,  
54.7663

 64.0002, 77.1190,  
64.9395

 33.4821, 16.0832,  
54.7655

 69.2424, 87.6033,  
66.6870

 69.2424, 87.6033,  
66.6871

 69.2424, 87.6033,  
66.6872

# Harmonies

## Analogous

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



34.0214, 29.2766, 77.8308



40.0786, 29.2766, 56.9647



42.8414, 29.2766, 34.1526

# Triad

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



40.0786, 29.2766, 56.9647



28.6101, 29.2766, 7.3520



17.7845, 29.2766, 51.4801

# Complementary

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



40.0786, 29.2766, 56.9647



31.1328, 45.6431, 24.6235

# 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.



16.8072, 29.2766, 29.7052



40.0786, 29.2766, 56.9647



22.4334, 29.2766, 8.8943

# Square

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



40.0786, 29.2766, 56.9647



35.5821, 29.2766, 9.8778



18.3667, 29.2766, 15.5084



21.2887, 29.2766, 73.8688



# Rectangle

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



40.0786, 29.2766, 56.9647



42.1606, 29.2766, 22.4401



18.3667, 29.2766, 15.5084



17.1767, 29.2766, 43.6467

# Sweetspot

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



40.0796, 29.2779, 56.9653



86.0532, 82.0066, 105.9008



24.3989, 21.1942, 56.2319



18.2287, 17.1724, 22.6037



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.



40.0796, 29.2779, 56.9653



67.6227, 45.1457, 99.7566



36.1014, 27.6866, 36.0165



11.0832, 10.8166, 13.4211



21.7739, 10.4591, 35.6148



1.0310, 0.4952, 1.6864



# Inverse Universe

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



40.0796, 29.2779, 56.9653



67.6227, 45.1457, 99.7566



34.0177, 46.7971, 39.8150



11.0832, 10.8166, 13.4211



21.7739, 10.4591, 35.6148

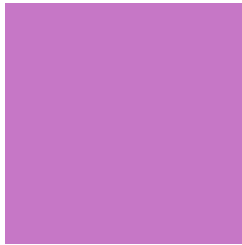


1.0310, 0.4952, 1.6864



# Previews

## White Background



This preview shows how the XYZ color 40.0786, 29.2766, 56.9647 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

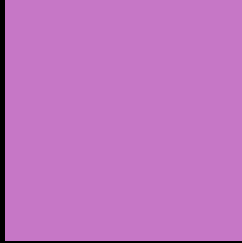
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.0786, 29.2766, 56.9647 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

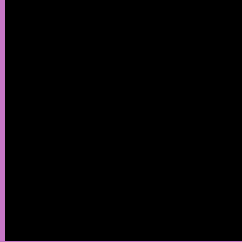
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 40.0786, 29.2766, 56.9647**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.0786, 29.2766, 56.9647.



This preview shows how white text looks on a background with the XYZ color 40.0786, 29.2766,



# 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

40.0786, 29.2766, 56.9647

### Protanopia

31.0800, 29.5762, 71.0885

### Deuteranopia

30.0676, 29.4194, 54.5459



## Tritanopia

34.4099, 29.2321, 29.0281

# Trichromacy



## Original Color

40.0786, 29.2766, 56.9647



## Protanomaly

33.1397, 28.7955, 65.4395



## Deuteranomaly

32.9526, 28.9194, 55.4750



## Tritanomaly

36.3591, 29.2567, 37.9132

# Monochromacy



## Original Color

40.0786, 29.2766, 56.9647



## Achromatopsia

29.8446, 31.3989, 34.1934



## Achromatomaly

32.9017, 30.0558, 41.6034

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.0786, 29.2766, 56.9647 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(198, 119, 198)` looks like.

```
.text, #text, p{  
    color:rgb(198, 119, 198)  
}
```

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(198, 119, 198) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(198, 119, 198) }
```

## Border

The CSS property to change the border of an element to XYZ 40.0786, 29.2766, 56.9647 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(198, 119, 198) }
```



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

```
.border{ border-color:rgb(198, 119, 198) }
```

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

Here you see how a box with a 4 pixel `rgb(198, 119, 198)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(198, 119, 198); -webkit-box-  
shadow:4px 4px 4px 4px rgb(198, 119, 198);  
box-shadow:4px 4px 4px 4px rgb(198, 119,  
198) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.0786, 29.2766, 56.9647 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(198, 119, 198) }
```

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

```
.background{ background-color: rgb(198,  
119, 198) }
```

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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