

# Converting Colors

XYZ(41.8356, 29.9811, 60.7087)

Have a look what the booklet for  
XYZ(41.8356, 29.9811, 60.7087)  
contains.

<b>XYZ(41.7346, 29.8731, 60.6932)</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(41.7346, 29.8731,  
60.6932)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CA76CC
RGB	202, 118, 204
RGB Percent	79%, 46%, 80%
CMY	0.2078, 0.5372, 0.2000
CMYK	0.01, 0.42, 0.00, 0.20
HSL	299°, 46%, 63%
HSV	299°, 42%, 80%
XYZ	41.7346, 29.8731, 60.6932
YIQ	152.9200, 22.4580, 44.5540

# Conversions

## Conversions Part 2

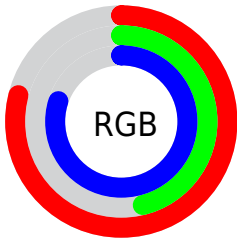
<b>Format</b>	<b>Color</b>
RYB	202, 118, 204
Decimal	13268684
CIELab	61.54, 45.79, -30.90
CIElCh	62, 55.241, 325.988
Yxy	29.8731, 0.3155, 0.2258
Android (android.graphics.Color)	4291458764 (0xFFCA76CC)
YUV	152.9200, 25.1824, 43.0432
Hunter-Lab	54.6563, 40.6510, -27.5793

# Details

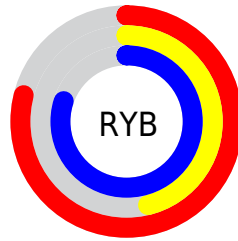
The XYZ color **41.7346, 29.8731, 60.6932** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **32.6097, 48.4876, 24.7814**, and the grayscale version is **30.1316, 31.7008, 34.5222**.

A 20% lighter version of the original color is **74.0425, 57.9850, 101.8975**, and **19.2271, 12.1773, 29.7709** is the 20% darker color. If you saturate the color by 10%, you get **39.4592, 25.5119, 59.9718**, and if you desaturate by 10%, it is **44.5319, 35.2761, 61.5891**.

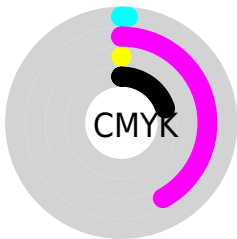
# Distribution



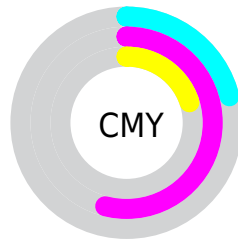
- Red (79%)
- Green (46%)
- Blue (80%)



- Red (79%)
- Yellow (46%)
- Blue (80%)



- Cyan (1%)
- Magenta (42%)
- Yellow (0%)
- Black (20%)




- Cyan (21%)
- Magenta (54%)
- Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.7346, 29.8731, 60.6932 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 41.7346, 29.8731, 60.6932 by changing the saturation by 10% instead.





 41.7346, 29.8731,  
60.6932


 41.7346, 29.8731,  
60.6932

344.3919,  
301.3125, 445.0236


 29.0837, 19.7423,  
43.5487


 77.0655, 59.4614,  
107.3878

 19.2888, 12.2079,  
29.9813

 100.4762, 79.6877,  
137.7749

 11.9844, 6.8854,  
19.5724


 128.2043,  
104.0480, 173.4133

 6.8052, 3.3905,  
11.9036

160.6150,  
132.9266, 214.7216

 3.3858, 1.3389,  
6.5564

198.0738,  
166.7080, 262.1182

 1.3609, 0.1710,  
3.1120

240.9460,

 0.2281, 0.0000,

205.7765, 316.0217

1.1521

289.5969,  
250.5165, 376.8506

■ 0.0000, 0.0000,  
0.0000

■ 41.7346, 29.8731,  
60.6932

■ 41.7346, 29.8731,  
60.6932

■ 39.4592, 25.5119,  
59.9718

■ 44.5319, 35.2761,  
61.5891

■ 37.6689, 22.1209,  
59.4116

■ 47.8788, 41.7784,  
62.6678

■ 36.3268, 19.6258,  
59.0007


■ 51.8047, 49.4383,  
63.9393


■ 35.3895, 17.9397,  
58.7247


■ 56.3362, 58.3087,  
65.4127


■ 34.8050, 16.9588,  
58.5661


■ 61.4980, 68.4390,  
67.0960

 34.5206, 16.5370,  
58.4997

 67.3135, 79.8763,  
68.9971

 71.9248, 88.9046,  
70.4967

 72.0562, 88.9723,  
70.5028

 72.1879, 89.0402,  
70.5090

# Harmonies

## Analogous

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



35.0197, 29.8731, 83.8944



41.7346, 29.8731, 60.6932



44.8794, 29.8731, 35.4300

# Triad

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



41.7346, 29.8731, 60.6932



29.3899, 29.8731, 6.6070



17.5259, 29.8731, 53.5849

# Complementary

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



41.7346, 29.8731, 60.6932



32.6097, 48.4876, 24.7814

# 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.



16.5381, 29.8731, 29.7866



41.7346, 29.8731, 60.6932



22.6608, 29.8731, 8.0791

# Square

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



41.7346, 29.8731, 60.6932



37.0186, 29.8731, 9.2458



18.2497, 29.8731, 14.7849



21.2243, 29.8731, 78.7001



# Rectangle

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



41.7346, 29.8731, 60.6932



44.1909, 29.8731, 22.6376



18.2497, 29.8731, 14.7849



16.8964, 29.8731, 44.9434

# Sweetspot

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



41.7356, 29.8744, 60.6938



85.0884, 80.4970, 105.6606



25.1928, 21.8551, 60.0179



17.8878, 16.5956, 22.5104



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.



41.7356, 29.8744, 60.6938



65.5135, 42.5655, 99.3708



38.0701, 28.4711, 38.5491



11.6608, 11.3899, 14.1543



21.7392, 10.4145, 36.8207



1.1299, 0.5416, 1.8999



# Inverse Universe

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



34.7715, 27.1517, 21.1789



52.4619, 37.4724, 24.8810



35.2482, 49.5113, 40.1082



11.2227, 11.2178, 11.7075



15.6946, 8.0884, 0.8447



0.8135, 0.4188, 0.0635



# Previews

## White Background



This preview shows how the XYZ color 41.7346, 29.8731, 60.6932 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

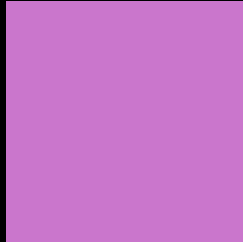
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 41.7346, 29.8731, 60.6932 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

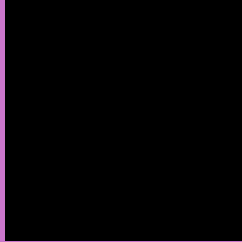
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 41.7346, 29.8731, 60.6932**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.7346, 29.8731, 60.6932.



This preview shows how white text looks on a background with the XYZ color 41.7346, 29.8731,



# 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

41.7346, 29.8731, 60.6932

### Protanopia

32.0292, 30.1688, 76.8081

### Deuteranopia

30.8959, 30.2252, 58.2385



## Tritanopia

35.3819, 29.9249, 29.5024

# Trichromacy



## Original Color

41.7346, 29.8731, 60.6932



## Protanomaly

34.1680, 29.2068, 70.8545



## Deuteranomaly

33.8440, 29.2989, 59.1298



## Tritanomaly

37.4069, 29.7657, 39.3711

# Monochromacy



## Original Color

41.7346, 29.8731, 60.6932



## Achromatopsia

30.2779, 31.8547, 34.6897



## Achromatomaly

33.6191, 30.3927, 43.1242

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.7346, 29.8731, 60.6932 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(202, 118, 204)` looks like.

```
.text, #text, p{  
    color:rgb(202, 118, 204)  
}
```

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(202, 118, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 118, 204) }
```

## Border

The CSS property to change the border of an element to XYZ 41.7346, 29.8731, 60.6932 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(202, 118, 204) }
```



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

```
.border{ border-color:rgb(202, 118, 204) }
```

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

Here you see how a box with a 4 pixel `rgb(202, 118, 204)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 118, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 118, 204);  
box-shadow:4px 4px 4px 4px rgb(202, 118,  
204) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.7346, 29.8731, 60.6932 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 118, 204) }
```

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

```
.background{ background-color: rgb(202,  
118, 204) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor