

# Converting Colors

XYZ(30.2986, 16.9818, 39.7677)

Have a look what the booklet for  
XYZ(30.2986, 16.9818, 39.7677)  
contains.

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# Color

**XYZ(30.2047, 16.9049,  
39.7012)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	BF39AA
RGB	191, 57, 170
RGB Percent	75%, 22%, 67%
CMY	0.2510, 0.7764, 0.3333
CMYK	0.00, 0.70, 0.11, 0.25
HSL	309°, 54%, 49%
HSV	309°, 70%, 75%
XYZ	30.2047, 16.9049, 39.7012
YIQ	109.9480, 43.5910, 63.5510

# Conversions

## Conversions Part 2

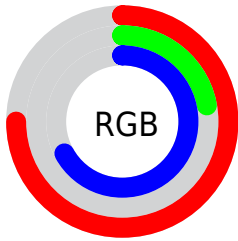
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	191, 57, 170
Decimal	12532138
CIE <sub>Lab</sub>	48.14, 64.74, -32.30
CIE <sub>LCh</sub>	48, 72.348, 333.487
Yxy	16.9049, 0.3479, 0.1947
Android (android.graphics.Color)	4290722218 (0xFFBF39AA)
YUV	109.9480, 29.6056, 71.0826
Hunter-Lab	41.1156, 59.1791, -28.4695

# Details

The XYZ color **30.2047, 16.9049, 39.7012** is a dark color, and the websafe version is hex **CC3399**. A complement of this color would be **21.6942, 38.6822, 13.5322**, and the grayscale version is **14.7162, 15.4826, 16.8605**.

A 20% lighter version of the original color is **59.2825, 38.0764, 76.1765**, and **13.0424, 6.3527, 17.3684** is the 20% darker color. If you saturate the color by 10%, you get **29.1519, 15.2470, 37.9690**, and if you desaturate by 10%, it is **31.6201, 19.2770, 41.5863**.

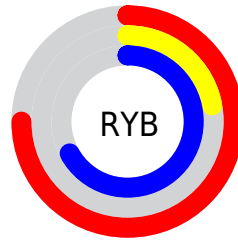
# Distribution



Red (75%)

Green (22%)

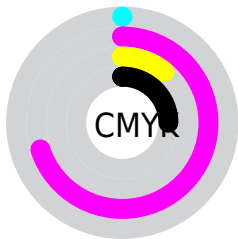
Blue (67%)



Red (75%)

Yellow (22%)

Blue (67%)

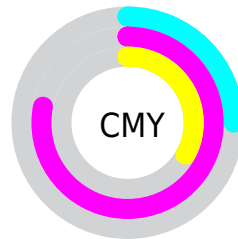


Cyan (0%)

Magenta (70%)

Yellow (11%)

Black (25%)



Cyan (25%)

Magenta (78%)

Yellow (33%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.2047, 16.9049, 39.7012 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 30.2047, 16.9049, 39.7012 by changing the saturation by 10% instead.





 30.2047, 16.9049,  
39.7012


 30.2047, 16.9049,  
39.7012


294.7502,  
234.6238, 360.3771


 20.1429, 10.1667,  
26.9936


 59.3702, 38.1622,  
75.9404


 12.6078, 5.5096,  
17.3360


 79.2045, 53.4501,  
100.3091

 7.2342, 2.5493,  
10.3099


 103.0270, 72.3567,  
129.4020

 3.6566, 0.9012,  
5.4966

 131.2031, 95.2663,  
163.6375

 1.5098, 0.0000,  
2.4777

 164.0981,  
122.5635, 203.4342

 0.3325, 0.0000,  
0.8283

202.0774,

 0.0000, 0.0000,

154.6325, 249.2107

0.0000

245.5063,  
191.8578, 301.3855

■ 30.2047, 16.9049,  
39.7012

■ 30.2047, 16.9049,  
39.7012

■ 29.1519, 15.2470,  
37.9690

■ 31.6201, 19.2770,  
41.5863

■ 28.4178, 14.2165,  
36.3746

■ 33.4322, 22.4324,  
43.6356

■ 27.9249, 13.6520,  
34.9119

■ 35.6729, 26.4344,  
45.8599

■ 38.3703, 31.3396,  
48.2689

■ 41.5504, 37.1994,  
50.8715

■ 45.2370, 44.0615,  
53.6756

■ 49.4522, 51.9703,  
56.6891

■ 54.2170, 60.9675,  
59.9189

■ 59.5513, 71.0926,  
63.3720

# Harmonies

## Analogous

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



24.0808, 16.9049, 67.9653



30.2047, 16.9049, 39.7012



32.2335, 16.9049, 16.2954

# Triad

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



30.2047, 16.9049, 39.7012



15.3125, 16.9049, 0.7541



7.6763, 16.9049, 46.3999

# Complementary

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



30.2047, 16.9049, 39.7012



21.6942, 38.6822, 13.5322

# 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.



6.4792, 16.9049, 20.6926



30.2047, 16.9049, 39.7012



10.0643, 16.9049, 1.7267

# Square

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



30.2047, 16.9049, 39.7012



22.3819, 16.9049, 1.3116



7.2169, 16.9049, 6.5312



11.0689, 16.9049, 73.3512



# Rectangle

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



30.2047, 16.9049, 39.7012



30.6355, 16.9049, 7.4365



7.2169, 16.9049, 6.5312



7.0531, 16.9049, 36.8847

# Sweetspot

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



30.2053, 16.9057, 39.7015



73.6985, 65.2948, 90.5422



13.9367, 8.2708, 50.1526



15.8208, 13.6680, 19.5909



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



30.2053, 16.9057, 39.7015



51.4642, 26.2223, 66.4949



25.4434, 15.0010, 14.6258



9.8640, 9.6699, 11.6726



18.3761, 8.9816, 23.0720



0.7374, 0.3588, 0.9962



# Inverse Universe

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



30.2053, 16.9057, 39.7015



51.4642, 26.2223, 66.4949



25.3607, 40.1488, 32.8397



9.8640, 9.6699, 11.6726



18.3761, 8.9816, 23.0720



0.7374, 0.3588, 0.9962



# Previews

## White Background



This preview shows how the XYZ color 30.2047, 16.9049, 39.7012 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

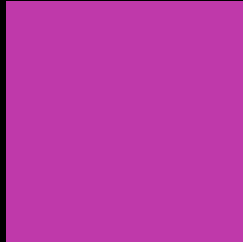
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 30.2047, 16.9049, 39.7012 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

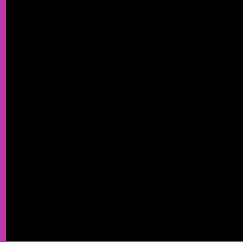
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 30.2047, 16.9049, 39.7012**

## **Background**



This preview shows how black text looks on a background with the XYZ color 30.2047, 16.9049, 39.7012.



This preview shows how white text looks on a background with the XYZ color 30.2047, 16.9049,



# 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

30.2047, 16.9049, 39.7012

### Protanopia

19.8962, 17.2485, 67.9263

### Deuteranopia

17.5759, 17.2399, 36.5837



## Tritanopia

24.3831, 16.9584, 11.2207

# Trichromacy



## Original Color

30.2047, 16.9049, 39.7012



## Protanomaly

20.1103, 14.7165, 56.4242



## Deuteranomaly

20.2216, 15.4508, 37.5138



## Tritanomaly

25.9685, 16.6447, 18.9836

# Monochromacy



## Original Color

30.2047, 16.9049, 39.7012



## Achromatopsia

14.8208, 15.5926, 16.9804



## Achromatomaly

18.5534, 14.6371, 23.6772

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.2047, 16.9049, 39.7012 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(191, 57, 170)` looks like.

```
.text, #text, p{  
    color:rgb(191, 57, 170)  
}
```

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(191, 57, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(191, 57, 170) }
```

## Border

The CSS property to change the border of an element to XYZ 30.2047, 16.9049, 39.7012 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(191, 57, 170) }
```



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

```
.border{ border-color:rgb(191, 57, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(191, 57, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(191, 57, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(191, 57, 170);  
box-shadow:4px 4px 4px 4px rgb(191, 57,  
170) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.2047, 16.9049, 39.7012 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(191, 57, 170) }
```

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

```
.background{ background-color: rgb(191, 57,  
170) }
```

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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