

# Converting Colors

XYZ(45.3374, 31.5869, 63.6548)

Have a look what the booklet for  
XYZ(45.3374, 31.5869, 63.6548)  
contains.

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# Color

**XYZ(45.3042, 31.6571,  
63.3971)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D576D0
RGB	213, 118, 208
RGB Percent	84%, 46%, 82%
CMY	0.1647, 0.5372, 0.1843
CMYK	0.00, 0.45, 0.02, 0.16
HSL	303°, 53%, 65%
HSV	303°, 45%, 84%
XYZ	45.3042, 31.6571, 63.3971
YIQ	156.6650, 27.7300, 48.1300

# Conversions

## Conversions Part 2

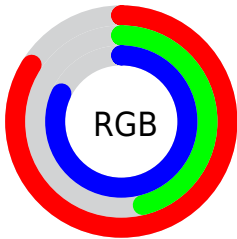
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	213, 118, 208
Decimal	13989584
CIE Lab	63.06, 49.80, -30.70
CIE LCh	63, 58.506, 328.351
Yxy	31.6571, 0.3228, 0.2255
Android (android.graphics.Color)	4292179664 (0xFFD576D0)
YUV	156.6650, 25.3082, 49.4058
Hunter-Lab	56.2646, 45.2648, -27.4207

# Details

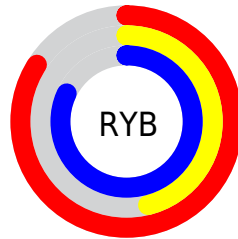
The XYZ color **45.3042, 31.6571, 63.3971** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **34.8420, 52.8713, 27.1097**, and the grayscale version is **31.7798, 33.4348, 36.4105**.

A 20% lighter version of the original color is **74.2336, 58.3671, 101.9612**, and **21.3504, 13.1484, 31.5496** is the 20% darker color. If you saturate the color by 10%, you get **42.9362, 27.1404, 61.9298**, and if you desaturate by 10%, it is **48.2416, 37.3096, 65.0596**.

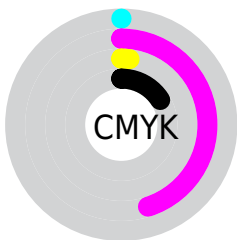
# Distribution



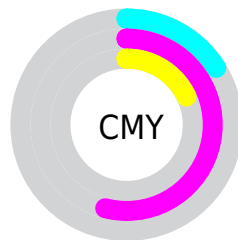
- Red (84%)
- Green (46%)
- Blue (82%)



- Red (84%)
- Yellow (46%)
- Blue (82%)



- Cyan (0%)
- Magenta (45%)
- Yellow (2%)
- Black (16%)




- Cyan (16%)
- Magenta (54%)
- Yellow (18%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.3042, 31.6571, 63.3971 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 45.3042, 31.6571, 63.3971 by changing the saturation by 10% instead.





 45.3042, 31.6571,  
63.3971


 45.3042, 31.6571,  
63.3971

358.7672,  
309.5543, 455.1568


 31.8994, 21.0997,  
45.7195


 82.4110, 62.2731,  
111.3333

 21.4398, 13.1969,  
31.6774


 106.8436, 83.1006,  
142.4290

 13.5602, 7.5643,  
20.8525


 135.6830,  
108.1202, 178.8344

 7.8951, 3.8174,  
12.8260

169.2944,  
137.7163, 220.9681

 4.0791, 1.5720,  
7.1795

208.0431,  
172.2734, 269.2487

 1.7470, 0.3386,  
3.4945

252.2946,

 0.4854, 0.0000,

212.1758, 324.0946

1.3523

302.4142,  
257.8080, 385.9245

■ 0.0000, 0.0000,  
0.1041

■ 0.0000, 0.0000,  
0.0000

■ 45.3042, 31.6571,  
63.3971

■ 45.3042, 31.6571,  
63.3971

■ 42.9362, 27.1404,  
61.9298

■ 48.2416, 37.3096,  
65.0596

■ 41.0958, 23.6781,  
60.6429


■ 51.7802, 44.1637,  
66.9271


■ 39.7407, 21.1847,  
59.5225


■ 55.9532, 52.2850,  
69.0108


■ 38.8205, 19.5597,  
58.5519


■ 60.7906, 61.7335,  
71.3208


 38.2739, 18.6804,  
57.7106


 66.3202, 72.5650,  
73.8665

 38.0766, 18.4006,  
57.2908

 72.5686, 84.8323,  
76.6566

 75.5762, 90.6164,  
78.3712

 75.7216, 90.6746,  
79.1367

 75.8679, 90.7331,  
79.9075

# Harmonies

## Analogous

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



38.0649, 31.6571, 90.1423



45.3042, 31.6571, 63.3971



48.3911, 31.6571, 35.7622

# Triad

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



45.3042, 31.6571, 63.3971



30.5373, 31.6571, 6.4157



18.4072, 31.6571, 60.1341

# Complementary

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



45.3042, 31.6571, 63.3971



34.8420, 52.8713, 27.1097

# 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.



17.1043, 31.6571, 33.2078



45.3042, 31.6571, 63.3971



23.3134, 31.6571, 8.3053

# Square

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



45.3042, 31.6571, 63.3971



38.9756, 31.6571, 8.8097



18.7304, 31.6571, 16.0315



22.6678, 31.6571, 87.7398



# Rectangle

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



45.3042, 31.6571, 63.3971



47.3260, 31.6571, 22.2985



18.7304, 31.6571, 16.0315



17.6463, 31.6571, 50.4166

# Sweetspot

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



45.3053, 31.6585, 63.3978



85.0917, 80.5310, 104.2008



26.6228, 21.9552, 65.7863



17.8886, 16.6042, 22.1452



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.



45.3053, 31.6585, 63.3978



64.5410, 40.8145, 93.0810



40.3313, 29.6689, 37.2053



12.9235, 12.6209, 15.5373



23.2707, 11.2446, 35.0593



1.4124, 0.6818, 2.1612



# Inverse Universe

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



45.3053, 31.6585, 63.3978



64.5410, 40.8145, 93.0810



38.5462, 54.3530, 46.6154



12.9235, 12.6209, 15.5373



23.2707, 11.2446, 35.0593

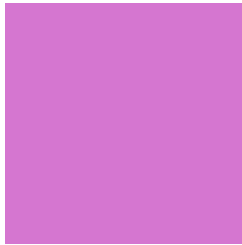


1.4124, 0.6818, 2.1612



# Previews

## White Background



This preview shows how the XYZ color 45.3042, 31.6571, 63.3971 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

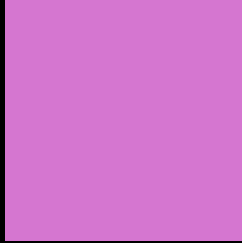
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.3042, 31.6571, 63.3971 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

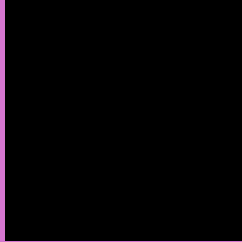
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 45.3042, 31.6571, 63.3971**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.3042, 31.6571, 63.3971.



This preview shows how white text looks on a background with the XYZ color 45.3042, 31.6571, 63.3971.



# 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

45.3042, 31.6571, 63.3971

### Protanopia

33.9260, 31.9642, 82.2235

### Deuteranopia

32.7118, 32.0602, 60.3413



## Tritanopia

38.5223, 31.7374, 30.0822

# Trichromacy



## Original Color

45.3042, 31.6571, 63.3971



## Protanomaly

36.3894, 30.6811, 75.2383



## Deuteranomaly

36.0681, 31.0404, 61.2171



## Tritanomaly

40.7066, 31.6383, 40.5205

# Monochromacy



## Original Color

45.3042, 31.6571, 63.3971



## Achromatopsia

32.0474, 33.7164, 36.7171



## Achromatomaly

35.7904, 32.1266, 45.3890

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.3042, 31.6571, 63.3971 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(213, 118, 208)` looks like.

```
.text, #text, p{  
    color:rgb(213, 118, 208)  
}
```

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(213, 118, 208) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(213, 118, 208) }
```

## Border

The CSS property to change the border of an element to XYZ 45.3042, 31.6571, 63.3971 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(213, 118, 208) }
```



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

```
.border{ border-color:rgb(213, 118, 208) }
```

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

Here you see how a box with a 4 pixel rgb(213, 118, 208) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(213, 118, 208); -webkit-box-  
shadow:4px 4px 4px 4px rgb(213, 118, 208);  
box-shadow:4px 4px 4px 4px rgb(213, 118,  
208) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.3042, 31.6571, 63.3971 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(213, 118, 208) }
```

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

```
.background{ background-color: rgb(213,  
118, 208) }
```

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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