

# Converting Colors

XYZ(49.3231, 33.4755, 69.5499)

Have a look what the booklet for  
XYZ(49.3231, 33.4755, 69.5499)  
contains.

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# Color

**XYZ(49.3171, 33.4203,  
69.4971)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DF75D9
RGB	223, 117, 217
RGB Percent	87%, 46%, 85%
CMY	0.1255, 0.5412, 0.1490
CMYK	0.00, 0.48, 0.03, 0.13
HSL	303°, 62%, 67%
HSV	303°, 48%, 87%
XYZ	49.3171, 33.4203, 69.4971
YIQ	160.0940, 31.0760, 53.5720

# Conversions

## Conversions Part 2

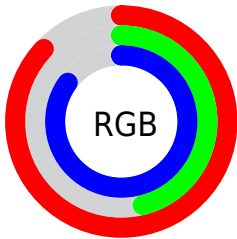
Format	Color
R <sub>Y</sub> B	223, 117, 217
Decimal	14644697
CIE Lab	64.50, 54.80, -33.41
CIE LCh	64, 64.179, 328.633
Yxy	33.4203, 0.3240, 0.2195
Android (android.graphics.Color)	4292834777 (0xFFDF75D9)
YUV	160.0940, 28.0547, 55.1686
Hunter-Lab	57.8103, 51.1077, -30.8087

# Details

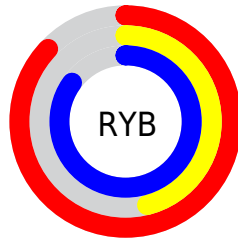
The XYZ color **49.3171, 33.4203, 69.4971** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **37.3004, 57.9886, 27.9679**, and the grayscale version is **33.3228, 35.0581, 38.1783**.

A 20% lighter version of the original color is **74.0425, 57.9850, 101.8975**, and **24.0250, 14.2706, 35.6707** is the 20% darker color. If you saturate the color by 10%, you get **46.8584, 28.7639, 67.8707**, and if you desaturate by 10%, it is **52.3981, 39.3178, 71.3377**.

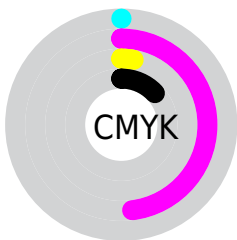
# Distribution



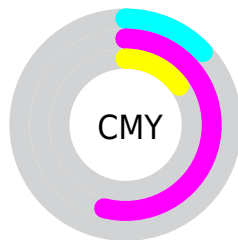
- Red (87%)
- Green (46%)
- Blue (85%)



- Red (87%)
- Yellow (46%)
- Blue (85%)



- Cyan (0%)
- Magenta (48%)
- Yellow (3%)
- Black (13%)




- Cyan (13%)
- Magenta (54%)
- Yellow (15%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.3171, 33.4203, 69.4971 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 49.3171, 33.4203, 69.4971 by changing the saturation by 10% instead.





 49.3171, 33.4203,  
69.4971

 49.3171, 33.4203,  
69.4971

374.4856,  
317.5394, 477.5236

 35.0867, 22.4486,  
50.6424


 88.3601, 65.0312,  
120.1657

 23.8965, 14.1869,  
35.5493

 113.9034, 86.4391,  
152.8166

 15.3812, 8.2508,  
23.7994


 143.9484,  
112.0947, 190.9034

 9.1754, 4.2558,  
14.9741

178.8604,  
142.3821, 234.8446

 4.9138, 1.8177,  
8.6548

219.0047,  
177.6860, 285.0586

 2.2310, 0.4982,  
4.4230

264.7468,

 0.7590, 0.0000,

218.3905, 341.9641

1.8601

316.4520,  
264.8802, 405.9796

■ 0.0000, 0.0000,  
0.4672

■ 0.0000, 0.0000,  
0.0000

■ 49.3171, 33.4203,  
69.4971

■ 49.3171, 33.4203,  
69.4971

■ 46.8584, 28.7639,  
67.8707

■ 52.3981, 39.3178,  
71.3377

■ 44.9739, 25.2549,  
66.4416


■ 56.1383, 46.5323,  
73.4040


■ 43.6143, 22.7933,  
65.1936


■ 60.5757, 55.1392,  
75.7089


■ 42.7199, 21.2605,  
64.1069

■ 65.7443, 65.2067,  
78.2638


 42.2104, 20.4952,  
63.1546


 71.6762, 76.7985,  
81.0793

 42.1117, 20.3601,  
62.9295

 78.4013, 89.9746,  
84.1655

 79.8971, 92.6903,  
85.5149

 80.0708, 92.7598,  
86.4300

 80.2459, 92.8298,  
87.3517

# Harmonies

## Analogous

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



40.9821, 33.4203, 101.1113



49.3171, 33.4203, 69.4971



52.8454, 33.4203, 37.6070

# Triad

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



49.3171, 33.4203, 69.4971



32.1875, 33.4203, 5.6577



18.6700, 33.4203, 66.3346

# Complementary

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



49.3171, 33.4203, 69.4971



37.3004, 57.9886, 27.9679

# 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.



17.2013, 33.4203, 35.1977



49.3171, 33.4203, 69.4971



24.0452, 33.4203, 7.6318

# Square

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



49.3171, 33.4203, 69.4971



41.8515, 33.4203, 8.0650



18.9667, 33.4203, 15.9301



23.4451, 33.4203, 98.7492



# Rectangle

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



49.3171, 33.4203, 69.4971



51.5658, 33.4203, 22.5261



18.9667, 33.4203, 15.9301



17.8190, 33.4203, 55.0175

# Sweetspot

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



49.3182, 33.4218, 69.4978



84.3761, 79.1702, 103.7452



27.7507, 22.2115, 72.6376



17.7466, 16.3360, 22.0489



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.



49.3182, 33.4218, 69.4978



63.5315, 39.0378, 91.9974



43.5583, 31.1179, 39.1666



14.2598, 13.9215, 17.1381



24.7751, 11.9771, 37.0771



1.7276, 0.8343, 2.6246



# Inverse Universe

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



49.3182, 33.4218, 69.4978



63.5315, 39.0378, 91.9974



41.4926, 59.6654, 50.0434



14.2598, 13.9215, 17.1381



24.7751, 11.9771, 37.0771

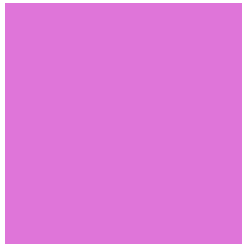


1.7276, 0.8343, 2.6246



# Previews

## White Background



This preview shows how the XYZ color 49.3171, 33.4203, 69.4971 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

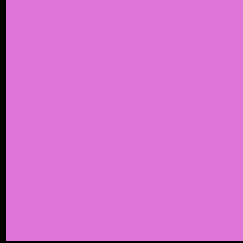
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.3171, 33.4203, 69.4971 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

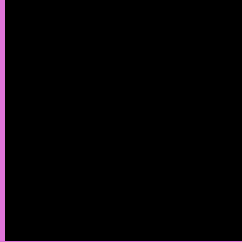
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 49.3171, 33.4203, 69.4971**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.3171, 33.4203, 69.4971.



This preview shows how white text looks on a background with the XYZ color 49.3171, 33.4203,



# 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

49.3171, 33.4203, 69.4971

### Protanopia

36.3701, 33.9642, 92.6345

### Deuteranopia

34.3438, 33.5151, 65.6317



## Tritanopia

41.2907, 33.3600, 30.6484

# Trichromacy



## Original Color

49.3171, 33.4203, 69.4971



## Protanomaly

38.9633, 32.4768, 83.5719



## Deuteranomaly

38.3297, 32.5118, 67.2060



## Tritanomaly

43.6851, 33.1303, 42.6204

# Monochromacy



## Original Color

49.3171, 33.4203, 69.4971



## Achromatopsia

33.4132, 35.1533, 38.2819



## Achromatomaly

37.8422, 33.3500, 48.1588

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.3171, 33.4203, 69.4971 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(223, 117, 217)` looks like.

```
.text, #text, p{  
    color:rgb(223, 117, 217)  
}
```

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(223, 117, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(223, 117, 217) }
```

## Border

The CSS property to change the border of an element to XYZ 49.3171, 33.4203, 69.4971 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(223, 117, 217) }
```



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

```
.border{ border-color:rgb(223, 117, 217) }
```

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

Here you see how a box with a 4 pixel `rgb(223, 117, 217)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(223, 117, 217); -webkit-box-  
shadow:4px 4px 4px 4px rgb(223, 117, 217);  
box-shadow:4px 4px 4px 4px rgb(223, 117,  
217) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.3171, 33.4203, 69.4971 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(223, 117, 217) }
```

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

```
.background{ background-color: rgb(223,  
117, 217) }
```

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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