

# Converting Colors

XYZ(49.3963, 34.4704, 69.9760)

Have a look what the booklet for  
XYZ(49.3963, 34.4704, 69.9760)  
contains.

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# Color

**XYZ(49.4261, 34.5478,  
69.7090)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DD7BD9
RGB	221, 123, 217
RGB Percent	87%, 48%, 85%
CMY	0.1333, 0.5176, 0.1490
CMYK	0.00, 0.44, 0.02, 0.13
HSL	302°, 59%, 67%
HSV	302°, 44%, 87%
XYZ	49.4261, 34.5478, 69.7090
YIQ	163.0180, 28.2340, 50.0100

# Conversions

## Conversions Part 2

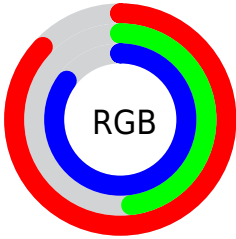
Format	Color
<a href="#">RYB</a>	<a href="#">221, 123, 217</a>
Decimal	<a href="#">14515161</a>
CIELab	<a href="#">65.40, 51.24, -32.04</a>
CIElCh	<a href="#">65, 60.428, 327.982</a>
Yxy	<a href="#">34.5478, 0.3216, 0.2248</a>
Android (android.graphics.Color)	<a href="#">4292705241</a> ( <a href="#">0xFFDD7BD9</a> )
YUV	<a href="#">163.0180, 26.6131, 50.8502</a>
Hunter-Lab	<a href="#">58.7774, 47.2409, -29.1728</a>

# Details

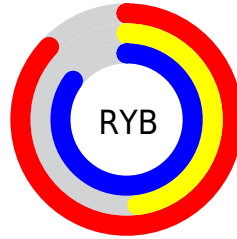
The XYZ color **49.4261, 34.5478, 69.7090** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **37.8570, 57.4574, 29.1757**, and the grayscale version is **34.6914, 36.4980, 39.7464**.

A 20% lighter version of the original color is **75.2104, 60.3208, 102.2868**, and **24.0216, 14.8815, 35.7888** is the 20% darker color. If you saturate the color by 10%, you get **46.8711, 29.6243, 68.2802**, and if you desaturate by 10%, it is **52.6029, 40.7122, 71.3489**.

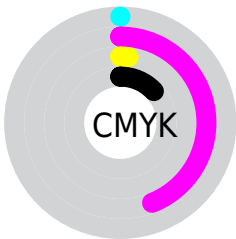
# Distribution



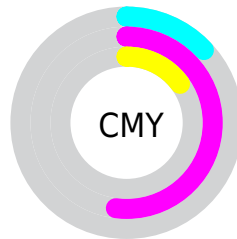
- Red (87%)
- Green (48%)
- Blue (85%)



- Red (87%)
- Yellow (48%)
- Blue (85%)



- Cyan (0%)
- Magenta (44%)
- Yellow (2%)
- Black (13%)




- Cyan (13%)
- Magenta (52%)
- Yellow (15%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.4261, 34.5478, 69.7090 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 49.4261, 34.5478, 69.7090 by changing the saturation by 10% instead.





 49.4261, 34.5478,  
69.7090


 49.4261, 34.5478,  
69.7090


374.9066,  
322.5678, 478.2891


 35.1735, 23.3148,  
50.8140


 88.5209, 66.7846,  
120.4709

 23.9637, 14.8261,  
35.6849


 114.0938, 88.5572,  
153.1749

 15.4313, 8.6974,  
23.9032


 144.1710,  
114.6118, 191.3189

 9.2109, 4.5444,  
15.0503

179.1176,  
145.3327, 235.3216

 4.9372, 1.9825,  
8.7077

219.2991,  
181.1043, 285.6014

 2.2449, 0.5973,  
4.4568

265.0809,

 0.7662, 0.0000,

222.3112, 342.5769

1.8791

316.8283,  
269.3375, 406.6666

■ 0.0000, 0.0000,  
0.4794

■ 0.0000, 0.0000,  
0.0000

■ 49.4261, 34.5478,  
69.7090

■ 49.4261, 34.5478,  
69.7090

■ 46.8711, 29.6243,  
68.2802

■ 52.6029, 40.7122,  
71.3489

■ 44.8921, 25.8526,  
67.0463


■ 56.4361, 48.1893,  
73.2104


■ 43.4430, 23.1396,  
65.9921


■ 60.9621, 57.0510,  
75.3060


■ 42.4687, 21.3753,  
65.0994


■ 66.2135, 67.3624,  
77.6466


 41.9024, 20.4259,  
64.3458


 72.2209, 79.1848,  
80.2424

 41.7002, 20.1248,  
63.9602

 78.8196, 92.1885,  
83.0384

 78.9411, 92.2371,  
83.6786

 79.0634, 92.2860,  
84.3223

 79.1862, 92.3352,  
84.9693

# Harmonies

## Analogous

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



41.4583, 34.5478, 98.9147



49.4261, 34.5478, 69.7090



52.8796, 34.5478, 39.3537

# Triad

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



49.4261, 34.5478, 69.7090



33.4377, 34.5478, 6.9542



20.0165, 34.5478, 65.3328

# Complementary

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



49.4261, 34.5478, 69.7090



37.8570, 57.4574, 29.1757

# 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.



18.6313, 34.5478, 35.9315



49.4261, 34.5478, 69.7090



25.5017, 34.5478, 8.9539

# Square

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



49.4261, 34.5478, 69.7090



42.6789, 34.5478, 9.6273



20.4491, 34.5478, 17.2876



24.6374, 34.5478, 95.6908



# Rectangle

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



49.4261, 34.5478, 69.7090



51.7633, 34.5478, 24.5209



20.4491, 34.5478, 17.2876



19.1977, 34.5478, 54.7009

# Sweetspot

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



49.4273, 34.5493, 69.7097



85.1543, 80.5560, 104.5303



28.7792, 23.8440, 71.4930



17.9043, 16.6104, 22.2276



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.



49.4273, 34.5493, 69.7097



65.1127, 41.5266, 94.6014



44.0395, 32.3942, 41.3382



13.5902, 13.2652, 16.3693



24.2346, 11.6949, 37.2111



1.5773, 0.7606, 2.4491



# Inverse Universe

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



49.4273, 34.5493, 69.7097



65.1127, 41.5266, 94.6014



41.7903, 59.0307, 49.8880



13.5902, 13.2652, 16.3693



24.2346, 11.6949, 37.2111



1.5773, 0.7606, 2.4491



# Previews

## White Background



This preview shows how the XYZ color 49.4261, 34.5478, 69.7090 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

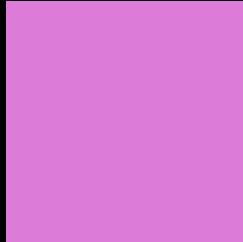
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.4261, 34.5478, 69.7090 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

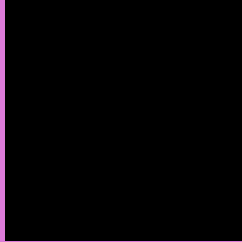
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 49.4261, 34.5478, 69.7090**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.4261, 34.5478, 69.7090.



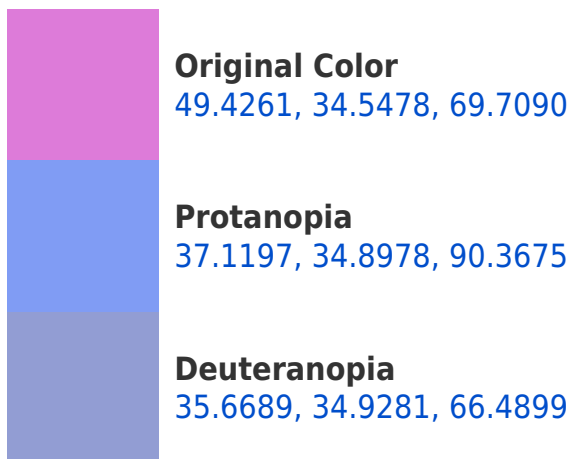
This preview shows how white text looks on a background with the XYZ color 49.4261, 34.5478,



# 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





## Tritanopia

41.9539, 34.4930, 32.8804

# Trichromacy



## Original Color

49.4261, 34.5478, 69.7090



## Protanomaly

39.7248, 33.5684, 82.2275



## Deuteranomaly

39.3692, 33.9391, 67.4267



## Tritanomaly

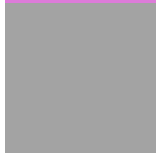
44.3464, 34.4300, 44.3527

# Monochromacy



## Original Color

49.4261, 34.5478, 69.7090



## Achromatopsia

34.8123, 36.6253, 39.8849



## Achromatomaly

38.9043, 34.7891, 49.4642

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.4261, 34.5478, 69.7090 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(221, 123, 217)` looks like.

```
.text, #text, p{  
    color:rgb(221, 123, 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(221, 123, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 123, 217) }
```

## Border

The CSS property to change the border of an element to XYZ 49.4261, 34.5478, 69.7090 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(221, 123, 217) }
```



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

```
.border{ border-color:rgb(221, 123, 217) }
```

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

Here you see how a box with a 4 pixel `rgb(221, 123, 217)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(221, 123, 217); -webkit-box-shadow:4px 4px 4px 4px rgb(221, 123, 217); box-shadow:4px 4px 4px 4px rgb(221, 123, 217) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.4261, 34.5478, 69.7090 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 123, 217) }
```

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

```
.background{ background-color: rgb(221,  
123, 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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