

# Converting Colors

XYZ(40.1970, 35.4316, 49.5759)

Have a look what the booklet for  
XYZ(40.1970, 35.4316, 49.5759)  
contains.

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# Color

**XYZ(40.1234, 35.4175,  
49.5213)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	BD94B7
RGB	189, 148, 183
RGB Percent	74%, 58%, 72%
CMY	0.2588, 0.4196, 0.2823
CMYK	0.00, 0.22, 0.03, 0.26
HSL	309°, 24%, 66%
HSV	309°, 22%, 74%
XYZ	40.1234, 35.4175, 49.5213
YIQ	164.2490, 13.2010, 19.5770

# Conversions

## Conversions Part 2

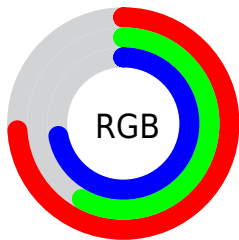
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">189, 148, 183</a>
Decimal	<a href="#">12424375</a>
CIELab	<a href="#">66.07, 21.32, -12.30</a>
CIElCh	<a href="#">66, 24.614, 330.013</a>
Yxy	<a href="#">35.4175, 0.3208, 0.2832</a>
Android (android.graphics.Color)	<a href="#">4290614455 (0xFFBD94B7)</a>
YUV	<a href="#">164.2490, 9.2442, 21.7066</a>
Hunter-Lab	<a href="#">59.5126, 16.1977, -7.6772</a>

# Details

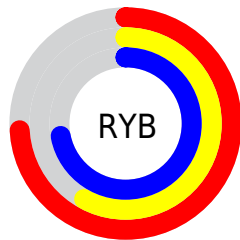
The XYZ color **40.1234, 35.4175, 49.5213** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **36.2445, 45.0252, 37.3542**, and the grayscale version is **35.3590, 37.2004, 40.5112**.

A 20% lighter version of the original color is **74.7066, 68.0659, 90.8619**, and **18.2956, 15.3120, 23.1103** is the 20% darker color. If you saturate the color by 10%, you get **37.1127, 29.8518, 47.1115**, and if you desaturate by 10%, it is **43.6259, 41.9567, 52.1238**.

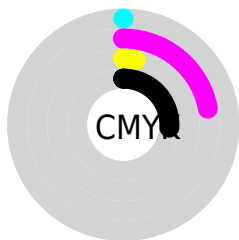
# Distribution



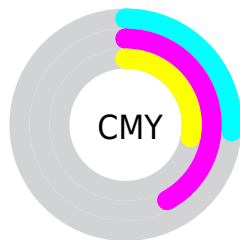
- Red (74%)
- Green (58%)
- Blue (72%)



- Red (74%)
- Yellow (58%)
- Blue (72%)



- Cyan (0%)
- Magenta (22%)
- Yellow (3%)
- Black (26%)




- Cyan (26%)
- Magenta (42%)
- Yellow (28%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.1234, 35.4175, 49.5213 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 40.1234, 35.4175, 49.5213 by changing the saturation by 10% instead.





 40.1234, 35.4175,  
49.5213


 40.1234, 35.4175,  
49.5213

337.7689,  
326.4073, 401.4723

 27.8194, 23.9847,  
34.6647


 74.6345, 68.1320,  
90.8542

 18.3293, 15.3222,  
23.1232


 97.5724, 90.1825,  
118.1675

 11.2878, 9.0459,  
14.4783


124.7856,  
116.5410, 150.4702

 6.3295, 4.7711,  
8.3116

156.6394,  
147.5919, 188.1807

 3.0890, 2.1136,  
4.2043

193.4994,  
183.7196, 231.7177

 1.2010, 0.6723,  
1.7381

235.7307,

 0.1072, 0.0000,

225.3085, 281.4995

0.3866

283.6987,  
272.7429, 337.9449

■ 0.0000, 0.0000,  
0.0000

■ 40.1234, 35.4175,  
49.5213

■ 40.1234, 35.4175,  
49.5213

■ 37.1127, 29.8518,  
47.1115

■ 43.6259, 41.9567,  
52.1238

■ 34.5671, 25.2080,  
44.8841

■ 47.6390, 49.5083,  
54.9241

■ 32.4623, 21.4367,  
42.8312

■ 52.1842, 58.1152,  
57.9301

■ 30.7704, 18.4822,  
40.9434

■ 57.2811, 67.8160,  
61.1483

■ 29.4602, 16.2823,  
39.2101

■ 62.9479, 78.6477,  
64.5851

■ 28.4961, 14.7659,  
37.6193

■ 67.1249, 86.4903,  
67.5539

■ 27.8357, 13.8481,  
36.1567

■ 67.4504, 86.6205,  
69.2677

■ 27.4496, 13.4042,  
35.0160

■ 67.7817, 86.7530,  
71.0125

■ 68.1189, 86.8879,  
72.7884

# Harmonies

## Analogous

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



37.3017, 35.4175, 58.7453



40.1234, 35.4175, 49.5213



41.1901, 35.4175, 38.5591

# Triad

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



40.1234, 35.4175, 49.5213



33.6617, 35.4175, 21.7374



27.9381, 35.4175, 49.5305

# Complementary

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



40.1234, 35.4175, 49.5213



36.2445, 45.0252, 37.3542

# 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.



27.1142, 35.4175, 38.5682



40.1234, 35.4175, 49.5213



30.2695, 35.4175, 23.6311

# Square

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



40.1234, 35.4175, 49.5213



37.2987, 35.4175, 23.6279



27.9367, 35.4175, 29.3548



30.2721, 35.4175, 58.7513



# Rectangle

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



40.1234, 35.4175, 49.5213



40.7066, 35.4175, 32.0785



27.9367, 35.4175, 29.3548



27.4832, 35.4175, 45.8687

# Sweetspot

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



40.1245, 35.4191, 49.5221



81.3084, 81.1070, 95.6044



33.0019, 31.6735, 52.5189



17.3934, 17.2695, 20.4951



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



40.1245, 35.4191, 49.5221



69.2068, 58.5123, 86.6114



38.1912, 34.6458, 39.3419



9.8683, 9.6716, 11.6955



18.4907, 9.0274, 23.6752



0.7409, 0.3603, 1.0149



# Inverse Universe

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



40.1245, 35.4191, 49.5221



69.2068, 58.5123, 86.6114



38.0483, 45.7467, 46.8532



9.8683, 9.6716, 11.6955



18.4907, 9.0274, 23.6752



0.7409, 0.3603, 1.0149



# Previews

## White Background



This preview shows how the XYZ color 40.1234, 35.4175, 49.5213 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

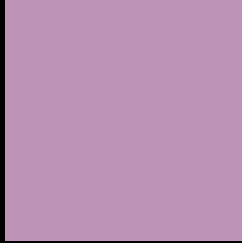
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.1234, 35.4175, 49.5213 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 40.1234, 35.4175, 49.5213**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.1234, 35.4175, 49.5213.



This preview shows how white text looks on a background with the XYZ color 40.1234, 35.4175,



# 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

40.1234, 35.4175, 49.5213

### Protanopia

35.3197, 35.5264, 54.2860

### Deuteranopia

36.3338, 35.6656, 48.6852



## Tritanopia

37.9272, 35.2167, 39.4488

# Trichromacy



## Original Color

40.1234, 35.4175, 49.5213

## Protanomaly

36.7348, 35.2890, 52.4523

## Deuteranomaly

37.6783, 35.6026, 49.1421

## Tritanomaly

38.6556, 35.2798, 42.8025

# Monochromacy



## Original Color

40.1234, 35.4175, 49.5213

## Achromatopsia

35.2861, 37.1238, 40.4278

## Achromatomaly

36.8111, 36.2782, 43.5903

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.1234, 35.4175, 49.5213 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(189, 148, 183)` looks like.

```
.text, #text, p{  
    color:rgb(189, 148, 183)  
}
```

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(189, 148, 183) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 148, 183) }
```

## Border

The CSS property to change the border of an element to XYZ 40.1234, 35.4175, 49.5213 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(189, 148, 183) }
```



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

```
.border{ border-color:rgb(189, 148, 183) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 148, 183)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 148, 183); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 148, 183);  
box-shadow:4px 4px 4px 4px rgb(189, 148,  
183) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.1234, 35.4175, 49.5213 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 148, 183) }
```

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

```
.background{ background-color: rgb(189,  
148, 183) }
```

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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