

# Converting Colors

XYZ(48.6254, 35.5880, 49.6581)

Have a look what the booklet for  
XYZ(48.6254, 35.5880, 49.6581)  
contains.

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# Color

**XYZ(48.6840, 35.5570,  
49.6447)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E580B8
RGB	229, 128, 184
RGB Percent	90%, 50%, 72%
CMY	0.1020, 0.4980, 0.2784
CMYK	0.00, 0.44, 0.20, 0.10
HSL	327°, 66%, 70%
HSV	327°, 44%, 90%
XYZ	48.6840, 35.5570, 49.6447
YIQ	164.5830, 42.2200, 38.8280

# Conversions

## Conversions Part 2

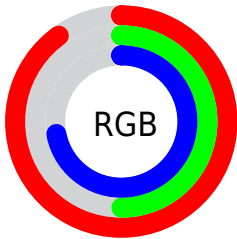
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	229, 128, 184
Decimal	15040696
CIE <sub>Lab</sub>	66.18, 45.83, -12.24
CIE <sub>LCh</sub>	66, 47.438, 345.042
Yxy	35.5570, 0.3636, 0.2656
Android (android.graphics.Color)	4293230776 (0xFFE580B8)
YUV	164.5830, 9.5726, 56.4937
Hunter-Lab	59.6297, 41.3824, -7.6211

# Details

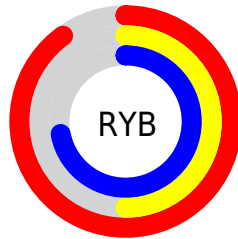
The XYZ color **48.6840, 35.5570, 49.6447** is a light color, and the websafe version is hex **FF99CC**. A complement of this color would be **44.4658, 63.6460, 49.4793**, and the grayscale version is **35.5071, 37.3563, 40.6810**.

A 20% lighter version of the original color is **73.9017, 61.4182, 90.3979**, and **23.4074, 15.3288, 23.1978** is the 20% darker color. If you saturate the color by 10%, you get **44.9959, 29.8309, 43.3273**, and if you desaturate by 10%, it is **53.1253, 42.6653, 56.5945**.

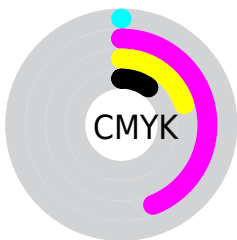
# Distribution



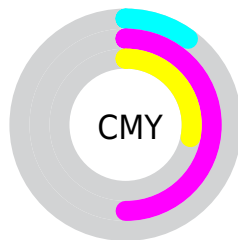
- Red (90%)
- Green (50%)
- Blue (72%)



- Red (90%)
- Yellow (50%)
- Blue (72%)



- Cyan (0%)
- Magenta (44%)
- Yellow (20%)
- Black (10%)




- Cyan (10%)
- Magenta (50%)
- Yellow (28%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.6840, 35.5570, 49.6447 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 48.6840, 35.5570, 49.6447 by changing the saturation by 10% instead.





 48.6840, 35.5570,  
49.6447


 48.6840, 35.5570,  
49.6447

372.0346,  
327.0201, 401.9701


 34.5824, 24.0923,  
34.7620


 87.4255, 68.3478,  
91.0391

 23.5064, 15.4021,  
23.1975


 112.7961, 90.4426,  
118.3879

 15.0906, 9.1021,  
14.5327


 142.6537,  
116.8495, 150.7290

 8.9697, 4.8078,  
8.3491

177.3637,  
147.9530, 188.4811

 4.7784, 2.1349,  
4.2282

217.2914,  
184.1374, 232.0628

 2.1512, 0.6842,  
1.7514

262.8022,

 0.7168, 0.0000,

225.7871, 281.8924

0.3956

314.2615,  
273.2866, 338.3887

■ 0.0000, 0.0000,  
0.0000

■ 48.6840, 35.5570,  
49.6447

■ 48.6840, 35.5570,  
49.6447

■ 44.9959, 29.8309,  
43.3273

■ 53.1253, 42.6653,  
56.5945

■ 42.0104, 25.3895,  
37.6165

■ 58.3600, 51.2345,  
64.1969

■ 39.6751, 22.1304,  
32.4868

■ 64.4287, 61.3436,  
72.4731

■ 37.9286, 19.9334,  
27.9094

■ 71.3686, 73.0641,  
81.4430

■ 36.6963, 18.6521,  
23.8504

■ 79.2143, 86.4633,  
91.1251

■ 36.1419, 18.1895,  
21.6731

■ 84.5886, 94.7842,  
100.4006

■ 86.1233, 95.3981,  
108.4822

# Harmonies

## Analogous

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



44.3431, 35.5570, 73.2043



48.6840, 35.5570, 49.6447



48.6774, 35.5570, 29.4751

# Triad

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



48.6840, 35.5570, 49.6447



30.3931, 35.5570, 11.9955



25.0811, 35.5570, 73.2660

# Complementary

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



48.6840, 35.5570, 49.6447



44.4658, 63.6460, 49.4793

# 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.



22.3060, 35.5570, 49.7098



48.6840, 35.5570, 49.6447



25.0696, 35.5570, 17.2266

# Square

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



48.6840, 35.5570, 49.6447



37.4230, 35.5570, 11.9888



22.3021, 35.5570, 29.5210



30.4110, 35.5570, 89.7456



# Rectangle

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



48.6840, 35.5570, 49.6447



46.1759, 35.5570, 20.4052



22.3021, 35.5570, 29.5210



23.8536, 35.5570, 65.6100

# Sweetspot

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



48.6851, 35.5587, 49.6454



83.0838, 79.7278, 93.6270



38.8257, 29.8417, 77.8429



17.3897, 16.4046, 19.5176



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.



48.6851, 35.5587, 49.6454



57.7641, 38.5872, 55.9041



44.3880, 33.8399, 27.0176



14.7098, 14.5011, 16.6722



20.7256, 10.4244, 12.7158



1.5782, 0.7890, 1.1851



# Inverse Universe

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



48.6851, 35.5587, 49.6454



57.7641, 38.5872, 55.9041



50.1432, 65.9169, 79.3759



14.7098, 14.5011, 16.6722



20.7256, 10.4244, 12.7158



1.5782, 0.7890, 1.1851



# Previews

## White Background



This preview shows how the XYZ color 48.6840, 35.5570, 49.6447 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

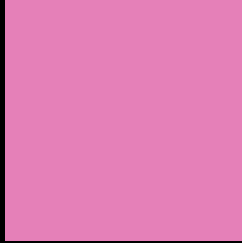
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.6840, 35.5570, 49.6447 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 48.6840, 35.5570, 49.6447**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.6840, 35.5570, 49.6447.



This preview shows how white text looks on a background with the XYZ color 48.6840, 35.5570,



# 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

48.6840, 35.5570, 49.6447

### Protanopia

36.1679, 36.0334, 62.8065

### Deuteranopia

36.5558, 35.8036, 47.6319



## Tritanopia

45.0438, 35.6912, 31.7091

# Trichromacy



## Original Color

48.6840, 35.5570, 49.6447

## Protanomaly

39.2584, 34.7947, 57.4702

## Deuteranomaly

40.1052, 34.9703, 48.3522

## Tritanomaly

46.0967, 35.4819, 37.6768

# Monochromacy



## Original Color

48.6840, 35.5570, 49.6447

## Achromatopsia

35.7637, 37.6262, 40.9749

## Achromatomaly

39.4137, 36.1264, 43.9255

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.6840, 35.5570, 49.6447 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(229, 128, 184)` looks like.

```
.text, #text, p{  
    color:rgb(229, 128, 184)  
}
```

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(229, 128, 184) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 128, 184) }
```

## Border

The CSS property to change the border of an element to XYZ 48.6840, 35.5570, 49.6447 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(229, 128, 184) }
```



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

```
.border{ border-color:rgb(229, 128, 184) }
```

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

Here you see how a box with a 4 pixel `rgb(229, 128, 184)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 128, 184); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 128, 184);  
box-shadow:4px 4px 4px 4px rgb(229, 128,  
184) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.6840, 35.5570, 49.6447 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 128, 184) }
```

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

```
.background{ background-color: rgb(229,  
128, 184) }
```

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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