

# Converting Colors

XYZ(49.6645, 38.8913, 59.7987)

Have a look what the booklet for  
XYZ(49.6645, 38.8913, 59.7987)  
contains.

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# Color

**XYZ(49.7630, 39.0307,  
59.5545)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DC8FC8
RGB	220, 143, 200
RGB Percent	86%, 56%, 78%
CMY	0.1373, 0.4392, 0.2157
CMYK	0.00, 0.35, 0.09, 0.14
HSL	316°, 52%, 71%
HSV	316°, 35%, 86%
XYZ	49.7630, 39.0307, 59.5545
YIQ	172.5210, 27.5950, 34.0510

# Conversions

## Conversions Part 2

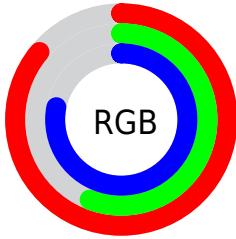
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	220, 143, 200
Decimal	14454728
CIE Lab	68.77, 37.59, -17.40
CIE LCh	69, 41.418, 335.158
Yxy	39.0307, 0.3354, 0.2631
Android (android.graphics.Color)	4292644808 (0xFFDC8FC8)
YUV	172.5210, 13.5471, 41.6391
Hunter-Lab	62.4746, 32.8505, -12.7866

# Details

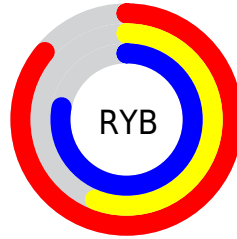
The XYZ color **49.7630, 39.0307, 59.5545** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **43.5334, 59.6716, 43.8762**, and the grayscale version is **39.4014, 41.4533, 45.1427**.

A 20% lighter version of the original color is **79.4841, 68.8682, 103.7114**, and **24.2392, 17.4500, 29.2848** is the 20% darker color. If you saturate the color by 10%, you get **46.1233, 32.7997, 55.1077**, and if you desaturate by 10%, it is **54.0777, 46.5704, 64.3503**.

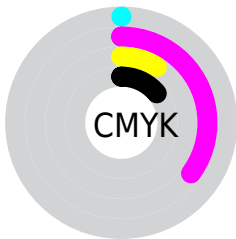
# Distribution



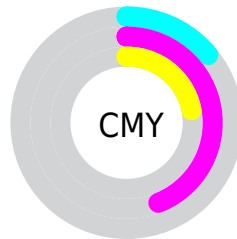
- Red (86%)
- Green (56%)
- Blue (78%)



- Red (86%)
- Yellow (56%)
- Blue (78%)



- Cyan (0%)
- Magenta (35%)
- Yellow (9%)
- Black (14%)




- Cyan (14%)
- Magenta (44%)
- Yellow (22%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.7630, 39.0307, 59.5545 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 49.7630, 39.0307, 59.5545 by changing the saturation by 10% instead.





 49.7630, 39.0307,  
59.5545

 49.7630, 39.0307,  
59.5545


376.2057,  
342.0210, 440.7127

 35.4421, 26.7836,  
42.6367


 89.0176, 73.6852,  
105.7202

 24.1718, 17.4108,  
29.2709


 114.6820, 96.8614,  
135.8051

 15.5865, 10.5278,  
19.0385

144.8583,  
124.4495, 171.1162

 9.3210, 5.7503,  
11.5210

179.9118,  
156.8338, 212.0720

 5.0099, 2.6938,  
6.2999

220.2080,  
194.3986, 259.0910

 2.2879, 0.9741,  
2.9565

266.1121,

 0.7885, 0.0000,

237.5286, 312.5918

1.0725

317.9896,  
286.6079, 372.9928

■ 0.0000, 0.0000,  
0.0000

■ 49.7630, 39.0307,  
59.5545

■ 49.7630, 39.0307,  
59.5545

■ 46.1233, 32.7997,  
55.1077

■ 54.0777, 46.5704,  
64.3503

■ 43.1167, 27.7960,  
50.9933

■ 59.0989, 55.4835,  
69.5057

■ 40.7021, 23.9372,  
47.1968


■ 64.8606, 65.8368,  
75.0337


■ 38.8319, 21.1286,  
43.7009


■ 71.3934, 77.6909,  
80.9458


■ 37.4510, 19.2604,  
40.4859

■ 78.7261, 91.1034,  
87.2528


 36.4919, 18.1979,  
37.5277

 80.1683, 92.6929,  
91.7259

 36.1133, 17.8549,  
36.1250

 81.0042, 93.0273,  
96.1275

 81.8668, 93.3723,  
100.6700

 82.7564, 93.7282,  
105.3545

# Harmonies

## Analogous

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



44.8460, 39.0307, 79.4064



49.7630, 39.0307, 59.5545



51.1330, 39.0307, 39.3319

# Triad

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



49.7630, 39.0307, 59.5545



35.9749, 39.0307, 15.7156



27.7102, 39.0307, 66.8808

# Complementary

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



49.7630, 39.0307, 59.5545



43.5334, 59.6716, 43.8762

# 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.



25.8987, 39.0307, 45.8292



49.7630, 39.0307, 59.5545



30.2973, 39.0307, 19.2752

# Square

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



49.7630, 39.0307, 59.5545



42.6536, 39.0307, 17.4208



26.7870, 39.0307, 29.0550



32.0461, 39.0307, 84.4363



# Rectangle

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



49.7630, 39.0307, 59.5545



49.7273, 39.0307, 28.9151



26.7870, 39.0307, 29.0550



26.8107, 39.0307, 59.7809

# Sweetspot

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



49.7642, 39.0325, 59.5553



86.3996, 84.3764, 100.8458



37.6936, 32.5219, 72.0015



18.2515, 17.6263, 21.3522



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.



49.7642, 39.0325, 59.5553



65.7042, 47.9645, 78.5985



45.8830, 37.4800, 39.1171



13.4624, 13.2141, 15.6963



21.2421, 10.4979, 21.4527



1.4106, 0.6939, 1.5712



# Inverse Universe

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



49.7642, 39.0325, 59.5553



65.7042, 47.9645, 78.5985



47.4355, 61.2324, 64.4245



13.4624, 13.2141, 15.6963



21.2421, 10.4979, 21.4527

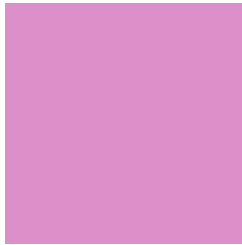


1.4106, 0.6939, 1.5712



# Previews

## White Background



This preview shows how the XYZ color 49.7630, 39.0307, 59.5545 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

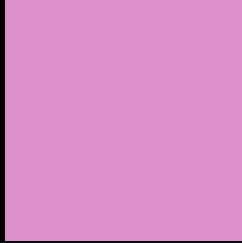
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.7630, 39.0307, 59.5545 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

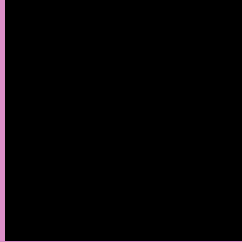
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 49.7630, 39.0307, 59.5545**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.7630, 39.0307, 59.5545.



This preview shows how white text looks on a background with the XYZ color 49.7630, 39.0307,



# 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

49.7630, 39.0307, 59.5545

### Protanopia

39.5485, 39.1989, 70.4475

### Deuteranopia

40.0339, 39.1944, 57.6798



## Tritanopia

45.4523, 38.8684, 39.2892

# Trichromacy



## Original Color

49.7630, 39.0307, 59.5545



## Protanomaly

42.4501, 38.6906, 66.2034



## Deuteranomaly

42.9528, 38.6270, 58.0152



## Tritanomaly

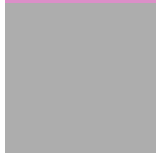
46.8855, 38.7537, 46.0834

# Monochromacy



## Original Color

49.7630, 39.0307, 59.5545



## Achromatopsia

39.7200, 41.7885, 45.5077



## Achromatomaly

42.7028, 40.2067, 50.3097

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.7630, 39.0307, 59.5545 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(220, 143, 200)` looks like.

```
.text, #text, p{  
    color:rgb(220, 143, 200)  
}
```

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(220, 143, 200) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 143, 200) }
```

## Border

The CSS property to change the border of an element to XYZ 49.7630, 39.0307, 59.5545 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(220, 143, 200) }
```



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

```
.border{ border-color:rgb(220, 143, 200) }
```

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

Here you see how a box with a 4 pixel rgb(220, 143, 200) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 143, 200); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 143, 200);  
box-shadow:4px 4px 4px 4px rgb(220, 143,  
200) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.7630, 39.0307, 59.5545 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 143, 200) }
```

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

```
.background{ background-color: rgb(220,  
143, 200) }
```

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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