

# Converting Colors

XYZ(49.8908, 39.9495, 80.9282)

Have a look what the booklet for  
XYZ(49.8908, 39.9495, 80.9282)  
contains.

<b>XYZ(49.7999, 39.9609, 80.6898)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(49.7999, 39.9609,  
80.6898)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CB95E7
RGB	203, 149, 231
RGB Percent	80%, 58%, 91%
CMY	0.2039, 0.4157, 0.0941
CMYK	0.12, 0.35, 0.00, 0.09
HSL	280°, 63%, 75%
HSV	280°, 35%, 91%
XYZ	49.7999, 39.9609, 80.6898
YIQ	174.4940, 5.8620, 36.9500

# Conversions

## Conversions Part 2

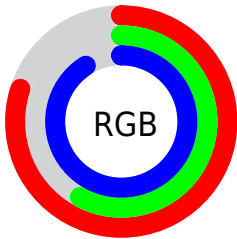
Format	Color
RYP	203, 149, 231
Decimal	13342183
CIELab	69.44, 34.81, -33.67
CIElCh	69, 48.429, 315.946
Yxy	39.9609, 0.2922, 0.2344
Android (android.graphics.Color)	4291532263 (0xFFCB95E7)
YUV	174.4940, 27.8575, 24.9998
Hunter-Lab	63.2146, 29.9950, -31.4300

# Details

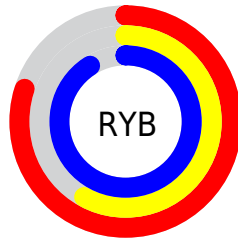
The XYZ color **49.7999, 39.9609, 80.6898** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **52.1333, 68.6698, 38.9423**, and the grayscale version is **40.3463, 42.4474, 46.2253**.

A 20% lighter version of the original color is **80.8829, 71.6657, 104.1776**, and **24.2253, 17.9404, 42.7435** is the 20% darker color. If you saturate the color by 10%, you get **44.4078, 32.2841, 79.4929**, and if you desaturate by 10%, it is **56.0288, 49.1469, 82.1352**.

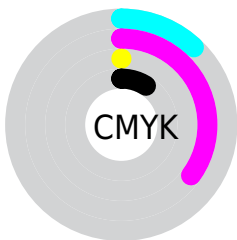
# Distribution



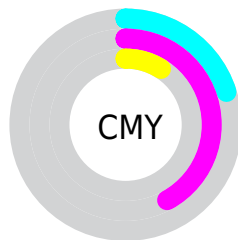
- Red (80%)
- Green (58%)
- Blue (91%)



- Red (80%)
- Yellow (58%)
- Blue (91%)



- Cyan (12%)
- Magenta (35%)
- Yellow (0%)
- Black (9%)




- Cyan (20%)
- Magenta (42%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.7999, 39.9609, 80.6898 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 49.7999, 39.9609, 80.6898 by changing the saturation by 10% instead.





 49.7999, 39.9609,  
80.6898

 49.7999, 39.9609,  
80.6898


376.3478,  
345.9587, 517.0224

 35.4716, 27.5081,  
59.7567


 89.0719, 75.1040,  
136.1553

 24.1946, 17.9552,  
42.7985


 114.7463, 98.5630,  
171.5247

 15.6035, 10.9178,  
29.3968


144.9335,  
126.4595, 212.5432

 9.3331, 6.0116,  
19.1331

179.9987,  
159.1780, 259.6295

 5.0179, 2.8521,  
11.5887

220.3075,  
197.1027, 313.2020

 2.2927, 1.0550,  
6.3451

266.2250,

 0.7909, 0.0000,

240.6182, 373.6793

2.9839

318.1167,  
290.1087, 441.4799

■ 0.0000, 0.0000,  
1.0864

■ 0.0000, 0.0000,  
0.0000

■ 49.7999, 39.9609,  
80.6898

■ 49.7999, 39.9609,  
80.6898

■ 44.4078, 32.2841,  
79.4929

■ 56.0288, 49.1469,  
82.1352

■ 39.8038, 26.0245,  
78.5273

■ 63.1314, 59.9170,  
83.8397

■ 35.9398, 21.0878,  
77.7781

■ 71.1475, 72.3469,  
85.8164

■ 32.7606, 17.3655,  
77.2271

■ 80.1127, 86.5060,  
88.0769

■ 30.2018, 14.7316,  
76.8536

■ 86.9534, 96.2449,  
89.5961

■ 28.1846, 13.0311,  
76.6317

■ 89.7262, 97.6743,  
89.7259

■ 27.3960, 12.4569,  
76.5624

■ 91.4239, 98.5496,  
89.8054

# Harmonies

## Analogous

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



42.2486, 39.9609, 99.1886



49.7999, 39.9609, 80.6898



54.4498, 39.9609, 54.7856

# Triad

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



49.7999, 39.9609, 80.6898



41.7377, 39.9609, 13.7471



25.3193, 39.9609, 56.3965

# Complementary

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



49.7999, 39.9609, 80.6898



52.1333, 68.6698, 38.9423

# 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.



25.2218, 39.9609, 33.8996



49.7999, 39.9609, 80.6898



34.0121, 39.9609, 13.9179

# Square

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



49.7999, 39.9609, 80.6898



49.3821, 39.9609, 19.3831



28.1988, 39.9609, 19.9732



28.4865, 39.9609, 82.2112



# Rectangle

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



49.7999, 39.9609, 80.6898



54.9189, 39.9609, 39.2152



28.1988, 39.9609, 19.9732



24.9428, 39.9609, 48.1088

# Sweetspot

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



49.8012, 39.9626, 80.6907



83.3090, 81.6193, 105.9710



42.6804, 43.8822, 81.8226



17.5431, 17.0238, 22.6113



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.



49.8012, 39.9626, 80.6907



57.0107, 42.4155, 99.7900



56.4502, 43.5840, 72.2492



14.4922, 14.3560, 18.1515



15.4964, 7.0546, 42.9281



1.2436, 0.5721, 3.1768



# Inverse Universe

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



51.6394, 41.6597, 46.9157



59.9445, 45.0281, 50.2176



47.4311, 66.1262, 44.1225



14.5791, 14.4488, 15.9838



19.3160, 9.8606, 5.2931

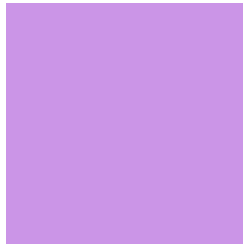


1.4697, 0.7456, 0.6139



# Previews

## White Background



This preview shows how the XYZ color 49.7999, 39.9609, 80.6898 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

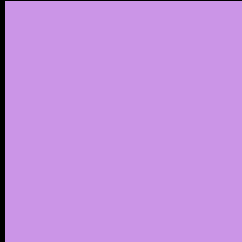
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.7999, 39.9609, 80.6898 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

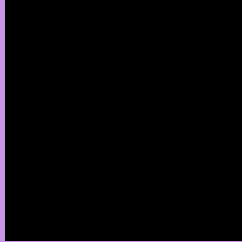
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 49.7999, 39.9609, 80.6898**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.7999, 39.9609, 80.6898.



This preview shows how white text looks on a background with the XYZ color 49.7999, 39.9609,



# 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

49.7999, 39.9609, 80.6898

### Protanopia

41.9772, 40.2497, 91.9427

### Deuteranopia

41.0103, 40.0535, 78.2427



## Tritanopia

42.5358, 39.9762, 45.0095

# Trichromacy



## Original Color

49.7999, 39.9609, 80.6898



## Protanomaly

44.0249, 39.5399, 87.7497



## Deuteranomaly

43.5877, 39.5137, 78.7284



## Tritanomaly

44.8205, 39.8793, 56.3741

# Monochromacy



## Original Color

49.7999, 39.9609, 80.6898



## Achromatopsia

40.2316, 42.3268, 46.0938



## Achromatomaly

43.3130, 41.1647, 57.2925

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.7999, 39.9609, 80.6898 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(203, 149, 231)` looks like.

```
.text, #text, p{  
    color:rgb(203, 149, 231)  
}
```

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(203, 149, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 149, 231) }
```

## Border

The CSS property to change the border of an element to XYZ 49.7999, 39.9609, 80.6898 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(203, 149, 231) }
```



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

```
.border{ border-color:rgb(203, 149, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(203, 149, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 149, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 149, 231);  
box-shadow:4px 4px 4px 4px rgb(203, 149,  
231) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.7999, 39.9609, 80.6898 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 149, 231) }
```

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

```
.background{ background-color: rgb(203,  
149, 231) }
```

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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