

# Converting Colors

CIELCh(50, 38.838, 309.915)

Have a look what the booklet for  
CIELCh(50, 38.838, 309.915)  
contains.

<b>CIELCh(50, 38.936, 309.900)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

**Color**

**CIELCh(50, 38.936, 309.900)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	886AAA
RGB	136, 106, 170
RGB Percent	53%, 42%, 67%
CMY	0.4670, 0.5846, 0.3337
CMYK	0.20, 0.38, 0.00, 0.33
HSL	268°, 27%, 54%
HSV	268°, 38%, 67%
XYZ	22.5338, 18.4187, 40.3561
YIQ	122.2660, -2.6640, 26.2640

# Conversions

## Conversions Part 2

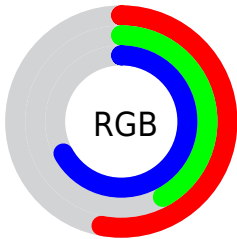
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	136, 106, 170
Decimal	8940202
CIE <sub>Lab</sub>	50.00, 24.98, -29.87
CIE <sub>LCh</sub>	50, 38.936, 309.900
Yxy	18.4187, 0.2771, 0.2265
Android (android.graphics.Color)	4287130282 (0xFF886AAA)
YUV	122.2660, 23.5329, 12.0447
Hunter-Lab	42.9170, 18.6178, -25.7103

# Details

The CIELCh color `50, 38.936, 309.900` is a dark color, and the websafe version is hex `996699`. A complement of this color would be `66, 36.776, 126.200`, and the grayscale version is `51, 0.007, 296.813`.

A 20% lighter version of the original color is `70, 38.932, 309.565`, and `30, 38.733, 310.193` is the 20% darker color. If you saturate the color by 10%, you get `45, 49.688, 310.474`, and if you desaturate by 10%, it is `55, 28.265, 309.335`.

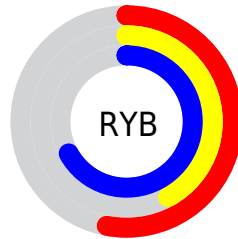
# Distribution



Red (53%)

Green (42%)

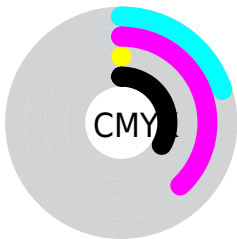
Blue (67%)



Red (53%)

Yellow (42%)

Blue (67%)

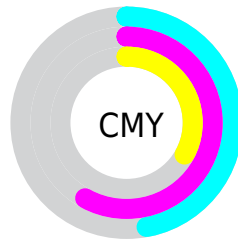


Cyan (20%)

Magenta (38%)

Yellow (0%)

Black (33%)



Cyan (47%)

Magenta (58%)


Yellow (33%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 38.936, 309.900 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 CIELCh color 50, 38.936, 309.900 by changing the saturation by 10% instead.





 50, 38.936,  
309.900


 50, 38.936,  
309.900


 100, 38.936,  
309.900


 40, 38.936,  
309.900


 70, 38.936,  
309.900

 30, 38.936,  
309.900


 80, 38.936,  
309.900


 20, 38.936,  
309.900

 90, 38.936,  
309.900

 10, 38.936,  
309.900

 0, 38.936, 309.900

 50, 38.936,  
309.900

 50, 38.936,  
309.900

45, 49.688,  
310.474

55, 28.265,  
309.335

40, 60.300,  
311.019

60, 17.803,  
308.799

36, 70.398,  
311.474

66, 7.613, 308.301

32, 79.415,  
311.750

71, 2.279, 127.911

29, 86.620,  
311.733

76, 11.864,  
127.480

26, 91.540,  
311.358

81, 21.148,  
127.125

26, 92.615,  
311.279

86, 30.140,  
126.816

92, 38.855,  
126.546

96, 45.147,  
125.477



# Harmonies

# Complementary

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



50, 38.936, 309.900



66, 36.776, 126.200

# Rectangle

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



50, 38.936, 309.900



50, 38.936, 359.900



50, 38.936, 129.900



50, 38.936, 179.900

# Sweetspot

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



50, 38.935, 309.900



81, 13.649, 308.473



57, 20.006, 257.803



42, 9.262, 308.538



95, 0.011, 296.813



47, 0.006, 296.813





# Same Dimension

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



50, 38.935, 309.900



60, 58.210, 310.369



53, 42.666, 325.457



33, 5.593, 308.379



22, 83.529, 311.406



1, 9.954, 305.623



# Inverse Universe

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



53, 31.504, 345.478



64, 46.502, 346.466



64, 42.624, 140.942



33, 4.627, 342.698



31, 56.952, 358.310

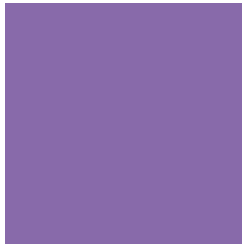


2, 7.945, 345.975



# Previews

## White Background



This preview shows how the CIELCh color 50, 38.936, 309.900 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

# Black Background



This preview shows how the CIE LCh color 50, 38.936, 309.900 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

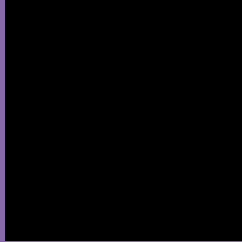
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 50, 38.936, 309.900**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 50, 38.936, 309.900.



This preview shows how white text looks on a background with the CIELCh color 50, 38.936, 309.900.

# 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

50, 38.936, 309.900


### Protanopia

50, 36.428, 285.593

### Deuteranopia

50, 29.469, 283.796





**Tritanopia**  
50, 7.439, 335.237

# Trichromacy



**Original Color**  
50, 38.936, 309.900

**Protanomaly**  
50, 36.876, 294.253

**Deuteranomaly**  
50, 32.206, 294.194

**Tritanomaly**  
50, 18.547, 315.139

# Monochromacy



**Original Color**  
50, 38.936, 309.900

**Achromatopsia**  
51, 0.007, 296.813

**Achromatomaly**  
51, 14.154, 309.056

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 38.936, 309.900 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(136, 106, 170)` looks like.

```
.text, #text, p{  
    color:rgb(136, 106, 170)  
}
```

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(136, 106, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 106, 170) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 38.936, 309.900 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(136, 106, 170) }
```

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

```
.border{ border-color:rgb(136, 106, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(136, 106, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(136, 106, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(136, 106, 170);  
box-shadow:4px 4px 4px 4px rgb(136, 106,  
170) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 38.936, 309.900 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(136, 106, 170) }
```

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

```
.background{ background-color: rgb(136,  
106, 170) }
```

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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