

# Converting Colors

CIELCh(50, 72.566, 307.069)

Have a look what the booklet for  
CIELCh(50, 72.566, 307.069)  
contains.

<b>CIELCh(50, 72.566, 307.069)</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, 72.566, 307.069)**

# Conversions

## Conversions Part 1

Format	Color
Hex	885FDB
RGB	136, 95, 219
RGB Percent	53%, 37%, 86%
CMY	0.4682, 0.6288, 0.1427
CMYK	0.38, 0.57, 0.00, 0.14
HSL	260°, 63%, 61%
HSV	260°, 57%, 86%
XYZ	26.8868, 18.4187, 68.8870
YIQ	121.3950, -15.3680, 47.2560

# Conversions

## Conversions Part 2

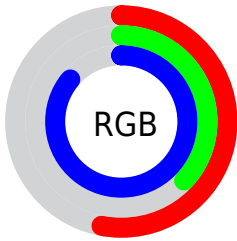
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	136, 95, 219
Decimal	8937435
CIE <sub>Lab</sub>	50.00, 43.74, -57.90
CIE <sub>LCh</sub>	50, 72.566, 307.069
Yxy	18.4187, 0.2355, 0.1613
Android (android.graphics.Color)	4287127515 (0xFF885FDB)
YUV	121.3950, 48.1193, 12.8086
Hunter-Lab	42.9170, 36.7227, -65.1259

# Details

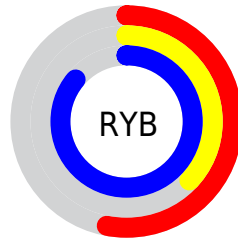
The CIELCh color **50, 72.566, 307.069** is a dark color, and the websafe version is hex **9966CC**. The color can be described as middle muted purple. A complement of this color would be **82, 64.122, 119.988**, and the grayscale version is **51, 0.007, 296.813**.

A 20% lighter version of the original color is **69, 60.976, 308.881**, and **30, 72.611, 307.032** is the 20% darker color. If you saturate the color by 10%, you get **44, 85.572, 307.875**, and if you desaturate by 10%, it is **56, 59.194, 306.219**.

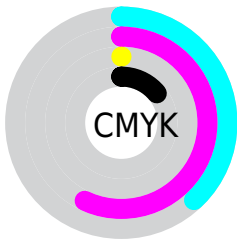
# Distribution



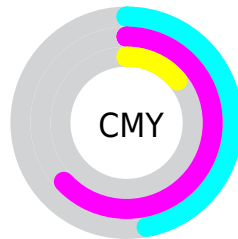
- Red (53%)
- Green (37%)
- Blue (86%)



- Red (53%)
- Yellow (37%)
- Blue (86%)



- Cyan (38%)
- Magenta (57%)
- Yellow (0%)
- Black (14%)




- Cyan (47%)
- Magenta (63%)
- Yellow (14%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 72.566, 307.069 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, 72.566, 307.069 by changing the saturation by 10% instead.





 50, 72.566,  
307.069


 50, 72.566,  
307.069


 100, 72.566,  
307.069


 40, 72.566,  
307.069


 70, 72.566,  
307.069

 30, 72.566,  
307.069


 80, 72.566,  
307.069


 20, 72.566,  
307.069

 90, 72.566,  
307.069

 10, 72.566,  
307.069

 0, 72.566, 307.069

 50, 72.566,  
307.069

 50, 72.566,  
307.069

44, 85.572,  
307.875

56, 59.194,  
306.219

39, 97.469,  
308.524

63, 45.884,  
305.392

34, 107.156,  
308.858

69, 32.854,  
304.623

31, 113.491,  
308.718

76, 20.204,  
303.926

31, 115.138,  
308.638

83, 7.971, 303.304

89, 3.843, 122.785

96, 15.247,  
122.300

99, 18.427,  
111.396

99, 18.399,  
108.786



# Harmonies

# Complementary

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



50, 72.566, 307.069



82, 64.122, 119.988

# Rectangle

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



50, 72.566, 307.069



50, 72.566, 357.069



50, 72.566, 127.069



50, 72.566, 177.069

# Sweetspot

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



50, 72.565, 307.069



87, 23.322, 303.956



69, 31.138, 242.253



45, 15.654, 304.091



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



50, 72.565, 307.069



50, 98.777, 308.014



57, 74.611, 321.646



42, 6.801, 303.467



23, 96.675, 308.788



3, 30.294, 303.326



# Inverse Universe

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



58, 61.406, 340.368



63, 79.604, 341.808



79, 73.373, 135.837



43, 6.345, 336.172



38, 67.915, 347.071

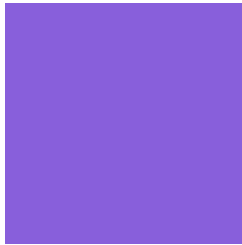


6, 27.475, 343.028



# Previews

## White Background



This preview shows how the CIELCh color 50, 72.566, 307.069 looks on a white background.

## Color Contrast Check

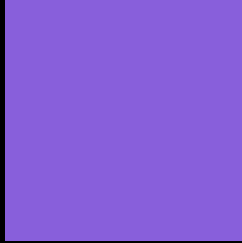
Large Text (above 18pt) WCAG AA ✓ Pass

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, 72.566, 307.069 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

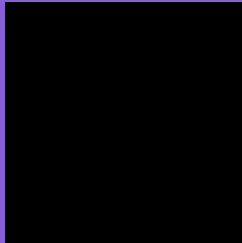
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 50, 72.566, 307.069**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 50, 72.566, 307.069.



This preview shows how white text looks on a background with the CIELCh color 50, 72.566, 307.069.

# 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, 72.566, 307.069


### Protanopia

50, 72.920, 287.758

### Deuteranopia

50, 55.081, 278.112





**Tritanopia**  
50, 5.372, 278.369

# Trichromacy



**Original Color**  
50, 72.566, 307.069



**Protanomaly**  
49, 72.294, 292.171



**Deuteranomaly**  
49, 61.107, 288.022



**Tritanomaly**  
49, 30.393, 302.423

# Monochromacy



**Original Color**  
50, 72.566, 307.069



**Achromatopsia**  
51, 0.007, 296.813



**Achromatomaly**  
50, 27.043, 304.829

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 72.566, 307.069 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, 95, 219)` looks like.

```
.text, #text, p{  
    color:rgb(136, 95, 219)  
}
```

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, 95, 219) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 95, 219) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 72.566, 307.069 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, 95, 219) }
```

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

```
.border{ border-color:rgb(136, 95, 219) }
```

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

Here you see how a box with a 4 pixel rgb(136, 95, 219) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(136, 95, 219); -webkit-box-  
shadow:4px 4px 4px 4px rgb(136, 95, 219);  
box-shadow:4px 4px 4px 4px rgb(136, 95,  
219) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 72.566, 307.069 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(136, 95, 219) }
```

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

```
.background{ background-color: rgb(136, 95,  
219) }
```

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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