

# Converting Colors

CIELCh(49, 58.915, 297.198)

Have a look what the booklet for  
CIELCh(49, 58.915, 297.198)  
contains.

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# Color

**CIELCh(49, 59.097, 297.265)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	6969CE
RGB	105, 105, 206
RGB Percent	41%, 41%, 81%
CMY	0.5878, 0.5879, 0.1917
CMYK	0.49, 0.49, 0.00, 0.19
HSL	240°, 51%, 61%
HSV	240°, 49%, 81%
XYZ	22.0538, 17.5941, 60.6961
YIQ	116.5140, -32.4210, 31.4110

# Conversions

## Conversions Part 2

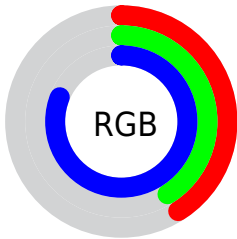
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	105, 105, 206
Decimal	6908366
CIE Lab	49.00, 27.07, -52.53
CIE LCh	49, 59.097, 297.265
Yxy	17.5941, 0.2198, 0.1753
Android (android.graphics.Color)	4285098446 (0xFF6969CE)
YUV	116.5140, 44.1166, -10.0978
Hunter-Lab	41.9453, 20.4467, -56.4327

# Details

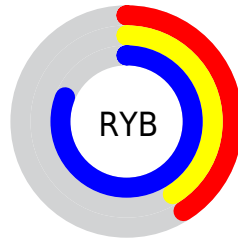
The CIELCh color  $49, 59.097, 297.265$  is a dark color, and the websafe version is hex  $6666CC$ . A complement of this color would be  $81, 51.637, 105.545$ , and the grayscale version is  $49, 0.007, 296.813$ .

A 20% lighter version of the original color is  $69, 54.531, 297.207$ , and  $29, 59.132, 297.186$  is the 20% darker color. If you saturate the color by 10%, you get  $42, 72.518, 299.380$ , and if you desaturate by 10%, it is  $56, 46.054, 295.367$ .

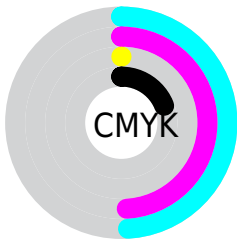
# Distribution



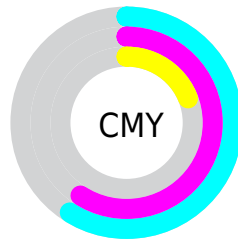
- Red (41%)
- Green (41%)
- Blue (81%)



- Red (41%)
- Yellow (41%)
- Blue (81%)



- Cyan (49%)
- Magenta (49%)
- Yellow (0%)
- Black (19%)



- Cyan (59%)
- Magenta (59%)
- Yellow (19%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 59.097, 297.265 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 49, 59.097, 297.265 by changing the saturation by 10% instead.





 49, 59.097,  
297.265


 49, 59.097,  
297.265


 100, 59.097,  
297.265


 39, 59.097,  
297.265

 69, 59.097,  
297.265


 29, 59.097,  
297.265

 79, 59.097,  
297.265

 19, 59.097,  
297.265

 89, 59.097,  
297.265

 9, 59.097, 297.265

 99, 59.097,  
297.265

 0, 59.097, 297.265

 49, 59.097,

 49, 59.097,

297.265

42, 72.518,  
299.380

36, 85.903,  
301.594

31, 98.265,  
303.676

27, 107.906,  
305.288

25, 113.498,  
306.209

25, 113.978,  
306.288

297.265

56, 46.054,  
295.367

63, 33.521,  
293.716

70, 21.510,  
292.307

77, 9.993, 291.113

83, 1.066, 110.030

90, 11.702,  
109.225

97, 21.947,  
108.494

99, 24.679,  
108.306

# Harmonies

# Complementary

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



49, 59.097, 297.265



81, 51.637, 105.545

# Rectangle

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



49, 59.097, 297.265



49, 59.097, 347.265



49, 59.097, 117.265



49, 59.097, 167.265

# Sweetspot

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



49, 59.096, 297.266



88, 20.016, 291.826



77, 30.759, 197.203



45, 13.716, 292.090



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



49, 59.096, 297.266



52, 86.282, 299.538



54, 60.005, 311.551



39, 6.244, 291.154



19, 96.929, 306.288



1, 23.534, 292.450





# Inverse Universe

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



60, 64.276, 326.997



68, 89.231, 327.435



77, 55.821, 126.803



40, 7.537, 324.938



39, 83.700, 328.239

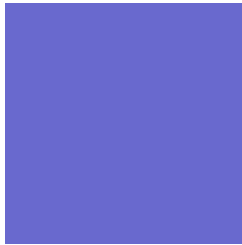


5, 29.038, 327.502



# Previews

## White Background



This preview shows how the CIELCh color 49, 59.097, 297.265 looks on a white background.

## Color Contrast Check

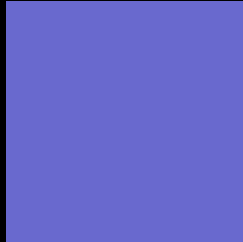
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIE LCh color 49, 59.097, 297.265 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

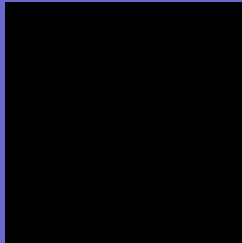
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 49, 59.097, 297.265

## Background



This preview shows how black text looks on a background with the CIELCh color 49, 59.097, 297.265.



This preview shows how white text looks on a background with the CIELCh color 49, 59.097, 297.265.

# 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





**Tritanopia**  
49, 14.814, 219.123



# Trichromacy



**Original Color**  
49, 59.097, 297.265

**Protanomaly**  
49, 59.159, 290.327

**Deuteranomaly**  
49, 53.797, 284.931

**Tritanomaly**  
49, 26.172, 275.570

# Monochromacy



**Original Color**  
49, 59.097, 297.265

**Achromatopsia**  
49, 0.007, 296.813

**Achromatomaly**  
49, 21.188, 292.917

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 59.097, 297.265 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(105, 105, 206)` looks like.

```
.text, #text, p{  
    color:rgb(105, 105, 206)  
}
```

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(105, 105, 206) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(105, 105, 206) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 59.097, 297.265 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(105, 105, 206) }
```

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

```
.border{ border-color:rgb(105, 105, 206) }
```

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

Here you see how a box with a 4 pixel `rgb(105, 105, 206)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(105, 105, 206); -webkit-box-shadow:4px 4px 4px 4px rgb(105, 105, 206); box-shadow:4px 4px 4px 4px rgb(105, 105, 206) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 59.097, 297.265 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(105, 105, 206) }
```

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

```
.background{ background-color: rgb(105,  
105, 206) }
```

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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