

# Converting Colors

CIELCh(49, 21.007, 294.295)

Have a look what the booklet for  
CIELCh(49, 21.007, 294.295)  
contains.

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# Color

**CIELCh(49, 21.209, 294.834)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	737195
RGB	115, 113, 149
RGB Percent	45%, 44%, 58%
CMY	0.5494, 0.5572, 0.4161
CMYK	0.23, 0.24, 0.00, 0.42
HSL	243°, 15%, 51%
HSV	243°, 24%, 58%
XYZ	18.3689, 17.5941, 30.8198
YIQ	117.7020, -10.3640, 11.6200

# Conversions

## Conversions Part 2

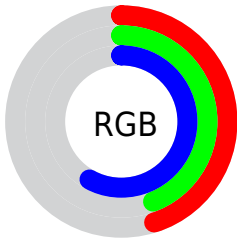
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">115, 113, 149</a>
Decimal	<a href="#">7565717</a>
CIELab	<a href="#">49.00, 8.91, -19.25</a>
CIELCh	<a href="#">49, 21.209, 294.834</a>
Yxy	<a href="#">17.5941, 0.2751, 0.2635</a>
Android (android.graphics.Color)	<a href="#">4285755797 (0xFF737195)</a>
YUV	<a href="#">117.7020, 15.4299, -2.3697</a>
Hunter-Lab	<a href="#">41.9453, 4.7653, -14.2024</a>

# Details

The CIELCh color `49, 21.209, 294.834` is a dark color, and the websafe version is hex `666699`. A complement of this color would be `61, 20.071, 110.288`, and the grayscale version is `49, 0.007, 296.813`.

A 20% lighter version of the original color is `69, 20.929, 294.140`, and `29, 21.295, 295.067` is the 20% darker color. If you saturate the color by 10%, you get `44, 30.599, 296.153`, and if you desaturate by 10%, it is `54, 12.190, 293.699`.

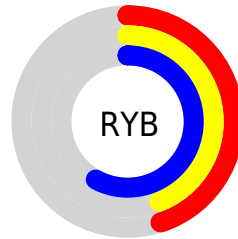
# Distribution



Red (45%)

Green (44%)

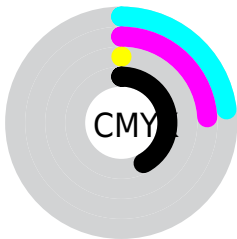
Blue (58%)



Red (45%)

Yellow (44%)

Blue (58%)

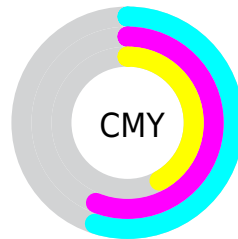


Cyan (23%)

Magenta (24%)

Yellow (0%)

Black (42%)



Cyan (55%)

Magenta (56%)

Yellow (42%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 21.209, 294.834 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, 21.209, 294.834 by changing the saturation by 10% instead.





 49, 21.209,  
294.834


 49, 21.209,  
294.834


 100, 21.209,  
294.834


 39, 21.209,  
294.834

 69, 21.209,  
294.834


 29, 21.209,  
294.834

 79, 21.209,  
294.834

 19, 21.209,  
294.834

 89, 21.209,  
294.834

 9, 21.209, 294.834

 99, 21.209,  
294.834

 0, 21.209, 294.834

 49, 21.209,

 49, 21.209,

294.834

44, 30.599,  
296.153

39, 40.367,  
297.671

33, 50.464,  
299.379

29, 60.726,  
301.225

24, 70.728,  
303.083

20, 79.618,  
304.729

18, 86.139,  
305.879

17, 89.281,  
306.500

294.834

54, 12.190,  
293.699

59, 3.525, 292.734

65, 4.811, 111.886


70, 12.841,  
111.180

75, 20.586,  
110.570

80, 28.066,  
110.046

85, 35.300,  
109.592

90, 42.301,  
109.200

 95, 49.087,  
108.859

# Harmonies

# Complementary

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



49, 21.209, 294.834



61, 20.071, 110.288

# Rectangle

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



49, 21.209, 294.834



49, 21.209, 344.834



49, 21.209, 114.834



49, 21.209, 164.834

# Sweetspot

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



49, 21.208, 294.833



74, 7.366, 293.003



59, 12.374, 203.054



38, 4.776, 293.050



89, 0.011, 296.813



41, 0.006, 296.813





# Same Dimension

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



49, 21.208, 294.833



60, 31.891, 295.524



51, 22.387, 311.857



29, 4.786, 293.198



15, 84.308, 306.520



0, 4.119, 292.361



# Inverse Universe

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



52, 24.038, 327.283



64, 35.715, 327.581



59, 21.755, 129.741



29, 5.561, 326.443



32, 70.048, 330.512



1, 4.836, 325.961



# Previews

## White Background



This preview shows how the CIELCh color 49, 21.209, 294.834 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 CIELCh color 49, 21.209, 294.834 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, 21.209, 294.834

## Background



This preview shows how black text looks on a background with the CIELCh color 49, 21.209, 294.834.



This preview shows how white text looks on a background with the CIELCh color 49, 21.209, 294.834.

# 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, 21.209, 294.834

### Protanopia

49, 20.671, 285.075

### Deuteranopia

49, 20.580, 289.885





**Tritanopia**  
49, 5.725, 267.003

# Trichromacy



**Original Color**  
49, 21.209, 294.834

**Protanomaly**  
49, 21.178, 289.110

**Deuteranomaly**  
49, 20.572, 290.861

**Tritanomaly**  
49, 10.647, 283.448

# Monochromacy



**Original Color**  
49, 21.209, 294.834

**Achromatopsia**  
50, 0.007, 296.813

**Achromatomaly**  
49, 7.651, 294.077

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 21.209, 294.834 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(115, 113, 149)` looks like.

```
.text, #text, p{  
    color:rgb(115, 113, 149)  
}
```

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(115, 113, 149) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(115, 113, 149) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 21.209, 294.834 is called "border". The border property can be set on classes, ids or directly on the HTML element.

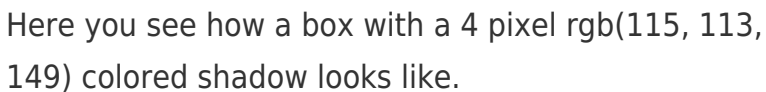
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(115, 113, 149) }
```

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

```
.border{ border-color:rgb(115, 113, 149) }
```

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



Here you see how a box with a 4 pixel `rgb(115, 113, 149)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(115, 113, 149); -webkit-box-shadow:4px 4px 4px 4px rgb(115, 113, 149); box-shadow:4px 4px 4px 4px rgb(115, 113, 149) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 21.209, 294.834 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(115, 113, 149) }
```

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

```
.background{ background-color: rgb(115,  
113, 149) }
```

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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