

# Converting Colors

CIELCh(99, 12.652, 109.221)

Have a look what the booklet for  
CIELCh(99, 12.652, 109.221)  
contains.

<b>CIELCh(99, 12.662, 109.218)</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> .....	21
<i><b>Color Blindness Simulation</b></i> .....	24
<i><b>CSS Examples</b></i> .....	27

# **Color**

**CIElCh(99, 12.662, 109.218)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FEFEE5
RGB	254, 254, 229
RGB Percent	100%, 100%, 90%
CMY	0.0047, 0.0047, 0.1027
CMYK	0.00, 0.00, 0.10, 0.00
HSL	60°, 91%, 95%
HSV	60°, 10%, 100%
XYZ	90.2935, 97.4360, 88.0329
YIQ	251.1500, 8.0250, -7.7750

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>Y</sub>B</b>	229, 254, 229
Decimal	16711397
CIE Lab	99.00, -4.17, 11.96
CIE LCh	99, 12.662, 109.218
Yxy	97.4360, 0.3274, 0.3533
Android (android.graphics.Color)	4294901477 (0xFFFEFEE5)
YUV	251.1500, -10.9199, 2.4995
Hunter-Lab	98.7097, -9.4611, 16.2198

# Details

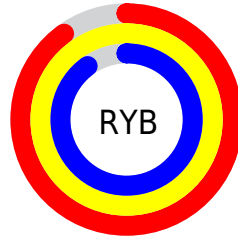
The CIELCh color **99, 12.662, 109.218** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **92, 12.960, 291.221**, and the grayscale version is **99, 0.012, 296.813**.

A 20% lighter version of the original color is **100, 0.012, 296.813**, and **79, 12.216, 109.056** is the 20% darker color. If you saturate the color by 10%, you get **98, 25.448, 108.249**, and if you desaturate by 10%, it is **100, 0.204, 290.578**.

# Distribution



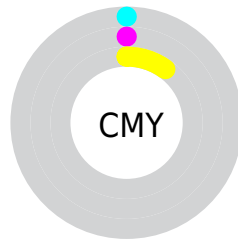
- Red (100%)
- Green (100%)
- Blue (90%)



- Red (90%)
- Yellow (100%)
- Blue (90%)



- Cyan (0%)
- Magenta (0%)
- Yellow (10%)
- Black (0%)




- Cyan (0%)
- Magenta (0%)
- Yellow (10%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 99, 12.662, 109.218 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 99, 12.662, 109.218 by changing the saturation by 10% instead.





 99, 12.662,  
109.218


 99, 12.662,  
109.218


 100, 12.662,  
109.218


 89, 12.662,  
109.218

 79, 12.662,  
109.218

 69, 12.662,  
109.218

 59, 12.662,  
109.218

 49, 12.662,  
109.218

 39, 12.662,  
109.218

 29, 12.662,

109.218

■ 19, 12.662,  
109.218

■ 9, 12.662, 109.218

■ 99, 12.662,  
109.218

■ 99, 12.662,  
109.218

■ 98, 25.448,  
108.249

■ 100, 0.204,  
290.578

■ 98, 38.051,  
107.275

■ 100, 0.618,  
290.536

■ 98, 50.324,  
106.325

■ 100, 0.618,  
290.721

■ 97, 62.035,  
105.423

■ 100, 0.618,  
290.906

■ 97, 72.830, 100, 0.618,  
104.604 291.092

■ 97, 82.209, 100, 0.618,  
103.904 291.277

■ 97, 89.554, 100, 0.618,  
103.367 291.462

■ 97, 94.315, 100, 0.618,  
103.025 291.647

■ 97, 96.540, 100, 0.618,  
102.868 291.832

# Harmonies

# Complementary

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



99, 12.662, 109.218



92, 12.960, 291.221

# Rectangle

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



99, 12.662, 109.218



99, 12.662, 159.218



99, 12.662, 289.218



99, 12.662, 339.218

# Sweetspot

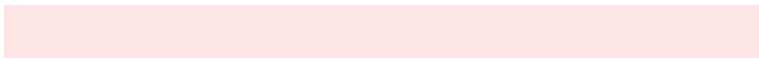
The Sweet Spot groups the original color and five complimentary colors.



99, 12.664, 109.226



100, 3.868, 109.878



93, 9.081, 19.971



53, 2.934, 109.805



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



99, 12.664, 109.226



99, 15.481, 109.017



98, 13.502, 128.639



53, 7.338, 109.260



75, 78.056, 102.866



26, 35.525, 103.006



# Inverse Universe

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



92, 12.960, 291.221



90, 15.916, 291.468



92, 13.695, 309.504



49, 7.504, 291.182



23, 107.780, 306.288

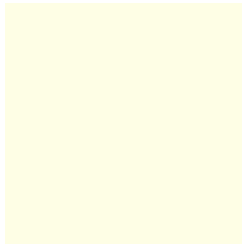


3, 44.127, 301.763



# Previews

## White Background



This preview shows how the CIE LCh color 99, 12.662, 109.218 looks on a white background.

## Color Contrast Check

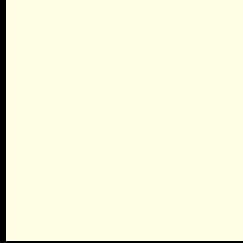
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIELCh color 99, 12.662, 109.218 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

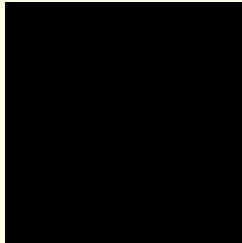
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 99, 12.662, 109.218

## Background



This preview shows how black text looks on a background with the CIELCh color 99, 12.662, 109.218.

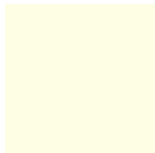


This preview shows how white text looks on a background with the CIELCh color 99, 12.662, 109.218.

# 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

99, 12.662, 109.218



### Protanopia

99, 3.207, 90.598

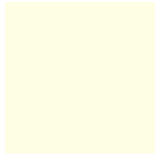
### Deuteranopia

99, 1.487, 38.999



**Tritanopia**  
99, 2.171, 309.072

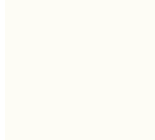
# Trichromacy



**Original Color**  
99, 12.662, 109.218



**Protanomaly**  
99, 6.620, 103.477

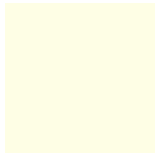


**Deuteranomaly**  
99, 5.171, 97.859

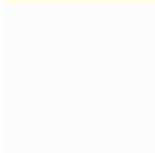


**Tritanomaly**  
99, 3.560, 104.186

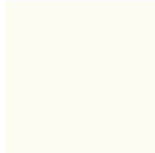
# Monochromacy



**Original Color**  
99, 12.662, 109.218



**Achromatopsia**  
99, 0.012, 296.813



**Achromatomaly**  
99, 4.563, 109.817

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 99, 12.662, 109.218 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(254, 254, 229)` looks like.

```
.text, #text, p{  
    color:rgb(254, 254, 229)  
}
```

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(254, 254, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(254, 254, 229) }
```

## Border

The CSS property to change the border of an element to CIELCh 99, 12.662, 109.218 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(254, 254, 229) }
```

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

```
.border{ border-color:rgb(254, 254, 229) }
```

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

Here you see how a box with a 4 pixel `rgb(254, 254, 229)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(254, 254, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(254, 254, 229);  
box-shadow:4px 4px 4px 4px rgb(254, 254,  
229) }
```

# Background

The CSS property to change the background color of an element to CIELCh 99, 12.662, 109.218 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(254, 254, 229) }
```

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

```
.background{ background-color: rgb(254,  
254, 229) }
```

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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