

# Converting Colors

CIELCh(100, 12.686, 108.066)

Have a look what the booklet for  
CIELCh(100, 12.686, 108.066)  
contains.

<b>CIELCh(99, 12.147, 109.259)</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(99, 12.147, 109.259)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FEFEE6
RGB	254, 254, 230
RGB Percent	100%, 100%, 90%
CMY	0.0050, 0.0049, 0.0990
CMYK	0.00, 0.00, 0.09, 0.00
HSL	60°, 91%, 95%
HSV	60°, 9%, 100%
XYZ	90.3825, 97.4360, 88.7281
YIQ	251.2640, 7.7040, -7.4640

# Conversions

## Conversions Part 2

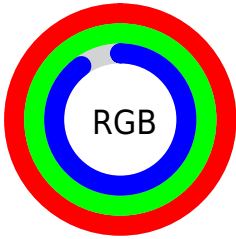
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	230, 254, 230
Decimal	16711398
CIE Lab	99.00, -4.01, 11.47
CIE LCh	99, 12.147, 109.259
Yxy	97.4360, 0.3268, 0.3523
Android (android.graphics.Color)	4294901478 (0xFFFEFEE6)
YUV	251.2640, -10.4832, 2.3995
Hunter-Lab	98.7097, -9.3003, 15.8022

# Details

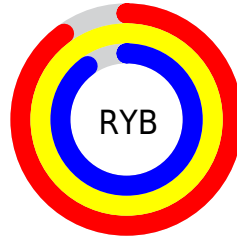
The CIELCh color **99, 12.147, 109.259** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **92, 12.423, 291.178**, and the grayscale version is **99, 0.012, 296.813**.

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, 24.935, 108.291**, and if you desaturate by 10%, it is **100, 0.651, 290.356**.

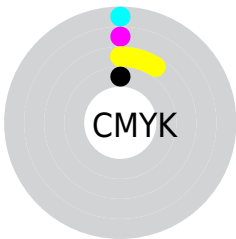
# Distribution



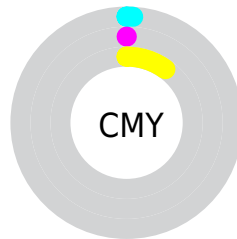
- Red (100%)
- Green (100%)
- Blue (90%)



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



- Cyan (0%)
- Magenta (0%)
- Yellow (9%)
- Black (0%)




- Cyan (1%)
- Magenta (0%)
- Yellow (10%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 99, 12.147, 109.259 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, 12.147, 109.259 by changing the saturation by 10% instead.





 99, 12.147,  
109.259


 99, 12.147,  
109.259


 100, 12.147,  
109.259


 89, 12.147,  
109.259


 79, 12.147,  
109.259

 69, 12.147,  
109.259

 59, 12.147,  
109.259

 49, 12.147,  
109.259

 39, 12.147,  
109.259

 29, 12.147,

109.259

■ 19, 12.147,  
109.259

■ 9, 12.147, 109.259

■ 99, 12.147,  
109.259

■ 99, 12.147,  
109.259

■ 98, 24.935,  
108.291

■ 100, 0.651,  
290.356

■ 98, 37.545,  
107.317

■ 100, 0.651,  
290.581

■ 98, 49.833,  
106.365

■ 100, 0.651,  
290.805

■ 97, 61.570,  
105.461

■ 100, 0.651,  
291.030

■ 97, 72.408,  
104.637

100, 0.651,  
291.254

■ 97, 81.853,  
103.933

100, 0.651,  
291.479

■ 97, 89.289,  
103.389

100, 0.651,  
291.703

■ 97, 94.159,  
103.039

100, 0.651,  
291.927

■ 97, 96.452,  
102.877

100, 0.651,  
292.151

# Harmonies

# Complementary

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



99, 12.147, 109.259



92, 12.423, 291.178

# Rectangle

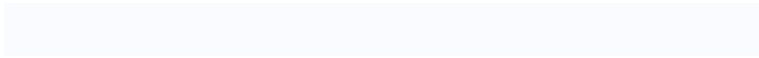
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



99, 12.147, 109.259



99, 12.147, 159.259



99, 12.147, 289.259



99, 12.147, 339.259

# Sweetspot

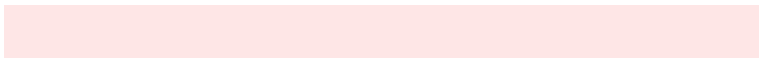
The Sweet Spot groups the original color and five complimentary colors.



99, 12.149, 109.268



100, 3.868, 109.881



93, 8.697, 19.939



53, 2.934, 109.807



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, 12.149, 109.268



99, 14.193, 109.117



98, 12.951, 128.658



53, 7.338, 109.262



75, 78.056, 102.870



26, 35.525, 103.009



# Inverse Universe

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



92, 12.423, 291.178



91, 14.561, 291.354



93, 13.130, 309.485



49, 7.504, 291.184



23, 107.780, 306.288

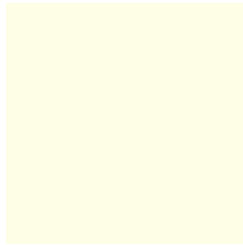


3, 44.128, 301.764



# Previews

## White Background



This preview shows how the CIE LCh color 99, 12.147, 109.259 looks on a white background.

## Color Contrast Check

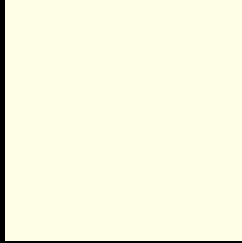
Large Text (above 18pt) WCAG AA × Fail

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, 12.147, 109.259 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

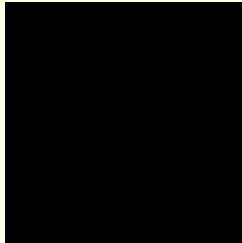
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 99, 12.147, 109.259

## Background



This preview shows how black text looks on a background with the CIELCh color 99, 12.147, 109.259.



This preview shows how white text looks on a background with the CIELCh color 99, 12.147, 109.259.

# 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, 12.156, 109.256



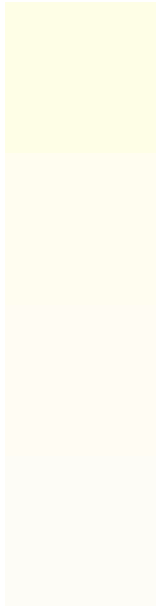
**Protanopia**  
99, 3.207, 90.598

**Deuteranopia**  
99, 1.487, 38.999



**Tritanopia**  
99, 2.171, 309.072

# Trichromacy



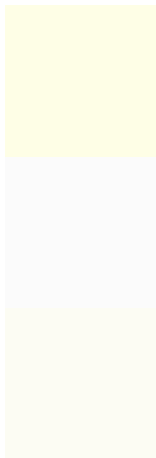
**Original Color**  
99, 12.156, 109.256

**Protanomaly**  
99, 6.620, 103.477

**Deuteranomaly**  
99, 4.674, 96.630

**Tritanomaly**  
99, 3.055, 103.284

# Monochromacy



**Original Color**  
99, 12.156, 109.256

**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, 12.147, 109.259 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, 230)` looks like.

```
.text, #text, p{  
    color:rgb(254, 254, 230)  
}
```

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, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(254, 254, 230) }
```

## Border

The CSS property to change the border of an element to CIELCh 99, 12.147, 109.259 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, 230) }
```

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

```
.border{ border-color:rgb(254, 254, 230) }
```

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, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(254, 254, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(254, 254, 230);  
box-shadow:4px 4px 4px 4px rgb(254, 254,  
230) }
```

# Background

The CSS property to change the background color of an element to CIELCh 99, 12.147, 109.259 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, 230) }
```

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

```
.background{ background-color: rgb(254,  
254, 230) }
```

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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