

# Converting Colors

CIELCh(100, 7.825, 73.121)

Have a look what the booklet for  
CIELCh(100, 7.825, 73.121) contains.

<b>CIELCh(99, 6.116, 103.012)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	20
<i><b>Color Blindness Simulation</b></i> .....	23
<i><b>CSS Examples</b></i> .....	26

# **Color**

**CIElCh(99, 6.116, 103.012)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFDF1
RGB	255, 253, 241
RGB Percent	100%, 99%, 95%
CMY	0.0019, 0.0097, 0.0568
CMYK	0.00, 0.01, 0.05, 0.00
HSL	51°, 94%, 97%
HSV	51°, 5%, 100%
XYZ	91.8403, 97.4360, 96.8105
YIQ	252.2300, 5.0440, -3.3080

# Conversions

## Conversions Part 2

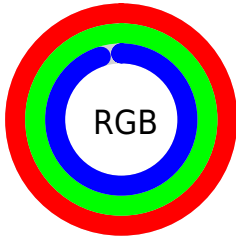
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	243, 255, 241
Decimal	16776689
CIE Lab	99.00, -1.38, 5.96
CIE LCh	99, 6.116, 103.012
Yxy	97.4360, 0.3210, 0.3406
Android (android.graphics.Color)	4294966769 (0xFFFFFDF1)
YUV	252.2300, -5.5364, 2.4293
Hunter-Lab	98.7097, -6.6640, 10.9475

# Details

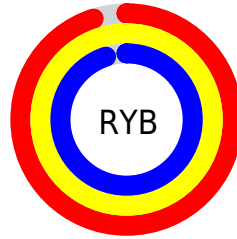
The CIELCh color 99, 6.116, 103.012 is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be 96, 6.187, 284.289, and the grayscale version is 99, 0.012, 296.813.

A 20% lighter version of the original color is 100, 0.012, 296.813, and 79, 5.890, 102.311 is the 20% darker color. If you saturate the color by 10%, you get 98, 17.296, 101.938, and if you desaturate by 10%, it is 100, 0.167, 203.356.

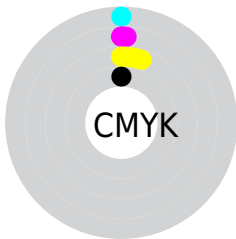
# Distribution



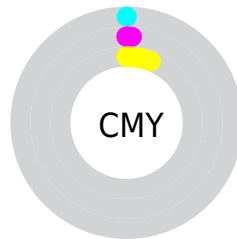
- Red (100%)
- Green (99%)
- Blue (95%)



- Red (95%)
- Yellow (100%)
- Blue (95%)



- Cyan (0%)
- Magenta (1%)
- Yellow (5%)
- Black (0%)




- Cyan (0%)
- Magenta (1%)
- Yellow (6%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 99, 6.116, 103.012 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, 6.116, 103.012 by changing the saturation by 10% instead.




 99, 6.116, 103.012

 99, 6.116, 103.012

 100, 6.116,  
103.012

 89, 6.116, 103.012

 79, 6.116, 103.012

 69, 6.116, 103.012

 59, 6.116, 103.012

 49, 6.116, 103.012

 39, 6.116, 103.012

 29, 6.116, 103.012

 19, 6.116, 103.012

 9, 6.116, 103.012

99, 6.116, 103.012

99, 6.116, 103.012

98, 17.296,  
101.938

100, 0.167,  
203.356

96, 28.469,  
100.808

95, 39.554, 99.660

94, 50.407, 98.507

92, 60.784, 97.361

91, 70.290, 96.235

90, 78.332, 95.134

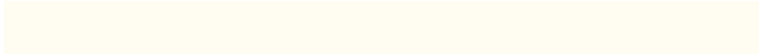
89, 84.156, 94.053

88, 87.128, 92.962

# Harmonies

# Complementary

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



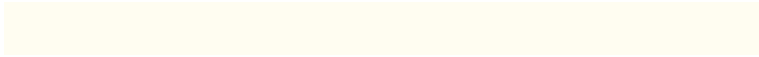
99, 6.116, 103.012



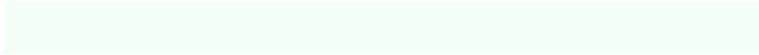
96, 6.187, 284.289

# Rectangle

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



99, 6.116, 103.012



99, 6.116, 153.012



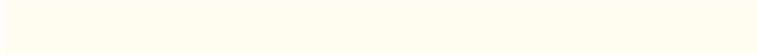
99, 6.116, 283.012



99, 6.116, 333.012

# Sweetspot

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



99, 6.118, 103.030



100, 2.220, 103.366



96, 5.102, 7.498



53, 1.262, 103.373



0, 0.000, 0.000

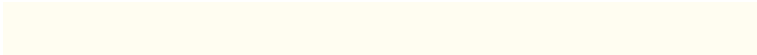


53, 0.007, 296.813

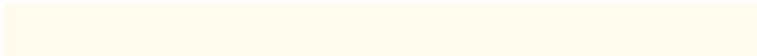


# Same Dimension

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



99, 6.118, 103.030



99, 7.806, 102.871



99, 7.320, 123.388



53, 5.074, 102.806



68, 70.872, 92.661



23, 31.790, 94.170





# Inverse Universe

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



96, 6.187, 284.289



95, 7.905, 284.462



96, 7.410, 303.952



50, 5.141, 284.533



25, 99.766, 304.115

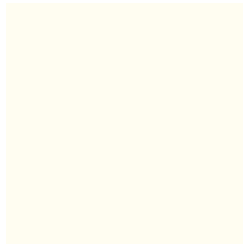


5, 39.592, 299.058



# Previews

## White Background



This preview shows how the CIE LCh color 99, 6.116, 103.012 looks on a white background.

## Color Contrast Check

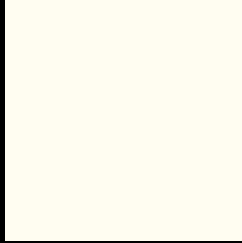
Large Text (above 18pt) WCAG AA × Fail

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, 6.116, 103.012 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

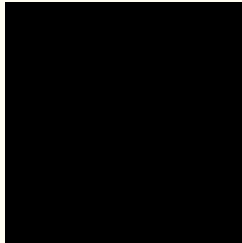
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 99, 6.116, 103.012

## Background



This preview shows how black text looks on a background with the CIELCh color 99, 6.116, 103.012.



This preview shows how white text looks on a background with the CIELCh color 99, 6.116, 103.012.

# 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, 6.116, 103.012

**Protanopia**  
99, 2.732, 87.135

**Deuteranopia**  
99, 1.406, 19.030

**Tritanopia**  
99, 2.171, 309.072



# Trichromacy

**Original Color**  
99, 6.116, 103.012

**Protanomaly**  
99, 3.691, 93.151

**Deuteranomaly**  
99, 2.732, 87.135

**Tritanomaly**  
99, 1.220, 74.868

# Monochromacy

**Original Color**  
99, 6.116, 103.012

**Achromatopsia**  
99, 0.012, 296.813

**Achromatomaly**  
99, 2.048, 100.089

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 99, 6.116, 103.012 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(255, 253, 241)` looks like.

```
.text, #text, p{  
    color:rgb(255, 253, 241)  
}
```

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(255, 253, 241) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 253, 241) }
```

## Border

The CSS property to change the border of an element to CIELCh 99, 6.116, 103.012 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(255, 253, 241) }
```

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

```
.border{ border-color:rgb(255, 253, 241) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 253, 241)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 253, 241); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 253, 241);  
box-shadow:4px 4px 4px 4px rgb(255, 253,  
241) }
```

# Background

The CSS property to change the background color of an element to CIELCh 99, 6.116, 103.012 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 253, 241) }
```

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

```
.background{ background-color: rgb(255,  
253, 241) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor