

# Converting Colors

CIELCh(100, 7.767, 21.004)

Have a look what the booklet for  
CIELCh(100, 7.767, 21.004) contains.

<b>CIELCh(99, 1.759, 19.148)</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> .....	19
<i><b>Color Blindness Simulation</b></i> .....	22
<i><b>CSS Examples</b></i> .....	25

# **Color**

**CIELCh(99, 1.759, 19.148)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFBFB
RGB	255, 251, 251
RGB Percent	100%, 98%, 98%
CMY	0.0000, 0.0155, 0.0156
CMYK	0.00, 0.02, 0.02, 0.00
HSL	0°, 100%, 99%
HSV	0°, 2%, 100%
XYZ	93.5445, 97.4360, 105.1678
YIQ	252.1960, 2.3840, 0.8480

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 251, 251
Decimal	16776187
CIE Lab	99.00, 1.66, 0.58
CIE LCh	99, 1.759, 19.148
Yxy	97.4360, 0.3159, 0.3290
Android (android.graphics.Color)	4294966267 (0xFFFFBFBF)
YUV	252.1960, -0.5896, 2.4591
Hunter-Lab	98.7097, -3.5823, 5.9277

# Details

The CIELCh color 99, 1.759, 19.148 is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be 100, 1.377, 199.892, 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, 1.105, 19.002 is the 20% darker color. If you saturate the color by 10%, you get 92, 10.755, 20.197, and if you desaturate by 10%, it is 100, 0.012, 296.813.

# Distribution



Red (100%)

Green (98%)

Blue (98%)



Red (100%)

Yellow (98%)

Blue (98%)



Cyan (0%)

Magenta (2%)

Yellow (2%)

Black (0%)



Cyan (0%)

Magenta (2%)

Yellow (2%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 99, 1.759, 19.148 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, 1.759, 19.148 by changing the saturation by 10% instead.



 99, 1.759, 19.148

 99, 1.759, 19.148

 100, 1.759, 19.148

 89, 1.759, 19.148

 79, 1.759, 19.148

 69, 1.759, 19.148

 59, 1.759, 19.148

 49, 1.759, 19.148

 39, 1.759, 19.148

 29, 1.759, 19.148

 19, 1.759, 19.148

 9, 1.759, 19.148

99, 1.759, 19.148

99, 1.759, 19.148

92, 10.755, 20.197

100, 0.012,  
296.813

85, 20.874, 21.088

79, 31.747, 22.225

73, 43.302, 23.709

67, 55.362, 25.653

62, 67.628, 28.165

58, 79.672, 31.294

56, 90.859, 34.867

54, 99.888, 38.181

# Harmonies

# Complementary

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



99, 1.759, 19.148



100, 1.377, 199.892

# Rectangle

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



99, 1.759, 19.148



99, 1.759, 69.148



99, 1.759, 199.148



99, 1.759, 249.148

# Sweetspot

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



99, 1.393, 19.117

100, 0.012, 296.813



99, 2.473, 324.403



53, 0.007, 296.813



0, 0.000, 0.000

# Same Dimension

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



99, 1.393, 19.117



99, 1.793, 19.249



99, 1.210, 74.866



53, 1.019, 19.224



40, 84.214, 40.011



10, 33.344, 27.230





# Inverse Universe

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



100, 1.377, 199.892



100, 1.768, 199.761



99, 1.222, 255.970



53, 1.005, 199.786



70, 40.300, 196.557



24, 18.544, 196.536



# Previews

## White Background



This preview shows how the CIE LCh color 99, 1.759, 19.148 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 CIE LCh color 99, 1.759, 19.148 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

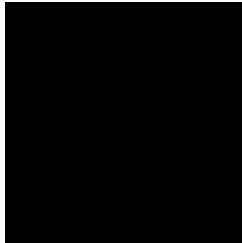
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 99, 1.759, 19.148

## Background



This preview shows how black text looks on a background with the CIELCh color 99, 1.759, 19.148.



This preview shows how white text looks on a background with the CIELCh color 99, 1.759, 19.148.

# 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, 1.406, 19.030

### Protanopia

99, 1.406, 19.030

### Deuteranopia

99, 1.502, 359.268

**Tritanopia**  
99, 2.171, 309.072

# Trichromacy

## Original Color

99, 1.406, 19.030

## Protanomaly

99, 1.406, 19.030

## Deuteranomaly

99, 1.502, 359.268

## Tritanomaly

99, 1.872, 324.343

# Monochromacy

## Original Color

99, 1.406, 19.030

## Achromatopsia

99, 0.012, 296.813

## Achromatomaly

99, 0.352, 17.560



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 99, 1.759, 19.148 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, 251, 251)` looks like.

```
.text, #text, p{  
    color:rgb(255, 251, 251)  
}
```

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, 251, 251) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 251, 251) }
```

## Border

The CSS property to change the border of an element to CIELCh 99, 1.759, 19.148 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, 251, 251) }
```

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

```
.border{ border-color:rgb(255, 251, 251) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 251, 251)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 251, 251); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 251, 251);  
box-shadow:4px 4px 4px 4px rgb(255, 251,  
251) }
```

# Background

The CSS property to change the background color of an element to CIELCh 99, 1.759, 19.148 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 251, 251) }
```

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

```
.background{ background-color: rgb(255,  
251, 251) }
```

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