

# Converting Colors

CIELCh(99, 4.131, 39.187)

Have a look what the booklet for  
CIELCh(99, 4.131, 39.187) contains.

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# **Color**

**CIELCh(99, 2.316, 60.313)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFBF8
RGB	255, 251, 248
RGB Percent	100%, 98%, 97%
CMY	0.0000, 0.0147, 0.0265
CMYK	0.00, 0.01, 0.03, 0.00
HSL	27°, 100%, 99%
HSV	27°, 3%, 100%
XYZ	93.2544, 97.4360, 102.8942
YIQ	251.8540, 3.3470, -0.0850

# Conversions

## Conversions Part 2

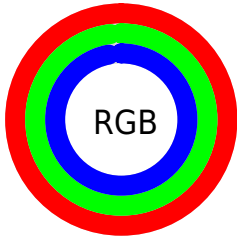
Format	Color
R <sub>Y</sub> B	255, 253, 248
Decimal	16776184
CIE Lab	99.00, 1.15, 2.01
CIE LCh	99, 2.316, 60.313
Yxy	97.4360, 0.3176, 0.3319
Android (android.graphics.Color)	4294966264 (0xFFFFBF8)
YUV	251.8540, -1.9000, 2.7590
Hunter-Lab	98.7097, -4.1069, 7.2933

# Details

The CIELCh color 99, 2.316, 60.313 is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be 99, 2.000, 249.788, 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, 1.931, 74.867 is the 20% darker color. If you saturate the color by 10%, you get 95, 9.853, 67.745, and if you desaturate by 10%, it is 100, 0.012, 296.813.

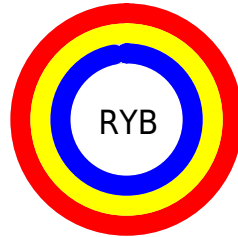
# Distribution



Red (100%)

Green (98%)

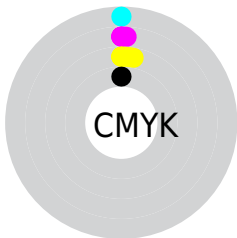
Blue (97%)



Red (100%)

Yellow (99%)

Blue (97%)

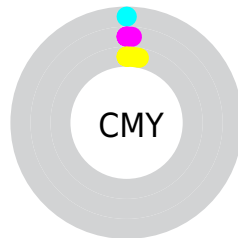


Cyan (0%)

Magenta (1%)

Yellow (3%)

Black (0%)



Cyan (0%)

Magenta (1%)

Yellow (3%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 99, 2.316, 60.313 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, 2.316, 60.313 by changing the saturation by 10% instead.



 99, 2.316, 60.313

 99, 2.316, 60.313

 100, 2.316, 60.313

 89, 2.316, 60.313

 79, 2.316, 60.313

 69, 2.316, 60.313

 59, 2.316, 60.313

 49, 2.316, 60.313

 39, 2.316, 60.313

 29, 2.316, 60.313

 19, 2.316, 60.313

 9, 2.316, 60.313

99, 2.316, 60.313

99, 2.316, 60.313

95, 9.853, 67.745

100, 0.012,  
296.813

91, 18.152, 66.623

87, 26.935, 65.494

83, 36.220, 64.377

79, 45.977, 63.271

76, 56.091, 62.156

72, 66.264, 60.959

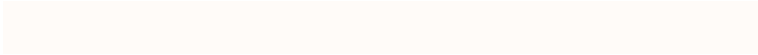
69, 75.853, 59.510

66, 83.695, 57.464

# Harmonies

# Complementary

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



99, 2.316, 60.313



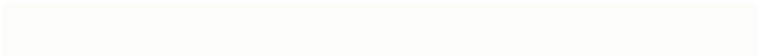
99, 2.000, 249.788

# Rectangle

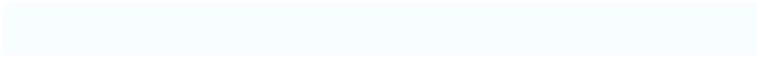
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



99, 2.316, 60.313



99, 2.316, 110.313



99, 2.316, 240.313



99, 2.316, 290.313

# Sweetspot

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



99, 2.003, 68.691



100, 0.748, 68.465



98, 3.094, 340.283



53, 0.425, 68.436



0, 0.000, 0.000



53, 0.007, 296.813

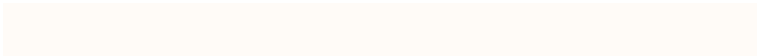


# Same Dimension

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



99, 2.003, 68.691



99, 2.270, 68.680



100, 3.191, 107.062



52, 1.726, 68.636



49, 70.458, 56.192



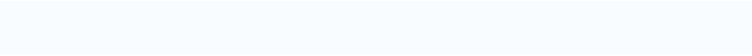
15, 27.165, 56.423



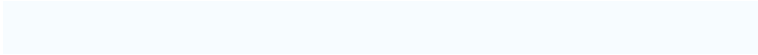


# Inverse Universe

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



99, 2.000, 249.788



99, 2.263, 249.801



98, 3.229, 287.672



52, 1.713, 249.851



44, 52.132, 278.244



13, 21.503, 271.289



# Previews

## White Background



This preview shows how the CIE LCh color 99, 2.316, 60.313 looks on a white background.

## Color Contrast Check

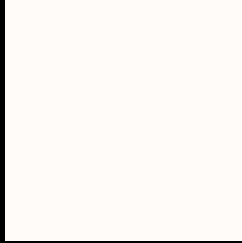
Large Text (above 18pt) WCAG AA × Fail

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, 2.316, 60.313 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

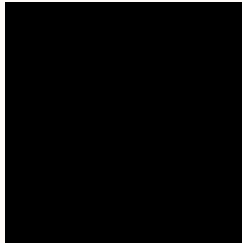
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 99, 2.316, 60.313

## Background



This preview shows how black text looks on a background with the CIELCh color 99, 2.316, 60.313.



This preview shows how white text looks on a background with the CIELCh color 99, 2.316, 60.313.

# 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, 2.059, 66.765

### Protanopia

99, 1.723, 55.170

### Deuteranopia

99, 1.502, 359.268

**Tritanopia**  
99, 2.171, 309.072



# Trichromacy

A vertical rectangular color swatch with a light orange-to-white gradient, used as a background for the Trichromacy section.

## Original Color

99, 2.059, 66.765

## Protanomaly

99, 1.723, 55.170

## Deuteranomaly

99, 1.406, 19.030

## Tritanomaly

99, 1.480, 335.467

# Monochromacy

A vertical rectangular color swatch with a light blue-to-white gradient, used as a background for the Monochromacy section.

## Original Color

99, 2.059, 66.765

## Achromatopsia

99, 0.012, 296.813

## Achromatomaly

99, 0.605, 74.599

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 99, 2.316, 60.313 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, 248)` looks like.

```
.text, #text, p{  
    color:rgb(255, 251, 248)  
}
```

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, 248) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 251, 248) }
```

## Border

The CSS property to change the border of an element to CIELCh 99, 2.316, 60.313 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, 248) }
```

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

```
.border{ border-color:rgb(255, 251, 248) }
```

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, 248) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 251, 248); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 251, 248);  
box-shadow:4px 4px 4px 4px rgb(255, 251,  
248) }
```

# Background

The CSS property to change the background color of an element to CIE LCh 99, 2.316, 60.313 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, 248) }
```

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

```
.background{ background-color: rgb(255,  
251, 248) }
```

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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