

# Converting Colors

CIELCh(100, 3.835, 65.156)

Have a look what the booklet for  
CIELCh(100, 3.835, 65.156) contains.

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# Color

**CIElCh(100, 3.050, 103.285)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFFF9
RGB	255, 255, 249
RGB Percent	100%, 100%, 98%
CMY	0.0000, 0.0000, 0.0227
CMYK	0.00, 0.00, 0.02, 0.00
HSL	60°, 100%, 99%
HSV	60°, 2%, 100%
XYZ	94.6479, 100.0000, 104.1065
YIQ	254.3160, 1.9260, -1.8660

# Conversions

## Conversions Part 2

Format	Color
RYB	249, 255, 249
Decimal	16777209
CIELab	100.00, -0.70, 2.97
CIElCh	100, 3.050, 103.285
Yxy	100.0000, 0.3168, 0.3347
Android (android.graphics.Color)	4294967289 (0xFFFFFFFF9)
YUV	254.3160, -2.6208, 0.5999
Hunter-Lab	100.0000, -6.0536, 8.2753

# Details

The CIELCh color 100, 3.050, 103.285 is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be 98, 2.962, 290.426, and the grayscale version is 100, 0.012, 296.813.

A 20% lighter version of the original color is 100, 0.012, 296.813, and 80, 2.650, 109.914 is the 20% darker color. If you saturate the color by 10%, you get 99, 15.829, 108.981, and if you desaturate by 10%, it is 100, 0.012, 296.813.

# Distribution



- Red (100%)
- Green (100%)
- Blue (98%)



- Red (98%)
- Yellow (100%)
- Blue (98%)



- Cyan (0%)
- Magenta (0%)
- Yellow (2%)
- Black (0%)



- Cyan (0%)
- Magenta (0%)
- Yellow (2%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 100, 3.050, 103.285 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 100, 3.050, 103.285 by changing the saturation by 10% instead.



100, 3.050,  
103.285

100, 3.050,  
103.285

90, 3.050, 103.285

99, 15.829,  
108.981

80, 3.050, 103.285

99, 28.627,  
108.002

70, 3.050, 103.285

60, 3.050, 103.285

98, 41.214,  
107.031

50, 3.050, 103.285

98, 53.423,  
106.090

40, 3.050, 103.285

30, 3.050, 103.285

98, 64.993,  
105.204

20, 3.050, 103.285

97, 75.535,  
104.409

10, 3.050, 103.285

97, 84.511,

103.745

■ 97, 91.293,  
103.253

■ 97, 95.394,  
102.959

■ 100, 3.050,  
103.285

■ 100, 0.012,  
296.813

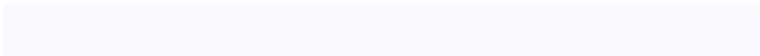
# Harmonies

# Complementary

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



100, 3.050, 103.285



98, 2.962, 290.426

# Rectangle

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



100, 3.050, 103.285



100, 3.050, 153.285



100, 3.050, 283.285



100, 3.050, 333.285

# Sweetspot

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



100, 2.925, 109.933



100, 1.282, 110.022



98, 2.039, 19.219



53, 0.729, 110.023



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



100, 2.925, 109.933



100, 3.868, 109.869



100, 3.110, 129.015



53, 2.934, 109.796



75, 78.056, 102.852



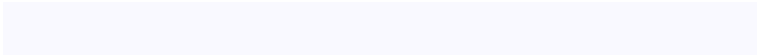
26, 35.525, 102.993





# Inverse Universe

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



98, 2.962, 290.426



98, 3.916, 290.493



98, 3.141, 309.123



52, 2.971, 290.570



23, 107.781, 306.287



3, 44.127, 301.758



# Previews

## White Background



This preview shows how the CIE LCh color 100 3.050 103.285 looks on a white background.

## Color Contrast Check

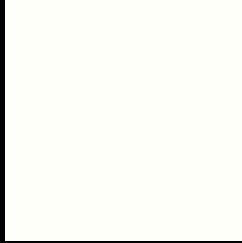
Large Text (above 18pt) WCAG AA × Fail

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 100, 3.050, 103.285 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

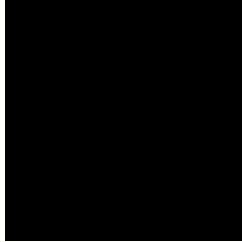
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 100, 3.050, 103.285

## Background



This preview shows how black text looks on a background with the CIELCh color 100, 3.050, 103.285.



# 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

100, 3.032, 109.926

### Protanopia

100, 0.496, 109.985

### Deuteranopia

100, 0.630, 323.973

**Tritanopia**  
100, 0.012, 296.813



# Trichromacy

## Original Color

100, 3.032, 109.926

## Protanomaly

100, 1.510, 110.014

## Deuteranomaly

100, 0.604, 74.594

## Tritanomaly

100, 1.003, 110.026

# Monochromacy

## Original Color

100, 3.032, 109.926

## Achromatopsia

100, 0.012, 296.813

## Achromatomaly

100, 1.004, 110.026

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 100, 3.050, 103.285 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text is colored using the color property.

```
.text, #text, p{  
    color:rgb(255, 255, 249)  
}
```

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, 255, 249) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 249) }
```

## Border

The CSS property to change the border of an element to CIELCh 100, 3.050, 103.285 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, 255, 249) }
```

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

```
.border{ border-color:rgb(255, 255, 249) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 255, 249)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 255, 249); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 255, 249);  
box-shadow:4px 4px 4px 4px rgb(255, 255,  
249) }
```

# Background

The CSS property to change the background color of an element to CIELCh 100, 3.050, 103.285 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 255, 249) }
```

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

```
.background{ background-color: rgb(255,  
255, 249) }
```

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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