

# Converting Colors

CIELCh(100, 10.618, 62.686)

Have a look what the booklet for  
CIELCh(100, 10.618, 62.686)  
contains.

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# **Color**

**CIELCh(99, 7.237, 98.190)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFCEE
RGB	255, 252, 238
RGB Percent	100%, 99%, 93%
CMY	0.0000, 0.0109, 0.0659
CMYK	0.00, 0.01, 0.07, 0.00
HSL	50°, 100%, 97%
HSV	50°, 7%, 100%
XYZ	92.0334, 97.4360, 95.0033
YIQ	251.3010, 6.2820, -3.7180

# Conversions

## Conversions Part 2

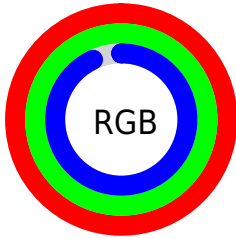
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	242, 255, 238
Decimal	16776430
CIE Lab	99.00, -1.03, 7.16
CIE LCh	99, 7.237, 98.190
Yxy	97.4360, 0.3235, 0.3425
Android (android.graphics.Color)	4294966510 (0xFFFFFCEE)
YUV	251.3010, -6.5574, 3.2440
Hunter-Lab	98.7097, -6.3149, 12.0330

# Details

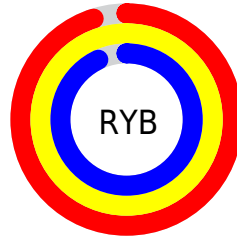
The CIELCh color 99, 7.237, 98.190 is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be 95, 7.249, 283.192, and the grayscale version is 99, 0.012, 296.813.

A 20% lighter version of the original color is 100, 0.012, 296.813, and 79, 7.002, 100.224 is the 20% darker color. If you saturate the color by 10%, you get 97, 18.116, 100.542, and if you desaturate by 10%, it is 100, 0.012, 296.813.

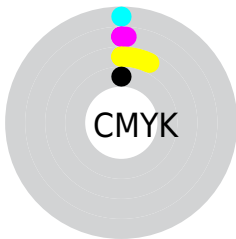
# Distribution



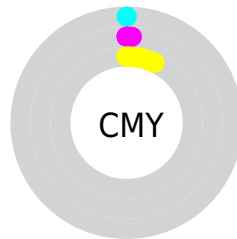
- Red (100%)
- Green (99%)
- Blue (93%)



- Red (95%)
- Yellow (100%)
- Blue (93%)



- Cyan (0%)
- Magenta (1%)
- Yellow (7%)
- Black (0%)



- Cyan (0%)
- Magenta (1%)
- Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 99, 7.237, 98.190 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, 7.237, 98.190 by changing the saturation by 10% instead.



 99, 7.237, 98.190

 99, 7.237, 98.190

 100, 7.237, 98.190

 89, 7.237, 98.190

 79, 7.237, 98.190

 69, 7.237, 98.190

 59, 7.237, 98.190

 49, 7.237, 98.190

 39, 7.237, 98.190

 29, 7.237, 98.190

 19, 7.237, 98.190

 9, 7.237, 98.190

99, 7.237, 98.190

99, 7.237, 98.190

97, 18.116,  
100.542

100, 0.012,  
296.813

96, 29.074, 99.383

94, 39.961, 98.202

93, 50.631, 97.011

92, 60.837, 95.820

90, 70.173, 94.634

89, 78.023, 93.453

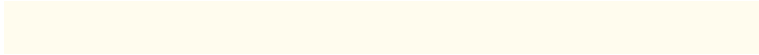
88, 83.607, 92.256

87, 86.292, 90.997

# Harmonies

# Complementary

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



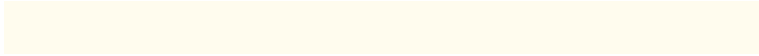
99, 7.237, 98.190



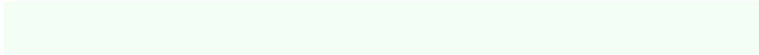
95, 7.249, 283.192

# Rectangle

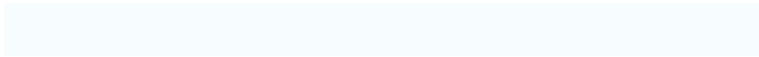
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



99, 7.237, 98.190



99, 7.237, 148.190



99, 7.237, 278.190



99, 7.237, 328.190

# Sweetspot

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



99, 7.169, 101.662



100, 2.166, 102.117



96, 6.170, 6.320



53, 1.231, 102.124



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, 7.169, 101.662



99, 8.714, 101.507



99, 8.758, 122.700



52, 6.197, 101.341



67, 69.989, 90.794



22, 31.250, 92.528





# Inverse Universe

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



95, 7.249, 283.192



94, 8.823, 283.361



95, 8.880, 303.407



49, 6.284, 283.546



26, 97.803, 303.536



5, 38.864, 298.538



# Previews

## White Background



This preview shows how the CIE LCh color 99, 7.237, 98.190 looks on a white background.

## Color Contrast Check

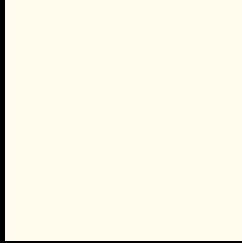
Large Text (above 18pt) WCAG AA × Fail

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, 7.237, 98.190 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

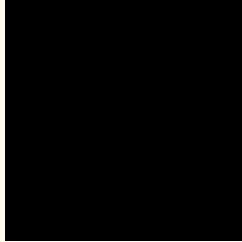
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 99, 7.237, 98.190**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 99, 7.237, 98.190.



This preview shows how white text looks on a background with the CIELCh color 99, 7.237, 98.190.

# 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

A vertical bar on the left side of the page is divided into three colored sections: a yellow top section, a light orange middle section, and a light pink bottom section. These sections correspond to the 'Original Color', 'Protanopia', and 'Deuteranopia' labels respectively.

### Original Color

99, 7.172, 101.013

### Protanopia

99, 2.888, 80.608

### Deuteranopia

99, 1.406, 19.030

**Tritanopia**  
99, 2.171, 309.072



# Trichromacy

**Original Color**  
99, 7.172, 101.013

**Protanomaly**  
99, 4.285, 90.474

**Deuteranomaly**  
99, 2.888, 80.608

**Tritanomaly**  
99, 1.450, 63.329

# Monochromacy

**Original Color**  
99, 7.172, 101.013

**Achromatopsia**  
99, 0.012, 296.813

**Achromatomaly**  
99, 2.553, 102.008

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 99, 7.237, 98.190 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, 252, 238)` looks like.

```
.text, #text, p{  
    color:rgb(255, 252, 238)  
}
```

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, 252, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 252, 238) }
```

## Border

The CSS property to change the border of an element to CIELCh 99, 7.237, 98.190 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, 252, 238) }
```

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

```
.border{ border-color:rgb(255, 252, 238) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 252, 238)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 252, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 252, 238);  
box-shadow:4px 4px 4px 4px rgb(255, 252,  
238) }
```

# Background

The CSS property to change the background color of an element to CIELCh 99, 7.237, 98.190 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 252, 238) }
```

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

```
.background{ background-color: rgb(255,  
252, 238) }
```

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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