

# Converting Colors

CIELCh(100, 7.300, 190.495)

Have a look what the booklet for  
CIELCh(100, 7.300, 190.495)  
contains.

<b>CIELCh(99, 5.840, 199.149)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# **Color**

**CIELCh(99, 5.840, 199.149)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFFFF
RGB	239, 255, 255
RGB Percent	94%, 100%, 100%
CMY	0.0644, 0.0000, 0.0000
CMYK	0.06, 0.00, 0.00, 0.00
HSL	180°, 100%, 97%
HSV	180°, 6%, 100%
XYZ	89.5521, 97.4360, 109.1961
YIQ	250.2160, -9.5360, -3.3920

# Conversions

## Conversions Part 2

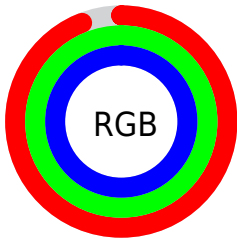
Format	Color
R <sub>Y</sub> B	239, 247, 255
Decimal	15728639
CIE Lab	99.00, -5.52, -1.92
CIE LCh	99, 5.840, 199.149
Yxy	97.4360, 0.3024, 0.3290
Android (android.graphics.Color)	4293918719 (0xFFEFFFFF)
YUV	250.2160, 2.3585, -9.8364
Hunter-Lab	98.7097, -10.8018, 3.5081

# Details

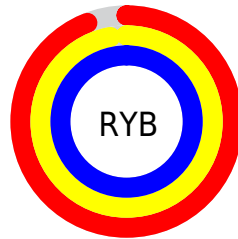
The CIELCh color 99, 5.840, 199.149 is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be 96, 5.875, 19.694, and the grayscale version is 98, 0.011, 296.813.

A 20% lighter version of the original color is 100, 0.012, 296.813, and 79, 5.394, 199.094 is the 20% darker color. If you saturate the color by 10%, you get 97, 14.022, 198.571, and if you desaturate by 10%, it is 100, 0.012, 296.813.

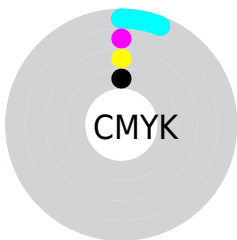
# Distribution



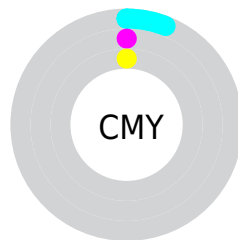
- Red (94%)
- Green (100%)
- Blue (100%)



- Red (94%)
- Yellow (97%)
- Blue (100%)



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



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

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 99, 5.840, 199.149 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, 5.840, 199.149 by changing the saturation by 10% instead.



 99, 5.840, 199.149

 99, 5.840, 199.149

 100, 5.840,  
199.149

 89, 5.840, 199.149

 79, 5.840, 199.149

 69, 5.840, 199.149

 59, 5.840, 199.149

 49, 5.840, 199.149

 39, 5.840, 199.149

 29, 5.840, 199.149

 19, 5.840, 199.149

 9, 5.840, 199.149

99, 5.840, 199.149

99, 5.840, 199.149

97, 14.022,  
198.571

100, 0.012,  
296.813

96, 21.807,  
198.074

94, 28.851,  
197.640


93, 35.012,  
197.268

93, 40.167,  
196.963

92, 44.232,  
196.725

92, 47.177,  
196.555

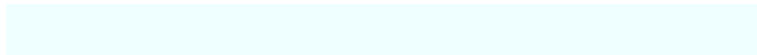
91, 49.037,  
196.448

 91, 49.934,  
196.397

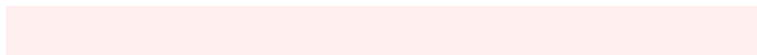
# Harmonies

# Complementary

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



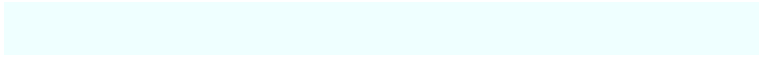
99, 5.840, 199.149



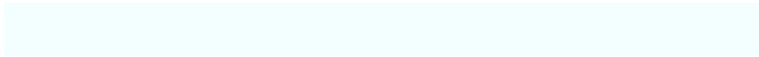
96, 5.875, 19.694

# Rectangle

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



99, 5.840, 199.149



99, 5.840, 249.149



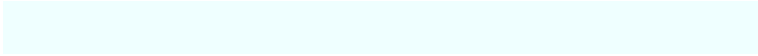
99, 5.840, 19.149



99, 5.840, 69.149

# Sweetspot

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



99, 5.641, 199.165



100, 1.770, 199.667



98, 10.213, 144.099



53, 1.006, 199.692



0, 0.000, 0.000



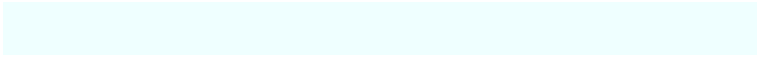
53, 0.007, 296.813





# Same Dimension

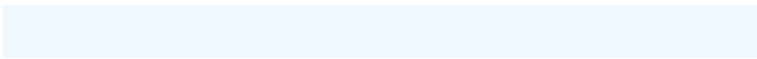
The Same Dimension uses a secret algorithm to generate beautiful new colors.



99, 5.641, 199.165



99, 6.985, 199.058



97, 5.018, 256.330



52, 4.945, 198.963



70, 40.365, 196.386



24, 18.570, 196.386



# Inverse Universe

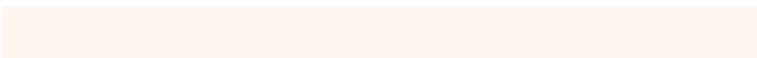
The Inverse Universe completely reimagines the original color for something new.



96, 10.234, 324.767



95, 12.733, 324.860



98, 5.084, 74.545



50, 9.057, 324.947



45, 93.083, 328.233

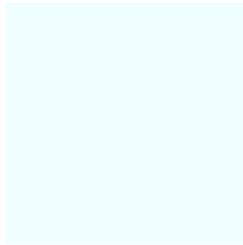


12, 42.823, 328.233



# Previews

## White Background



This preview shows how the CIELCh color 99, 5.840, 199.149 looks on a white background.

## Color Contrast Check

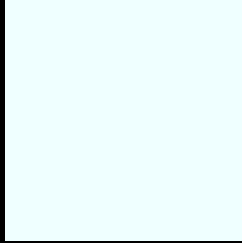
Large Text (above 18pt) WCAG AA × Fail

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, 5.840, 199.149 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

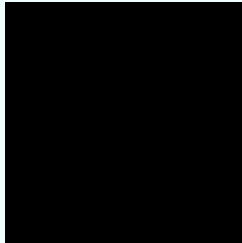
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 99, 5.840, 199.149**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 99, 5.840, 199.149.

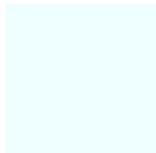


This preview shows how white text looks on a background with the CIELCh color 99, 5.840, 199.149.

# 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, 5.502, 199.177



### Protanopia

99, 2.044, 349.329

### Deuteranopia

99, 2.044, 349.329



**Tritanopia**  
99, 1.677, 265.874

# Trichromacy



**Original Color**

99, 5.502, 199.177

**Protanomaly**

99, 1.159, 226.031

**Deuteranomaly**

99, 1.159, 226.031

**Tritanomaly**

99, 2.615, 222.453

# Monochromacy



**Original Color**

99, 5.502, 199.177

**Achromatopsia**

98, 0.011, 296.813

**Achromatomaly**

99, 2.086, 199.587

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 99, 5.840, 199.149 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(239, 255, 255)` looks like.

```
.text, #text, p{  
    color:rgb(239, 255, 255)  
}
```

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(239, 255, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(239, 255, 255) }
```

## Border

The CSS property to change the border of an element to CIELCh 99, 5.840, 199.149 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(239, 255, 255) }
```

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

```
.border{ border-color:rgb(239, 255, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(239, 255, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(239, 255, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(239, 255, 255);  
box-shadow:4px 4px 4px 4px rgb(239, 255,  
255) }
```

# Background

The CSS property to change the background color of an element to CIELCh 99, 5.840, 199.149 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(239, 255, 255) }
```

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

```
.background{ background-color: rgb(239,  
255, 255) }
```

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