

# Converting Colors

CIELCh(87, 19.465, 171.623)

Have a look what the booklet for  
CIELCh(87, 19.465, 171.623)  
contains.

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# Color

**CIELCh(87, 19.133, 172.101)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B3E4D4
RGB	179, 228, 212
RGB Percent	70%, 89%, 83%
CMY	0.2971, 0.1049, 0.1676
CMYK	0.21, 0.00, 0.07, 0.10
HSL	160°, 48%, 80%
HSV	160°, 21%, 90%
XYZ	58.3765, 70.0064, 72.8891
YIQ	211.5250, -24.0680, -15.3640

# Conversions

## Conversions Part 2

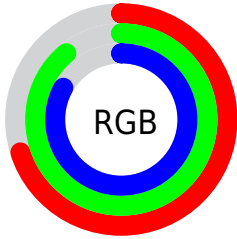
<b>Format</b>	<b>Color</b>
<b>RYB</b>	179, 208, 228
Decimal	11789524
CIELab	87.00, -18.95, 2.63
CIELCh	87, 19.133, 172.101
Yxy	70.0064, 0.2900, 0.3478
Android (android.graphics.Color)	4289979604 (0xFFB3E4D4)
YUV	211.5250, 0.2342, -28.5244
Hunter-Lab	83.6698, -21.8825, 6.9183

# Details

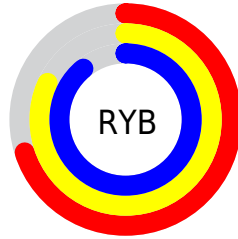
The CIELCh color **87, 19.133, 172.101** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **78, 20.252, 356.332**, and the grayscale version is **85, 0.010, 296.813**.

A 20% lighter version of the original color is **99, 6.851, 199.068**, and **67, 19.110, 172.024** is the 20% darker color. If you saturate the color by 10%, you get **86, 27.646, 170.995**, and if you desaturate by 10%, it is **89, 10.317, 173.127**.

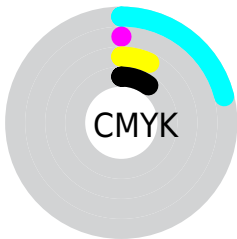
# Distribution



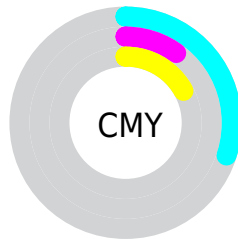
- Red (70%)
- Green (89%)
- Blue (83%)



- Red (70%)
- Yellow (82%)
- Blue (89%)



- Cyan (21%)
- Magenta (0%)
- Yellow (7%)
- Black (10%)




- Cyan (30%)
- Magenta (10%)
- Yellow (17%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 87, 19.133, 172.101 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 87, 19.133, 172.101 by changing the saturation by 10% instead.





 87, 19.133,  
172.101


 87, 19.133,  
172.101


 100, 19.133,  
172.101


 77, 19.133,  
172.101

 67, 19.133,  
172.101

 57, 19.133,  
172.101

 47, 19.133,  
172.101

 37, 19.133,  
172.101


 27, 19.133,  
172.101


 17, 19.133,


172.101


 7, 19.133, 172.101


 0, 19.133, 172.101

 87, 19.133,  
172.101

 87, 19.133,  
172.101

 86, 27.646,  
170.995

 89, 10.317,  
173.127


 84, 35.704,  
169.789

 90, 1.325, 174.399


 83, 43.155,  
168.454

 92, 7.731, 354.813

 82, 49.857,  
166.966

 93, 11.918,  
343.605

 82, 55.697,

 93, 14.501,  
331.327

165.298

93, 16.714,  
325.003

81, 60.620,  
163.431

81, 64.646,  
161.357

81, 67.531,  
159.477

# Harmonies

# Complementary

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



87, 19.133, 172.101



78, 20.252, 356.332

# Rectangle

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



87, 19.133, 172.101



87, 19.133, 222.101



87, 19.133, 352.101



87, 19.133, 42.101

# Sweetspot

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



87, 19.134, 172.098



99, 5.920, 173.687



87, 28.260, 133.702



53, 3.926, 173.616



0, 0.000, 0.000



53, 0.007, 296.813



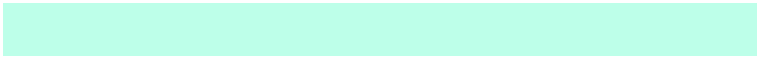


# Same Dimension

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



87, 19.134, 172.098



95, 25.196, 171.592



85, 14.253, 216.171



47, 5.137, 173.330



64, 55.822, 159.867



18, 21.991, 163.852



# Inverse Universe

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



78, 20.252, 356.332



83, 27.017, 356.919



79, 16.496, 35.728



45, 5.267, 354.981



38, 66.264, 18.517

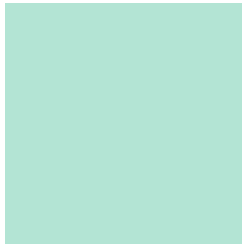


7, 26.693, 6.974



# Previews

## White Background



This preview shows how the CIELCh color 87, 19.133, 172.101 looks on a white background.

## Color Contrast Check

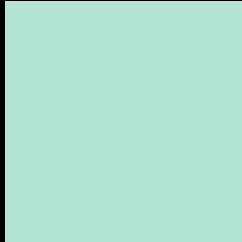
Large Text (above 18pt) WCAG AA × Fail

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 87, 19.133, 172.101 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

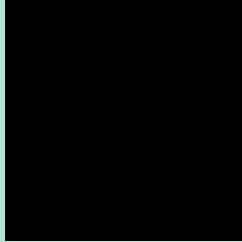
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

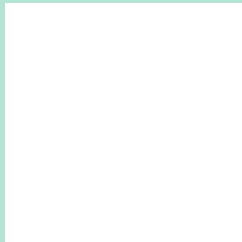
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 87, 19.133, 172.101

## Background



This preview shows how black text looks on a background with the CIELCh color 87, 19.133, 172.101.

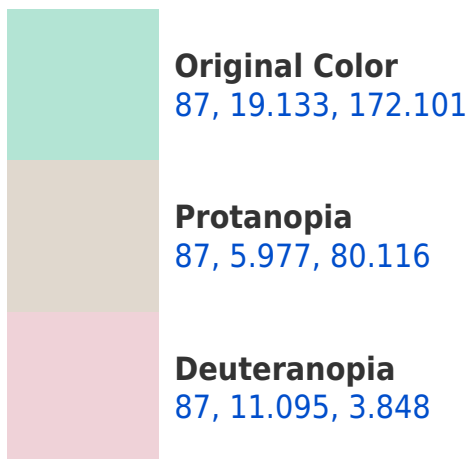


This preview shows how white text looks on a background with the CIELCh color 87, 19.133, 172.101.

# 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





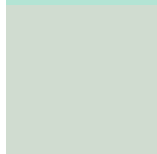


**Tritanopia**  
87, 15.673, 235.869

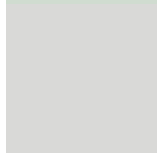
# Trichromacy



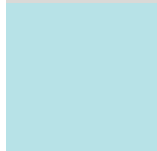
**Original Color**  
87, 19.133, 172.101



**Protanomaly**  
87, 7.671, 144.167



**Deuteranomaly**  
87, 1.036, 110.024



**Tritanomaly**  
87, 14.613, 208.855

# Monochromacy



**Original Color**  
87, 19.133, 172.101



**Achromatopsia**  
85, 0.010, 296.813



**Achromatomaly**  
86, 7.197, 173.005

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 87, 19.133, 172.101 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(179, 228, 212)` looks like.

```
.text, #text, p{  
    color:rgb(179, 228, 212)  
}
```

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(179, 228, 212) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(179, 228, 212) }
```

## Border

The CSS property to change the border of an element to CIELCh 87, 19.133, 172.101 is called "border". The border property can be set on classes, ids or directly on the HTML element.

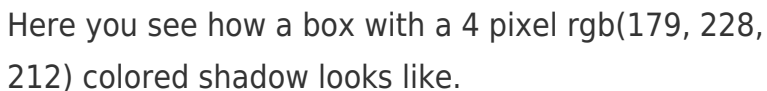
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(179, 228, 212) }
```

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

```
.border{ border-color:rgb(179, 228, 212) }
```

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



Here you see how a box with a 4 pixel `rgb(179, 228, 212)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(179, 228, 212); -webkit-box-shadow:4px 4px 4px 4px rgb(179, 228, 212); box-shadow:4px 4px 4px 4px rgb(179, 228, 212) }
```

# Background

The CSS property to change the background color of an element to CIELCh 87, 19.133, 172.101 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(179, 228, 212) }
```

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

```
.background{ background-color: rgb(179,  
228, 212) }
```

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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