

# Converting Colors

CIELCh(87, 19.972, 138.107)

Have a look what the booklet for  
CIELCh(87, 19.972, 138.107)  
contains.

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# **Color**

**CIELCh(87, 19.753, 137.762)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C7E1C0
RGB	199, 225, 192
RGB Percent	78%, 88%, 75%
CMY	0.2185, 0.1165, 0.2459
CMYK	0.12, 0.00, 0.15, 0.12
HSL	107°, 36%, 82%
HSV	107°, 15%, 88%
XYZ	60.1778, 70.0064, 60.3735
YIQ	213.4640, -4.9030, -15.7750

# Conversions

## Conversions Part 2

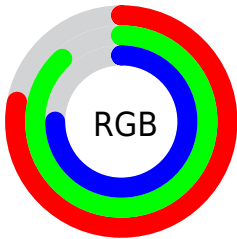
Format	Color
<a href="#">RYB</a>	<a href="#">192, 225, 218</a>
Decimal	<a href="#">13099456</a>
CIELab	<a href="#">87.00, -14.62, 13.28</a>
CIElCh	<a href="#">87, 19.753, 137.762</a>
Yxy	<a href="#">70.0064, 0.3158, 0.3674</a>
Android (android.graphics.Color)	<a href="#">4291289536 (0xFFC7E1C0)</a>
YUV	<a href="#">213.4640, -10.5818, -12.6849</a>
Hunter-Lab	<a href="#">83.6698, -18.0398, 15.7871</a>

# Details

The CIELCh color  $87, 19.753, 137.762$  is a light color, and the websafe version is hex `CCCC99`. A complement of this color would be  $81, 19.911, 319.083$ , and the grayscale version is  $86, 0.010, 296.813$ .

A 20% lighter version of the original color is  $100, 3.539, 109.892$ , and  $67, 20.166, 137.362$  is the 20% darker color. If you saturate the color by 10%, you get  $85, 33.304, 137.204$ , and if you desaturate by 10%, it is  $89, 6.236, 138.278$ .

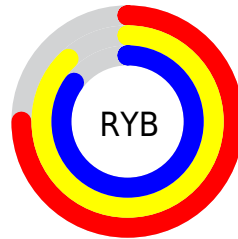
# Distribution



Red (78%)

Green (88%)

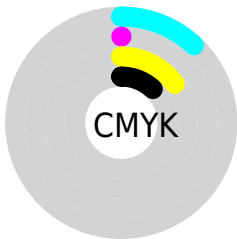
Blue (75%)



Red (75%)

Yellow (88%)

Blue (85%)

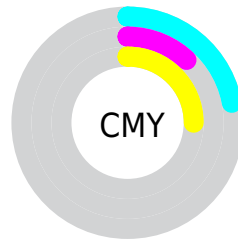


Cyan (12%)

Magenta (0%)

Yellow (15%)

Black (12%)



Cyan (22%)

Magenta (12%)


Yellow (25%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 87, 19.753, 137.762 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, 19.753, 137.762 by changing the saturation by 10% instead.





 87, 19.753,  
137.762


 87, 19.753,  
137.762


 100, 19.753,  
137.762


 77, 19.753,  
137.762

 67, 19.753,  
137.762

 57, 19.753,  
137.762

 47, 19.753,  
137.762

 37, 19.753,  
137.762


 27, 19.753,  
137.762


 17, 19.753,


137.762

 7, 19.753, 137.762

 0, 19.753, 137.762

 87, 19.753,  
137.762


 87, 19.753,  
137.762


 85, 33.304,  
137.204

 89, 6.236, 138.278


 84, 46.716,  
136.587


 91, 7.136, 318.637

 83, 59.765,  
135.930

 93, 18.117,  
322.759

 82, 72.141,  
135.268

 93, 18.578,  
325.069

 81, 83.427,

134.671

■ 80, 93.092,  
134.245

■ 79, 100.550,  
134.120

■ 79, 105.365,  
134.396

■ 79, 107.059,  
134.629

# Harmonies

# Complementary

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



87, 19.753, 137.762



81, 19.911, 319.083

# Rectangle

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



87, 19.753, 137.762



87, 19.753, 187.762



87, 19.753, 317.762



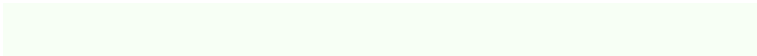
87, 19.753, 7.762

# Sweetspot

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



87, 19.755, 137.763



99, 5.924, 138.312



87, 13.725, 97.670



53, 4.213, 138.271



0, 0.000, 0.000



53, 0.007, 296.813



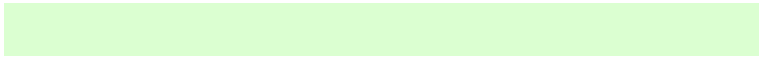


# Same Dimension

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



87, 19.755, 137.763



96, 26.862, 137.576



87, 17.271, 152.585



46, 7.612, 138.033



63, 88.816, 134.469



17, 33.445, 135.632



# Inverse Universe

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



81, 19.911, 319.083



88, 27.114, 319.240



81, 17.374, 334.601



44, 7.657, 318.844



35, 89.307, 320.308



6, 35.347, 320.957



# Previews

## White Background



This preview shows how the CIELCh color 87, 19.753, 137.762 looks on a white background.

## Color Contrast Check

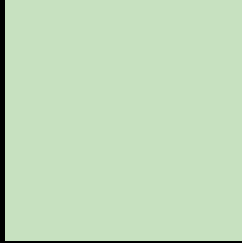
Large Text (above 18pt) WCAG AA × Fail

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, 19.753, 137.762 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

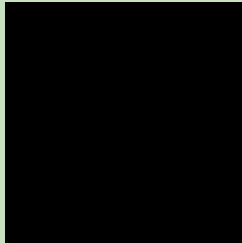
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

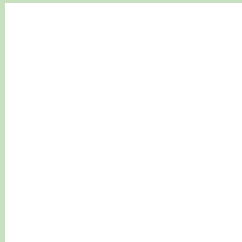
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 87, 19.753, 137.762**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 87, 19.753, 137.762.

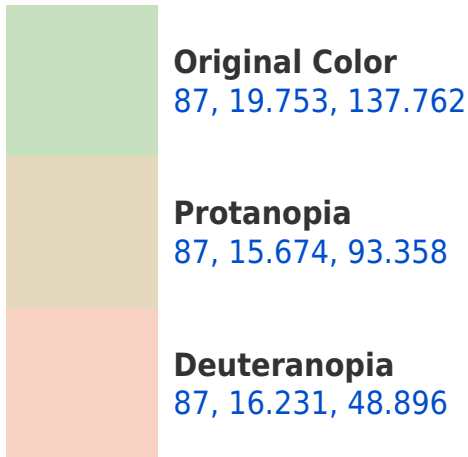


This preview shows how white text looks on a background with the CIELCh color 87, 19.753, 137.762.

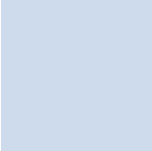
# Color Blindness Simulation

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

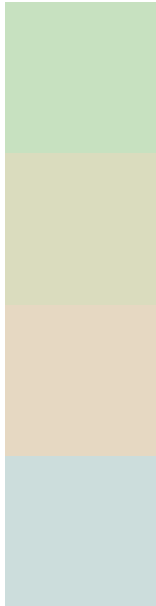






**Tritanopia**  
87, 9.860, 264.069

# Trichromacy



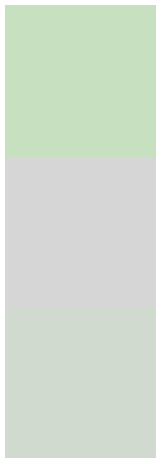
**Original Color**  
87, 19.753, 137.762

**Protanomaly**  
87, 15.626, 111.625

**Deuteranomaly**  
87, 12.632, 84.393

**Tritanomaly**  
87, 6.030, 194.087

# Monochromacy



**Original Color**  
87, 19.753, 137.762

**Achromatopsia**  
86, 0.010, 296.813

**Achromatomaly**  
86, 7.108, 137.086

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 87, 19.753, 137.762 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(199, 225, 192)` looks like.

```
.text, #text, p{  
    color:rgb(199, 225, 192)  
}
```

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(199, 225, 192) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 225, 192) }
```

## Border

The CSS property to change the border of an element to CIELCh 87, 19.753, 137.762 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(199, 225, 192) }
```

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

```
.border{ border-color:rgb(199, 225, 192) }
```

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

Here you see how a box with a 4 pixel `rgb(199, 225, 192)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(199, 225, 192); -webkit-box-shadow:4px 4px 4px 4px rgb(199, 225, 192); box-shadow:4px 4px 4px 4px rgb(199, 225, 192) }
```

# Background

The CSS property to change the background color of an element to CIELCh 87, 19.753, 137.762 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 225, 192) }
```

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

```
.background{ background-color: rgb(199,  
225, 192) }
```

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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