

# Converting Colors

CIELCh(87, 16.535, 128.476)

Have a look what the booklet for  
CIELCh(87, 16.535, 128.476)  
contains.

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# Color

**CIELCh(87, 16.613, 128.472)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D0DFC1
RGB	208, 223, 193
RGB Percent	82%, 87%, 76%
CMY	0.1845, 0.1256, 0.2433
CMYK	0.07, 0.00, 0.13, 0.13
HSL	90°, 32%, 82%
HSV	90°, 13%, 87%
XYZ	61.9993, 70.0064, 60.6735
YIQ	215.0950, 0.6900, -12.5100

# Conversions

## Conversions Part 2

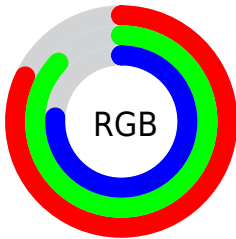
<b>Format</b>	<b>Color</b>
<b>RYB</b>	193, 223, 208
Decimal	13688769
CIELab	87.00, -10.34, 13.01
CIELCh	87, 16.613, 128.472
Yxy	70.0064, 0.3218, 0.3633
Android (android.graphics.Color)	4291878849 (0xFFD0DFC1)
YUV	215.0950, -10.8928, -6.2223
Hunter-Lab	83.6698, -14.1539, 15.5745

# Details

The CIELCh color  $87, 16.613, 128.472$  is a light color, and the websafe version is hex `CCCC99`. A complement of this color would be  $80, 16.927, 309.679$ , and the grayscale version is  $86, 0.010, 296.813$ .

A 20% lighter version of the original color is  $100, 3.032, 109.926$ , and  $67, 16.865, 127.692$  is the 20% darker color. If you saturate the color by 10%, you get  $86, 28.957, 127.993$ , and if you desaturate by 10%, it is  $88, 4.253, 128.951$ .

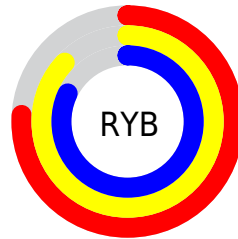
# Distribution



Red (82%)

Green (87%)

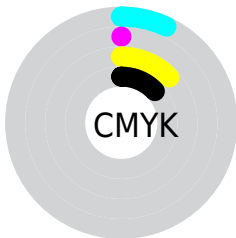
Blue (76%)



Red (76%)

Yellow (87%)

Blue (82%)

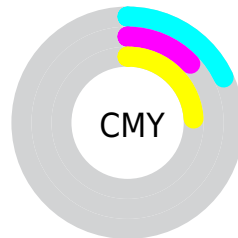


Cyan (7%)

Magenta (0%)

Yellow (13%)

Black (13%)



Cyan (18%)

Magenta (13%)


Yellow (24%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 87, 16.613, 128.472 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, 16.613, 128.472 by changing the saturation by 10% instead.





 87, 16.613,  
128.472


 87, 16.613,  
128.472


 100, 16.613,  
128.472


 77, 16.613,  
128.472

 67, 16.613,  
128.472

 57, 16.613,  
128.472

 47, 16.613,  
128.472

 37, 16.613,  
128.472


 27, 16.613,  
128.472


 17, 16.613,


128.472

 7, 16.613, 128.472


 0, 16.613, 128.472

 87, 16.613,  
128.472


 87, 16.613,  
128.472


 86, 28.957,  
127.993

 88, 4.253, 128.951


 85, 41.166,  
127.503

 90, 8.051, 309.327


 84, 53.079,  
127.033

 91, 17.881,  
312.206

 83, 64.462,  
126.628

 92, 19.588,  
322.999

 82, 74.976,

 92, 20.044,  
325.121

126.361

■ 81, 84.161,  
126.335

■ 81, 91.481,  
126.681

■ 80, 96.510,  
127.508

■ 80, 98.765,  
128.247

# Harmonies

# Complementary

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



87, 16.613, 128.472



80, 16.927, 309.679

# Rectangle

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



87, 16.613, 128.472



87, 16.613, 178.472



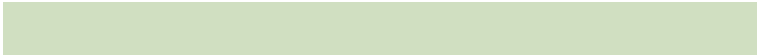
87, 16.613, 308.472



87, 16.613, 358.472

# Sweetspot

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



87, 16.615, 128.475



99, 5.490, 128.922



84, 9.694, 73.731



53, 3.904, 128.884



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, 16.615, 128.475



98, 22.033, 128.348



86, 19.241, 143.634



47, 7.042, 128.664



64, 82.542, 127.988



17, 30.817, 127.954



# Inverse Universe

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



80, 16.927, 309.679



88, 22.525, 309.811



81, 19.262, 325.166



44, 7.139, 309.484



27, 94.430, 311.939

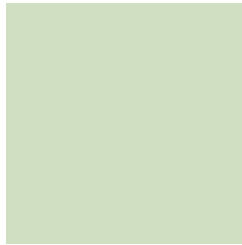


4, 33.480, 310.313



# Previews

## White Background



This preview shows how the CIELCh color 87, 16.613, 128.472 looks on a white background.

## Color Contrast Check

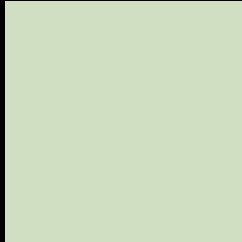
Large Text (above 18pt) WCAG AA × Fail

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, 16.613, 128.472 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

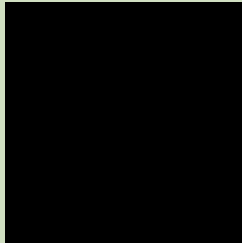
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

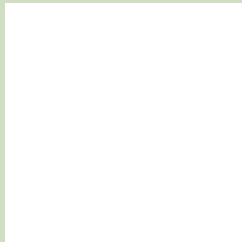
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 87, 16.613, 128.472

## Background



This preview shows how black text looks on a background with the CIELCh color 87, 16.613, 128.472.

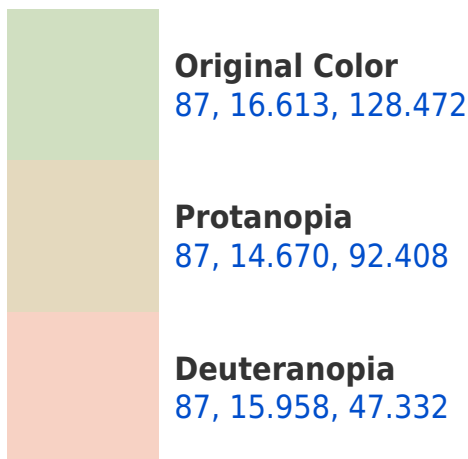


This preview shows how white text looks on a background with the CIELCh color 87, 16.613, 128.472.

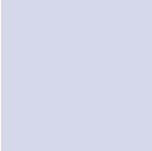
# Color Blindness Simulation

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

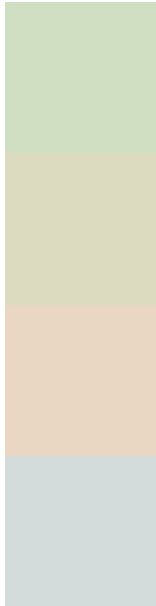






**Tritanopia**  
87, 8.948, 284.246

# Trichromacy



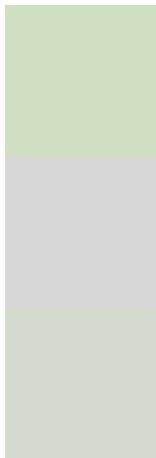
**Original Color**  
87, 16.613, 128.472

**Protanomaly**  
87, 14.589, 105.975

**Deuteranomaly**  
87, 12.467, 76.132

**Tritanomaly**  
87, 2.494, 199.465

# Monochromacy



**Original Color**  
87, 16.613, 128.472

**Achromatopsia**  
86, 0.010, 296.813

**Achromatomaly**  
86, 6.167, 130.451

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 87, 16.613, 128.472 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(208, 223, 193)` looks like.

```
.text, #text, p{  
    color:rgb(208, 223, 193)  
}
```

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(208, 223, 193) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(208, 223, 193) }
```

## Border

The CSS property to change the border of an element to CIELCh 87, 16.613, 128.472 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(208, 223, 193) }
```

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

```
.border{ border-color:rgb(208, 223, 193) }
```

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

Here you see how a box with a 4 pixel `rgb(208, 223, 193)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(208, 223, 193); -webkit-box-  
shadow:4px 4px 4px 4px rgb(208, 223, 193);  
box-shadow:4px 4px 4px 4px rgb(208, 223,  
193) }
```

# Background

The CSS property to change the background color of an element to CIELCh 87, 16.613, 128.472 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(208, 223, 193) }
```

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

```
.background{ background-color: rgb(208,  
223, 193) }
```

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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