

# Converting Colors

CIELCh(87, 10.409, 109.298)

Have a look what the booklet for  
CIELCh(87, 10.409, 109.298)  
contains.

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# **Color**

**CIELCh(87, 10.418, 109.294)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DBDBC7
RGB	219, 219, 199
RGB Percent	86%, 86%, 78%
CMY	0.1403, 0.1403, 0.2188
CMYK	0.00, 0.00, 0.09, 0.14
HSL	60°, 22%, 82%
HSV	60°, 9%, 86%
XYZ	65.0032, 70.0064, 64.2515
YIQ	216.7200, 6.4200, -6.2200

# Conversions

## Conversions Part 2

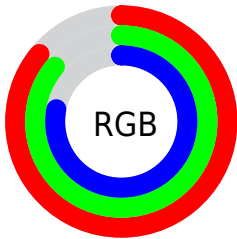
<b>Format</b>	<b>Color</b>
<b>RYB</b>	199, 219, 199
Decimal	14408647
CIELab	87.00, -3.44, 9.83
CIELCh	87, 10.418, 109.294
Yxy	70.0064, 0.3262, 0.3513
Android (android.graphics.Color)	4292598727 (0xFFDBDBC7)
YUV	216.7200, -8.7360, 1.9996
Hunter-Lab	83.6698, -7.7452, 13.0390

# Details

The CIELCh color **87, 10.418, 109.294** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **81, 10.646, 291.131**, and the grayscale version is **87, 0.010, 296.813**.

A 20% lighter version of the original color is **100, 0.012, 296.813**, and **67, 10.441, 109.080** is the 20% darker color. If you saturate the color by 10%, you get **87, 21.780, 108.335**, and if you desaturate by 10%, it is **88, 1.010, 290.338**.

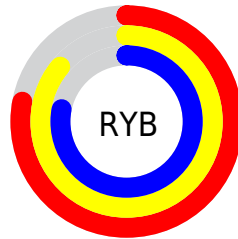
# Distribution



Red (86%)

Green (86%)

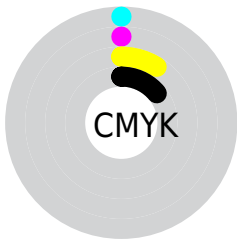
Blue (78%)



Red (78%)

Yellow (86%)

Blue (78%)

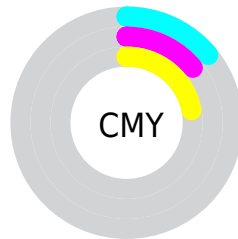


Cyan (0%)

Magenta (0%)

Yellow (9%)

Black (14%)



Cyan (14%)

Magenta (14%)


Yellow (22%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 87, 10.418, 109.294 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, 10.418, 109.294 by changing the saturation by 10% instead.





 87, 10.418,  
109.294

 87, 10.418,  
109.294


 100, 10.418,  
109.294


 77, 10.418,  
109.294

 67, 10.418,  
109.294

 57, 10.418,  
109.294

 47, 10.418,  
109.294

 37, 10.418,  
109.294

 27, 10.418,  
109.294

 17, 10.418,

109.294

■ 7, 10.418, 109.294

■ 0, 10.418, 109.294

■ 87, 10.418,  
109.294

■ 87, 10.418,  
109.294

■ 87, 21.780,  
108.335

■ 88, 1.010, 290.338

■ 86, 32.991,  
107.367

■ 88, 12.457,  
291.212

■ 86, 43.927,  
106.421

■ 88, 18.684,  
291.711

■ 86, 54.393,  
105.521

■ 88, 18.684,  
291.715

■ 85, 64.095,

■ 88, 18.684,  
291.720

104.696

88, 18.684,  
291.724

85, 72.609,  
103.985

88, 18.684,  
291.729

85, 79.404,  
103.429

88, 18.684,  
291.734

85, 83.975,  
103.061

88, 18.684,  
291.738

85, 86.292,  
102.878

# Harmonies

# Complementary

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



87, 10.418, 109.294



81, 10.646, 291.131

# Rectangle

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



87, 10.418, 109.294



87, 10.418, 159.294



87, 10.418, 289.294



87, 10.418, 339.294

# Sweetspot

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



87, 10.420, 109.303



100, 3.868, 109.877



82, 7.447, 19.907



53, 2.934, 109.804



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, 10.420, 109.303



99, 14.193, 109.113



86, 11.106, 128.677



46, 6.483, 109.273



69, 72.577, 102.865



18, 26.501, 104.173



# Inverse Universe

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



81, 10.646, 291.131



91, 14.561, 291.351



82, 11.255, 309.466



42, 6.628, 291.164



20, 100.215, 306.288

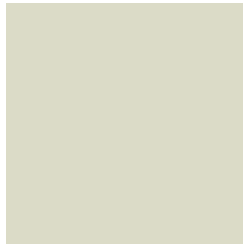


2, 29.602, 294.921



# Previews

## White Background



This preview shows how the CIELCh color 87, 10.418, 109.294 looks on a white background.

## Color Contrast Check

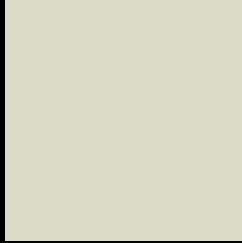
Large Text (above 18pt) WCAG AA × Fail

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 87, 10.418, 109.294 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

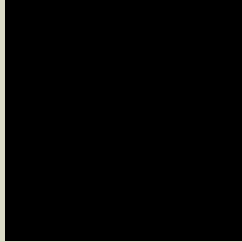
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

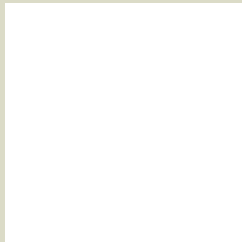
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 87, 10.418, 109.294

## Background



This preview shows how black text looks on a background with the CIELCh color 87, 10.418, 109.294.

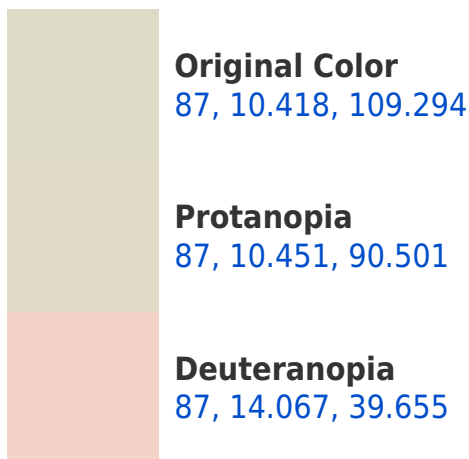


This preview shows how white text looks on a background with the CIELCh color 87, 10.418, 109.294.

# 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

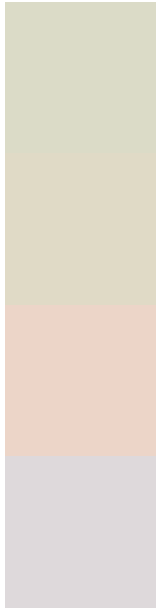






**Tritanopia**  
87, 9.007, 311.498

# Trichromacy



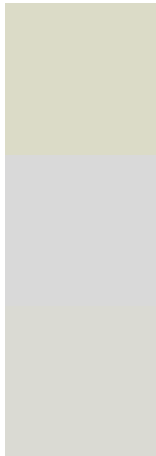
**Original Color**  
87, 10.418, 109.294

**Protanomaly**  
87, 10.648, 97.120

**Deuteranomaly**  
87, 11.009, 57.736

**Tritanomaly**  
87, 2.098, 349.386

# Monochromacy



**Original Color**  
87, 10.418, 109.294

**Achromatopsia**  
87, 0.010, 296.813

**Achromatomaly**  
87, 3.646, 109.853

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 87, 10.418, 109.294 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(219, 219, 199)` looks like.

```
.text, #text, p{  
    color:rgb(219, 219, 199)  
}
```

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(219, 219, 199) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(219, 219, 199) }
```

## Border

The CSS property to change the border of an element to CIELCh 87, 10.418, 109.294 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(219, 219, 199) }
```

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

```
.border{ border-color:rgb(219, 219, 199) }
```

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

Here you see how a box with a 4 pixel `rgb(219, 219, 199)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(219, 219, 199); -webkit-box-shadow:4px 4px 4px 4px rgb(219, 219, 199); box-shadow:4px 4px 4px 4px rgb(219, 219, 199) }
```

# Background

The CSS property to change the background color of an element to CIELCh 87, 10.418, 109.294 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(219, 219, 199) }
```

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

```
.background{ background-color: rgb(219,  
219, 199) }
```

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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