

# Converting Colors

CIELCh(87, 1.212, 34.621)

Have a look what the booklet for  
CIELCh(87, 1.212, 34.621) contains.

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# Color

**CIELCh(87, 1.083, 18.942)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DCD9D9
RGB	220, 217, 217
RGB Percent	86%, 85%, 85%
CMY	0.1364, 0.1482, 0.1482
CMYK	0.00, 0.01, 0.01, 0.14
HSL	0°, 4%, 86%
HSV	0°, 1%, 86%
XYZ	67.0006, 70.0064, 75.7733
YIQ	217.8970, 1.7880, 0.6360

# Conversions

## Conversions Part 2

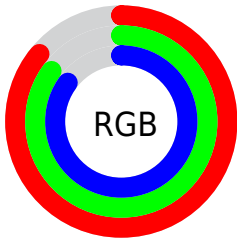
Format	Color
R <sub>Y</sub> B	220, 217, 217
Decimal	14473689
CIE Lab	87.00, 1.02, 0.35
CIE LCh	87, 1.083, 18.942
Yxy	70.0064, 0.3149, 0.3290
Android (android.graphics.Color)	4292663769 (0xFFD9D9D9)
YUV	217.8970, -0.4422, 1.8443
Hunter-Lab	83.6698, -3.4840, 4.8745

# Details

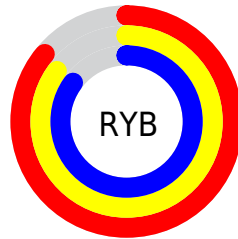
The CIELCh color **87, 1.083, 18.942** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **88, 1.070, 199.989**, and the grayscale version is **87, 0.010, 296.813**.

A 20% lighter version of the original color is **100, 0.012, 296.813**, and **67, 1.144, 19.096** is the 20% darker color. If you saturate the color by 10%, you get **81, 9.376, 20.185**, and if you desaturate by 10%, it is **93, 6.585, 199.171**.

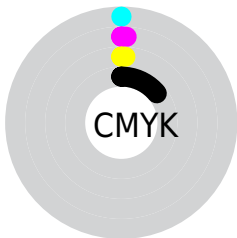
# Distribution



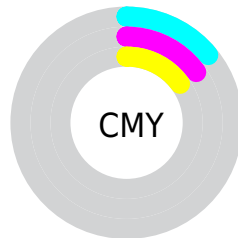
- Red (86%)
- Green (85%)
- Blue (85%)



- Red (86%)
- Yellow (85%)
- Blue (85%)



- Cyan (0%)
- Magenta (1%)
- Yellow (1%)
- Black (14%)








- Cyan (14%)
- Magenta (15%)
- Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 87, 1.083, 18.942 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, 1.083, 18.942 by changing the saturation by 10% instead.



 87, 1.083, 18.942	 87, 1.083, 18.942
 100, 1.083, 18.942	 77, 1.083, 18.942
	 67, 1.083, 18.942
	 57, 1.083, 18.942
	 47, 1.083, 18.942
	 37, 1.083, 18.942
	 27, 1.083, 18.942
	 17, 1.083, 18.942
	 7, 1.083, 18.942
	 0, 1.083, 18.942

87, 1.083, 18.942

87, 1.083, 18.942

81, 9.376, 20.185

93, 6.585, 199.171

75, 18.336, 21.063

98, 11.733,  
198.722

69, 27.962, 22.178

64, 38.193, 23.630

59, 48.880, 25.527

54, 59.769, 27.978

51, 70.493, 31.036

48, 80.520, 34.559

47, 88.790, 37.917

# Harmonies

# Complementary

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



87, 1.083, 18.942



88, 1.070, 199.989

# Rectangle

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



87, 1.083, 18.942



87, 1.083, 68.942



87, 1.083, 198.942



87, 1.083, 248.942

# Sweetspot

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



87, 1.082, 19.045

100, 0.012, 296.813



87, 1.922, 324.373



53, 0.007, 296.813



0, 0.000, 0.000

# Same Dimension

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



87, 1.082, 19.045



99, 1.792, 19.262



87, 0.938, 74.835



46, 0.900, 19.228



36, 78.218, 39.943



5, 23.820, 20.329





# Inverse Universe

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



88, 1.070, 199.989



100, 1.768, 199.773



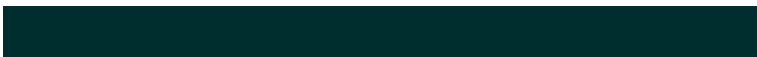
87, 0.951, 255.999



46, 0.888, 199.806



64, 37.464, 196.578

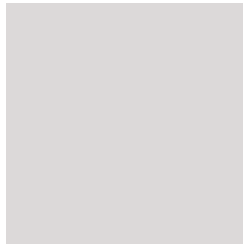


16, 15.051, 196.545



# Previews

## White Background



This preview shows how the CIELCh color 87, 1.083, 18.942 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, 1.083, 18.942 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

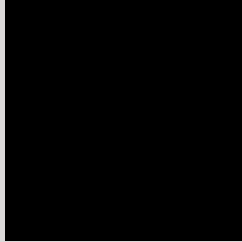
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

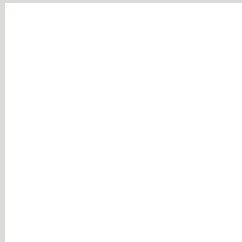
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 87, 1.083, 18.942**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 87, 1.083, 18.942.

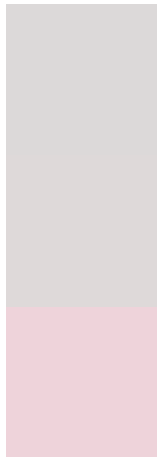


This preview shows how white text looks on a background with the CIELCh color 87, 1.083, 18.942.

# 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

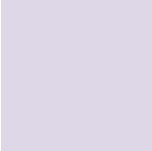
87, 1.083, 18.942

### Protanopia

87, 1.808, 19.211

### Deuteranopia

87, 10.531, 359.898



**Tritanopia**  
87, 9.280, 306.279

# Trichromacy



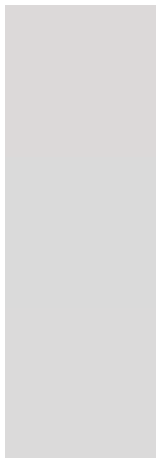
**Original Color**  
87, 1.083, 18.942

**Protanomaly**  
87, 1.445, 19.104

**Deuteranomaly**  
87, 7.406, 359.269

**Tritanomaly**  
87, 6.057, 307.669

# Monochromacy



**Original Color**  
87, 1.083, 18.942

**Achromatopsia**  
87, 0.010, 296.813

**Achromatomaly**  
87, 0.361, 17.801



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 87, 1.083, 18.942 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(220, 217, 217)` looks like.

```
.text, #text, p{  
    color:rgb(220, 217, 217)  
}
```

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(220, 217, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 217, 217) }
```

## Border

The CSS property to change the border of an element to CIELCh 87, 1.083, 18.942 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(220, 217, 217) }
```

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

```
.border{ border-color:rgb(220, 217, 217) }
```

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

Here you see how a box with a 4 pixel rgb(220, 217, 217) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 217, 217); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 217, 217);  
box-shadow:4px 4px 4px 4px rgb(220, 217,  
217) }
```

# Background

The CSS property to change the background color of an element to CIELCh 87, 1.083, 18.942 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 217, 217) }
```

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

```
.background{ background-color: rgb(220,  
217, 217) }
```

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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