

# Converting Colors

CIELCh(87, 6.842, 71.290)

Have a look what the booklet for  
CIELCh(87, 6.842, 71.290) contains.

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# Color

**CIELCh(87, 6.835, 69.165)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E4D8CE
RGB	228, 216, 206
RGB Percent	89%, 85%, 81%
CMY	0.1062, 0.1532, 0.1924
CMYK	0.00, 0.05, 0.10, 0.11
HSL	27°, 29%, 85%
HSV	27°, 10%, 89%
XYZ	67.6380, 70.0064, 68.2916
YIQ	218.4480, 10.3620, -0.5660

# Conversions

## Conversions Part 2

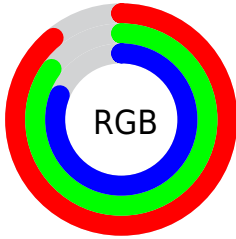
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	228, 224, 206
Decimal	14997710
CIE <sub>Lab</sub>	87.00, 2.43, 6.39
CIE <sub>LCh</sub>	87, 6.835, 69.165
Yxy	70.0064, 0.3284, 0.3399
Android (android.graphics.Color)	4293187790 (0xFFE4D8CE)
YUV	218.4480, -6.1369, 8.3771
Hunter-Lab	83.6698, -2.1242, 10.1762

# Details

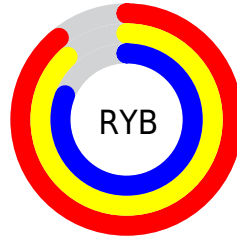
The CIELCh color  $87, 6.835, 69.165$  is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be  $86, 6.635, 251.629$ , and the grayscale version is  $87, 0.010, 296.813$ .

A 20% lighter version of the original color is  $100, 0.012, 296.813$ , and  $67, 6.836, 65.952$  is the 20% darker color. If you saturate the color by 10%, you get  $83, 14.305, 68.059$ , and if you desaturate by 10%, it is  $91, 0.248, 252.197$ .

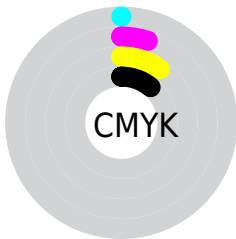
# Distribution



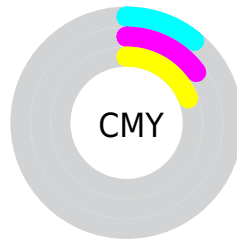
- Red (89%)
- Green (85%)
- Blue (81%)



- Red (89%)
- Yellow (88%)
- Blue (81%)



- Cyan (0%)
- Magenta (5%)
- Yellow (10%)
- Black (11%)















- Cyan (11%)
- Magenta (15%)
- Yellow (19%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 87, 6.835, 69.165 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, 6.835, 69.165 by changing the saturation by 10% instead.



 87, 6.835, 69.165	 87, 6.835, 69.165
 100, 6.835, 69.165	 77, 6.835, 69.165
	 67, 6.835, 69.165
	 57, 6.835, 69.165
	 47, 6.835, 69.165
	 37, 6.835, 69.165
	 27, 6.835, 69.165
	 17, 6.835, 69.165
	 7, 6.835, 69.165
	 0, 6.835, 69.165

87, 6.835, 69.165

87, 6.835, 69.165

83, 14.305, 68.059

91, 0.248, 252.197

80, 22.194, 66.910

94, 6.984, 251.600

76, 30.522, 65.763

98, 8.629, 205.032

73, 39.277, 64.624

98, 9.209, 198.895

70, 48.384, 63.480

67, 57.637, 62.281

64, 66.579, 60.901

61, 74.330, 59.070

58, 80.019, 56.546

# Harmonies

# Complementary

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



87, 6.835, 69.165



86, 6.635, 251.629

# Rectangle

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



87, 6.835, 69.165



87, 6.835, 119.165



87, 6.835, 249.165



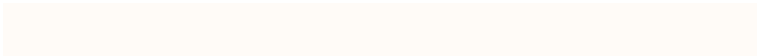
87, 6.835, 299.165

# Sweetspot

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



87, 6.835, 69.187



99, 2.282, 69.805



85, 10.235, 341.783



52, 1.735, 69.758



0, 0.000, 0.000



53, 0.007, 296.813

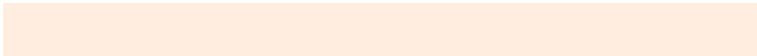


# Same Dimension

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



87, 6.835, 69.187



95, 9.371, 68.919



90, 10.818, 107.129



46, 4.043, 69.208



46, 66.526, 57.120



11, 20.992, 55.684



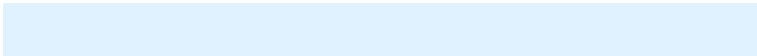


# Inverse Universe

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



86, 6.635, 251.629



94, 9.015, 251.951



84, 11.041, 289.148



46, 3.927, 251.604



41, 50.297, 279.125

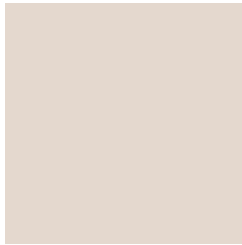


9, 18.312, 270.037



# Previews

## White Background



This preview shows how the CIELCh color 87, 6.835, 69.165 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, 6.835, 69.165 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

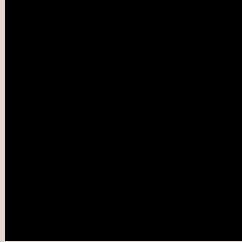
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

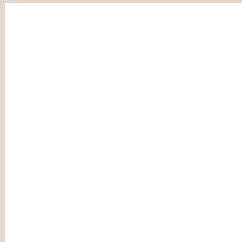
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 87, 6.835, 69.165

## Background



This preview shows how black text looks on a background with the CIELCh color 87, 6.835, 69.165.

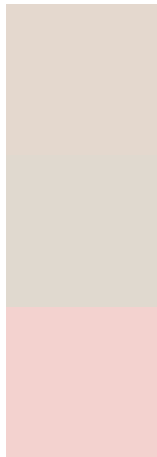


This preview shows how white text looks on a background with the CIELCh color 87, 6.835, 69.165.

# 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

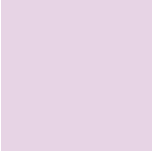
87, 6.835, 69.165

### Protanopia

87, 5.799, 83.317

### Deuteranopia

87, 12.433, 27.452



**Tritanopia**  
87, 11.242, 327.882



# Trichromacy



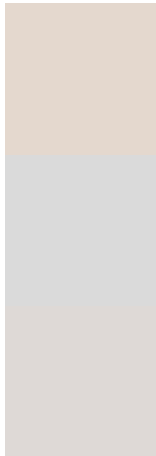
**Original Color**  
87, 6.835, 69.165

**Protanomaly**  
87, 5.972, 80.120

**Deuteranomaly**  
87, 10.030, 35.042

**Tritanomaly**  
87, 7.464, 345.836

# Monochromacy



**Original Color**  
87, 6.835, 69.165

**Achromatopsia**  
87, 0.010, 296.813

**Achromatomaly**  
87, 2.381, 60.301

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 87, 6.835, 69.165 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(228, 216, 206)` looks like.

```
.text, #text, p{  
    color:rgb(228, 216, 206)  
}
```

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(228, 216, 206) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 216, 206) }
```

## Border

The CSS property to change the border of an element to CIELCh 87, 6.835, 69.165 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(228, 216, 206) }
```

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

```
.border{ border-color:rgb(228, 216, 206) }
```

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

Here you see how a box with a 4 pixel rgb(228, 216, 206) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 216, 206); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 216, 206);  
box-shadow:4px 4px 4px 4px rgb(228, 216,  
206) }
```

# Background

The CSS property to change the background color of an element to CIELCh 87, 6.835, 69.165 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 216, 206) }
```

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

```
.background{ background-color: rgb(228,  
216, 206) }
```

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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