

# Converting Colors

CIELCh(90, 5.173, 109.742)

Have a look what the booklet for  
CIELCh(90, 5.173, 109.742) contains.

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# Color

**CIELCh(90, 5.173, 109.742)**

# Conversions

Conversions Part 1	
Format	Color
Hex	E3E3D9
RGB	227, 227, 217
RGB Percent	89%, 89%, 85%
CMY	0.1097, 0.1097, 0.1489
CMYK	0.00, 0.00, 0.04, 0.11
HSL	60°, 15%, 87%
HSV	60°, 4%, 89%
XYZ	71.6951, 76.3034, 76.6165
YIQ	225.8600, 3.2100, -3.1100

# Conversions

## Conversions Part 2

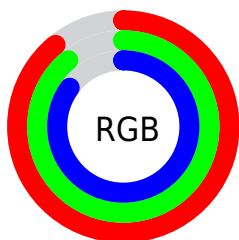
Format	Color
<a href="#">RYB</a>	<a href="#">217, 227, 217</a>
Decimal	<a href="#">14935001</a>
CIELab	<a href="#">90.00, -1.75, 4.87</a>
CIELCh	<a href="#">90, 5.173, 109.742</a>
Yxy	<a href="#">76.3034, 0.3192, 0.3397</a>
Android (android.graphics.Color)	<a href="#">4293125081</a> (0xFFE3E3D9)
YUV	<a href="#">225.8600, -4.3680, 0.9998</a>
Hunter-Lab	<a href="#">87.3518, -6.3594, 9.1428</a>

# Details

The CIELCh color **90, 5.173, 109.742** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **87, 5.244, 290.644**, and the grayscale version is **90, 0.011, 296.813**.

A 20% lighter version of the original color is **100, 0.012, 296.813**, and **70, 5.449, 109.620** is the 20% darker color. If you saturate the color by 10%, you get **89, 16.905, 108.799**, and if you desaturate by 10%, it is **91, 6.598, 290.735**.

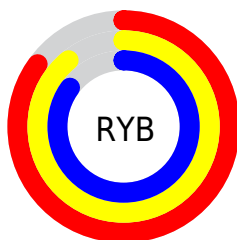
# Distribution



Red (89%)

Green (89%)

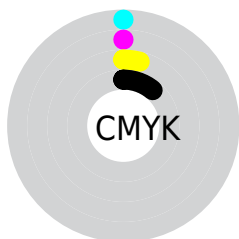
Blue (85%)



Red (85%)

Yellow (89%)

Blue (85%)

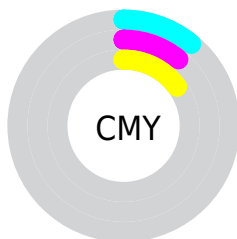


Cyan (0%)

Magenta (0%)

Yellow (4%)

Black (11%)



Cyan (11%)

Magenta (11%)


Yellow (15%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 90, 5.173, 109.742 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 90, 5.173, 109.742 by changing the saturation by 10% instead.




 90, 5.173, 109.742

 90, 5.173, 109.742

 100, 5.173,  
109.742

 80, 5.173, 109.742


 70, 5.173, 109.742

 60, 5.173, 109.742

 50, 5.173, 109.742


 40, 5.173, 109.742

 30, 5.173, 109.742


 20, 5.173, 109.742

 10, 5.173, 109.742

 0, 5.173, 109.742


 90, 5.173, 109.742

 90, 5.173, 109.742


 89, 16.905,  
108.799


 91, 6.598, 290.735


 89, 28.523,  
107.827


 91, 14.514,  
291.359


 89, 39.926,  
106.867


 91, 14.514,  
291.372


 88, 50.949,  
105.940

 91, 14.514,  
291.385


 88, 61.339,  
105.075


 91, 14.514,  
291.398


 88, 70.723,  
104.305

 91, 14.514,  
291.410


 88, 78.594,  
103.672

 91, 14.515,  
291.423

 88, 84.392,  
103.216

 91, 14.515,  
291.436

 88, 87.728,  
102.957

 91, 14.515,  
291.449

# Harmonies

# Complementary

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



90, 5.173, 109.742



87, 5.244, 290.644

# Rectangle

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



90, 5.173, 109.742



90, 5.173, 159.742



90, 5.173, 289.742



90, 5.173, 339.742

# Sweetspot

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



90, 5.175, 109.759



100, 1.282, 110.039



87, 3.631, 19.506



53, 0.729, 110.040



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



90, 5.175, 109.759



100, 6.453, 109.700



90, 5.506, 128.900



48, 4.038, 109.640



71, 74.153, 102.878



20, 29.318, 103.679



# Inverse Universe

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



87, 5.244, 290.644



96, 6.545, 290.707



87, 5.557, 309.238



46, 4.100, 290.773



21, 102.389, 306.288

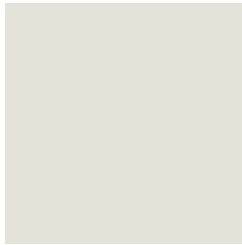


2, 33.678, 296.786



# Previews

## White Background



This preview shows how the CIE LCh color 90, 5.173, 109.742 looks on a white background.

## Color Contrast Check

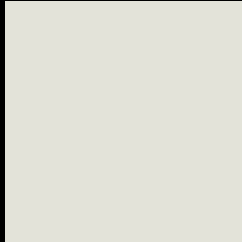
Large Text (above 18pt) WCAG AA × Fail

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 90, 5.173, 109.742 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

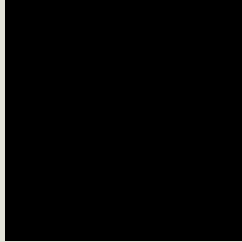
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

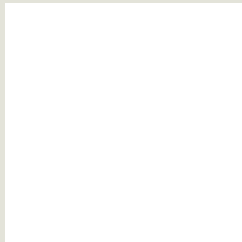
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 90, 5.173, 109.742**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 90, 5.173, 109.742.

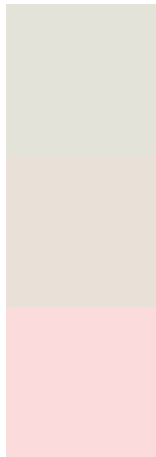


This preview shows how white text looks on a background with the CIELCh color 90, 5.173, 109.742.

# 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

90, 5.173, 109.742

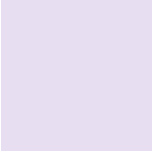
### Protanopia

90, 5.482, 77.557

### Deuteranopia

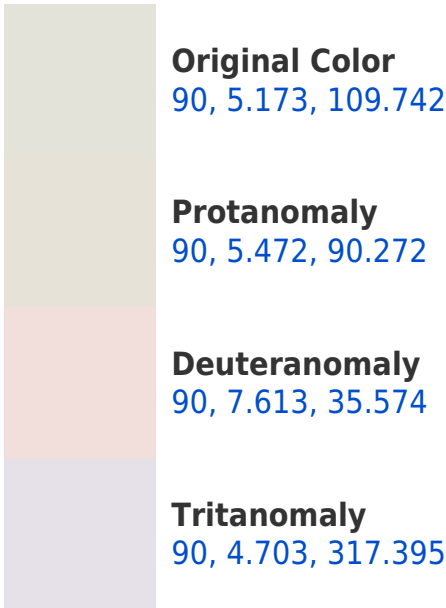
90, 11.782, 20.206



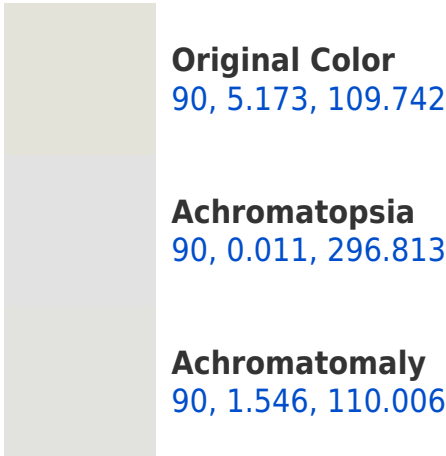


**Tritanopia**  
90, 9.816, 307.447

# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 90, 5.173, 109.742 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(227, 227, 217)` looks like.

```
.text, #text, p{  
    color:rgb(227, 227, 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(227, 227, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 227, 217) }
```

## Border

The CSS property to change the border of an element to CIELCh 90, 5.173, 109.742 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(227, 227, 217) }
```

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

```
.border{ border-color:rgb(227, 227, 217) }
```

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

Here you see how a box with a 4 pixel rgb(227, 227, 217) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 227, 217); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 227, 217);  
box-shadow:4px 4px 4px 4px rgb(227, 227,  
217) }
```

# Background

The CSS property to change the background color of an element to CIELCh 90, 5.173, 109.742 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 227, 217) }
```

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

```
.background{ background-color: rgb(227,  
227, 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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