

Converting Colors

CIELCh(90, 14.087, 109.643)

Have a look what the booklet for
CIELCh(90, 14.087, 109.643)
contains.

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Color

CIELCh(90, 13.952, 109.030)

Conversions

Conversions Part 1

Format	Color
Hex	E4E4C9
RGB	228, 228, 201
RGB Percent	89%, 89%, 79%
CMY	0.1053, 0.1053, 0.2112
CMYK	0.00, 0.00, 0.12, 0.11
HSL	60°, 33%, 84%
HSV	60°, 12%, 89%
XYZ	70.3792, 76.3034, 66.3606
YIQ	224.9220, 8.6670, -8.3970

Conversions

Conversions Part 2

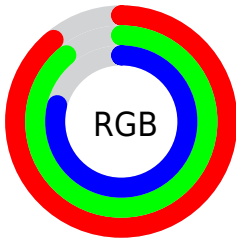
Format	Color
R _Y B	201, 228, 201
Decimal	15000777
CIE Lab	90.00, -4.55, 13.19
CIE LCh	90, 13.952, 109.030
Yxy	76.3034, 0.3304, 0.3582
Android (android.graphics.Color)	4293190857 (0xFFE4E4C9)
YUV	224.9220, -11.7935, 2.6994
Hunter-Lab	87.3518, -9.0484, 16.1040

Details

The CIELCh color **90, 13.952, 109.030** is a light color, and the websafe version is hex **FFFFCC**. A complement of this color would be **82, 14.339, 291.438**, 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, 14.145, 110.352** is the 20% darker color. If you saturate the color by 10%, you get **90, 25.655, 108.065**, and if you desaturate by 10%, it is **91, 2.161, 109.976**.

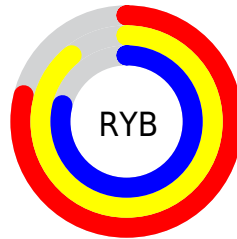
Distribution



Red (89%)

Green (89%)

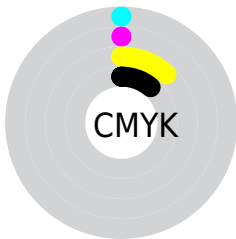
Blue (79%)



Red (79%)

Yellow (89%)

Blue (79%)

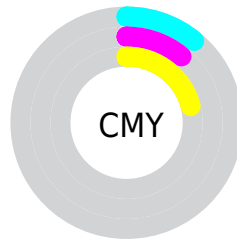


Cyan (0%)

Magenta (0%)

Yellow (12%)

Black (11%)



Cyan (11%)


Magenta (11%)


Yellow (21%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 90, 13.952, 109.030 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, 13.952, 109.030 by changing the saturation by 10% instead.


 90, 13.952,
109.030


 90, 13.952,
109.030


 100, 13.952,
109.030


 80, 13.952,
109.030


 70, 13.952,
109.030

 60, 13.952,
109.030

 50, 13.952,
109.030

 40, 13.952,
109.030

 30, 13.952,
109.030

 20, 13.952,

109.030

■ 10, 13.952,
109.030

■ 0, 13.952, 109.030

■ 90, 13.952,
109.030

■ 90, 13.952,
109.030

■ 90, 25.655,
108.065

■ 91, 2.161, 109.976

■ 89, 37.171,
107.099

■ 91, 9.662, 290.963

■ 89, 48.355,
106.160

■ 91, 13.928,
291.299

■ 89, 58.979,
105.276

■ 91, 13.928,
291.304

■ 91, 13.928,
291.309

■ 88, 68.701,
104.477

■ 91, 13.928,
291.314

■ 88, 77.045,
103.805

■ 91, 13.928,
291.320

■ 88, 83.445,
103.299

■ 91, 13.928,
291.325

■ 88, 87.437,
102.989

■ 91, 13.928,
291.330

■ 88, 89.091,
102.862

Harmonies

Complementary

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



90, 13.952, 109.030



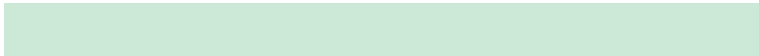
82, 14.339, 291.438

Rectangle

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



90, 13.952, 109.030



90, 13.952, 159.030



90, 13.952, 289.030



90, 13.952, 339.030

Sweetspot

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



90, 13.954, 109.037



100, 5.161, 109.784



83, 10.086, 20.126



53, 3.669, 109.713



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, 13.954, 109.037



99, 18.052, 108.819



89, 14.888, 128.548



48, 6.730, 109.267



71, 74.152, 102.862



20, 29.318, 103.664

Inverse Universe

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



82, 14.339, 291.438



89, 18.644, 291.703



83, 15.136, 309.598



44, 6.881, 291.168



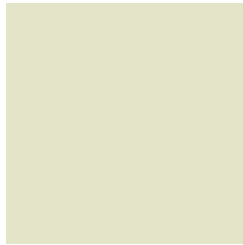
21, 102.390, 306.288



2, 33.677, 296.780

Previews

White Background



This preview shows how the CIELCh color 90, 13.952, 109.030 looks on a white background.

Color Contrast Check

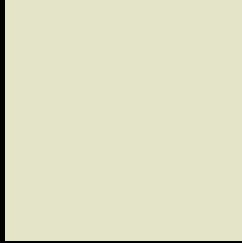
Large Text (above 18pt) WCAG AA × Fail

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, 13.952, 109.030 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

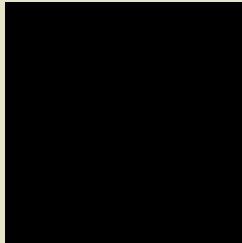
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

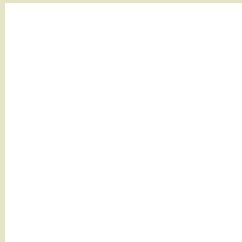
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 90, 13.952, 109.030

Background



This preview shows how black text looks on a background with the CIELCh color 90, 13.952, 109.030.



This preview shows how white text looks on a background with the CIELCh color 90, 13.952, 109.030.

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](#).

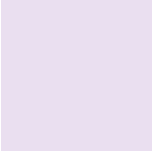
Dichromacy



Original Color
90, 13.952, 109.030

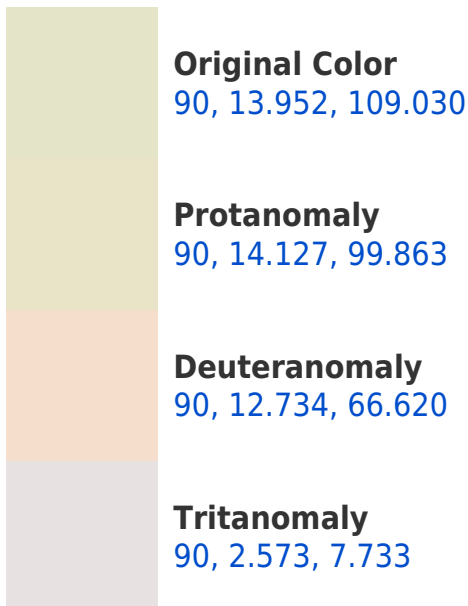
Protanopia
90, 13.953, 93.438

Deuteranopia
90, 15.463, 47.998



Tritanopia
90, 9.696, 314.309

Trichromacy



Monochromacy



CSS Examples

Text

The CSS property to change the color of the text to CIELCh 90, 13.952, 109.030 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, 228, 201)` looks like.

```
.text, #text, p{  
    color:rgb(228, 228, 201)  
}
```

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, 228, 201) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 228, 201) }
```

Border

The CSS property to change the border of an element to CIELCh 90, 13.952, 109.030 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, 228, 201) }
```

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

```
.border{ border-color:rgb(228, 228, 201) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 228, 201)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 228, 201); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 228, 201);  
box-shadow:4px 4px 4px 4px rgb(228, 228,  
201) }
```

Background

The CSS property to change the background color of an element to CIELCh 90, 13.952, 109.030 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 228, 201) }
```

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

```
.background{ background-color: rgb(228,  
228, 201) }
```

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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