

Converting Colors

CIELCh(90, 13.365, 108.923)

Have a look what the booklet for
CIELCh(90, 13.365, 108.923)
contains.

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Color

CIELCh(90, 13.436, 109.072)

Conversions

Conversions Part 1

Format	Color
Hex	E4E4CA
RGB	228, 228, 202
RGB Percent	89%, 89%, 79%
CMY	0.1056, 0.1056, 0.2075
CMYK	0.00, 0.00, 0.11, 0.11
HSL	60°, 33%, 84%
HSV	60°, 11%, 89%
XYZ	70.4534, 76.3034, 66.9388
YIQ	225.0360, 8.3460, -8.0860

Conversions

Conversions Part 2

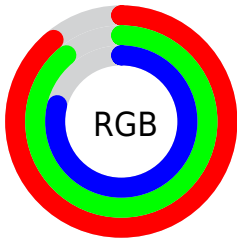
Format	Color
R _Y B	202, 228, 202
Decimal	15000778
CIE Lab	90.00, -4.39, 12.70
CIE LCh	90, 13.436, 109.072
Yxy	76.3034, 0.3297, 0.3571
Android (android.graphics.Color)	4293190858 (0xFFE4E4CA)
YUV	225.0360, -11.3567, 2.5994
Hunter-Lab	87.3518, -8.8968, 15.7116

Details

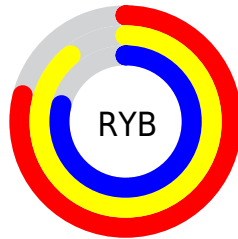
The CIELCh color **90, 13.436, 109.072** is a light color, and the websafe version is hex **FFFFCC**. A complement of this color would be **82, 13.796, 291.388**, and the grayscale version is **90, 0.011, 296.813**.

A 20% lighter version of the original color is **100, 0.012, 296.813**, and **70, 13.604, 110.468** is the 20% darker color. If you saturate the color by 10%, you get **90, 25.142, 108.107**, and if you desaturate by 10%, it is **91, 1.645, 110.008**.

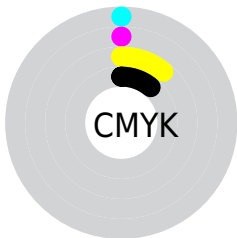
Distribution



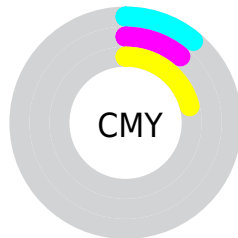
- Red (89%)
- Green (89%)
- Blue (79%)



- Red (79%)
- Yellow (89%)
- Blue (79%)



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





- Cyan (11%)
- Magenta (11%)
- Yellow (21%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 90, 13.436, 109.072 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, 13.436, 109.072 by changing the saturation by 10% instead.


 90, 13.436,
109.072


 90, 13.436,
109.072


 100, 13.436,
109.072


 80, 13.436,
109.072


 70, 13.436,
109.072

 60, 13.436,
109.072

 50, 13.436,
109.072

 40, 13.436,
109.072

 30, 13.436,
109.072

 20, 13.436,

109.072

■ 10, 13.436,
109.072

■ 0, 13.436, 109.072

■ 90, 13.436,
109.072

■ 90, 13.436,
109.072

■ 90, 25.142,
108.107

■ 91, 1.645, 110.008

■ 89, 36.667,
107.141

■ 91, 10.175,
291.003

■ 89, 47.867,
106.200

■ 91, 13.961,
291.302

■ 89, 58.519,
105.313

■ 91, 13.961,
291.307

■ 91, 13.961,

■ 88, 68.287,
104.510

291.312

■ 88, 76.701,
103.831

■ 91, 13.961,
291.317

■ 88, 83.196,
103.317

■ 91, 13.961,
291.322

■ 88, 87.298,
102.998

■ 91, 13.961,
291.328

■ 88, 89.072,
102.862

■ 91, 13.961,
291.333

Harmonies

Complementary

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



90, 13.436, 109.072



82, 13.796, 291.388

Rectangle

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



90, 13.436, 109.072



90, 13.436, 159.072



90, 13.436, 289.072



90, 13.436, 339.072

Sweetspot

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



90, 13.438, 109.079



100, 3.868, 109.876



83, 9.695, 20.090



53, 2.934, 109.802



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, 13.438, 109.079



99, 18.052, 108.819



89, 14.335, 128.569



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, 13.796, 291.388



89, 18.644, 291.703



83, 14.566, 309.576



44, 6.881, 291.168



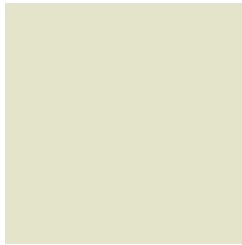
21, 102.390, 306.288



2, 33.677, 296.780

Previews

White Background



This preview shows how the CIELCh color 90, 13.436, 109.072 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, 13.436, 109.072 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

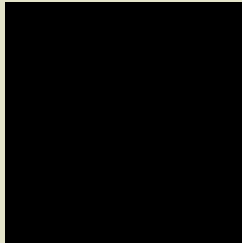
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

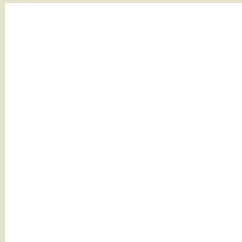
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 90, 13.436, 109.072

Background



This preview shows how black text looks on a background with the CIELCh color 90, 13.436, 109.072.

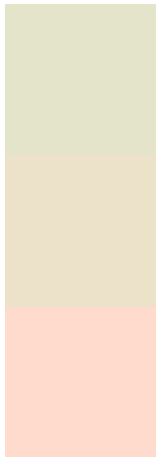


This preview shows how white text looks on a background with the CIELCh color 90, 13.436, 109.072.

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](#).

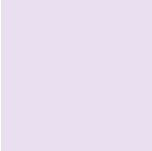
Dichromacy



Original Color
90, 13.436, 109.072

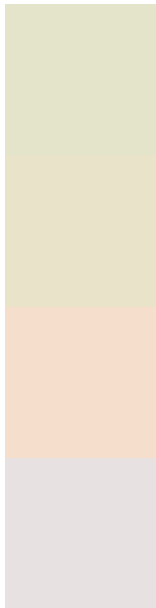
Protanopia
90, 13.454, 92.912

Deuteranopia
90, 15.463, 47.998



Tritanopia
90, 9.559, 312.370

Trichromacy



Original Color
90, 13.436, 109.072

Protanomaly
90, 13.617, 99.575

Deuteranomaly
90, 12.734, 66.620

Tritanomaly
90, 2.222, 5.793

Monochromacy



Original Color
90, 13.436, 109.072

Achromatopsia
90, 0.011, 296.813

Achromatomaly
90, 4.659, 109.781

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 90, 13.436, 109.072 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, 202)` looks like.

```
.text, #text, p{  
    color:rgb(228, 228, 202)  
}
```

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, 202) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 228, 202) }
```

Border

The CSS property to change the border of an element to CIELCh 90, 13.436, 109.072 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, 202) }
```

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

```
.border{ border-color:rgb(228, 228, 202) }
```

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, 202)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 228, 202); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 228, 202);  
box-shadow:4px 4px 4px 4px rgb(228, 228,  
202) }
```

Background

The CSS property to change the background color of an element to CIELCh 90, 13.436, 109.072 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, 202) }
```

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

```
.background{ background-color: rgb(228,  
228, 202) }
```

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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