

Converting Colors

CIELCh(88, 4.610, 109.792)

Have a look what the booklet for
CIELCh(88, 4.610, 109.792) contains.

CIELCh(88, 4.678, 109.774)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(88, 4.678, 109.774)

Conversions

Conversions Part 1

Format	Color
Hex	DDDDD4
RGB	221, 221, 212
RGB Percent	87%, 87%, 83%
CMY	0.1321, 0.1321, 0.1674
CMYK	0.00, 0.00, 0.04, 0.13
HSL	60°, 12%, 85%
HSV	60°, 4%, 87%
XYZ	67.7730, 72.0653, 72.8284
YIQ	219.9740, 2.8890, -2.7990

Conversions

Conversions Part 2

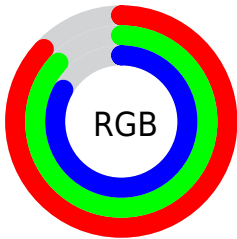
Format	Color
R _Y B	212, 221, 212
Decimal	14540244
CIE Lab	88.00, -1.58, 4.40
CIE LCh	88, 4.678, 109.774
Yxy	72.0653, 0.3187, 0.3389
Android (android.graphics.Color)	4292730324 (0xFFDDDDD4)
YUV	219.9740, -3.9312, 0.8998
Hunter-Lab	84.8913, -6.0542, 8.5589

Details

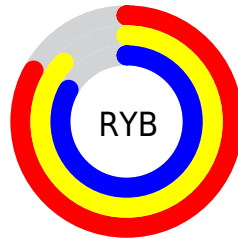
The CIELCh color **88, 4.678, 109.774** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **85, 4.741, 290.611**, and the grayscale version is **88, 0.010, 296.813**.

A 20% lighter version of the original color is **100, 0.012, 296.813**, and **68, 4.936, 109.657** is the 20% darker color. If you saturate the color by 10%, you get **87, 16.172, 108.835**, and if you desaturate by 10%, it is **89, 6.852, 290.767**.

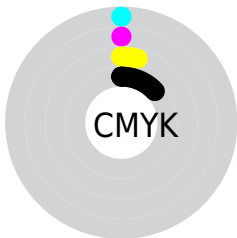
Distribution



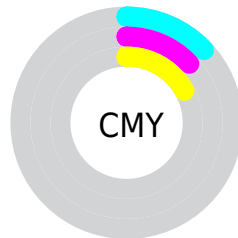
- Red (87%)
- Green (87%)
- Blue (83%)



- Red (83%)
- Yellow (87%)
- Blue (83%)



- Cyan (0%)
- Magenta (0%)
- Yellow (4%)
- Black (13%)



- Cyan (13%)
- Magenta (13%)
- Yellow (17%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 88, 4.678, 109.774 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 88, 4.678, 109.774 by changing the saturation by 10% instead.

■ 88, 4.678, 109.774

■ 88, 4.678, 109.774

■ 100, 4.678,
109.774

■ 78, 4.678, 109.774

■ 68, 4.678, 109.774

■ 58, 4.678, 109.774

■ 48, 4.678, 109.774

■ 38, 4.678, 109.774

■ 28, 4.678, 109.774

■ 18, 4.678, 109.774

■ 8, 4.678, 109.774

■ 0, 4.678, 109.774

88, 4.678, 109.774

88, 4.678, 109.774

87, 16.172,
108.835

89, 6.852, 290.767

87, 27.557,
107.865

89, 17.564,
291.620

87, 38.737,
106.905

89, 17.564,
291.631

86, 49.552,
105.978

89, 17.564,
291.642

86, 59.761,
105.111

89, 17.565,
291.653

86, 69.003,
104.338

89, 17.565,
291.664

86, 76.791,
103.699

89, 17.565,
291.675

86, 82.573,
103.234

89, 17.565,
291.686

■ 86, 85.956,
102.967

■ 89, 17.565,
291.697

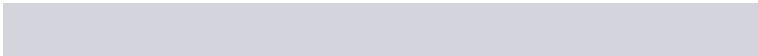
Harmonies

Complementary

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



88, 4.678, 109.774



85, 4.741, 290.611

Rectangle

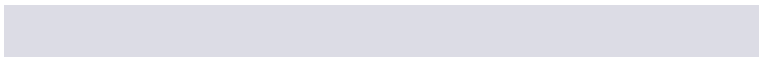
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



88, 4.678, 109.774



88, 4.678, 159.774



88, 4.678, 289.774



88, 4.678, 339.774

Sweetspot

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



88, 4.680, 109.792



100, 1.282, 110.040



86, 3.280, 19.470



53, 0.729, 110.042



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



88, 4.680, 109.792



100, 6.453, 109.702



88, 4.978, 128.917



46, 3.890, 109.644



69, 72.577, 102.880



18, 26.501, 104.188

Inverse Universe

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



85, 4.741, 290.611



96, 6.545, 290.708



86, 5.024, 309.221



44, 3.949, 290.771



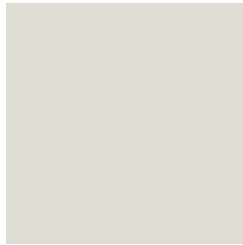
20, 100.213, 306.289



2, 29.602, 294.927

Previews

White Background



This preview shows how the CIELCh color 88, 4.678, 109.774 looks on a white background.

Color Contrast Check

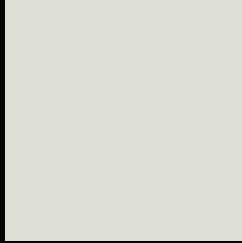
Large Text (above 18pt) WCAG AA × Fail

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 88, 4.678, 109.774 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

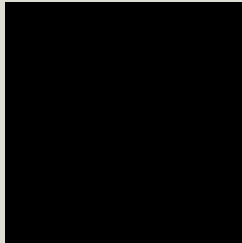
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

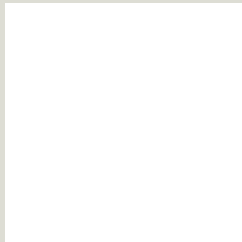
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 88, 4.678, 109.774

Background



This preview shows how black text looks on a background with the CIELCh color 88, 4.678, 109.774.

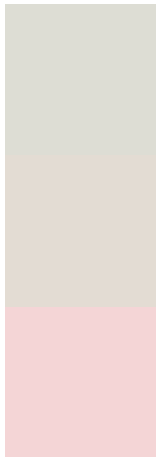


This preview shows how white text looks on a background with the CIELCh color 88, 4.678, 109.774.

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

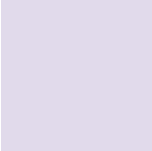
88, 4.678, 109.774

Protanopia

88, 5.320, 80.917

Deuteranopia

88, 11.464, 17.614



Tritanopia
88, 9.256, 306.275

Trichromacy



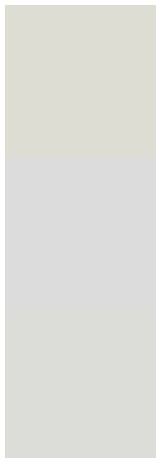
Original Color
88, 4.678, 109.774

Protanomaly
88, 5.011, 88.342

Deuteranomaly
88, 7.520, 31.798

Tritanomaly
88, 4.570, 313.419

Monochromacy



Original Color
88, 4.678, 109.774

Achromatopsia
88, 0.010, 296.813

Achromatomaly
88, 1.554, 110.004

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 88, 4.678, 109.774 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(221, 221, 212)` looks like.

```
.text, #text, p{  
    color:rgb(221, 221, 212)  
}
```

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(221, 221, 212) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 221, 212) }
```

Border

The CSS property to change the border of an element to CIELCh 88, 4.678, 109.774 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(221, 221, 212) }
```

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

```
.border{ border-color:rgb(221, 221, 212) }
```

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

Here you see how a box with a 4 pixel `rgb(221, 221, 212)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 221, 212); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 221, 212);  
box-shadow:4px 4px 4px 4px rgb(221, 221,  
212) }
```

Background

The CSS property to change the background color of an element to CIELCh 88, 4.678, 109.774 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 221, 212) }
```

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

```
.background{ background-color: rgb(221,  
221, 212) }
```

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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