

Converting Colors

CIELCh(89, 0.007, 92.797)

Have a look what the booklet for
CIELCh(89, 0.007, 92.797) contains.

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Color

CIELCh(89, 0.509, 109.998)

Conversions

Conversions Part 1

Format	Color
Hex	E0E0DF
RGB	224, 224, 223
RGB Percent	88%, 88%, 87%
CMY	0.1232, 0.1232, 0.1272
CMYK	0.00, 0.00, 0.00, 0.12
HSL	60°, 2%, 87%
HSV	60°, 0%, 88%
XYZ	70.4095, 74.1641, 80.1138
YIQ	223.8860, 0.3210, -0.3110

Conversions

Conversions Part 2

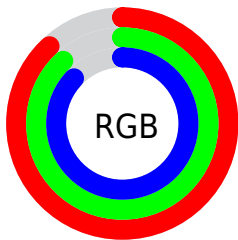
Format	Color
R _Y B	223, 224, 223
Decimal	14737631
CIE Lab	89.00, -0.17, 0.48
CIE LCh	89, 0.509, 109.998
Yxy	74.1641, 0.3134, 0.3301
Android (android.graphics.Color)	4292927711 (0xFFE0E0DF)
YUV	223.8860, -0.4368, 0.1000
Hunter-Lab	86.1186, -4.7682, 5.1272

Details

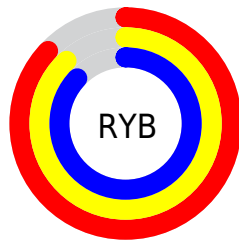
The CIELCh color $89, 0.509, 109.998$ is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be $89, 0.532, 290.502$, and the grayscale version is $89, 0.011, 296.813$.

A 20% lighter version of the original color is $100, 0.012, 296.813$, and $69, 0.539, 110.018$ is the 20% darker color. If you saturate the color by 10%, you get $88, 12.119, 109.326$, and if you desaturate by 10%, it is $90, 11.121, 291.231$.

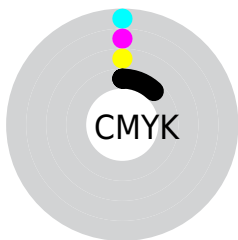
Distribution



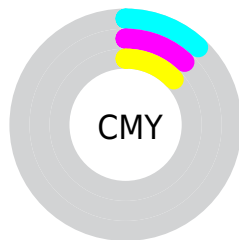
- Red (88%)
- Green (88%)
- Blue (87%)



- Red (87%)
- Yellow (88%)
- Blue (87%)



- Cyan (0%)
- Magenta (0%)
- Yellow (0%)
- Black (12%)



- Cyan (12%)
- Magenta (12%)
- Yellow (13%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 89, 0.509, 109.998 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 89, 0.509, 109.998 by changing the saturation by 10% instead.

■ 89, 0.509, 109.998

■ 89, 0.509, 109.998

100, 0.509,
109.998

■ 79, 0.509, 109.998

■ 69, 0.509, 109.998

■ 59, 0.509, 109.998

■ 49, 0.509, 109.998

■ 39, 0.509, 109.998

■ 29, 0.509, 109.998

■ 19, 0.509, 109.998

■ 9, 0.509, 109.998

■ 0, 0.509, 109.998

89, 0.509, 109.998

89, 0.509, 109.998

88, 12.119,
109.326

90, 11.121,
291.231

88, 23.648,
108.361

90, 16.356,
291.698

88, 35.009,
107.400

90, 16.357,
291.800

87, 46.069,
106.463

90, 16.358,
291.903

87, 56.617,
105.576

90, 16.358,
292.005

87, 66.336,
104.770

90, 16.359,
292.108

87, 74.777,
104.086

90, 16.360,
292.211

86, 81.391,
103.565

90, 16.361,
292.313

■ 86, 85.688,
103.239

■ 90, 16.361,
292.416

Harmonies

Complementary

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



89, 0.509, 109.998



89, 0.532, 290.502

Rectangle

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



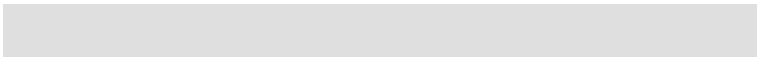
89, 0.509, 109.998



89, 0.509, 159.998



89, 0.509, 289.998



89, 0.509, 339.998

Sweetspot

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



89, 0.511, 110.155

100, 0.012, 296.813



89, 0.361, 17.773



53, 0.007, 296.813



0, 0.000, 0.000

Same Dimension

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



89, 0.511, 110.155



100, 1.282, 110.177



89, 0.543, 129.285



47, 0.656, 110.179



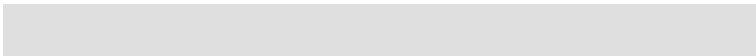
70, 73.368, 103.093



19, 27.932, 104.105

Inverse Universe

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



89, 0.532, 290.502



99, 1.308, 290.485



89, 0.564, 308.861



47, 0.670, 290.483



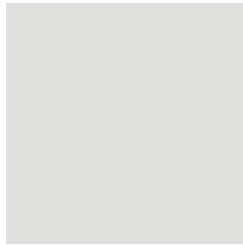
21, 101.285, 306.299



2, 31.639, 295.924

Previews

White Background



This preview shows how the CIELCh color 89, 0.509, 109.998 looks on a white background.

Color Contrast Check

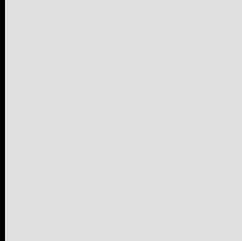
Large Text (above 18pt) WCAG AA × Fail

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 89, 0.509, 109.998 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

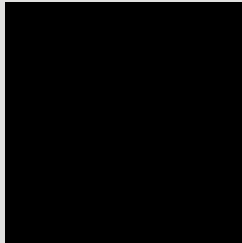
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

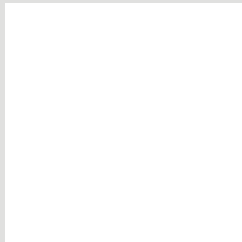
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 89, 0.509, 109.998

Background



This preview shows how black text looks on a background with the CIELCh color 89, 0.509, 109.998.

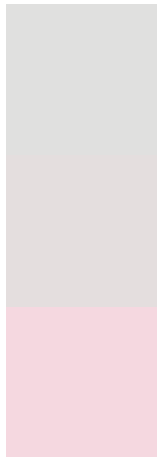


This preview shows how white text looks on a background with the CIELCh color 89, 0.509, 109.998.

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

89, 0.509, 109.998

Protanopia

89, 2.161, 19.283

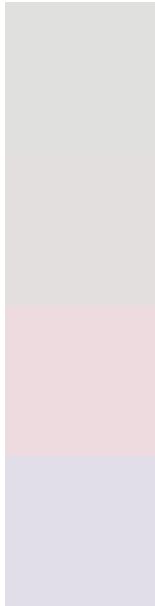
Deuteranopia

89, 11.345, 358.764



Tritanopia
89, 9.577, 301.421

Trichromacy



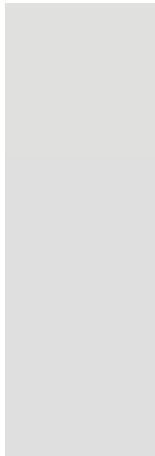
Original Color
89, 0.509, 109.998

Protanomaly
89, 1.188, 44.854

Deuteranomaly
89, 6.857, 2.202

Tritanomaly
89, 5.851, 301.051

Monochromacy



Original Color
89, 0.509, 109.998

Achromatopsia
89, 0.011, 296.813

Achromatomaly
89, 0.011, 296.813

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 89, 0.509, 109.998 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(224, 224, 223)` looks like.

```
.text, #text, p{  
    color:rgb(224, 224, 223)  
}
```

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(224, 224, 223) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(224, 224, 223) }
```

Border

The CSS property to change the border of an element to CIELCh 89, 0.509, 109.998 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(224, 224, 223) }
```

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

```
.border{ border-color:rgb(224, 224, 223) }
```

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

Here you see how a box with a 4 pixel `rgb(224, 224, 223)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(224, 224, 223); -webkit-box-  
shadow:4px 4px 4px 4px rgb(224, 224, 223);  
box-shadow:4px 4px 4px 4px rgb(224, 224,  
223) }
```

Background

The CSS property to change the background color of an element to CIELCh 89, 0.509, 109.998 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(224, 224, 223) }
```

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

```
.background{ background-color: rgb(224,  
224, 223) }
```

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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