

# Converting Colors

CIELCh(90, 4.719, 38.592)

Have a look what the booklet for  
CIELCh(90, 4.719, 38.592) contains.

<b>CIELCh(90, 4.614, 39.218)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	20
<i><b>Color Blindness Simulation</b></i> .....	23
<i><b>CSS Examples</b></i> .....	26

# **Color**

**CIELCh(90, 4.614, 39.218)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ECE0DD
RGB	236, 224, 221
RGB Percent	93%, 88%, 87%
CMY	0.0748, 0.1219, 0.1336
CMYK	0.00, 0.05, 0.06, 0.07
HSL	12°, 28%, 90%
HSV	12°, 6%, 93%
XYZ	74.2396, 76.3034, 79.1660
YIQ	227.2460, 8.1150, 1.6110

# Conversions

## Conversions Part 2

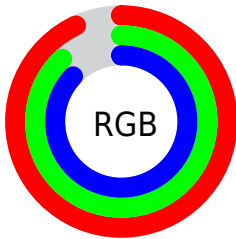
Format	Color
R <sub>Y</sub> B	236, 225, 221
Decimal	15524061
CIE Lab	90.00, 3.57, 2.92
CIE LCh	90, 4.614, 39.218
Yxy	76.3034, 0.3232, 0.3322
Android (android.graphics.Color)	4293714141 (0xFFECE0DD)
YUV	227.2460, -3.0793, 7.6773
Hunter-Lab	87.3518, -1.1598, 7.4124

# Details

The CIELCh color **90, 4.614, 39.218** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **92, 4.438, 219.817**, 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, 4.520, 40.836** is the 20% darker color. If you saturate the color by 10%, you get **85, 12.371, 39.203**, and if you desaturate by 10%, it is **95, 2.544, 219.844**.

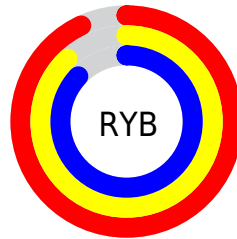
# Distribution



Red (93%)

Green (88%)

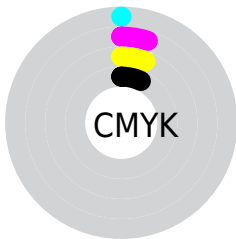
Blue (87%)



Red (93%)

Yellow (88%)

Blue (87%)

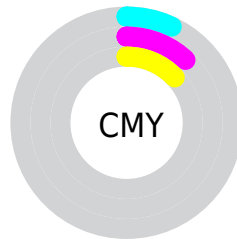


Cyan (0%)

Magenta (5%)

Yellow (6%)

Black (7%)



Cyan (7%)

Magenta (12%)

Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 90, 4.614, 39.218 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, 4.614, 39.218 by changing the saturation by 10% instead.



90, 4.614, 39.218

90, 4.614, 39.218

100, 4.614, 39.218

80, 4.614, 39.218

70, 4.614, 39.218

60, 4.614, 39.218

50, 4.614, 39.218

40, 4.614, 39.218

30, 4.614, 39.218

20, 4.614, 39.218

10, 4.614, 39.218

0, 4.614, 39.218

90, 4.614, 39.218

90, 4.614, 39.218

85, 12.371, 39.203

95, 2.544, 219.844

80, 20.789, 39.214

99, 6.542, 199.092

75, 29.907, 39.369

70, 39.739, 39.715

65, 50.240, 40.287

61, 61.268, 41.096

58, 72.481, 42.073

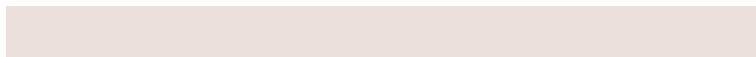
55, 83.105, 42.961

52, 91.516, 43.125

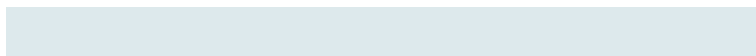
# Harmonies

# Complementary

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



90, 4.614, 39.218



92, 4.438, 219.817

# Rectangle

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



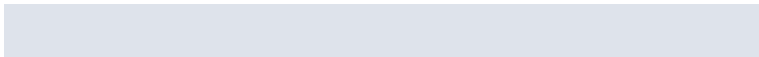
90, 4.614, 39.218



90, 4.614, 89.218



90, 4.614, 219.218



90, 4.614, 269.218

# Sweetspot

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



90, 4.613, 39.249



99, 1.517, 39.039



90, 8.258, 330.881



53, 0.862, 39.018



0, 0.000, 0.000



53, 0.007, 296.813

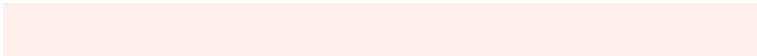


# Same Dimension

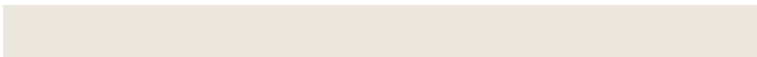
The Same Dimension uses a secret algorithm to generate beautiful new colors.



90, 4.613, 39.249



95, 6.226, 39.249



92, 5.637, 92.881



46, 4.156, 39.243



40, 76.689, 43.547



9, 24.926, 34.214





# Inverse Universe

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



92, 4.438, 219.817



98, 5.924, 219.842



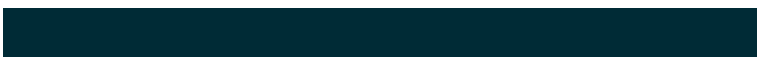
90, 5.660, 274.542



48, 3.918, 219.876



56, 33.974, 235.564

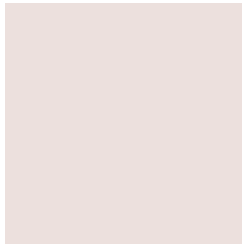


15, 14.422, 229.172



# Previews

## White Background



This preview shows how the CIELCh color 90, 4.614, 39.218 looks on a white background.

## Color Contrast Check

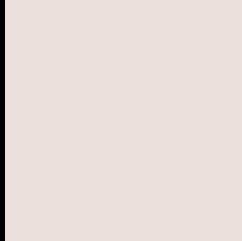
Large Text (above 18pt) WCAG AA × Fail

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, 4.614, 39.218 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

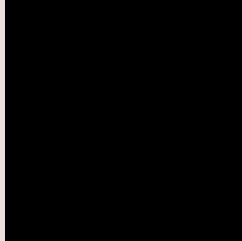
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

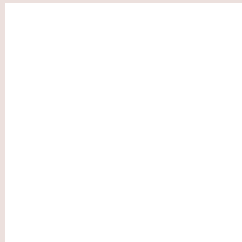
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 90, 4.614, 39.218

## Background



This preview shows how black text looks on a background with the CIELCh color 90, 4.614, 39.218.

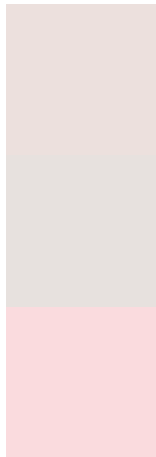


This preview shows how white text looks on a background with the CIELCh color 90, 4.614, 39.218.

# 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, 4.614, 39.218

### Protanopia

90, 2.650, 55.183

### Deuteranopia

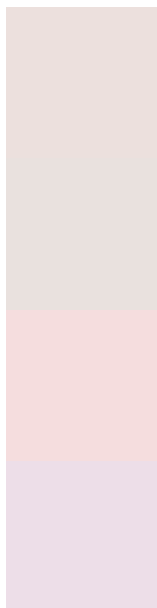
90, 11.456, 12.428



**Tritanopia**  
90, 11.175, 323.310



# Trichromacy



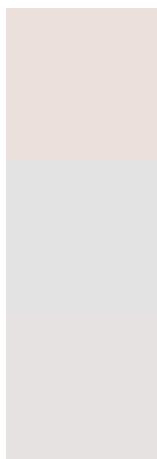
**Original Color**  
90, 4.614, 39.218

**Protanomaly**  
90, 3.269, 47.758

**Deuteranomaly**  
90, 8.775, 16.596

**Tritanomaly**  
90, 7.499, 336.058

# Monochromacy



**Original Color**  
90, 4.614, 39.218

**Achromatopsia**  
90, 0.011, 296.813

**Achromatomaly**  
90, 1.518, 39.036

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 90, 4.614, 39.218 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(236, 224, 221)` looks like.

```
.text, #text, p{  
    color:rgb(236, 224, 221)  
}
```

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(236, 224, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 224, 221) }
```

## Border

The CSS property to change the border of an element to CIELCh 90, 4.614, 39.218 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(236, 224, 221) }
```

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

```
.border{ border-color:rgb(236, 224, 221) }
```

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

Here you see how a box with a 4 pixel `rgb(236, 224, 221)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 224, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 224, 221);  
box-shadow:4px 4px 4px 4px rgb(236, 224,  
221) }
```

# Background

The CSS property to change the background color of an element to CIELCh 90, 4.614, 39.218 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 224, 221) }
```

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

```
.background{ background-color: rgb(236,  
224, 221) }
```

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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