

# Converting Colors

CIELCh(90, 3.742, 331.891)

Have a look what the booklet for  
CIELCh(90, 3.742, 331.891) contains.

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# Color

**CIELCh(90, 4.023, 328.710)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E7E0E6
RGB	231, 224, 230
RGB Percent	91%, 88%, 90%
CMY	0.0926, 0.1201, 0.0965
CMYK	0.00, 0.03, 0.00, 0.09
HSL	309°, 13%, 89%
HSV	309°, 3%, 91%
XYZ	74.1735, 76.3034, 85.9636
YIQ	226.7770, 2.2460, 3.3500

# Conversions

## Conversions Part 2

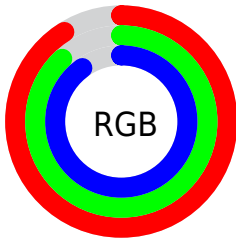
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	231, 224, 230
Decimal	15196390
CIE Lab	90.00, 3.44, -2.09
CIE LCh	90, 4.023, 328.710
Yxy	76.3034, 0.3137, 0.3227
Android (android.graphics.Color)	4293386470 (0xFFE7E0E6)
YUV	226.7770, 1.5889, 3.7036
Hunter-Lab	87.3518, -1.2950, 2.7985

# Details

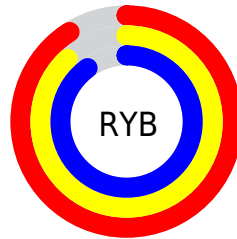
The CIELCh color **90, 4.023, 328.710** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **91, 4.001, 148.514**, and the grayscale version is **90, 0.011, 296.813**.

A 20% lighter version of the original color is **100, 0.012, 296.813**, and **70, 4.009, 324.569** is the 20% darker color. If you saturate the color by 10%, you get **84, 17.411, 329.376**, and if you desaturate by 10%, it is **96, 9.145, 148.248**.

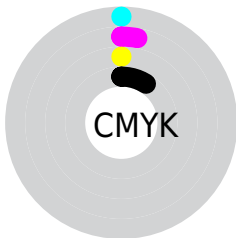
# Distribution



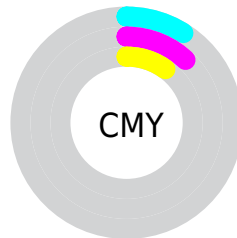
- Red (91%)
- Green (88%)
- Blue (90%)



- Red (91%)
- Yellow (88%)
- Blue (90%)



- Cyan (0%)
- Magenta (3%)
- Yellow (0%)
- Black (9%)



- Cyan (9%)
- Magenta (12%)
- Yellow (10%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 90, 4.023, 328.710 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, 4.023, 328.710 by changing the saturation by 10% instead.



90, 4.023, 328.710

90, 4.023, 328.710

100, 4.023,  
328.710

80, 4.023, 328.710

70, 4.023, 328.710

60, 4.023, 328.710

50, 4.023, 328.710

40, 4.023, 328.710

30, 4.023, 328.710

20, 4.023, 328.710

10, 4.023, 328.710

0, 4.023, 328.710

90, 4.023, 328.710

90, 4.023, 328.710

84, 17.411,  
329.376

96, 9.145, 148.248

79, 30.871,  
330.000

98, 12.451,  
151.288

73, 44.157,  
330.629

98, 11.227,  
156.947

68, 56.923,  
331.261

98, 10.133,  
163.879

64, 68.703,  
331.892

98, 9.213, 172.312

60, 78.937,  
332.521

98, 8.525, 182.331

57, 87.041,  
333.153

98, 8.060, 198.978

55, 92.545,  
333.800

■ 54, 95.265,  
334.484

# Harmonies

# Complementary

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



90, 4.023, 328.710



91, 4.001, 148.514

# Rectangle

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



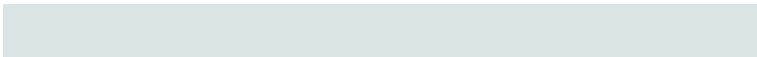
90, 4.023, 328.710



90, 4.023, 18.710



90, 4.023, 148.710



90, 4.023, 198.710

# Sweetspot

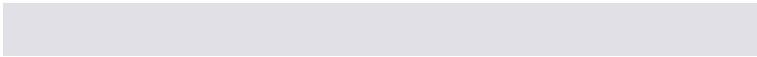
The Sweet Spot groups the original color and five complimentary colors.



90, 4.020, 328.712



99, 1.442, 328.430



90, 3.668, 295.647



53, 0.820, 328.415



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, 4.020, 328.712



97, 5.755, 328.791



90, 2.857, 351.605



47, 3.752, 328.842



41, 79.093, 334.860



8, 33.761, 333.700



# Inverse Universe

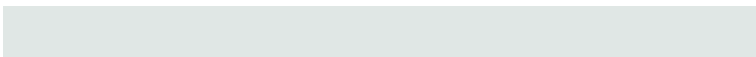
The Inverse Universe completely reimagines the original color for something new.



90, 4.020, 328.712



97, 5.755, 328.791



91, 2.826, 171.418



47, 3.752, 328.842



41, 79.093, 334.860

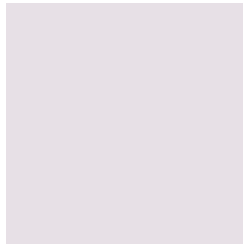


8, 33.761, 333.700



# Previews

## White Background



This preview shows how the CIELCh color 90, 4.023, 328.710 looks on a white background.

## Color Contrast Check

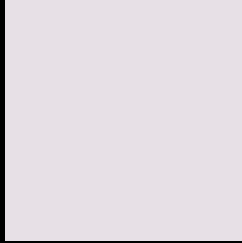
Large Text (above 18pt) WCAG AA × Fail

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, 4.023, 328.710 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

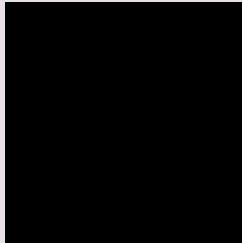
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

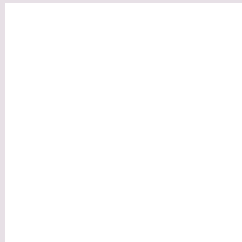
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 90, 4.023, 328.710

## Background



This preview shows how black text looks on a background with the CIELCh color 90, 4.023, 328.710.

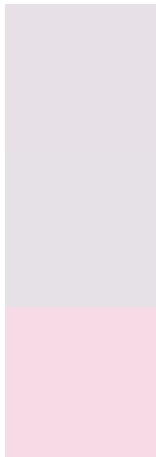


This preview shows how white text looks on a background with the CIELCh color 90, 4.023, 328.710.

# 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

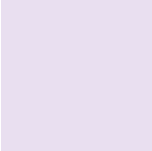


**Original Color**  
90, 4.023, 328.710

**Protanopia**  
90, 3.451, 314.721

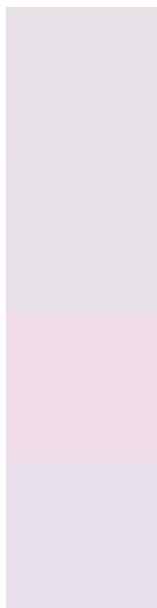
**Deuteranopia**  
90, 11.565, 347.695





**Tritanopia**  
90, 9.559, 312.370

# Trichromacy



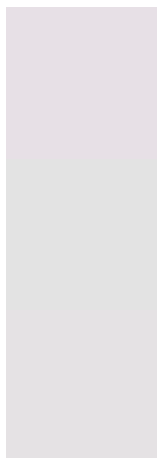
**Original Color**  
90, 4.023, 328.710

**Protanomaly**  
90, 3.615, 319.850

**Deuteranomaly**  
90, 8.886, 344.293

**Tritanomaly**  
90, 7.361, 313.198

# Monochromacy



**Original Color**  
90, 4.023, 328.710

**Achromatopsia**  
90, 0.011, 296.813

**Achromatomaly**  
90, 1.508, 335.501

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 90, 4.023, 328.710 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(231, 224, 230)` looks like.

```
.text, #text, p{  
    color:rgb(231, 224, 230)  
}
```

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(231, 224, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 224, 230) }
```

## Border

The CSS property to change the border of an element to CIELCh 90, 4.023, 328.710 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(231, 224, 230) }
```

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

```
.border{ border-color:rgb(231, 224, 230) }
```

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

Here you see how a box with a 4 pixel `rgb(231, 224, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 224, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 224, 230);  
box-shadow:4px 4px 4px 4px rgb(231, 224,  
230) }
```

# Background

The CSS property to change the background color of an element to CIELCh 90, 4.023, 328.710 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 224, 230) }
```

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

```
.background{ background-color: rgb(231,  
224, 230) }
```

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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