

# Converting Colors

CIELCh(90, 12.455, 289.583)

Have a look what the booklet for  
CIELCh(90, 12.455, 289.583)  
contains.

<b>CIELCh(90, 12.480, 289.622)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# Color

**CIELCh(90, 12.480, 289.622)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E0E1F9
RGB	224, 225, 249
RGB Percent	88%, 88%, 98%
CMY	0.1228, 0.1188, 0.0248
CMYK	0.10, 0.10, 0.00, 0.02
HSL	238°, 66%, 93%
HSV	238°, 10%, 98%
XYZ	74.5381, 76.3034, 100.1664
YIQ	227.4370, -8.3000, 7.2520

# Conversions

## Conversions Part 2

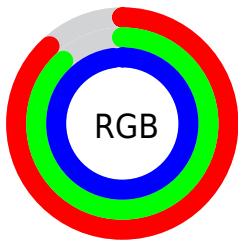
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	224, 225, 249
Decimal	14737913
CIE Lab	90.00, 4.19, -11.76
CIE LCh	90, 12.480, 289.622
Yxy	76.3034, 0.2970, 0.3040
Android (android.graphics.Color)	4292927993 (0xFFE0E1F9)
YUV	227.4370, 10.6306, -3.0142
Hunter-Lab	87.3518, -0.5499, -6.8416

# Details

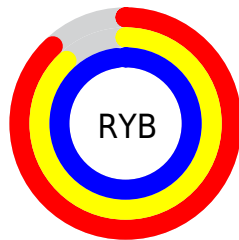
The CIELCh color `90, 12.480, 289.622` is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be `97, 12.210, 107.518`, and the grayscale version is `90, 0.011, 296.813`.

A 20% lighter version of the original color is `100, 0.012, 296.813`, and `70, 12.599, 289.812` is the 20% darker color. If you saturate the color by 10%, you get `82, 25.383, 290.880`, and if you desaturate by 10%, it is `98, 0.072, 289.844`.

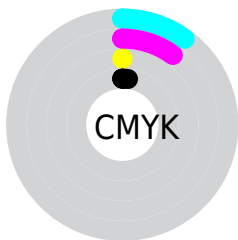
# Distribution



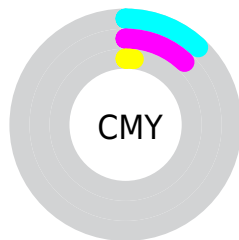
- Red (88%)
- Green (88%)
- Blue (98%)



- Red (88%)
- Yellow (88%)
- Blue (98%)



- Cyan (10%)
- Magenta (10%)
- Yellow (0%)
- Black (2%)




- Cyan (12%)
- Magenta (12%)
- Yellow (2%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 90, 12.480, 289.622 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, 12.480, 289.622 by changing the saturation by 10% instead.





 90, 12.480,  
289.622


 90, 12.480,  
289.622


 100, 12.480,  
289.622


 80, 12.480,  
289.622


 70, 12.480,  
289.622

 60, 12.480,  
289.622

 50, 12.480,  
289.622

 40, 12.480,  
289.622

 30, 12.480,  
289.622

 20, 12.480,

289.622

■ 10, 12.480,  
289.622

■ 0, 12.480, 289.622

■ 90, 12.480,  
289.622

■ 90, 12.480,  
289.622

■ 82, 25.383,  
290.880

■ 98, 0.072, 289.844

■ 74, 38.829,  
292.371

■ 100, 3.190,  
109.916

■ 67, 52.851,  
294.118

■ 59, 67.446,  
296.132

■ 51, 82.498,  
298.382

■ 45, 97.591,  
300.759

■ 39, 111.718,  
303.035

■ 34, 123.077,  
304.877

■ 32, 129.716,  
305.954

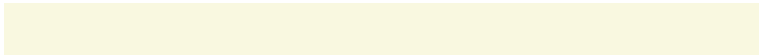
# Harmonies

# Complementary

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



90, 12.480, 289.622



97, 12.210, 107.518

# Rectangle

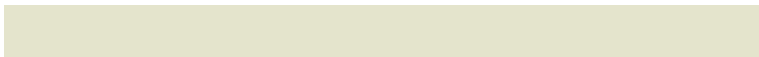
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



90, 12.480, 289.622



90, 12.480, 339.622



90, 12.480, 109.622



90, 12.480, 159.622

# Sweetspot

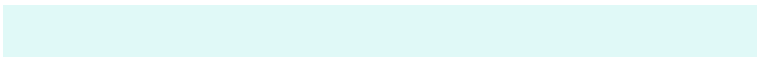
The Sweet Spot groups the original color and five complimentary colors.



90, 12.478, 289.617



98, 3.758, 288.860



96, 8.610, 194.647



52, 2.851, 288.938



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, 12.478, 289.617



90, 15.261, 289.848



91, 13.615, 307.775



48, 7.078, 289.553



23, 104.901, 305.817

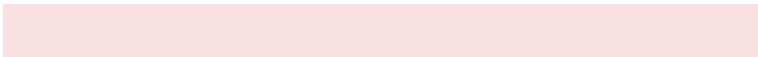


4, 40.842, 300.165



# Inverse Universe

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



91, 9.121, 16.743



92, 11.196, 16.920



96, 13.400, 126.842



49, 5.169, 16.693



39, 81.655, 38.438

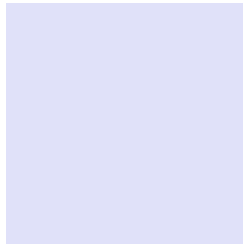


9, 31.905, 24.532



# Previews

## White Background



This preview shows how the CIE LCh color 90, 12.480, 289.622 looks on a white background.

## Color Contrast Check

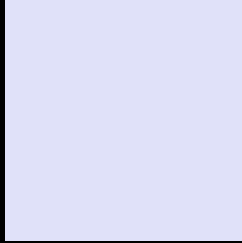
Large Text (above 18pt) WCAG AA × Fail

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, 12.480, 289.622 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

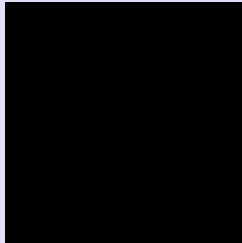
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 90, 12.480, 289.622**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 90, 12.480, 289.622.

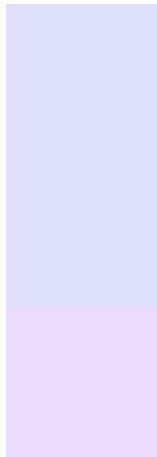


This preview shows how white text looks on a background with the CIELCh color 90, 12.480, 289.622.

# 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, 12.480, 289.622

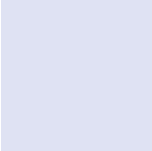
### Protanopia

90, 12.480, 289.622

### Deuteranopia

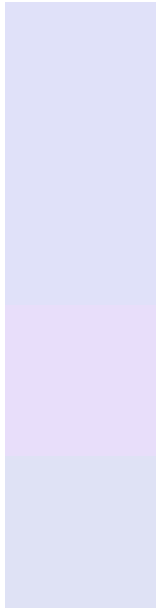
90, 16.762, 311.873





**Tritanopia**  
90, 8.880, 284.210

# Trichromacy



**Original Color**  
90, 12.480, 289.622

**Protanomaly**  
90, 12.480, 289.622

**Deuteranomaly**  
90, 15.029, 304.543

**Tritanomaly**  
90, 9.912, 285.014

# Monochromacy



**Original Color**  
90, 12.480, 289.622

**Achromatopsia**  
90, 0.011, 296.813

**Achromatomaly**  
90, 4.683, 290.571

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 90, 12.480, 289.622 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, 225, 249)` looks like.

```
.text, #text, p{  
    color:rgb(224, 225, 249)  
}
```

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, 225, 249) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(224, 225, 249) }
```

## Border

The CSS property to change the border of an element to CIELCh 90, 12.480, 289.622 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, 225, 249) }
```

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

```
.border{ border-color:rgb(224, 225, 249) }
```

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

Here you see how a box with a 4 pixel rgb(224, 225, 249) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(224, 225, 249); -webkit-box-  
shadow:4px 4px 4px 4px rgb(224, 225, 249);  
box-shadow:4px 4px 4px 4px rgb(224, 225,  
249) }
```

# Background

The CSS property to change the background color of an element to CIELCh 90, 12.480, 289.622 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(224, 225, 249) }
```

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

```
.background{ background-color: rgb(224,  
225, 249) }
```

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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