

# Converting Colors

CIELCh(90, 0.420, 200.817)

Have a look what the booklet for  
CIELCh(90, 0.420, 200.817) contains.

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# Color

**CIELCh(90, 0.711, 200.210)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E1E3E3
RGB	225, 227, 227
RGB Percent	88%, 89%, 89%
CMY	0.1186, 0.1108, 0.1108
CMYK	0.01, 0.00, 0.00, 0.11
HSL	180°, 3%, 89%
HSV	180°, 1%, 89%
XYZ	72.2068, 76.3034, 83.4168
YIQ	226.4020, -1.1920, -0.4240

# Conversions

## Conversions Part 2

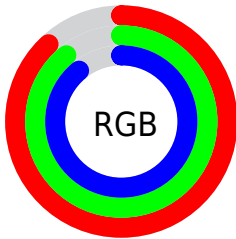
<b>Format</b>	<b>Color</b>
<b>R<sub>Y</sub>B</b>	225, 226, 227
Decimal	14803939
CIE Lab	90.00, -0.67, -0.25
CIE LCh	90, 0.711, 200.210
Yxy	76.3034, 0.3113, 0.3290
Android (android.graphics.Color)	4292994019 (0xFFE1E3E3)
YUV	226.4020, 0.2948, -1.2296
Hunter-Lab	87.3518, -5.3139, 4.5271

# Details

The CIELCh color `90, 0.711, 200.210` is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be `90, 0.719, 18.462`, 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, 0.748, 200.001` is the 20% darker color. If you saturate the color by 10%, you get `88, 8.579, 198.722`, and if you desaturate by 10%, it is `92, 7.499, 19.698`.

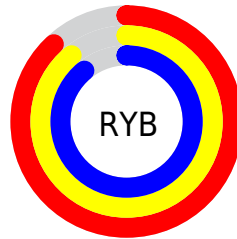
# Distribution



Red (88%)

Green (89%)

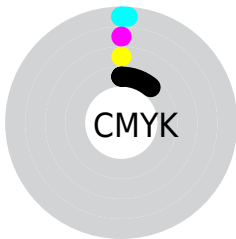
Blue (89%)



Red (88%)

Yellow (89%)

Blue (89%)

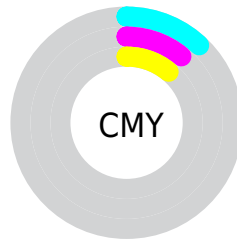


Cyan (1%)

Magenta (0%)

Yellow (0%)

Black (11%)



Cyan (12%)

Magenta (11%)

Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 90, 0.711, 200.210 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, 0.711, 200.210 by changing the saturation by 10% instead.



■ 90, 0.711, 200.210

■ 90, 0.711, 200.210

■ 100, 0.711,  
200.210

■ 80, 0.711, 200.210

■ 70, 0.711, 200.210

■ 60, 0.711, 200.210

■ 50, 0.711, 200.210

■ 40, 0.711, 200.210

■ 30, 0.711, 200.210

■ 20, 0.711, 200.210

■ 10, 0.711, 200.210

■ 0, 0.711, 200.210

90, 0.711, 200.210

90, 0.711, 200.210

88, 8.579, 198.722

92, 7.499, 19.698

87, 15.983,  
198.180

92, 10.298, 19.838

86, 22.794,  
197.706

92, 10.297, 19.716

85, 28.881,  
197.291

92, 10.296, 19.595

84, 34.122,  
196.938

92, 10.296, 19.473

83, 38.419,  
196.648

92, 10.296, 19.352

83, 41.714,  
196.423

92, 10.295, 19.230

82, 44.001,  
196.260

92, 10.295, 19.109

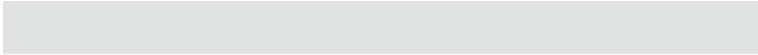
92, 10.295, 18.987

■ 82, 45.341,  
196.154

# Harmonies

# Complementary

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



90, 0.711, 200.210



90, 0.719, 18.462

# Rectangle

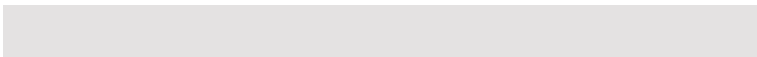
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



90, 0.711, 200.210



90, 0.711, 250.210



90, 0.711, 20.210



90, 0.711, 70.210

# Sweetspot

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



90, 0.712, 200.050

100, 0.012, 296.813



90, 1.255, 144.174



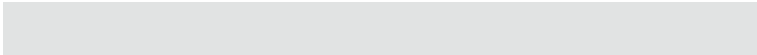
53, 0.007, 296.813



0, 0.000, 0.000

# Same Dimension

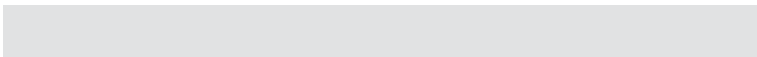
The Same Dimension uses a secret algorithm to generate beautiful new colors.



90, 0.712, 200.050



100, 0.886, 199.940



90, 0.627, 254.363



47, 0.454, 199.993



65, 37.990, 196.100



17, 15.602, 196.146





# Inverse Universe

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



90, 0.719, 18.462



99, 0.895, 18.572



90, 0.613, 72.806



47, 0.458, 18.519



36, 79.030, 39.876

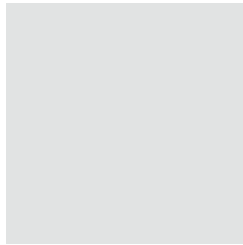


6, 25.536, 20.860



# Previews

## White Background



This preview shows how the CIELCh color 90, 0.711, 200.210 looks on a white background.

## Color Contrast Check

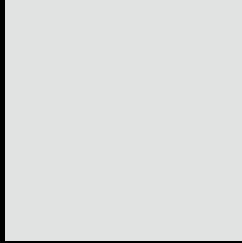
Large Text (above 18pt) WCAG AA × Fail

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, 0.711, 200.210 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

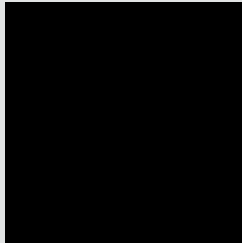
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

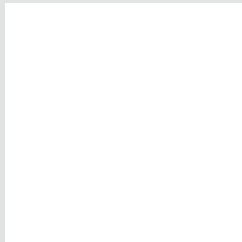
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# **CIELCh 90, 0.711, 200.210**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 90, 0.711, 200.210.

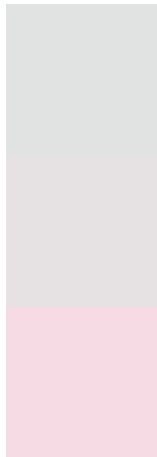


This preview shows how white text looks on a background with the CIELCh color 90, 0.711, 200.210.

# 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

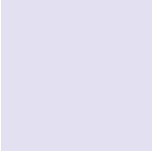
90, 0.711, 200.210

### Protanopia

90, 1.874, 3.144

### Deuteranopia

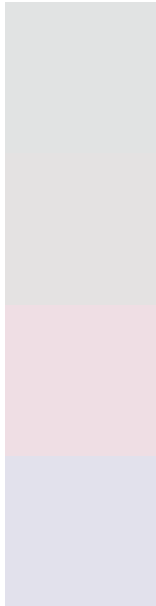
90, 11.169, 355.539



**Tritanopia**  
90, 9.443, 297.265



# Trichromacy



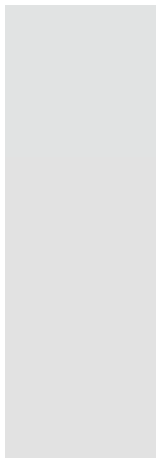
**Original Color**  
90, 0.711, 200.210

**Protanomaly**  
90, 0.716, 18.611

**Deuteranomaly**  
90, 6.887, 352.982

**Tritanomaly**  
90, 5.742, 294.152

# Monochromacy



**Original Color**  
90, 0.711, 200.210

**Achromatopsia**  
90, 0.011, 296.813

**Achromatomaly**  
90, 0.011, 296.813

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 90, 0.711, 200.210 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(225, 227, 227)` looks like.

```
.text, #text, p{  
    color:rgb(225, 227, 227)  
}
```

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(225, 227, 227) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(225, 227, 227) }
```

## Border

The CSS property to change the border of an element to CIELCh 90, 0.711, 200.210 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(225, 227, 227) }
```

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

```
.border{ border-color:rgb(225, 227, 227) }
```

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

Here you see how a box with a 4 pixel `rgb(225, 227, 227)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(225, 227, 227); -webkit-box-shadow:4px 4px 4px 4px rgb(225, 227, 227); box-shadow:4px 4px 4px 4px rgb(225, 227, 227) }
```

# Background

The CSS property to change the background color of an element to CIELCh 90, 0.711, 200.210 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(225, 227, 227) }
```

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

```
.background{ background-color: rgb(225,  
227, 227) }
```

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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