

# Converting Colors

CIELCh(93, 4.961, 109.768)

Have a look what the booklet for  
CIELCh(93, 4.961, 109.768) contains.

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# **Color**

**CIELCh(93, 5.135, 109.757)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ECECE2
RGB	236, 236, 226
RGB Percent	93%, 93%, 89%
CMY	0.0762, 0.0762, 0.1154
CMYK	0.00, 0.00, 0.04, 0.08
HSL	60°, 20%, 90%
HSV	60°, 4%, 92%
XYZ	77.9869, 82.9670, 83.5455
YIQ	234.8600, 3.2100, -3.1100

# Conversions

## Conversions Part 2

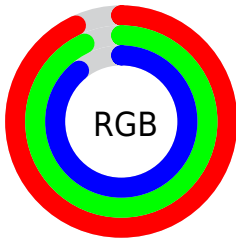
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	226, 236, 226
Decimal	15527138
CIE Lab	93.00, -1.74, 4.83
CIE LCh	93, 5.135, 109.757
Yxy	82.9670, 0.3190, 0.3393
Android (android.graphics.Color)	4293717218 (0xFFECECE2)
YUV	234.8600, -4.3680, 0.9998
Hunter-Lab	91.0862, -6.5715, 9.3788

# Details

The CIELCh color **93, 5.135, 109.757** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **90, 5.205, 290.630**, and the grayscale version is **93, 0.011, 296.813**.

A 20% lighter version of the original color is **100, 0.012, 296.813**, and **73, 4.863, 109.693** is the 20% darker color. If you saturate the color by 10%, you get **92, 17.224, 108.813**, and if you desaturate by 10%, it is **94, 6.994, 290.753**.

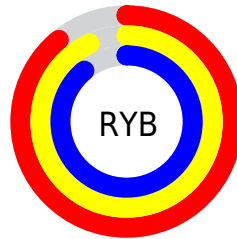
# Distribution



Red (93%)

Green (93%)

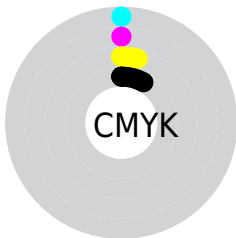
Blue (89%)



Red (89%)

Yellow (93%)

Blue (89%)

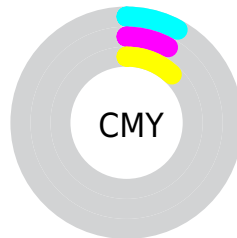


Cyan (0%)

Magenta (0%)

Yellow (4%)

Black (8%)



Cyan (8%)

Magenta (8%)

Yellow (12%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 93, 5.135, 109.757 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 93, 5.135, 109.757 by changing the saturation by 10% instead.



93, 5.135, 109.757

93, 5.135, 109.757

100, 5.135,  
109.757

83, 5.135, 109.757

73, 5.135, 109.757

63, 5.135, 109.757

53, 5.135, 109.757

43, 5.135, 109.757

33, 5.135, 109.757

23, 5.135, 109.757

13, 5.135, 109.757

3, 5.135, 109.757

93, 5.135, 109.757

93, 5.135, 109.757

92, 17.224,  
108.813

94, 6.994, 290.753

92, 29.198,  
107.839

94, 10.020,  
290.999

92, 40.950,  
106.877

94, 10.020,  
291.020

91, 52.312,  
105.948

94, 10.020,  
291.041

91, 63.022,  
105.080

94, 10.020,  
291.062

91, 72.696,  
104.309

94, 10.020,  
291.083

91, 80.809,  
103.674

94, 10.020,  
291.104

91, 86.781,  
103.217

94, 10.020,  
291.125

■ 91, 90.211,  
102.959

■ 94, 10.020,  
291.146

# Harmonies

# Complementary

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



93, 5.135, 109.757



90, 5.205, 290.630

# Rectangle

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



93, 5.135, 109.757



93, 5.135, 159.757



93, 5.135, 289.757



93, 5.135, 339.757

# Sweetspot

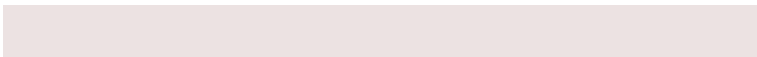
The Sweet Spot groups the original color and five complimentary colors.



93, 5.137, 109.774



100, 1.282, 110.040



90, 3.603, 19.491



53, 0.729, 110.042



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



93, 5.137, 109.774



100, 6.453, 109.702



93, 5.465, 128.908



49, 4.112, 109.640



71, 74.937, 102.880



21, 30.655, 103.490



# Inverse Universe

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



90, 5.205, 290.630



96, 6.545, 290.708



90, 5.515, 309.231



47, 4.174, 290.775



21, 103.472, 306.289

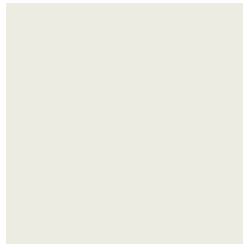


2, 35.735, 297.762



# Previews

## White Background



This preview shows how the CIE LCh color 93, 5.135, 109.757 looks on a white background.

## Color Contrast Check

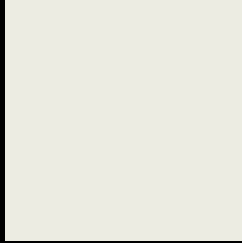
Large Text (above 18pt) WCAG AA × Fail

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 93, 5.135, 109.757 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

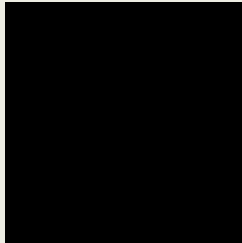
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

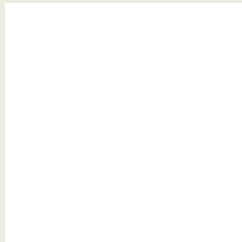
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# **CIELCh 93, 5.135, 109.757**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 93, 5.135, 109.757.

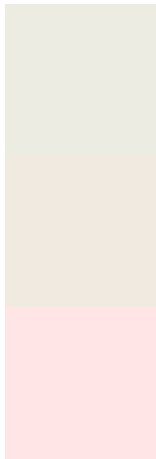


This preview shows how white text looks on a background with the CIELCh color 93, 5.135, 109.757.

# 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

93, 5.135, 109.757

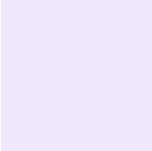
### Protanopia

93, 5.256, 80.962

### Deuteranopia

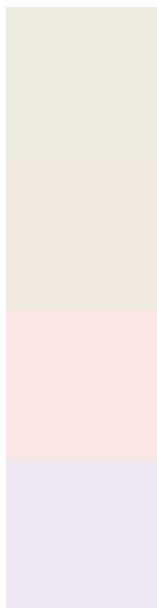
93, 9.448, 19.999





**Tritanopia**  
93, 9.648, 305.455

# Trichromacy



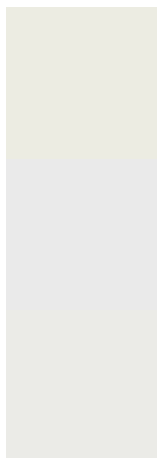
**Original Color**  
93, 5.135, 109.757

**Protanomaly**  
93, 5.324, 93.996

**Deuteranomaly**  
93, 6.340, 33.778

**Tritanomaly**  
93, 4.518, 313.408

# Monochromacy



**Original Color**  
93, 5.135, 109.757

**Achromatopsia**  
93, 0.011, 296.813

**Achromatomaly**  
93, 2.050, 109.980

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 93, 5.135, 109.757 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, 236, 226)` looks like.

```
.text, #text, p{  
    color:rgb(236, 236, 226)  
}
```

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, 236, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 236, 226) }
```

## Border

The CSS property to change the border of an element to CIELCh 93, 5.135, 109.757 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, 236, 226) }
```

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

```
.border{ border-color:rgb(236, 236, 226) }
```

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

Here you see how a box with a 4 pixel `rgb(236, 236, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 236, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 236, 226);  
box-shadow:4px 4px 4px 4px rgb(236, 236,  
226) }
```

# Background

The CSS property to change the background color of an element to CIELCh 93, 5.135, 109.757 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 236, 226) }
```

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

```
.background{ background-color: rgb(236,  
236, 226) }
```

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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