

# Converting Colors

CIELCh(90, 3.178, 96.757)

Have a look what the booklet for  
CIELCh(90, 3.178, 96.757) contains.

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# Color

**CIELCh(90, 3.178, 96.757)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E4E2DC
RGB	228, 226, 220
RGB Percent	89%, 89%, 86%
CMY	0.1046, 0.1124, 0.1360
CMYK	0.00, 0.01, 0.04, 0.10
HSL	45°, 13%, 88%
HSV	45°, 4%, 90%
XYZ	72.3461, 76.3034, 78.8513
YIQ	225.9140, 3.1180, -1.4420

# Conversions

## Conversions Part 2

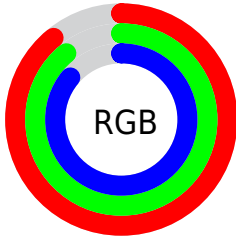
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	223, 228, 220
Decimal	15000284
CIE Lab	90.00, -0.37, 3.16
CIE LCh	90, 3.178, 96.757
Yxy	76.3034, 0.3180, 0.3354
Android (android.graphics.Color)	4293190364 (0xFFE4E2DC)
YUV	225.9140, -2.9156, 1.8294
Hunter-Lab	87.3518, -5.0291, 7.6260

# Details

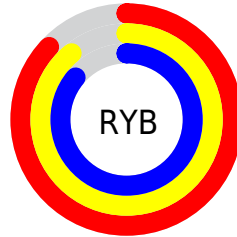
The CIELCh color **90, 3.178, 96.757** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **89, 3.206, 277.745**, and the grayscale version is **90, 0.011, 296.813**.

A 20% lighter version of the original color is **100, 0.012, 296.813**, and **70, 3.351, 96.650** is the 20% darker color. If you saturate the color by 10%, you get **88, 12.358, 95.643**, and if you desaturate by 10%, it is **92, 5.882, 278.044**.

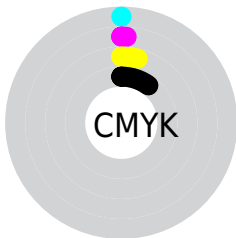
# Distribution



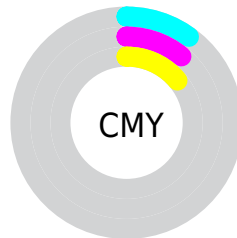
- Red (89%)
- Green (89%)
- Blue (86%)



- Red (87%)
- Yellow (89%)
- Blue (86%)



- Cyan (0%)
- Magenta (1%)
- Yellow (4%)
- Black (10%)



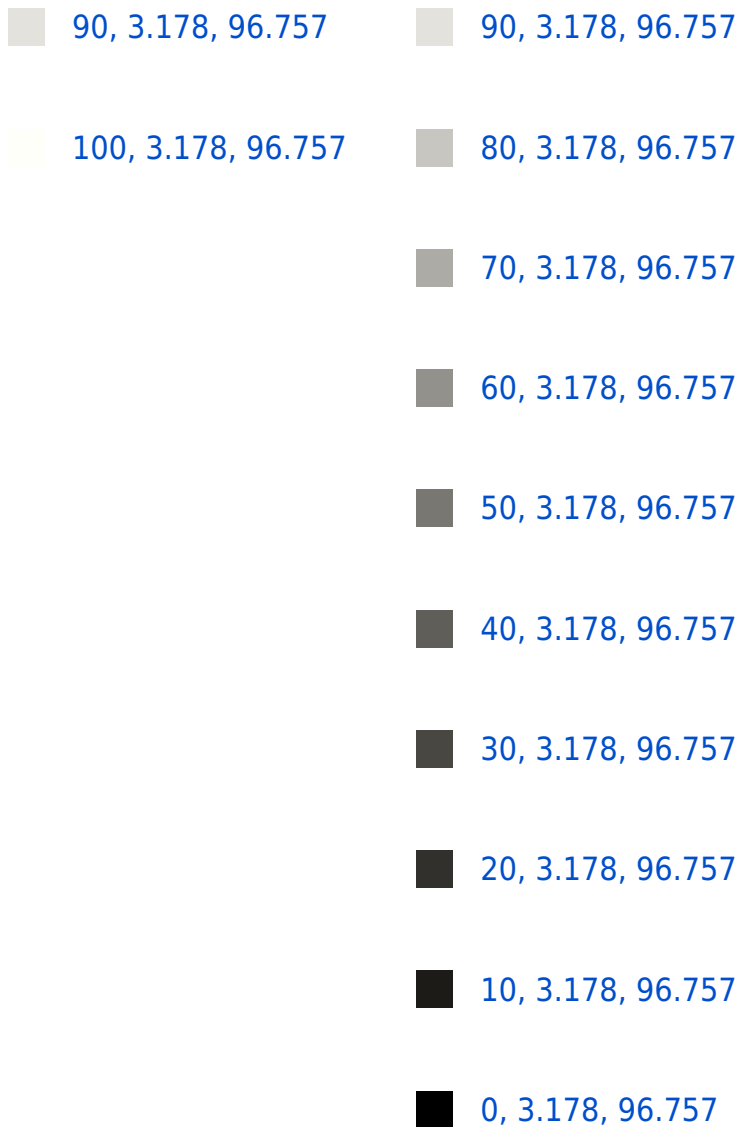
- Cyan (10%)
- Magenta (11%)
- Yellow (14%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 90, 3.178, 96.757 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 90, 3.178, 96.757 by changing the saturation by 10% instead.





90, 3.178, 96.757

90, 3.178, 96.757

88, 12.358, 95.643

92, 5.882, 278.044

86, 21.635, 94.412

94, 9.393, 271.012

84, 30.970, 93.143

95, 7.768, 249.301

82, 40.279, 91.841

97, 7.624, 222.375

81, 49.409, 90.509

98, 9.011, 199.506

79, 58.087, 89.140

98, 9.075, 198.905

77, 65.854, 87.711

76, 72.018, 86.168

74, 75.789, 84.414

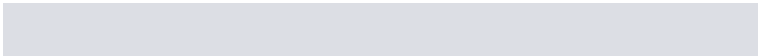
# Harmonies

# Complementary

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



90, 3.178, 96.757



89, 3.206, 277.745

# Rectangle

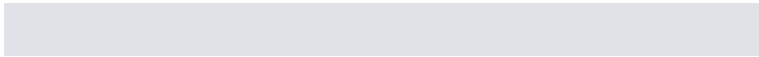
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



90, 3.178, 96.757



90, 3.178, 146.757



90, 3.178, 276.757



90, 3.178, 326.757

# Sweetspot

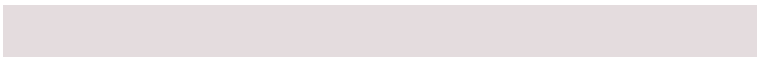
The Sweet Spot groups the original color and five complimentary colors.



90, 3.180, 96.792



100, 0.983, 96.921



89, 3.078, 359.664



53, 0.558, 96.915



0, 0.000, 0.000

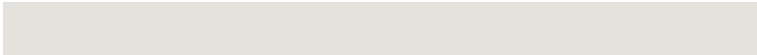


53, 0.007, 296.813

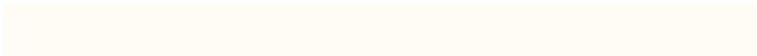


# Same Dimension

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



90, 3.180, 96.792



99, 3.972, 96.739



90, 4.205, 119.702



48, 2.591, 96.664



59, 64.170, 83.517



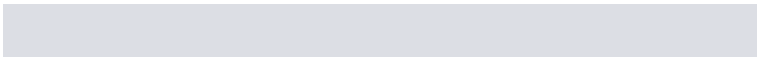
16, 23.444, 86.448





# Inverse Universe

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



89, 3.206, 277.745



97, 4.002, 277.801



88, 4.254, 300.121



47, 2.610, 277.880



27, 84.252, 300.551

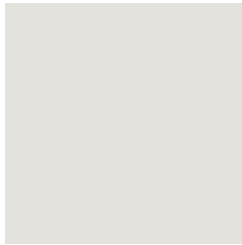


5, 27.848, 291.020



# Previews

## White Background



This preview shows how the CIELCh color 90, 3.178, 96.757 looks on a white background.

## Color Contrast Check

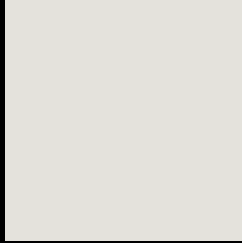
Large Text (above 18pt) WCAG AA × Fail

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 90, 3.178, 96.757 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

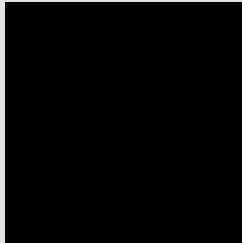
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

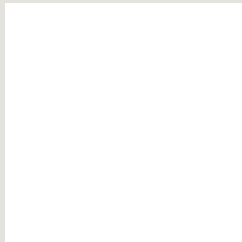
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 90, 3.178, 96.757**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 90, 3.178, 96.757.

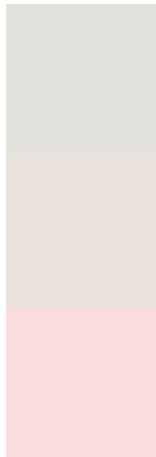


This preview shows how white text looks on a background with the CIELCh color 90, 3.178, 96.757.

# 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

90, 3.178, 96.757

### Protanopia

90, 3.606, 65.215

### Deuteranopia

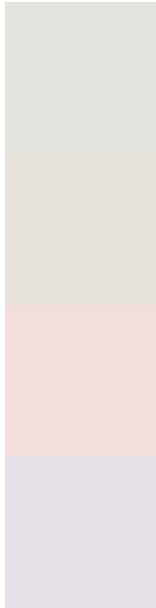
90, 11.456, 12.428



**Tritanopia**  
90, 9.816, 307.447



# Trichromacy



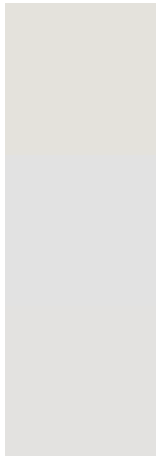
**Original Color**  
90, 3.178, 96.757

**Protanomaly**  
90, 3.362, 69.661

**Deuteranomaly**  
90, 7.311, 23.890

**Tritanomaly**  
90, 5.171, 314.791

# Monochromacy



**Original Color**  
90, 3.178, 96.757

**Achromatopsia**  
90, 0.011, 296.813

**Achromatomaly**  
90, 1.084, 90.719

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 90, 3.178, 96.757 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(228, 226, 220)` looks like.

```
.text, #text, p{  
    color:rgb(228, 226, 220)  
}
```

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(228, 226, 220) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 226, 220) }
```

## Border

The CSS property to change the border of an element to CIELCh 90, 3.178, 96.757 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(228, 226, 220) }
```

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

```
.border{ border-color:rgb(228, 226, 220) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 226, 220)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 226, 220); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 226, 220);  
box-shadow:4px 4px 4px 4px rgb(228, 226,  
220) }
```

# Background

The CSS property to change the background color of an element to CIELCh 90, 3.178, 96.757 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 226, 220) }
```

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

```
.background{ background-color: rgb(228,  
226, 220) }
```

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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