

# Converting Colors

CIELCh(90, 4.737, 25.788)

Have a look what the booklet for  
CIELCh(90, 4.737, 25.788) contains.

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# **Color**

**CIELCh(90, 4.733, 25.880)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EDE0DF
RGB	237, 224, 223
RGB Percent	93%, 88%, 87%
CMY	0.0723, 0.1233, 0.1272
CMYK	0.00, 0.05, 0.06, 0.07
HSL	4°, 28%, 90%
HSV	4°, 6%, 93%
XYZ	74.5708, 76.3034, 80.2957
YIQ	227.7730, 8.0690, 2.4450

# Conversions

## Conversions Part 2

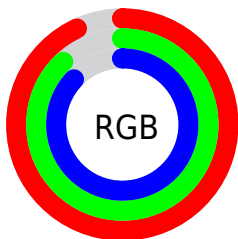
Format	Color
R <sub>Y</sub> B	237, 224, 223
Decimal	15589599
CIE Lab	90.00, 4.26, 2.07
CIE LCh	90, 4.733, 25.880
Yxy	76.3034, 0.3226, 0.3301
Android (android.graphics.Color)	4293779679 (0xFFE0DF)
YUV	227.7730, -2.3531, 8.0921
Hunter-Lab	87.3518, -0.4831, 6.6456

# Details

The CIELCh color **90, 4.733, 25.880** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **92, 4.556, 205.787**, 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, 4.621, 26.461** is the 20% darker color. If you saturate the color by 10%, you get **84, 13.264, 26.461**, and if you desaturate by 10%, it is **96, 3.136, 205.913**.

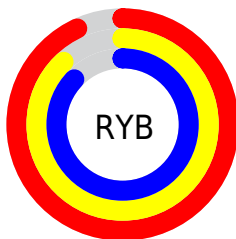
# Distribution



Red (93%)

Green (88%)

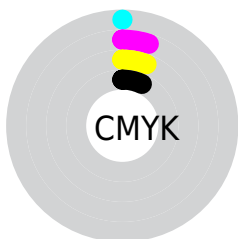
Blue (87%)



Red (93%)

Yellow (88%)

Blue (87%)

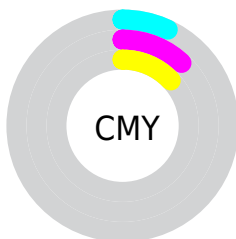


Cyan (0%)

Magenta (5%)

Yellow (6%)

Black (7%)



Cyan (7%)

Magenta (12%)

Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 90, 4.733, 25.880 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, 4.733, 25.880 by changing the saturation by 10% instead.



90, 4.733, 25.880

90, 4.733, 25.880

100, 4.733, 25.880

80, 4.733, 25.880

70, 4.733, 25.880

60, 4.733, 25.880

50, 4.733, 25.880

40, 4.733, 25.880

30, 4.733, 25.880

20, 4.733, 25.880

10, 4.733, 25.880

0, 4.733, 25.880

90, 4.733, 25.880

90, 4.733, 25.880

84, 13.264, 26.461

96, 3.136, 205.913

78, 22.504, 27.133

99, 6.329, 199.109

73, 32.463, 28.039

67, 43.093, 29.256

62, 54.268, 30.866

58, 65.750, 32.927

55, 77.129, 35.409

52, 87.616, 38.024

50, 95.493, 39.949

# Harmonies

# Complementary

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



90, 4.733, 25.880



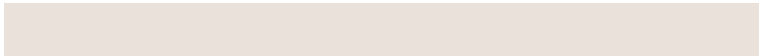
92, 4.556, 205.787

# Rectangle

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



90, 4.733, 25.880



90, 4.733, 75.880



90, 4.733, 205.880



90, 4.733, 255.880

# Sweetspot

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



90, 4.732, 25.907



99, 1.673, 25.498



90, 8.456, 326.584



53, 0.951, 25.474



0, 0.000, 0.000



53, 0.007, 296.813

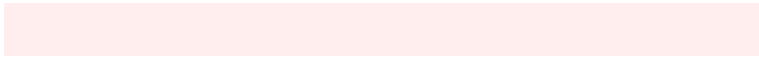


# Same Dimension

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



90, 4.732, 25.907



95, 5.977, 25.973



92, 4.623, 81.453



47, 3.635, 26.004



38, 79.842, 40.788



8, 27.090, 26.573





# Inverse Universe

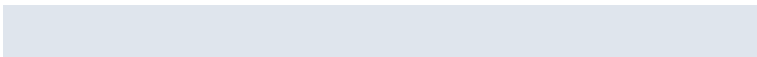
The Inverse Universe completely reimagines the original color for something new.



92, 4.556, 205.787



98, 5.713, 205.734



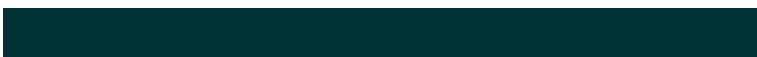
91, 4.599, 263.127



48, 3.462, 205.711



63, 35.401, 208.654

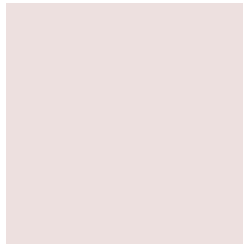


18, 15.329, 206.703



# Previews

## White Background



This preview shows how the CIELCh color 90, 4.733, 25.880 looks on a white background.

## Color Contrast Check

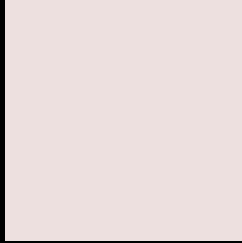
Large Text (above 18pt) WCAG AA × Fail

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, 4.733, 25.880 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

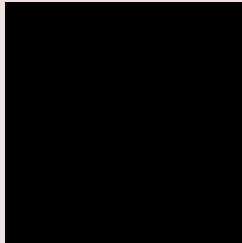
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

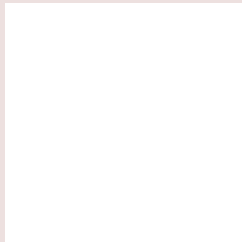
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 90, 4.733, 25.880**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 90, 4.733, 25.880.



This preview shows how white text looks on a background with the CIELCh color 90, 4.733, 25.880.

# 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

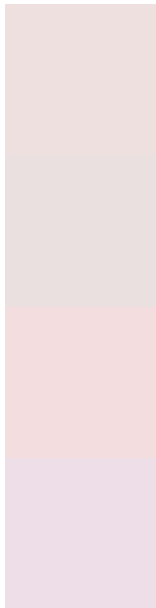




**Tritanopia**  
90, 10.948, 326.363



# Trichromacy



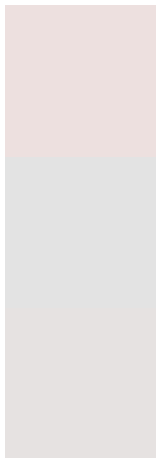
**Original Color**  
90, 4.733, 25.880

**Protanomaly**  
90, 3.285, 28.519

**Deuteranomaly**  
90, 8.442, 12.915

**Tritanomaly**  
90, 7.761, 337.927

# Monochromacy



**Original Color**  
90, 4.733, 25.880

**Achromatopsia**  
90, 0.011, 296.813

**Achromatomaly**  
90, 1.518, 39.036

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 90, 4.733, 25.880 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(237, 224, 223)` looks like.

```
.text, #text, p{  
    color:rgb(237, 224, 223)  
}
```

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(237, 224, 223) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 224, 223) }
```

## Border

The CSS property to change the border of an element to CIELCh 90, 4.733, 25.880 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(237, 224, 223) }
```

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

```
.border{ border-color:rgb(237, 224, 223) }
```

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

Here you see how a box with a 4 pixel `rgb(237, 224, 223)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 224, 223); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 224, 223);  
box-shadow:4px 4px 4px 4px rgb(237, 224,  
223) }
```

# Background

The CSS property to change the background color of an element to CIELCh 90, 4.733, 25.880 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 224, 223) }
```

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

```
.background{ background-color: rgb(237,  
224, 223) }
```

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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