

# Converting Colors

CIELCh(90, 8.058, 197.805)

Have a look what the booklet for  
CIELCh(90, 8.058, 197.805) contains.

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# Color

**CIELCh(90, 7.985, 198.938)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D0E7E7
RGB	208, 231, 231
RGB Percent	82%, 91%, 91%
CMY	0.1844, 0.0942, 0.0943
CMYK	0.10, 0.00, 0.00, 0.09
HSL	180°, 32%, 86%
HSV	180°, 10%, 91%
XYZ	68.9866, 76.3034, 86.6660
YIQ	224.1230, -13.7080, -4.8760

# Conversions

## Conversions Part 2

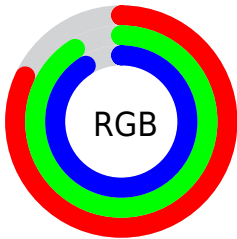
Format	Color
R <sub>Y</sub> B	208, 220, 231
Decimal	13690855
CIE Lab	90.00, -7.55, -2.59
CIE LCh	90, 7.985, 198.938
Yxy	76.3034, 0.2974, 0.3290
Android (android.graphics.Color)	4291880935 (0xFFD0E7E7)
YUV	224.1230, 3.3904, -14.1399
Hunter-Lab	87.3518, -11.8942, 2.3217

# Details

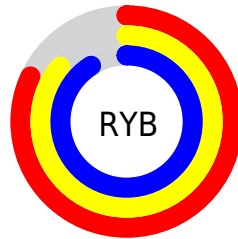
The CIELCh color **90, 7.985, 198.938** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **85, 8.507, 19.963**, and the grayscale version is **89, 0.011, 296.813**.

A 20% lighter version of the original color is **100, 0.012, 296.813**, and **70, 7.994, 198.799** is the 20% darker color. If you saturate the color by 10%, you get **89, 15.547, 198.380**, and if you desaturate by 10%, it is **92, 0.037, 2.413**.

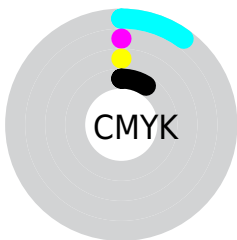
# Distribution



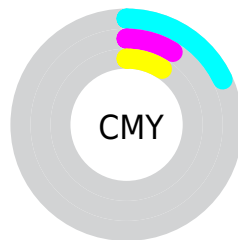
- Red (82%)
- Green (91%)
- Blue (91%)



- Red (82%)
- Yellow (86%)
- Blue (91%)



- Cyan (10%)
- Magenta (0%)
- Yellow (0%)
- Black (9%)



- Cyan (18%)
- Magenta (9%)
- Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 90, 7.985, 198.938 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, 7.985, 198.938 by changing the saturation by 10% instead.



90, 7.985, 198.938

90, 7.985, 198.938

100, 7.985,  
198.938

80, 7.985, 198.938

70, 7.985, 198.938

60, 7.985, 198.938

50, 7.985, 198.938

40, 7.985, 198.938

30, 7.985, 198.938

20, 7.985, 198.938

10, 7.985, 198.938

0, 7.985, 198.938

90, 7.985, 198.938

90, 7.985, 198.938

89, 15.547,  
198.380

92, 0.037, 2.413

87, 22.515,  
197.907

93, 8.397, 19.900

86, 28.759,  
197.495

94, 8.706, 19.913

85, 34.151,  
197.145

94, 8.706, 19.901

85, 38.592,  
196.862

94, 8.706, 19.889

84, 42.017,  
196.646

94, 8.706, 19.877


84, 44.415,  
196.495

94, 8.706, 19.865

83, 45.844,  
196.405

94, 8.706, 19.853

94, 8.706, 19.841

 83, 46.504,  
196.363

# Harmonies

# Complementary

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



90, 7.985, 198.938



85, 8.507, 19.963

# Rectangle

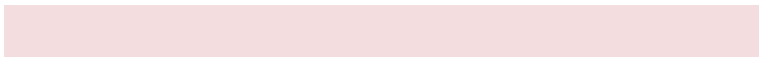
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



90, 7.985, 198.938



90, 7.985, 248.938



90, 7.985, 18.938



90, 7.985, 68.938

# Sweetspot

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



90, 7.986, 198.925



99, 2.650, 199.474



89, 14.543, 143.440



53, 2.005, 199.377



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, 7.986, 198.925



98, 10.369, 198.801



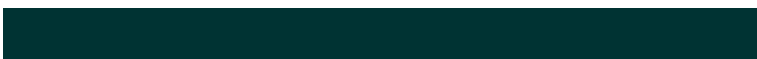
87, 7.059, 254.939



47, 4.537, 198.956



66, 38.351, 196.363



18, 16.093, 196.366

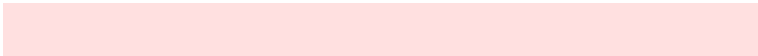


# Inverse Universe

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



85, 8.507, 19.963



92, 11.200, 20.133



88, 7.247, 72.339



45, 4.817, 19.923



37, 79.977, 39.965

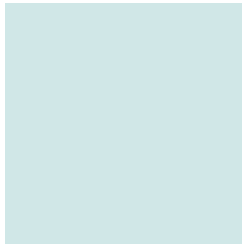


6, 27.104, 21.751



# Previews

## White Background



This preview shows how the CIELCh color 90, 7.985, 198.938 looks on a white background.

## Color Contrast Check

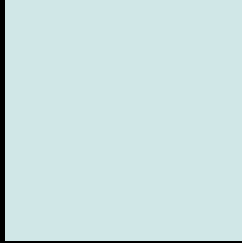
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIELCh color 90, 7.985, 198.938 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

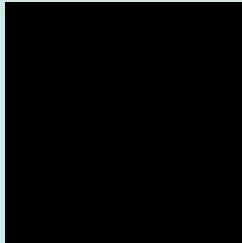
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

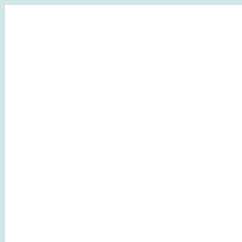
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 90, 7.985, 198.938**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 90, 7.985, 198.938.

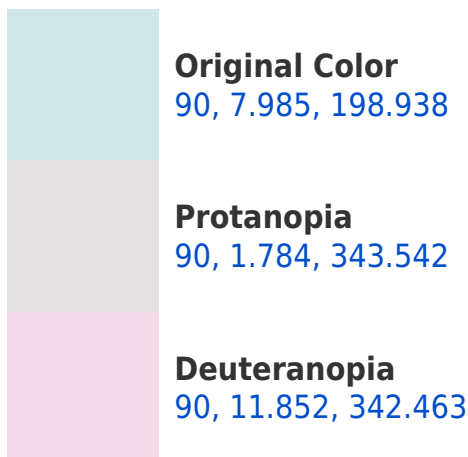


This preview shows how white text looks on a background with the CIELCh color 90, 7.985, 198.938.

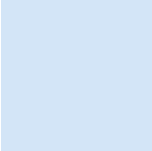
# Color Blindness Simulation

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

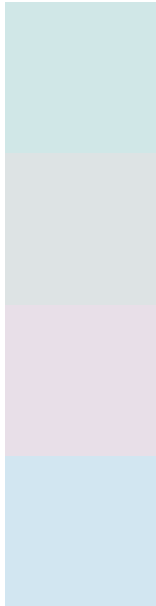






**Tritanopia**  
90, 11.024, 257.458

# Trichromacy



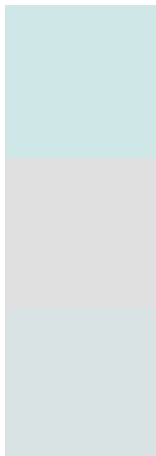
**Original Color**  
90, 7.985, 198.938

**Protanomaly**  
90, 2.179, 213.348

**Deuteranomaly**  
90, 5.706, 324.605

**Tritanomaly**  
90, 8.797, 239.729

# Monochromacy



**Original Color**  
90, 7.985, 198.938

**Achromatopsia**  
89, 0.011, 296.813

**Achromatomaly**  
90, 3.180, 199.376

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 90, 7.985, 198.938 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(208, 231, 231)` looks like.

```
.text, #text, p{  
    color:rgb(208, 231, 231)  
}
```

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(208, 231, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(208, 231, 231) }
```

## Border

The CSS property to change the border of an element to CIELCh 90, 7.985, 198.938 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(208, 231, 231) }
```

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

```
.border{ border-color:rgb(208, 231, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(208, 231, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(208, 231, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(208, 231, 231);  
box-shadow:4px 4px 4px 4px rgb(208, 231,  
231) }
```

# Background

The CSS property to change the background color of an element to CIELCh 90, 7.985, 198.938 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(208, 231, 231) }
```

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

```
.background{ background-color: rgb(208,  
231, 231) }
```

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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