

# Converting Colors

CIELCh(96, 12.681, 261.387)

Have a look what the booklet for  
CIELCh(96, 12.681, 261.387)  
contains.

<b>CIELCh(96, 7.848, 235.244)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# Color

**CIELCh(96, 7.848, 235.244)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E4F7FF
RGB	228, 247, 255
RGB Percent	89%, 97%, 100%
CMY	0.1073, 0.0327, 0.0000
CMYK	0.11, 0.03, 0.00, 0.00
HSL	198°, 100%, 95%
HSV	198°, 11%, 100%
XYZ	83.1932, 90.0078, 108.1517
YIQ	242.2310, -13.8920, -1.5400

# Conversions

## Conversions Part 2

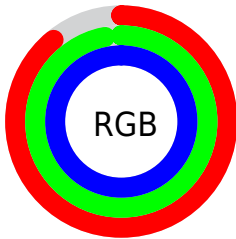
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	228, 239, 255
Decimal	15005695
CIE Lab	96.00, -4.47, -6.45
CIE LCh	96, 7.848, 235.244
Yxy	90.0078, 0.2957, 0.3199
Android (android.graphics.Color)	4293195775 (0xFFE4F7FF)
YUV	242.2310, 6.2951, -12.4806
Hunter-Lab	94.8724, -9.5010, -1.1781

# Details

The CIELCh color **96, 7.848, 235.244** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **95, 8.127, 51.378**, and the grayscale version is **95, 0.011, 296.813**.

A 20% lighter version of the original color is **100, 0.012, 296.813**, and **76, 7.633, 228.673** is the 20% darker color. If you saturate the color by 10%, you get **92, 14.476, 234.088**, and if you desaturate by 10%, it is **100, 0.534, 233.353**.

# Distribution



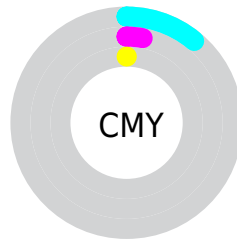
- Red (89%)
- Green (97%)
- Blue (100%)



- Red (89%)
- Yellow (94%)
- Blue (100%)



- Cyan (11%)
- Magenta (3%)
- Yellow (0%)
- Black (0%)



- Cyan (11%)
- Magenta (3%)
- Yellow (0%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 96, 7.848, 235.244 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 96, 7.848, 235.244 by changing the saturation by 10% instead.



 96, 7.848, 235.244

 96, 7.848, 235.244

 100, 7.848,  
235.244

 86, 7.848, 235.244

 76, 7.848, 235.244

 66, 7.848, 235.244

 56, 7.848, 235.244

 46, 7.848, 235.244

 36, 7.848, 235.244

 26, 7.848, 235.244

 16, 7.848, 235.244

 6, 7.848, 235.244

96, 7.848, 235.244

96, 7.848, 235.244

92, 14.476,  
234.088

100, 0.534,  
233.353

89, 20.875,  
235.372

100, 0.012,  
296.813

85, 26.779,  
237.012

82, 32.107,  
239.087

79, 36.799,  
241.690

76, 40.841,  
244.913

73, 44.283,  
248.824

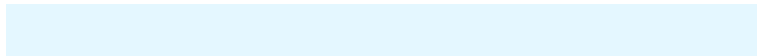
71, 47.265,  
253.427

■ 69, 49.850,  
258.144

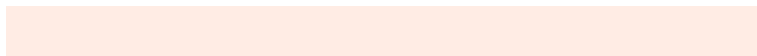
# Harmonies

# Complementary

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



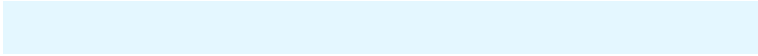
96, 7.848, 235.244



95, 8.127, 51.378

# Rectangle

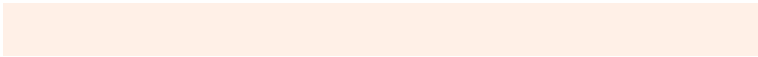
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



96, 7.848, 235.244



96, 7.848, 285.244



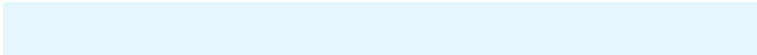
96, 7.848, 55.244



96, 7.848, 105.244

# Sweetspot

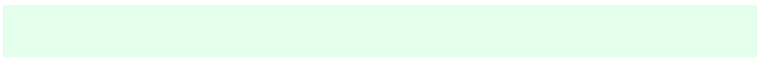
The Sweet Spot groups the original color and five complimentary colors.



96, 7.668, 233.104



99, 2.180, 232.665



98, 13.786, 153.547



53, 1.650, 232.668



0, 0.000, 0.000



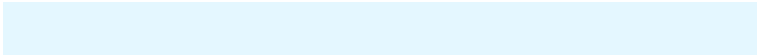
53, 0.007, 296.813



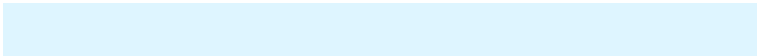


# Same Dimension

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



96, 7.668, 233.104



95, 9.247, 233.301



93, 11.424, 281.728



51, 4.075, 233.005



52, 39.803, 257.173



16, 17.346, 250.107



# Inverse Universe

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



93, 13.812, 335.204



92, 16.767, 335.374



98, 11.281, 99.158



50, 7.314, 335.113



42, 74.082, 345.308

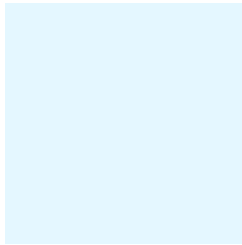


11, 34.910, 342.657



# Previews

## White Background



This preview shows how the CIELCh color 96, 7.848, 235.244 looks on a white background.

## Color Contrast Check

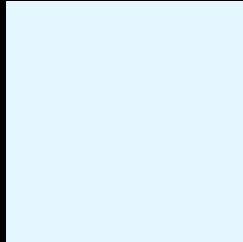
Large Text (above 18pt) WCAG AA × Fail

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 96, 7.848, 235.244 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

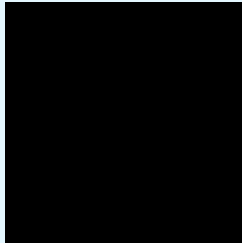
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

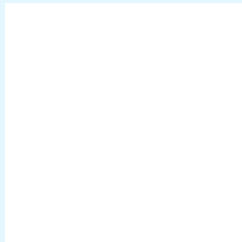
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 96, 7.848, 235.244

## Background



This preview shows how black text looks on a background with the CIELCh color 96, 7.848, 235.244.

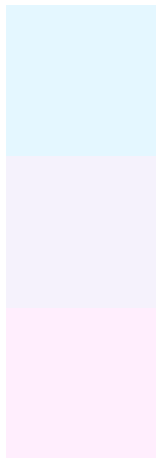


This preview shows how white text looks on a background with the CIELCh color 96, 7.848, 235.244.

# 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

96, 7.574, 231.977

### Protanopia

96, 5.254, 302.020

### Deuteranopia

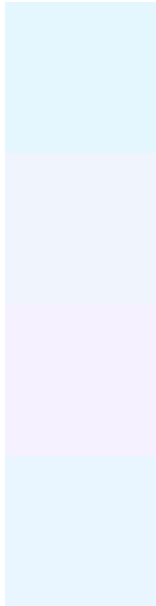
96, 9.778, 328.170





**Tritanopia**  
96, 6.227, 264.506

# Trichromacy



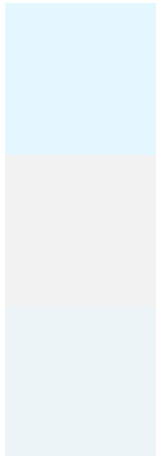
**Original Color**  
96, 7.574, 231.977

**Protanomaly**  
96, 4.901, 269.952

**Deuteranomaly**  
96, 6.839, 302.376

**Tritanomaly**  
96, 6.501, 251.484

# Monochromacy



**Original Color**  
96, 7.574, 231.977

**Achromatopsia**  
95, 0.011, 296.813

**Achromatomaly**  
96, 2.861, 232.049

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 96, 7.848, 235.244 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, 247, 255)` looks like.

```
.text, #text, p{  
    color:rgb(228, 247, 255)  
}
```

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, 247, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 247, 255) }
```

## Border

The CSS property to change the border of an element to CIELCh 96, 7.848, 235.244 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, 247, 255) }
```

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

```
.border{ border-color:rgb(228, 247, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 247, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 247, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 247, 255);  
box-shadow:4px 4px 4px 4px rgb(228, 247,  
255) }
```

# Background

The CSS property to change the background color of an element to CIELCh 96, 7.848, 235.244 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 247, 255) }
```

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

```
.background{ background-color: rgb(228,  
247, 255) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor