

# Converting Colors

CIELCh(87, 40.368, 169.224)

Have a look what the booklet for  
CIELCh(87, 40.368, 169.224)  
contains.

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**Color**

**CIELCh(87, 40.468, 168.965)**

# Conversions

## Conversions Part 1

Format	Color
Hex	81EECA
RGB	129, 238, 202
RGB Percent	51%, 93%, 79%
CMY	0.4945, 0.0671, 0.2082
CMYK	0.46, 0.00, 0.15, 0.07
HSL	160°, 76%, 72%
HSV	160°, 46%, 93%
XYZ	50.2302, 70.0064, 66.6795
YIQ	201.3050, -53.4080, -34.3040

# Conversions

## Conversions Part 2

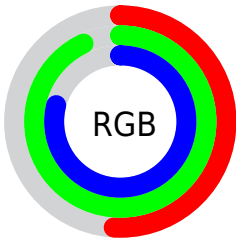
<b>Format</b>	<b>Color</b>
<b>RYB</b>	129, 194, 238
Decimal	8515274
CIELab	87.00, -39.72, 7.75
CIELCh	87, 40.468, 168.965
Yxy	70.0064, 0.2687, 0.3745
Android (android.graphics.Color)	4286705354 (0xFF81EECA)
YUV	201.3050, 0.3426, -63.4115
Hunter-Lab	83.6698, -39.2618, 11.3186

# Details

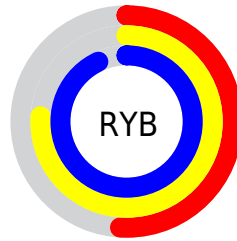
The CIELCh color **87, 40.468, 168.965** is a light color, and the websafe version is hex **99FFCC**. A complement of this color would be **67, 45.730, 359.726**, and the grayscale version is **81, 0.010, 296.813**.

A 20% lighter version of the original color is **96, 21.978, 198.063**, and **67, 40.246, 169.216** is the 20% darker color. If you saturate the color by 10%, you get **86, 47.879, 167.558**, and if you desaturate by 10%, it is **88, 32.363, 170.229**.

# Distribution



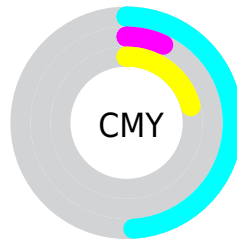
- Red (51%)
- Green (93%)
- Blue (79%)



- Red (51%)
- Yellow (76%)
- Blue (93%)



- Cyan (46%)
- Magenta (0%)
- Yellow (15%)
- Black (7%)




- Cyan (49%)
- Magenta (7%)
- Yellow (21%)


# Brightness & Saturation Gradients

These gradients show how the CIELCh color 87, 40.468, 168.965 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 87, 40.468, 168.965 by changing the saturation by 10% instead.





 87, 40.468,  
168.965


 87, 40.468,  
168.965

 100, 40.468,  
168.965


 77, 40.468,  
168.965

 67, 40.468,  
168.965

 57, 40.468,  
168.965

 47, 40.468,  
168.965

 37, 40.468,  
168.965


 27, 40.468,  
168.965


 17, 40.468,

168.965


 7, 40.468, 168.965


 0, 40.468, 168.965


 87, 40.468,  
168.965


 87, 40.468,  
168.965


 86, 47.879,  
167.558

 88, 32.363,  
170.229

 85, 54.457,  
165.984

 90, 23.720,  
171.378

 85, 60.108,  
164.220

 91, 14.696,  
172.437

 84, 64.808,  
162.248


 93, 5.438, 173.464


 84, 68.622,

 95, 3.931, 354.128

160.074

 96, 8.344, 336.741

 84, 70.059,  
159.147

 96, 10.665,  
324.783

# Harmonies

# Complementary

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



87, 40.468, 168.965



67, 45.730, 359.726

# Rectangle

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



87, 40.468, 168.965



87, 40.468, 218.965



87, 40.468, 348.965



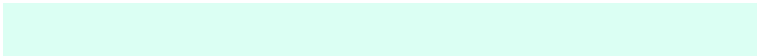
87, 40.468, 38.965

# Sweetspot

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



87, 40.469, 168.964



97, 13.781, 172.617



87, 61.702, 132.411



52, 9.497, 172.396



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



87, 40.469, 168.964



92, 50.009, 167.648



83, 28.407, 217.662



49, 5.336, 173.081



66, 57.307, 159.546



20, 23.619, 163.130



# Inverse Universe

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



67, 45.730, 359.726



67, 57.759, 1.662



70, 40.301, 36.751



47, 5.470, 354.739



39, 67.603, 18.303

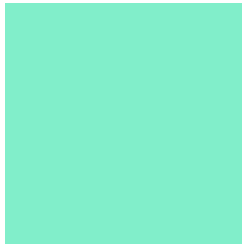


8, 28.757, 8.394



# Previews

## White Background



This preview shows how the CIELCh color 87, 40.468, 168.965 looks on a white background.

## Color Contrast Check

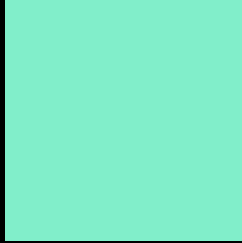
Large Text (above 18pt) WCAG AA × Fail

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 87, 40.468, 168.965 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

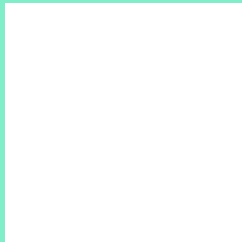
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 87, 40.468, 168.965**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 87, 40.468, 168.965.

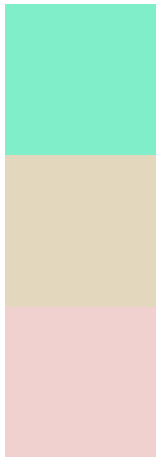


This preview shows how white text looks on a background with the CIELCh color 87, 40.468, 168.965.

# 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**  
87, 40.468, 168.965

**Protanopia**  
87, 14.182, 91.870

**Deuteranopia**  
86, 11.931, 22.739





**Tritanopia**  
87, 28.103, 218.724

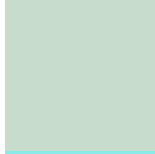
# Trichromacy



**Original Color**  
87, 40.468, 168.965



**Protanomaly**  
86, 19.871, 146.073



**Deuteranomaly**  
86, 10.356, 153.682

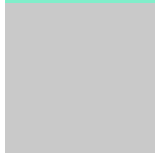


**Tritanomaly**  
87, 30.022, 196.433

# Monochromacy



**Original Color**  
87, 40.468, 168.965



**Achromatopsia**  
81, 0.010, 296.813



**Achromatomaly**  
83, 15.537, 171.996

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 87, 40.468, 168.965 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(129, 238, 202)` looks like.

```
.text, #text, p{  
    color:rgb(129, 238, 202)  
}
```

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(129, 238, 202) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(129, 238, 202) }
```

## Border

The CSS property to change the border of an element to CIELCh 87, 40.468, 168.965 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(129, 238, 202) }
```

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

```
.border{ border-color:rgb(129, 238, 202) }
```

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

Here you see how a box with a 4 pixel rgb(129, 238, 202) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(129, 238, 202); -webkit-box-  
shadow:4px 4px 4px 4px rgb(129, 238, 202);  
box-shadow:4px 4px 4px 4px rgb(129, 238,  
202) }
```

# Background

The CSS property to change the background color of an element to CIELCh 87, 40.468, 168.965 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(129, 238, 202) }
```

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

```
.background{ background-color: rgb(129,  
238, 202) }
```

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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