

# Converting Colors

CIELCh(87, 20.777, 163.040)

Have a look what the booklet for  
CIELCh(87, 20.777, 163.040)  
contains.

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# **Color**

**CIELCh(87, 20.924, 162.915)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B5E5CE
RGB	181, 229, 206
RGB Percent	71%, 90%, 81%
CMY	0.2918, 0.1036, 0.1938
CMYK	0.21, 0.00, 0.10, 0.10
HSL	151°, 48%, 80%
HSV	151°, 21%, 90%
XYZ	57.9453, 70.0064, 68.5802
YIQ	212.0260, -21.2250, -17.3290

# Conversions

## Conversions Part 2

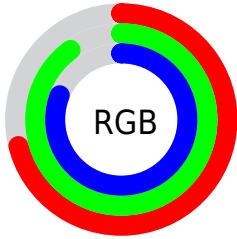
<b>Format</b>	<b>Color</b>
<b>RYB</b>	181, 213, 229
Decimal	11920846
CIELab	87.00, -20.00, 6.15
CIELCh	87, 20.924, 162.915
Yxy	70.0064, 0.2948, 0.3562
Android (android.graphics.Color)	4290110926 (0xFFB5E5CE)
YUV	212.0260, -2.9708, -27.2098
Hunter-Lab	83.6698, -22.8026, 9.9717

# Details

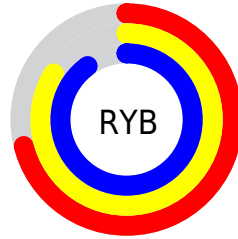
The CIELCh color  $87, 20.924, 162.915$  is a light color, and the websafe version is hex `99CCCC`. A complement of this color would be  $78, 21.544, 346.682$ , and the grayscale version is  $85, 0.010, 296.813$ .

A 20% lighter version of the original color is  $99, 6.178, 199.121$ , and  $67, 20.703, 163.622$  is the 20% darker color. If you saturate the color by 10%, you get  $85, 30.674, 161.843$ , and if you desaturate by 10%, it is  $89, 10.985, 163.886$ .

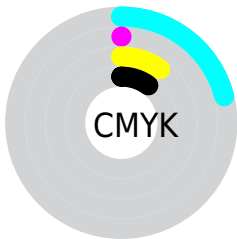
# Distribution



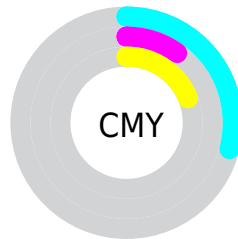
- Red (71%)
- Green (90%)
- Blue (81%)



- Red (71%)
- Yellow (84%)
- Blue (90%)



- Cyan (21%)
- Magenta (0%)
- Yellow (10%)
- Black (10%)




- Cyan (29%)
- Magenta (10%)
- Yellow (19%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 87, 20.924, 162.915 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, 20.924, 162.915 by changing the saturation by 10% instead.





 87, 20.924,  
162.915


 87, 20.924,  
162.915


 100, 20.924,  
162.915


 77, 20.924,  
162.915

 67, 20.924,  
162.915

 57, 20.924,  
162.915

 47, 20.924,  
162.915

 37, 20.924,  
162.915


 27, 20.924,  
162.915


 17, 20.924,


162.915


 7, 20.924, 162.915


 0, 20.924, 162.915

 87, 20.924,  
162.915

 87, 20.924,  
162.915

 85, 30.674,  
161.843


 89, 10.985,  
163.886


 84, 40.073,  
160.646

 91, 0.987, 165.170

 83, 48.952,  
159.294

 93, 8.962, 345.442

 82, 57.145,  
157.762

 93, 14.252,  
331.602

 81, 64.507,

 94, 16.519,  
324.996

156.029

■ 81, 70.950,  
154.080

■ 80, 76.462,  
151.922

■ 80, 80.767,  
149.874

# Harmonies

# Complementary

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



87, 20.924, 162.915



78, 21.544, 346.682

# Rectangle

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



87, 20.924, 162.915



87, 20.924, 212.915



87, 20.924, 342.915



87, 20.924, 32.915

# Sweetspot

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



87, 20.926, 162.913



99, 6.547, 164.358



88, 26.563, 128.698



53, 4.343, 164.294



0, 0.000, 0.000



53, 0.007, 296.813



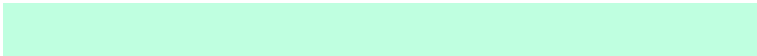


# Same Dimension

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



87, 20.926, 162.913



95, 27.165, 162.482



87, 15.884, 199.880



47, 5.693, 164.031



64, 66.582, 150.279



18, 25.744, 154.505



# Inverse Universe

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



78, 21.544, 346.682



84, 28.126, 347.122



78, 18.278, 22.223



45, 5.773, 345.552



38, 64.685, 3.870

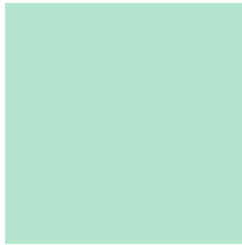


7, 27.419, 356.529



# Previews

## White Background



This preview shows how the CIELCh color 87, 20.924, 162.915 looks on a white background.

## Color Contrast Check

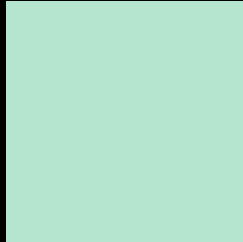
Large Text (above 18pt) WCAG AA × Fail

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 87, 20.924, 162.915 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

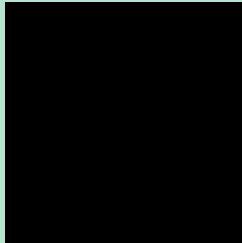
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

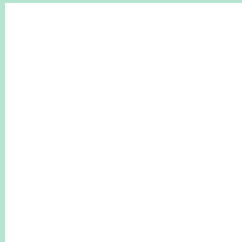
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 87, 20.924, 162.915**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 87, 20.924, 162.915.

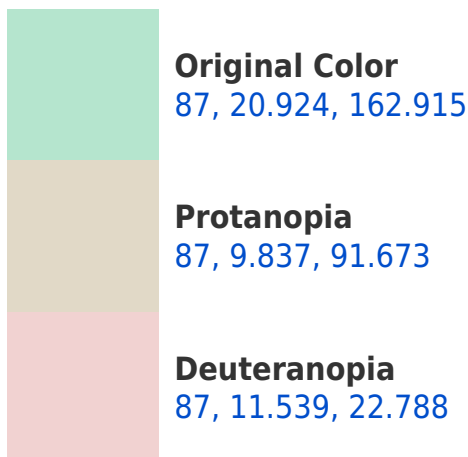


This preview shows how white text looks on a background with the CIELCh color 87, 20.924, 162.915.

# 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

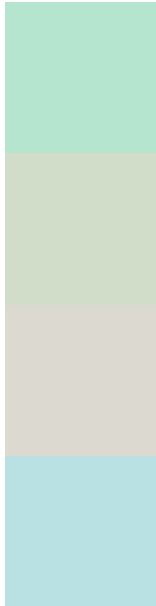






**Tritanopia**  
87, 14.949, 238.074

# Trichromacy



**Original Color**  
87, 20.924, 162.915

**Protanomaly**  
87, 11.360, 132.116

**Deuteranomaly**  
87, 4.743, 100.884

**Tritanomaly**  
87, 13.614, 205.189

# Monochromacy



**Original Color**  
87, 20.924, 162.915

**Achromatopsia**  
85, 0.010, 296.813

**Achromatomaly**  
86, 7.450, 164.663

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 87, 20.924, 162.915 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(181, 229, 206)` looks like.

```
.text, #text, p{  
    color:rgb(181, 229, 206)  
}
```

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(181, 229, 206) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(181, 229, 206) }
```

## Border

The CSS property to change the border of an element to CIELCh 87, 20.924, 162.915 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(181, 229, 206) }
```

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

```
.border{ border-color:rgb(181, 229, 206) }
```

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

Here you see how a box with a 4 pixel `rgb(181, 229, 206)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(181, 229, 206); -webkit-box-shadow:4px 4px 4px 4px rgb(181, 229, 206); box-shadow:4px 4px 4px 4px rgb(181, 229, 206) }
```

# Background

The CSS property to change the background color of an element to CIELCh 87, 20.924, 162.915 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(181, 229, 206) }
```

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

```
.background{ background-color: rgb(181,  
229, 206) }
```

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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