

# Converting Colors

CIELCh(87, 33.181, 155.311)

Have a look what the booklet for  
CIELCh(87, 33.181, 155.311)  
contains.

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**Color**

**CIELCh(87, 33.002, 155.663)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A4E9BF
RGB	164, 233, 191
RGB Percent	64%, 91%, 75%
CMY	0.3565, 0.0858, 0.2506
CMYK	0.30, 0.00, 0.18, 0.09
HSL	143°, 61%, 78%
HSV	143°, 30%, 91%
XYZ	53.9141, 70.0064, 60.0192
YIQ	207.5810, -27.6420, -27.6900

# Conversions

## Conversions Part 2

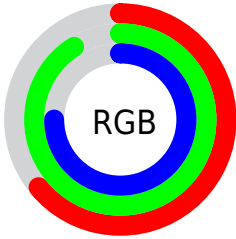
<b>Format</b>	<b>Color</b>
<b>RYB</b>	164, 214, 233
Decimal	10807743
CIELab	87.00, -30.07, 13.60
CIELCh	87, 33.002, 155.663
Yxy	70.0064, 0.2931, 0.3806
Android (android.graphics.Color)	4288997823 (0xFFA4E9BF)
YUV	207.5810, -8.1744, -38.2205
Hunter-Lab	83.6698, -31.4026, 16.0381

# Details

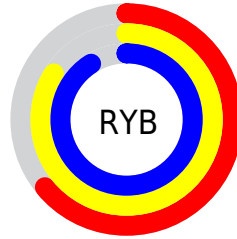
The CIELCh color **87, 33.002, 155.663** is a light color, and the websafe version is hex **CCFFCC**. A complement of this color would be **75, 33.668, 340.643**, and the grayscale version is **83, 0.010, 296.813**.

A 20% lighter version of the original color is **97, 12.727, 179.873**, and **67, 32.846, 156.019** is the 20% darker color. If you saturate the color by 10%, you get **86, 43.809, 154.541**, and if you desaturate by 10%, it is **89, 21.917, 156.648**.

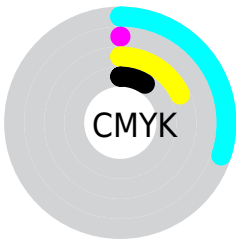
# Distribution



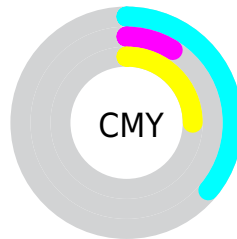
- Red (64%)
- Green (91%)
- Blue (75%)



- Red (64%)
- Yellow (84%)
- Blue (91%)



- Cyan (30%)
- Magenta (0%)
- Yellow (18%)
- Black (9%)



- Cyan (36%)
- Magenta (9%)
- Yellow (25%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 87, 33.002, 155.663 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, 33.002, 155.663 by changing the saturation by 10% instead.



■ 87, 33.002,  
155.663

■ 87, 33.002,  
155.663

■ 100, 33.002,  
155.663

■ 77, 33.002,  
155.663

■ 67, 33.002,  
155.663

■ 57, 33.002,  
155.663

■ 47, 33.002,  
155.663

■ 37, 33.002,  
155.663


■ 27, 33.002,  
155.663


■ 17, 33.002,


155.663

 7, 33.002, 155.663


 0, 33.002, 155.663


 87, 33.002,  
155.663


 87, 33.002,  
155.663

 86, 43.809,  
154.541


 89, 21.917,  
156.648

 84, 54.139,  
153.259

 90, 10.719,  
157.529


 83, 63.792,  
151.792

 92, 0.449, 337.336


 83, 72.580,  
150.124


 94, 10.871,  
335.926


 82, 80.360,

 95, 13.668,  
324.894

148.250

 82, 87.058,  
146.192

 81, 92.748,  
144.043

 81, 92.962,  
143.962

# Harmonies

# Complementary

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



87, 33.002, 155.663



75, 33.668, 340.643

# Rectangle

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



87, 33.002, 155.663



87, 33.002, 205.663



87, 33.002, 335.663



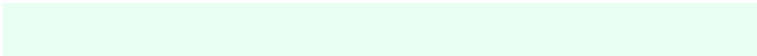
87, 33.002, 25.663

# Sweetspot

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



87, 33.004, 155.662



98, 10.801, 157.577



89, 36.809, 123.356



52, 7.510, 157.452



0, 0.000, 0.000



53, 0.007, 296.813



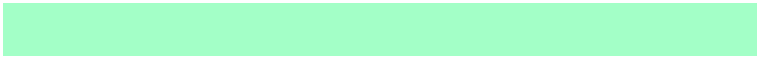


# Same Dimension

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



87, 33.004, 155.662



93, 42.970, 154.942



88, 23.335, 187.403



48, 6.373, 157.541



65, 76.284, 144.345



19, 30.062, 148.210



# Inverse Universe

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



75, 33.668, 340.643



78, 43.963, 341.281



74, 27.302, 12.920



46, 6.424, 338.902



40, 67.862, 352.100

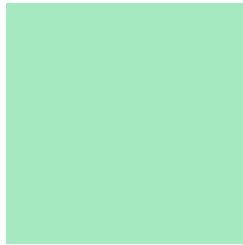


8, 29.946, 347.437



# Previews

## White Background



This preview shows how the CIELCh color 87, 33.002, 155.663 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, 33.002, 155.663 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

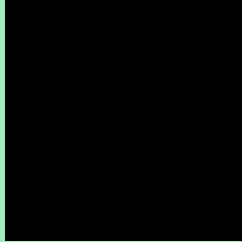
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

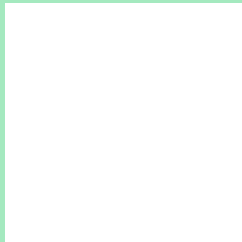
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 87, 33.002, 155.663

## Background



This preview shows how black text looks on a background with the CIELCh color 87, 33.002, 155.663.



This preview shows how white text looks on a background with the CIELCh color 87, 33.002, 155.663.

# 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, 33.002, 155.663

**Protanopia**  
87, 18.294, 94.046

**Deuteranopia**  
87, 15.715, 45.712



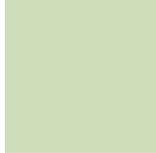


**Tritanopia**  
87, 18.676, 228.957

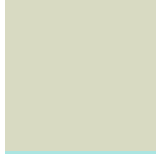
# Trichromacy



**Original Color**  
87, 33.002, 155.663



**Protanomaly**  
87, 20.428, 127.841

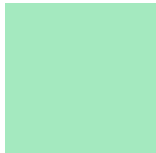


**Deuteranomaly**  
86, 12.540, 112.534

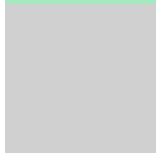


**Tritanomaly**  
87, 19.572, 191.917

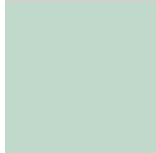
# Monochromacy



**Original Color**  
87, 33.002, 155.663



**Achromatopsia**  
83, 0.010, 296.813



**Achromatomaly**  
85, 12.062, 157.769

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 87, 33.002, 155.663 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(164, 233, 191)` looks like.

```
.text, #text, p{  
    color:rgb(164, 233, 191)  
}
```

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(164, 233, 191) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(164, 233, 191) }
```

## Border

The CSS property to change the border of an element to CIELCh 87, 33.002, 155.663 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(164, 233, 191) }
```

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

```
.border{ border-color:rgb(164, 233, 191) }
```

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

Here you see how a box with a 4 pixel rgb(164, 233, 191) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(164, 233, 191); -webkit-box-  
shadow:4px 4px 4px 4px rgb(164, 233, 191);  
box-shadow:4px 4px 4px 4px rgb(164, 233,  
191) }
```

# Background

The CSS property to change the background color of an element to CIELCh 87, 33.002, 155.663 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(164, 233, 191) }
```

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

```
.background{ background-color: rgb(164,  
233, 191) }
```

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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