

# Converting Colors

CIELCh(90, 33.726, 165.656)

Have a look what the booklet for  
CIELCh(90, 33.726, 165.656)  
contains.

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**Color**

**CIELCh(90, 33.746, 165.640)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9FF3D1
RGB	159, 243, 209
RGB Percent	62%, 95%, 82%
CMY	0.3753, 0.0458, 0.1792
CMYK	0.35, 0.00, 0.14, 0.05
HSL	156°, 78%, 79%
HSV	156°, 35%, 95%
XYZ	58.0437, 76.3034, 72.1819
YIQ	214.0080, -39.1500, -28.3820

# Conversions

## Conversions Part 2

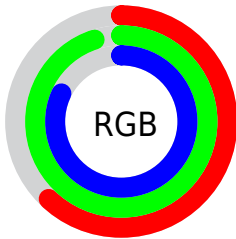
<b>Format</b>	<b>Color</b>
<b>RYB</b>	159, 212, 243
Decimal	10482641
CIELab	90.00, -32.69, 8.37
CIELCh	90, 33.746, 165.640
Yxy	76.3034, 0.2810, 0.3695
Android (android.graphics.Color)	4288672721 (0xFF9FF3D1)
YUV	214.0080, -2.4689, -48.2420
Hunter-Lab	87.3518, -34.2555, 12.1528

# Details

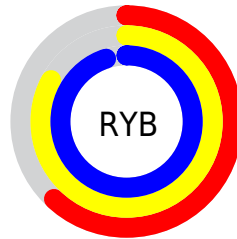
The CIELCh color **90, 33.746, 165.640** is a light color, and the websafe version is hex **99FFCC**. A complement of this color would be **75, 36.094, 352.836**, and the grayscale version is **86, 0.010, 296.813**.

A 20% lighter version of the original color is **97, 13.092, 198.632**, and **70, 33.359, 166.171** is the 20% darker color. If you saturate the color by 10%, you get **89, 42.754, 164.371**, and if you desaturate by 10%, it is **91, 24.265, 166.778**.

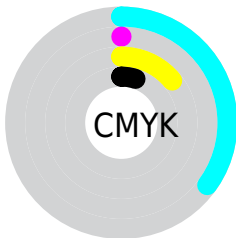
# Distribution



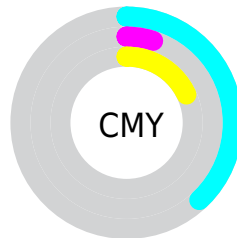
- Red (62%)
- Green (95%)
- Blue (82%)



- Red (62%)
- Yellow (83%)
- Blue (95%)



- Cyan (35%)
- Magenta (0%)
- Yellow (14%)
- Black (5%)




- Cyan (38%)
- Magenta (5%)
- Yellow (18%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 90, 33.746, 165.640 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, 33.746, 165.640 by changing the saturation by 10% instead.





 90, 33.746,  
165.640


 90, 33.746,  
165.640


 100, 33.746,  
165.640


 80, 33.746,  
165.640


 70, 33.746,  
165.640

 60, 33.746,  
165.640


 50, 33.746,  
165.640

 40, 33.746,  
165.640


 30, 33.746,  
165.640


 20, 33.746,


165.640


 10, 33.746,  
165.640


 0, 33.746, 165.640


 90, 33.746,  
165.640

 90, 33.746,  
165.640

 89, 42.754,  
164.371

 91, 24.265,  
166.778

 88, 51.115,  
162.950

 93, 14.474,  
167.817

 87, 58.674,  
161.348

 95, 4.520, 168.830

 86, 65.314,  
159.544

 97, 4.984, 346.099

 97, 7.282, 324.653

■ 86, 70.985,  
157.523

■ 85, 75.731,  
155.296

■ 85, 78.051,  
154.040

# Harmonies

# Complementary

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



90, 33.746, 165.640



75, 36.094, 352.836

# Rectangle

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



90, 33.746, 165.640



90, 33.746, 215.640



90, 33.746, 345.640



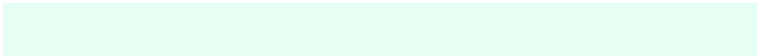
90, 33.746, 35.640

# Sweetspot

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



90, 33.747, 165.639



98, 10.364, 168.265



91, 46.612, 130.322



52, 7.068, 168.125



0, 0.000, 0.000



53, 0.007, 296.813



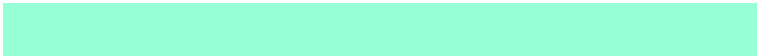


# Same Dimension

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



90, 33.747, 165.639



93, 41.169, 164.822



89, 24.450, 206.529



50, 5.699, 168.318



67, 63.344, 154.459



21, 26.427, 158.002



# Inverse Universe

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



75, 36.094, 352.836



74, 44.565, 353.793



75, 31.457, 28.839



48, 5.808, 349.931



40, 66.897, 11.229

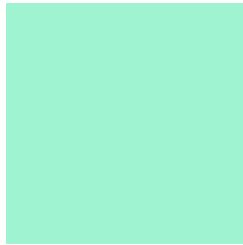


9, 29.679, 3.592



# Previews

## White Background



This preview shows how the CIELCh color 90, 33.746, 165.640 looks on a white background.

## Color Contrast Check

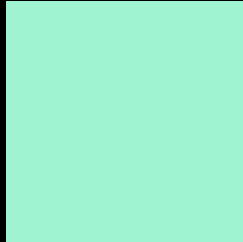
Large Text (above 18pt) WCAG AA × Fail

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 90, 33.746, 165.640 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, 33.746, 165.640**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 90, 33.746, 165.640.

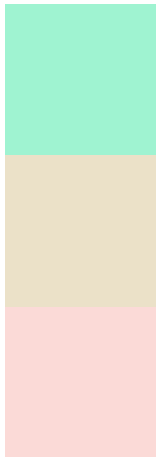


This preview shows how white text looks on a background with the CIELCh color 90, 33.746, 165.640.

# 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

90, 33.746, 165.640


### Protanopia

90, 13.466, 92.905

### Deuteranopia

90, 12.335, 27.429



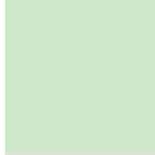


**Tritanopia**  
90, 22.329, 224.694

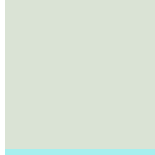
# Trichromacy



**Original Color**  
90, 33.746, 165.640



**Protanomaly**  
90, 17.645, 140.013



**Deuteranomaly**  
89, 7.991, 133.663

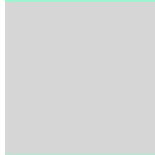


**Tritanomaly**  
90, 23.327, 196.615

# Monochromacy



**Original Color**  
90, 33.746, 165.640



**Achromatopsia**  
86, 0.010, 296.813



**Achromatomaly**  
87, 13.017, 167.029

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 90, 33.746, 165.640 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(159, 243, 209)` looks like.

```
.text, #text, p{  
    color:rgb(159, 243, 209)  
}
```

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(159, 243, 209) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(159, 243, 209) }
```

## Border

The CSS property to change the border of an element to CIELCh 90, 33.746, 165.640 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(159, 243, 209) }
```

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

```
.border{ border-color:rgb(159, 243, 209) }
```

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

Here you see how a box with a 4 pixel `rgb(159, 243, 209)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(159, 243, 209); -webkit-box-  
shadow:4px 4px 4px 4px rgb(159, 243, 209);  
box-shadow:4px 4px 4px 4px rgb(159, 243,  
209) }
```

# Background

The CSS property to change the background color of an element to CIELCh 90, 33.746, 165.640 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(159, 243, 209) }
```

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

```
.background{ background-color: rgb(159,  
243, 209) }
```

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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