

# Converting Colors

CIELCh(78, 32.684, 163.900)

Have a look what the booklet for  
CIELCh(78, 32.684, 163.900)  
contains.

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**Color**

**CIELCh(78, 32.362, 163.980)**

# Conversions

## Conversions Part 1

Format	Color
Hex	83D0AF
RGB	131, 208, 175
RGB Percent	51%, 82%, 69%
CMY	0.4851, 0.1831, 0.3126
CMYK	0.37, 0.00, 0.16, 0.18
HSL	154°, 45%, 67%
HSV	154°, 37%, 82%
XYZ	39.7995, 53.2120, 48.8786
YIQ	181.2150, -35.2990, -26.5870

# Conversions

## Conversions Part 2

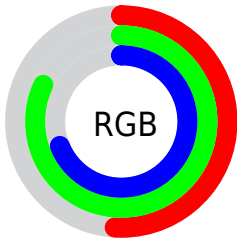
Format	Color
<a href="#">RYB</a>	<a href="#">131, 180, 208</a>
Decimal	<a href="#">8638639</a>
CIELab	<a href="#">78.00, -31.11, 8.93</a>
CIElCh	<a href="#">78, 32.362, 163.980</a>
Yxy	<a href="#">53.2120, 0.2805, 0.3750</a>
Android (android.graphics.Color)	<a href="#">4286828719 (0xFF83D0AF)</a>
YUV	<a href="#">181.2150, -3.0640, -44.0386</a>
Hunter-Lab	<a href="#">72.9466, -30.2673, 11.3347</a>

# Details

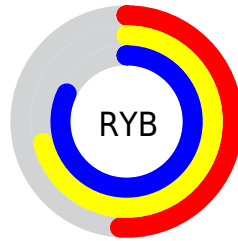
The CIELCh color **78, 32.362, 163.980** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **64, 34.492, 351.598**, and the grayscale version is **74, 0.009, 296.813**.

A 20% lighter version of the original color is **95, 26.584, 170.069**, and **58, 32.161, 164.492** is the 20% darker color. If you saturate the color by 10%, you get **77, 40.396, 162.694**, and if you desaturate by 10%, it is **79, 23.896, 165.129**.

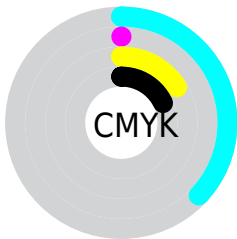
# Distribution



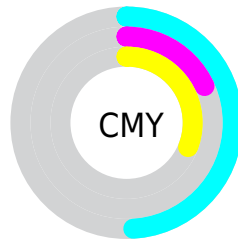
- Red (51%)
- Green (82%)
- Blue (69%)



- Red (51%)
- Yellow (71%)
- Blue (82%)



- Cyan (37%)
- Magenta (0%)
- Yellow (16%)
- Black (18%)




- Cyan (49%)
- Magenta (18%)
- Yellow (31%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 78, 32.362, 163.980 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 78, 32.362, 163.980 by changing the saturation by 10% instead.





 78, 32.362,  
163.980


 78, 32.362,  
163.980


 100, 32.362,  
163.980


 68, 32.362,  
163.980


 98, 32.362,  
163.980

 58, 32.362,  
163.980

 48, 32.362,  
163.980

 38, 32.362,  
163.980

 28, 32.362,  
163.980

 18, 32.362,  
163.980

 8, 32.362, 163.980

78, 32.362,  
163.980

78, 32.362,  
163.980

77, 40.396,  
162.694

79, 23.896,  
165.129

76, 47.845,  
161.249

81, 15.141,  
166.170

75, 54.576,  
159.619

82, 6.234, 167.148

75, 60.491,  
157.784

84, 2.715, 347.769


86, 11.615,  
348.684

74, 65.557,  
155.735


88, 20.004,  
348.687

74, 69.834,  
153.496

88, 22.669,

 74, 71.054,  
152.826

338.572

 89, 25.918,  
330.875

 89, 29.277,  
325.444

# Harmonies

# Complementary

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



78, 32.362, 163.980



64, 34.492, 351.598

# Rectangle

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



78, 32.362, 163.980



78, 32.362, 213.980



78, 32.362, 343.980



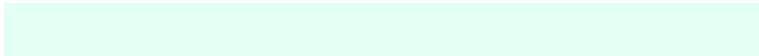
78, 32.362, 33.980

# Sweetspot

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



78, 32.363, 163.979



98, 11.587, 166.742



79, 43.740, 129.657



52, 7.783, 166.610



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



78, 32.363, 163.979



93, 44.810, 163.024



77, 23.212, 204.638



43, 5.089, 166.909



61, 60.192, 153.202



13, 20.880, 158.591



# Inverse Universe

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



64, 34.492, 351.598



73, 48.299, 352.697



64, 30.357, 27.725



41, 5.176, 348.466



36, 61.884, 8.500

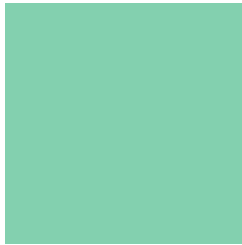


5, 21.193, 358.412



# Previews

## White Background



This preview shows how the CIELCh color 78, 32.362, 163.980 looks on a white background.

## Color Contrast Check

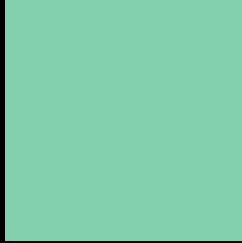
Large Text (above 18pt) WCAG AA × Fail

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 78, 32.362, 163.980 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 78, 32.362, 163.980**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 78, 32.362, 163.980.



This preview shows how white text looks on a background with the CIELCh color 78, 32.362, 163.980.

# 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**  
78, 32.362, 163.980

**Protanopia**  
78, 13.381, 92.047

**Deuteranopia**  
78, 11.853, 33.216





**Tritanopia**  
78, 21.037, 222.367

# Trichromacy



**Original Color**  
78, 32.362, 163.980



**Protanomaly**  
77, 16.511, 137.520



**Deuteranomaly**  
77, 8.590, 129.908

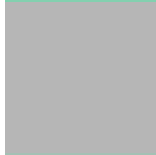


**Tritanomaly**  
78, 22.248, 195.001

# Monochromacy



**Original Color**  
78, 32.362, 163.980



**Achromatopsia**  
74, 0.009, 296.813



**Achromatomaly**  
75, 12.188, 166.420

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 78, 32.362, 163.980 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(131, 208, 175)` looks like.

```
.text, #text, p{  
    color:rgb(131, 208, 175)  
}
```

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(131, 208, 175) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 208, 175) }
```

## Border

The CSS property to change the border of an element to CIELCh 78, 32.362, 163.980 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(131, 208, 175) }
```

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

```
.border{ border-color:rgb(131, 208, 175) }
```

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

Here you see how a box with a 4 pixel `rgb(131, 208, 175)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(131, 208, 175); -webkit-box-  
shadow:4px 4px 4px 4px rgb(131, 208, 175);  
box-shadow:4px 4px 4px 4px rgb(131, 208,  
175) }
```

# Background

The CSS property to change the background color of an element to CIELCh 78, 32.362, 163.980 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 208, 175) }
```

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

```
.background{ background-color: rgb(131,  
208, 175) }
```

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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