

# Converting Colors

CIELCh(78, 33.900, 190.570)

Have a look what the booklet for  
CIELCh(78, 33.900, 190.570)  
contains.

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**Color**

**CIELCh(78, 33.900, 190.572)**

# Conversions

## Conversions Part 1

Format	Color
Hex	63D2CB
RGB	99, 210, 203
RGB Percent	39%, 82%, 80%
CMY	0.6107, 0.1755, 0.2029
CMYK	0.53, 0.00, 0.03, 0.18
HSL	176°, 55%, 61%
HSV	176°, 53%, 82%
XYZ	39.0953, 53.2120, 64.8686
YIQ	176.0130, -63.9090, -25.7090

# Conversions

## Conversions Part 2

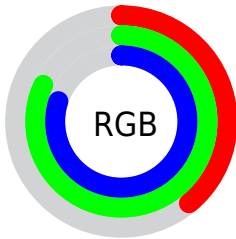
<b>Format</b>	<b>Color</b>
<b>RYB</b>	99, 156, 210
Decimal	6542027
CIELab	78.00, -33.32, -6.22
CIElCh	78, 33.900, 190.572
Yxy	53.2120, 0.2487, 0.3386
Android (android.graphics.Color)	4284732107 (0xFF63D2CB)
YUV	176.0130, 13.3046, -67.5404
Hunter-Lab	72.9466, -31.9905, -1.6617

# Details

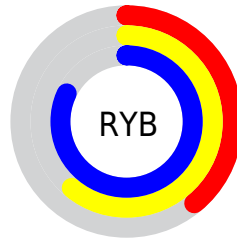
The CIELCh color **78, 33.900, 190.572** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **56, 47.610, 21.186**, and the grayscale version is **72, 0.009, 296.813**.

A 20% lighter version of the original color is **94, 29.902, 197.576**, and **58, 33.908, 190.560** is the 20% darker color. If you saturate the color by 10%, you get **77, 38.092, 189.887**, and if you desaturate by 10%, it is **79, 28.841, 191.248**.

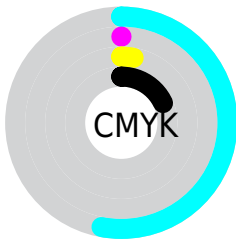
# Distribution



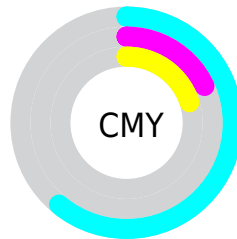
- Red (39%)
- Green (82%)
- Blue (80%)



- Red (39%)
- Yellow (61%)
- Blue (82%)



- Cyan (53%)
- Magenta (0%)
- Yellow (3%)
- Black (18%)




- Cyan (61%)
- Magenta (18%)
- Yellow (20%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 78, 33.900, 190.572 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, 33.900, 190.572 by changing the saturation by 10% instead.





 78, 33.900,  
190.572


 78, 33.900,  
190.572


 100, 33.900,  
190.572


 68, 33.900,  
190.572


 98, 33.900,  
190.572

 58, 33.900,  
190.572

 48, 33.900,  
190.572

 38, 33.900,  
190.572

 28, 33.900,  
190.572

 18, 33.900,  
190.572

 8, 33.900, 190.572

0, 33.900, 190.572

78, 33.900,  
190.572

78, 33.900,  
190.572

77, 38.092,  
189.887

79, 28.841,  
191.248

77, 41.355,  
189.187

80, 23.012,  
191.930

77, 43.683,  
188.457

81, 16.531,  
192.621

76, 45.131,  
187.682

82, 9.524, 193.336

76, 45.782,  
187.098

84, 2.116, 194.239

86, 5.583, 14.573

87, 13.474, 15.335

■ 88, 16.731, 14.237

■ 88, 16.781, 11.901

# Harmonies

# Complementary

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



78, 33.900, 190.572



56, 47.610, 21.186

# Rectangle

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



78, 33.900, 190.572



78, 33.900, 240.572



78, 33.900, 10.572



78, 33.900, 60.572

# Sweetspot

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



78, 33.900, 190.570



97, 13.826, 193.089



76, 68.930, 138.740



52, 9.284, 192.940



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, 33.900, 190.570



92, 44.449, 189.824



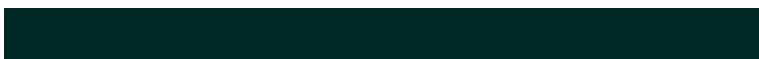
64, 31.437, 257.702



43, 4.241, 193.591



62, 38.753, 187.233



14, 14.644, 188.929



# Inverse Universe

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



56, 47.610, 21.186



62, 67.550, 24.135



66, 39.340, 62.150



41, 4.469, 14.821



35, 73.901, 37.265

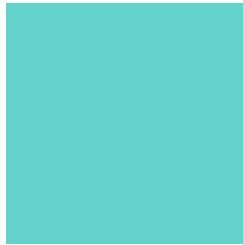


4, 20.028, 16.524



# Previews

## White Background



This preview shows how the CIE LCh color 78, 33.900, 190.572 looks on a white background.

## Color Contrast Check

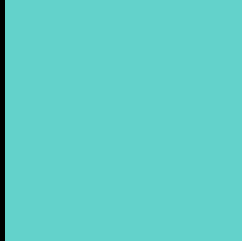
Large Text (above 18pt) WCAG AA × Fail

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 78, 33.900, 190.572 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

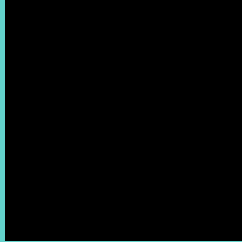
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

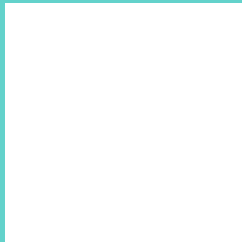
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 78, 33.900, 190.572

## Background



This preview shows how black text looks on a background with the CIELCh color 78, 33.900, 190.572.

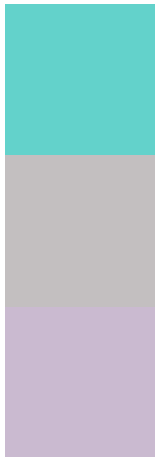


This preview shows how white text looks on a background with the CIELCh color 78, 33.900, 190.572.

# 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, 33.900, 190.572

**Protanopia**  
78, 1.581, 359.398

**Deuteranopia**  
77, 13.205, 317.022





**Tritanopia**  
78, 30.171, 215.224

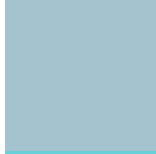
# Trichromacy



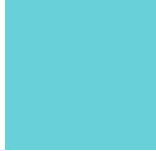
**Original Color**  
78, 33.900, 190.572



**Protanomaly**  
77, 13.364, 193.793

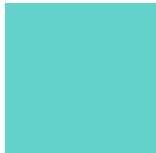


**Deuteranomaly**  
77, 11.743, 229.100

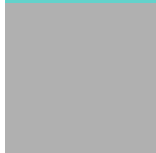


**Tritanomaly**  
78, 30.896, 205.340

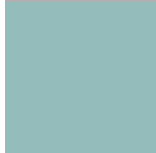
# Monochromacy



**Original Color**  
78, 33.900, 190.572



**Achromatopsia**  
72, 0.009, 296.813



**Achromatomaly**  
73, 14.113, 193.890

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 78, 33.900, 190.572 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(99, 210, 203)` looks like.

```
.text, #text, p{  
    color:rgb(99, 210, 203)  
}
```

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(99, 210, 203) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 210, 203) }
```

## Border

The CSS property to change the border of an element to CIELCh 78, 33.900, 190.572 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(99, 210, 203) }
```

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

```
.border{ border-color:rgb(99, 210, 203) }
```

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

Here you see how a box with a 4 pixel `rgb(99, 210, 203)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 210, 203); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 210, 203);  
box-shadow:4px 4px 4px 4px rgb(99, 210,  
203) }
```

# Background

The CSS property to change the background color of an element to CIELCh 78, 33.900, 190.572 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 210, 203) }
```

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

```
.background{ background-color: rgb(99, 210,  
203) }
```

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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