

# Converting Colors

CIELCh(70, 12.341, 199.702)

Have a look what the booklet for  
CIELCh(70, 12.341, 199.702)  
contains.

<b>CIELCh(70, 12.418, 198.425)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# Color

**CIELCh(70, 12.418, 198.425)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8FB2B2
RGB	143, 178, 178
RGB Percent	56%, 70%, 70%
CMY	0.4403, 0.3030, 0.3030
CMYK	0.20, 0.00, 0.00, 0.30
HSL	180°, 18%, 63%
HSV	180°, 20%, 70%
XYZ	35.1543, 40.7494, 47.9866
YIQ	167.5350, -20.8600, -7.4200

# Conversions

## Conversions Part 2

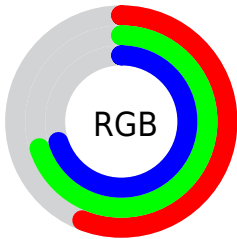
<b>Format</b>	<b>Color</b>
<b>RYB</b>	143, 161, 178
Decimal	9417394
CIELab	70.00, -11.78, -3.92
CIELCh	70, 12.418, 198.425
Yxy	40.7494, 0.2838, 0.3289
Android (android.graphics.Color)	4287607474 (0xFF8FB2B2)
YUV	167.5350, 5.1592, -21.5172
Hunter-Lab	63.8353, -13.4111, 0.1148

# Details

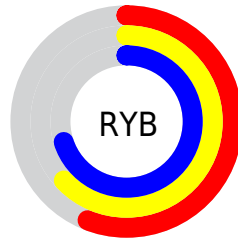
The CIELCh color **70, 12.418, 198.425** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **62, 14.107, 20.776**, and the grayscale version is **69, 0.009, 296.813**.

A 20% lighter version of the original color is **90, 12.608, 198.608**, and **50, 12.244, 198.139** is the 20% darker color. If you saturate the color by 10%, you get **69, 18.087, 197.950**, and if you desaturate by 10%, it is **71, 6.287, 198.960**.

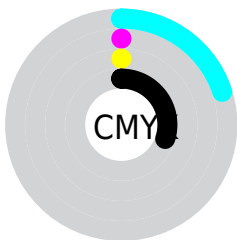
# Distribution



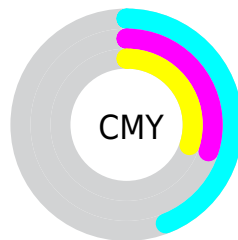
- Red (56%)
- Green (70%)
- Blue (70%)



- Red (56%)
- Yellow (63%)
- Blue (70%)



- Cyan (20%)
- Magenta (0%)
- Yellow (0%)
- Black (30%)




- Cyan (44%)
- Magenta (30%)
- Yellow (30%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 12.418, 198.425 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 70, 12.418, 198.425 by changing the saturation by 10% instead.





 70, 12.418,  
198.425


 70, 12.418,  
198.425


 100, 12.418,  
198.425


 60, 12.418,  
198.425


 90, 12.418,  
198.425

 50, 12.418,  
198.425

 40, 12.418,  
198.425

 30, 12.418,  
198.425

 20, 12.418,  
198.425

 10, 12.418,  
198.425

 0, 12.418, 198.425

70, 12.418,  
198.425

70, 12.418,  
198.425

69, 18.087,  
197.950

71, 6.287, 198.960

68, 23.186,  
197.540

73, 0.207, 16.972

67, 27.618,  
197.191

74, 6.968, 19.914

67, 31.302,  
196.905

77, 20.983, 21.162

66, 34.182,  
196.685

79, 28.111, 21.784

66, 36.245,  
196.528

80, 30.376, 21.981

66, 37.526,  
196.431

80, 30.376, 21.980

66, 38.206,

80, 30.376, 21.979

196.379

■ 66, 38.225,  
196.378

# Harmonies

# Complementary

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



70, 12.418, 198.425



62, 14.107, 20.776

# Rectangle

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



70, 12.418, 198.425



70, 12.418, 248.425



70, 12.418, 18.425



70, 12.418, 68.425

# Sweetspot

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



70, 12.419, 198.419



91, 4.877, 199.195



69, 23.336, 142.791



49, 3.256, 199.149



96, 0.011, 296.813



49, 0.007, 296.813





# Same Dimension

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



70, 12.419, 198.419



88, 18.511, 198.190



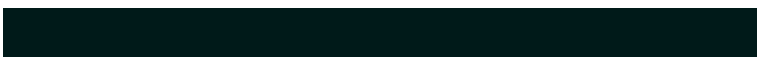
65, 11.205, 256.348



37, 3.691, 198.982



57, 34.228, 196.378



7, 9.138, 199.095



# Inverse Universe

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



62, 14.107, 20.776



77, 21.747, 21.239



67, 11.856, 71.222



35, 3.911, 19.908



31, 70.928, 39.524



2, 9.156, 19.401



# Previews

## White Background



This preview shows how the CIELCh color 70, 12.418, 198.425 looks on a white background.

## Color Contrast Check

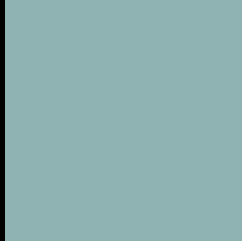
Large Text (above 18pt) WCAG AA × Fail

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 70, 12.418, 198.425 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

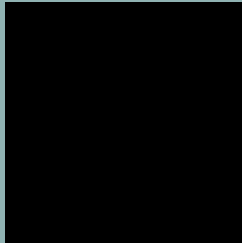
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 70, 12.418, 198.425

## Background



This preview shows how black text looks on a background with the CIELCh color 70, 12.418, 198.425.

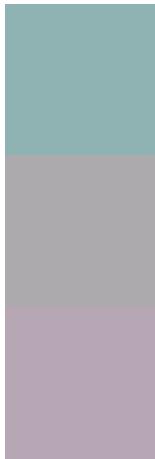


This preview shows how white text looks on a background with the CIELCh color 70, 12.418, 198.425.

# 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**  
70, 12.418, 198.425

**Protanopia**  
70, 2.010, 324.420

**Deuteranopia**  
70, 10.000, 330.252





**Tritanopia**  
70, 12.948, 235.212

# Trichromacy



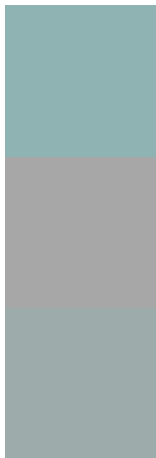
**Original Color**  
70, 12.418, 198.425

**Protanomaly**  
70, 4.175, 214.428

**Deuteranomaly**  
70, 4.979, 282.197

**Tritanomaly**  
70, 12.353, 222.215

# Monochromacy



**Original Color**  
70, 12.418, 198.425

**Achromatopsia**  
68, 0.008, 296.813

**Achromatomaly**  
69, 4.804, 199.097

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 12.418, 198.425 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(143, 178, 178)` looks like.

```
.text, #text, p{  
    color:rgb(143, 178, 178)  
}
```

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(143, 178, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(143, 178, 178) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 12.418, 198.425 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(143, 178, 178) }
```

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

```
.border{ border-color:rgb(143, 178, 178) }
```

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

Here you see how a box with a 4 pixel `rgb(143, 178, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(143, 178, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(143, 178, 178);  
box-shadow:4px 4px 4px 4px rgb(143, 178,  
178) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 12.418, 198.425 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(143, 178, 178) }
```

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

```
.background{ background-color: rgb(143,  
178, 178) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor