

# Converting Colors

CIELCh(70, 18.004, 216.638)

Have a look what the booklet for  
CIELCh(70, 18.004, 216.638)  
contains.

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# Color

**CIELCh(70, 17.998, 215.964)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | 80B4BE                      |
| RGB         | 128, 180, 190               |
| RGB Percent | 50%, 71%, 75%               |
| CMY         | 0.4995, 0.2956, 0.2564      |
| CMYK        | 0.33, 0.05, 0.00, 0.26      |
| HSL         | 190°, 32%, 62%              |
| HSV         | 190°, 33%, 74%              |
| XYZ         | 34.3420, 40.7494, 54.5502   |
| YIQ         | 165.5920, -34.2020, -7.9140 |

# Conversions

## Conversions Part 2

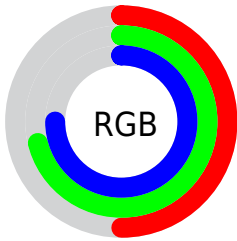
| Format                              | Color   |
|-------------------------------------|---|
| <a href="#">RYB</a>                 | <a href="#">128, 156, 190</a>                   |
| Decimal                             | <a href="#">8434878</a>                         |
| CIELab                              | <a href="#">70.00, -14.57, -10.57</a>           |
| CIELCh                              | <a href="#">70, 17.998, 215.964</a>             |
| Yxy                                 | <a href="#">40.7494, 0.2649,<br/>0.3143</a>     |
| Android<br>(android.graphics.Color) | <a href="#">4286624958<br/>(0xFF80B4BE)</a>     |
| YUV                                 | <a href="#">165.5920, 12.0331,<br/>-32.9682</a> |
| Hunter-Lab                          | <a href="#">63.8353, -15.6825,<br/>-5.9814</a>  |

# Details

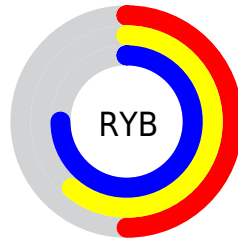
The CIELCh color **70, 17.998, 215.964** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **62, 22.697, 35.519**, and the grayscale version is **68, 0.008, 296.813**.

A 20% lighter version of the original color is **90, 17.891, 215.347**, and **50, 17.908, 217.019** is the 20% darker color. If you saturate the color by 10%, you get **68, 22.494, 216.597**, and if you desaturate by 10%, it is **72, 12.959, 215.539**.

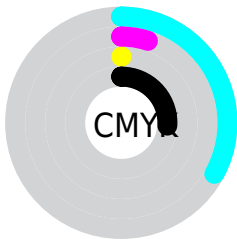
# Distribution



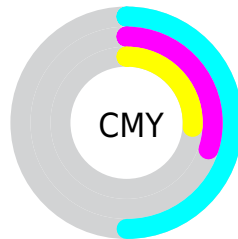
- Red (50%)
- Green (71%)
- Blue (75%)



- Red (50%)
- Yellow (61%)
- Blue (75%)



- Cyan (33%)
- Magenta (5%)
- Yellow (0%)
- Black (26%)




- Cyan (50%)
- Magenta (30%)
- Yellow (26%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 17.998, 215.964 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, 17.998, 215.964 by changing the saturation by 10% instead.





 70, 17.998,  
215.964


 70, 17.998,  
215.964


 100, 17.998,  
215.964


 60, 17.998,  
215.964


 90, 17.998,  
215.964

 50, 17.998,  
215.964

 40, 17.998,  
215.964

 30, 17.998,  
215.964

 20, 17.998,  
215.964

 10, 17.998,  
215.964

 0, 17.998, 215.964

70, 17.998,  
215.964

70, 17.998,  
215.964

68, 22.494,  
216.597

72, 12.959,  
215.539

66, 26.356,  
217.499

74, 7.471, 215.303

76, 1.626, 215.422

65, 29.507,  
218.724

79, 4.498, 34.946

64, 31.897,  
220.339

81, 10.830, 35.060

62, 33.525,  
222.413

83, 17.313, 35.182

85, 21.834, 36.595

61, 34.452,  
225.006

86, 21.236, 41.387

60, 34.845,  
227.159

87, 20.799, 46.418

# Harmonies

# Complementary

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



70, 17.998, 215.964



62, 22.697, 35.519

# Rectangle

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



70, 17.998, 215.964



70, 17.998, 265.964



70, 17.998, 35.964



70, 17.998, 85.964

# Sweetspot

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



70, 17.998, 215.960



95, 7.355, 215.274



72, 36.946, 146.391



51, 5.040, 215.288



99, 0.012, 296.813



52, 0.007, 296.813



# Same Dimension

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



70, 17.998, 215.960



87, 25.866, 216.377



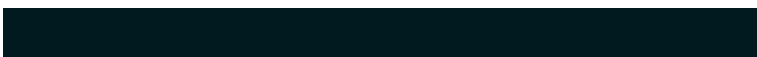
62, 23.476, 274.933



39, 3.353, 215.269



51, 30.462, 226.683



7, 9.666, 221.719





# Inverse Universe

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



61, 36.736, 331.217



75, 54.073, 331.664



70, 23.806, 85.548



37, 6.323, 329.742



36, 71.389, 335.781

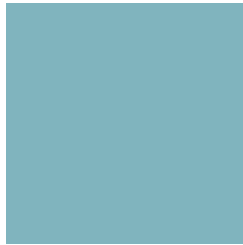


3, 18.315, 332.161



# Previews

## White Background



This preview shows how the CIELCh color 70, 17.998, 215.964 looks on a white background.

## Color Contrast Check

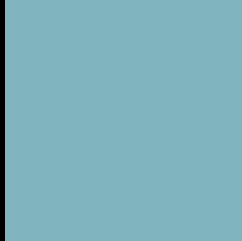
Large Text (above 18pt) WCAG AA × Fail

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, 17.998, 215.964 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

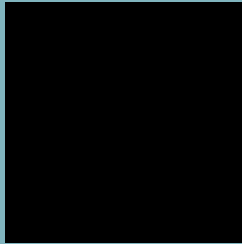
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

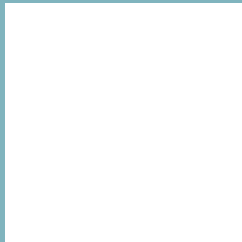
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 70, 17.998, 215.964

## Background



This preview shows how black text looks on a background with the CIELCh color 70, 17.998, 215.964.



This preview shows how white text looks on a background with the CIELCh color 70, 17.998, 215.964.

# 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





**Tritanopia**  
70, 17.991, 223.641



# Trichromacy



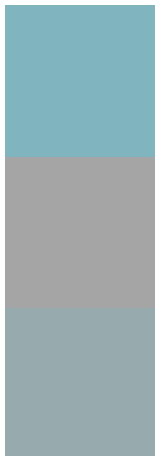
**Original Color**  
70, 17.998, 215.964

**Protanomaly**  
70, 9.049, 245.851

**Deuteranomaly**  
70, 11.646, 270.010

**Tritanomaly**  
70, 17.830, 221.924

# Monochromacy



**Original Color**  
70, 17.998, 215.964

**Achromatopsia**  
68, 0.008, 296.813

**Achromatomaly**  
68, 7.188, 216.803

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 17.998, 215.964 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(128, 180, 190)` looks like.

```
.text, #text, p{  
    color:rgb(128, 180, 190)  
}
```

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(128, 180, 190) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 180, 190) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 17.998, 215.964 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(128, 180, 190) }
```

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

```
.border{ border-color:rgb(128, 180, 190) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 180, 190)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 180, 190); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 180, 190);  
box-shadow:4px 4px 4px 4px rgb(128, 180,  
190) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 17.998, 215.964 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 180, 190) }
```

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

```
.background{ background-color: rgb(128,  
180, 190) }
```

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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