

# Converting Colors

CIELCh(70, 18.140, 118.759)

Have a look what the booklet for  
CIELCh(70, 18.140, 118.759)  
contains.

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# Color

**CIELCh(70, 18.199, 118.442)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A7AF8E
RGB	167, 175, 142
RGB Percent	65%, 69%, 56%
CMY	0.3457, 0.3143, 0.4437
CMYK	0.05, 0.00, 0.19, 0.31
HSL	75°, 17%, 62%
HSV	75°, 19%, 69%
XYZ	36.0772, 40.7494, 31.4984
YIQ	168.8460, 5.8250, -11.9590

# Conversions

## Conversions Part 2

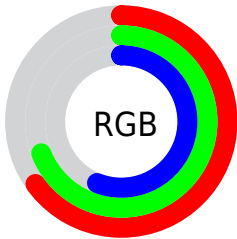
<b>Format</b>	<b>Color</b>
<b>RYB</b>	142, 175, 150
Decimal	10989454
CIELab	70.00, -8.67, 16.00
CIELCh	70, 18.199, 118.442
Yxy	40.7494, 0.3330, 0.3762
Android (android.graphics.Color)	4289179534 (0xFFA7AF8E)
YUV	168.8460, -13.2351, -1.6189
Hunter-Lab	63.8353, -10.8304, 15.4291

# Details

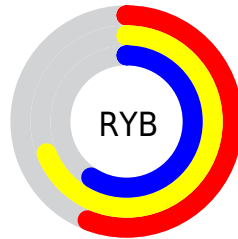
The CIELCh color **70, 18.199, 118.442** is a light color, and the websafe version is hex **999966**. A complement of this color would be **61, 18.910, 300.934**, and the grayscale version is **69, 0.009, 296.813**.

A 20% lighter version of the original color is **90, 18.379, 119.245**, and **50, 18.237, 118.722** is the 20% darker color. If you saturate the color by 10%, you get **69, 27.726, 117.810**, and if you desaturate by 10%, it is **71, 8.569, 119.080**.

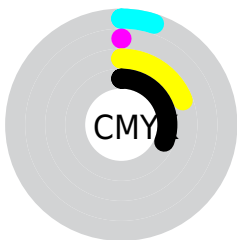
# Distribution



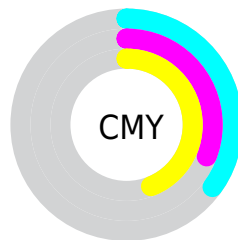
- Red (65%)
- Green (69%)
- Blue (56%)



- Red (56%)
- Yellow (69%)
- Blue (59%)



- Cyan (5%)
- Magenta (0%)
- Yellow (19%)
- Black (31%)




- Cyan (35%)
- Magenta (31%)
- Yellow (44%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 18.199, 118.442 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, 18.199, 118.442 by changing the saturation by 10% instead.





 70, 18.199,  
118.442

 70, 18.199,  
118.442


 100, 18.199,  
118.442


 60, 18.199,  
118.442


 90, 18.199,  
118.442

 50, 18.199,  
118.442

 40, 18.199,  
118.442

 30, 18.199,  
118.442

 20, 18.199,  
118.442

 10, 18.199,  
118.442

 0, 18.199, 118.442

70, 18.199,  
118.442

70, 18.199,  
118.442

69, 27.726,  
117.810

71, 8.569, 119.080

69, 37.047,  
117.193

72, 1.101, 299.670

68, 46.016,  
116.629

72, 10.763,  
300.280

68, 54.414,  
116.166

73, 20.385,  
300.840

67, 61.926,  
115.873

74, 29.942,  
301.366

67, 68.145,  
115.839

75, 39.415,  
301.856

67, 72.654,  
116.163

76, 43.937,  
303.006

66, 75.448,

76, 44.148,  
304.767

116.854

77, 44.397,  
306.528

66, 75.738,  
116.934

# Harmonies

# Complementary

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



70, 18.199, 118.442



61, 18.910, 300.934

# Rectangle

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



70, 18.199, 118.442



70, 18.199, 168.442



70, 18.199, 298.442



70, 18.199, 348.442

# Sweetspot

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



70, 18.201, 118.446



90, 7.164, 119.254



64, 11.096, 42.792



48, 4.790, 119.214



96, 0.011, 296.813



48, 0.006, 296.813





# Same Dimension

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



70, 18.201, 118.446



88, 27.379, 118.157



69, 20.387, 135.925



36, 5.432, 119.053



58, 67.750, 116.783



7, 11.656, 122.699



# Inverse Universe

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



61, 18.910, 300.934



74, 28.729, 301.301



62, 20.640, 317.569



34, 5.538, 300.225



18, 88.247, 307.784

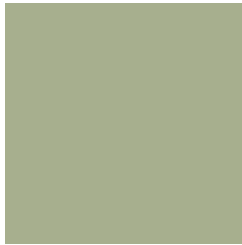


1, 11.472, 297.908



# Previews

## White Background



This preview shows how the CIELCh color 70, 18.199, 118.442 looks on a white background.

## Color Contrast Check

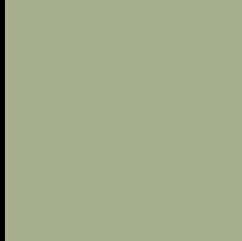
Large Text (above 18pt) WCAG AA × Fail

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 70, 18.199, 118.442 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

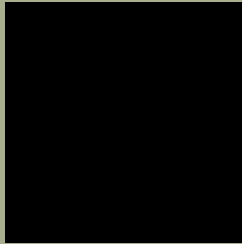
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

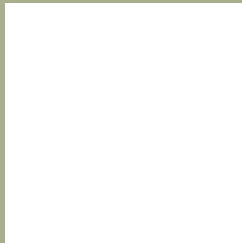
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 70, 18.199, 118.442**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 70, 18.199, 118.442.



This preview shows how white text looks on a background with the CIELCh color 70, 18.199, 118.442.

# 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, 18.199, 118.442

**Protanopia**  
70, 17.346, 94.945

**Deuteranopia**  
70, 17.456, 58.636





**Tritanopia**  
70, 7.839, 301.714

# Trichromacy



**Original Color**  
70, 18.199, 118.442

**Protanomaly**  
70, 16.925, 103.004

**Deuteranomaly**  
70, 15.500, 80.714

**Tritanomaly**  
70, 1.631, 109.978

# Monochromacy



**Original Color**  
70, 18.199, 118.442

**Achromatopsia**  
69, 0.009, 296.813

**Achromatomaly**  
69, 6.663, 119.488

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 18.199, 118.442 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(167, 175, 142)` looks like.

```
.text, #text, p{  
    color:rgb(167, 175, 142)  
}
```

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(167, 175, 142) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(167, 175, 142) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 18.199, 118.442 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(167, 175, 142) }
```

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

```
.border{ border-color:rgb(167, 175, 142) }
```

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

Here you see how a box with a 4 pixel `rgb(167, 175, 142)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(167, 175, 142); -webkit-box-  
shadow:4px 4px 4px 4px rgb(167, 175, 142);  
box-shadow:4px 4px 4px 4px rgb(167, 175,  
142) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 18.199, 118.442 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(167, 175, 142) }
```

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

```
.background{ background-color: rgb(167,  
175, 142) }
```

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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