

# Converting Colors

CIELCh(70, 19.110, 121.008)

Have a look what the booklet for  
CIELCh(70, 19.110, 121.008)  
contains.

<b>CIELCh(70, 18.893, 120.466)</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, 18.893, 120.466)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A5AF8D
RGB	165, 175, 141
RGB Percent	65%, 69%, 55%
CMY	0.3517, 0.3125, 0.4459
CMYK	0.06, 0.00, 0.19, 0.31
HSL	78°, 18%, 62%
HSV	78°, 19%, 69%
XYZ	35.8054, 40.7494, 31.2973
YIQ	168.1340, 4.9540, -12.6940

# Conversions

## Conversions Part 2

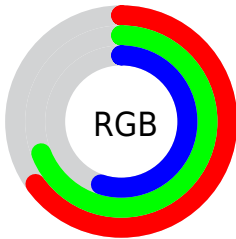
<b>Format</b>	<b>Color</b>
<b>RYB</b>	141, 175, 151
Decimal	10858381
CIELab	70.00, -9.58, 16.28
CIElCh	70, 18.893, 120.466
Yxy	40.7494, 0.3320, 0.3778
Android (android.graphics.Color)	4289048461 (0xFFA5AF8D)
YUV	168.1340, -13.3771, -2.7485
Hunter-Lab	63.8353, -11.5906, 15.6158

# Details

The CIELCh color **70, 18.893, 120.466** is a light color, and the websafe version is hex **999966**. A complement of this color would be **61, 19.611, 302.808**, and the grayscale version is **69, 0.009, 296.813**.

A 20% lighter version of the original color is **90, 19.042, 121.122**, and **50, 18.986, 120.856** is the 20% darker color. If you saturate the color by 10%, you get **69, 28.520, 119.882**, and if you desaturate by 10%, it is **71, 9.167, 121.054**.

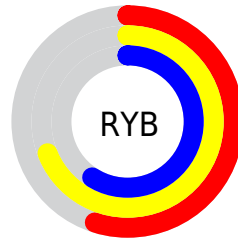
# Distribution



Red (65%)

Green (69%)

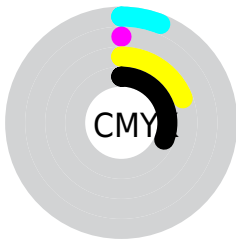
Blue (55%)



Red (55%)

Yellow (69%)

Blue (59%)

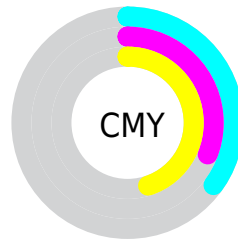


Cyan (6%)

Magenta (0%)

Yellow (19%)

Black (31%)



Cyan (35%)

Magenta (31%)


Yellow (45%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 18.893, 120.466 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, 18.893, 120.466 by changing the saturation by 10% instead.




 70, 18.893,  
120.466

 70, 18.893,  
120.466

 100, 18.893,  
120.466


 60, 18.893,  
120.466


 90, 18.893,  
120.466

 50, 18.893,  
120.466

 40, 18.893,  
120.466

 30, 18.893,  
120.466

 20, 18.893,  
120.466

 10, 18.893,  
120.466

 0, 18.893, 120.466

70, 18.893,  
120.466

70, 18.893,  
120.466

69, 28.520,  
119.882

71, 9.167, 121.054

69, 37.940,  
119.316

72, 0.593, 301.544

68, 47.006,  
118.803

73, 10.338,  
302.150

67, 55.493,  
118.398

74, 20.033,  
302.660

67, 63.084,  
118.174

75, 29.652,  
303.134

67, 69.369,  
118.230

76, 39.177,  
303.575

66, 73.937,  
118.673

76, 43.895,  
304.888

66, 76.849,

77, 44.208,  
307.044

119.492

■ 77, 44.578,  
309.192

■ 66, 77.014,  
119.541

# Harmonies

# Complementary

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



70, 18.893, 120.466



61, 19.611, 302.808

# Rectangle

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



70, 18.893, 120.466



70, 18.893, 170.466



70, 18.893, 300.466



70, 18.893, 350.466

# Sweetspot

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



70, 18.895, 120.469



90, 7.215, 121.246



64, 11.245, 48.408



48, 4.825, 121.209



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, 18.895, 120.469



88, 27.596, 120.234



69, 21.330, 137.389



36, 5.471, 121.060



57, 68.735, 119.367



7, 11.772, 124.903



# Inverse Universe

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



61, 19.611, 302.808



74, 28.878, 303.101



62, 21.544, 319.144



34, 5.573, 302.127



19, 87.521, 308.396



1, 11.525, 299.524



# Previews

## White Background



This preview shows how the CIELCh color 70, 18.893, 120.466 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, 18.893, 120.466 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

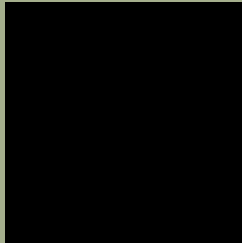
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

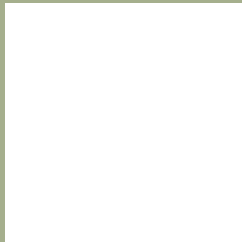
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 70, 18.893, 120.466**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 70, 18.893, 120.466.

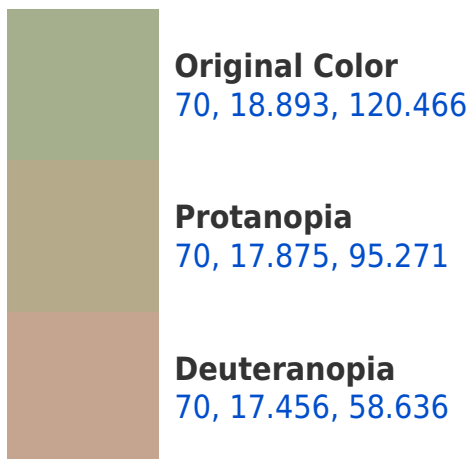


This preview shows how white text looks on a background with the CIELCh color 70, 18.893, 120.466.

# 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, 7.141, 293.826

# Trichromacy



**Original Color**  
70, 18.893, 120.466

**Protanomaly**  
70, 17.931, 105.786

**Deuteranomaly**  
70, 15.307, 82.061

**Tritanomaly**  
70, 2.467, 137.268

# Monochromacy



**Original Color**  
70, 18.893, 120.466

**Achromatopsia**  
69, 0.009, 296.813

**Achromatomaly**  
69, 7.278, 121.678

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 18.893, 120.466 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(165, 175, 141)` looks like.

```
.text, #text, p{  
    color:rgb(165, 175, 141)  
}
```

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(165, 175, 141) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(165, 175, 141) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 18.893, 120.466 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(165, 175, 141) }
```

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

```
.border{ border-color:rgb(165, 175, 141) }
```

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

Here you see how a box with a 4 pixel `rgb(165, 175, 141)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(165, 175, 141); -webkit-box-  
shadow:4px 4px 4px 4px rgb(165, 175, 141);  
box-shadow:4px 4px 4px 4px rgb(165, 175,  
141) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 18.893, 120.466 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(165, 175, 141) }
```

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

```
.background{ background-color: rgb(165,  
175, 141) }
```

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