

# Converting Colors

CIELCh(70, 20.016, 115.780)

Have a look what the booklet for  
CIELCh(70, 20.016, 115.780)  
contains.

<b>CIELCh(70, 20.255, 116.124)</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, 20.255, 116.124)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A8AF8A
RGB	168, 175, 138
RGB Percent	66%, 69%, 54%
CMY	0.3417, 0.3142, 0.4593
CMYK	0.04, 0.00, 0.21, 0.31
HSL	71°, 19%, 61%
HSV	71°, 21%, 69%
XYZ	36.0023, 40.7494, 29.9642
YIQ	168.6890, 7.7050, -12.9910

# Conversions

## Conversions Part 2

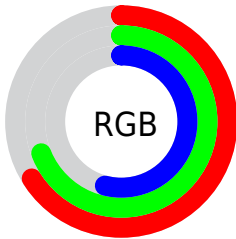
Format	Color
<b>RYB</b>	138, 175, 145
Decimal	11054986
CIELab	70.00, -8.92, 18.19
CIELCh	70, 20.255, 116.124
Yxy	40.7494, 0.3374, 0.3818
Android (android.graphics.Color)	4289245066 (0xFFA8AF8A)
YUV	168.6890, -15.1297, -0.6043
Hunter-Lab	63.8353, -11.0400, 16.8541

# Details

The CIELCh color **70, 20.255, 116.124** is a light color, and the websafe version is hex **999966**. A complement of this color would be **59, 21.195, 299.236**, and the grayscale version is **69, 0.009, 296.813**.

A 20% lighter version of the original color is **90, 20.334, 117.047**, and **50, 20.397, 116.129** is the 20% darker color. If you saturate the color by 10%, you get **69, 29.672, 115.436**, and if you desaturate by 10%, it is **71, 10.710, 116.822**.

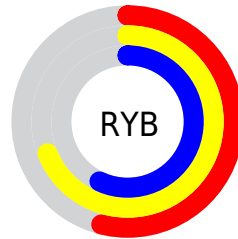
# Distribution



Red (66%)

Green (69%)

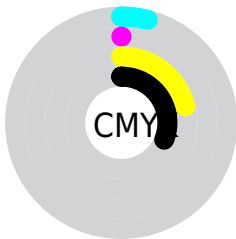
Blue (54%)



Red (54%)

Yellow (69%)

Blue (57%)

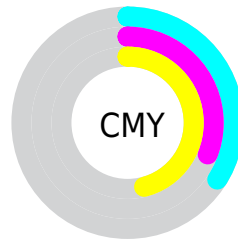


Cyan (4%)

Magenta (0%)

Yellow (21%)

Black (31%)



Cyan (34%)

Magenta (31%)


Yellow (46%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 20.255, 116.124 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, 20.255, 116.124 by changing the saturation by 10% instead.





 70, 20.255,  
116.124


 70, 20.255,  
116.124


 100, 20.255,  
116.124


 60, 20.255,  
116.124


 90, 20.255,  
116.124

 50, 20.255,  
116.124

 40, 20.255,  
116.124

 30, 20.255,  
116.124

 20, 20.255,  
116.124

 10, 20.255,  
116.124

 0, 20.255, 116.124

70, 20.255,  
116.124

70, 20.255,  
116.124

69, 29.672,  
115.436

71, 10.710,  
116.822

69, 38.847,  
114.770

71, 1.104, 117.509

68, 47.621,  
114.164

72, 8.512, 298.160

68, 55.752,  
113.667

73, 18.103,  
298.789

68, 62.898,  
113.347

74, 27.644,  
299.383

67, 68.635,  
113.287

75, 37.115,  
299.942

67, 72.566,  
113.573

75, 43.709,  
300.723

67, 74.750,

76, 43.833,  
302.093

114.073

■ 76, 43.979,  
303.466

# Harmonies

# Complementary

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



70, 20.255, 116.124



59, 21.195, 299.236

# Rectangle

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



70, 20.255, 116.124



70, 20.255, 166.124



70, 20.255, 296.124



70, 20.255, 346.124

# Sweetspot

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



70, 20.257, 116.128



90, 7.120, 117.170



63, 12.909, 37.421



48, 4.761, 117.126



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, 20.257, 116.128



88, 29.532, 115.830



69, 22.530, 134.263



36, 5.398, 116.951



58, 66.879, 113.948



7, 11.550, 120.257



# Inverse Universe

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



59, 21.195, 299.236



72, 31.212, 299.635



61, 22.910, 316.085



34, 5.509, 298.246



18, 88.890, 307.276



1, 11.427, 296.228



# Previews

## White Background



This preview shows how the CIELCh color 70, 20.255, 116.124 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, 20.255, 116.124 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

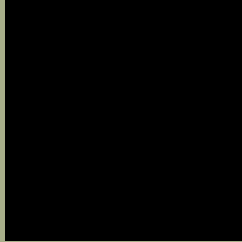
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

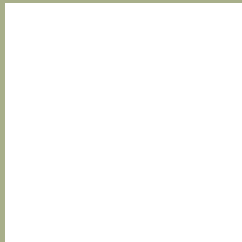
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 70, 20.255, 116.124

## Background



This preview shows how black text looks on a background with the CIELCh color 70, 20.255, 116.124.



This preview shows how white text looks on a background with the CIELCh color 70, 20.255, 116.124.

# 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, 20.255, 116.124


### Protanopia

70, 19.555, 94.947

### Deuteranopia

70, 19.319, 62.489





**Tritanopia**  
70, 7.388, 305.291

# Trichromacy



**Original Color**  
70, 20.255, 116.124

**Protanomaly**  
70, 19.115, 102.146

**Deuteranomaly**  
70, 17.661, 82.484

**Tritanomaly**  
70, 2.746, 101.915

# Monochromacy



**Original Color**  
70, 20.255, 116.124

**Achromatopsia**  
69, 0.009, 296.813

**Achromatomaly**  
69, 7.144, 115.660

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 20.255, 116.124 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(168, 175, 138)` looks like.

```
.text, #text, p{  
    color:rgb(168, 175, 138)  
}
```

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(168, 175, 138) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 175, 138) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 20.255, 116.124 is called "border". The border property can be set on classes, ids or directly on the HTML element.

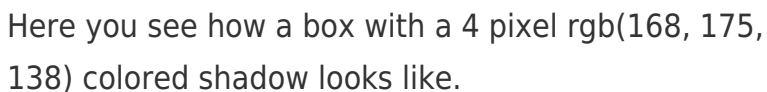
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(168, 175, 138) }
```

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

```
.border{ border-color:rgb(168, 175, 138) }
```

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



Here you see how a box with a 4 pixel `rgb(168, 175, 138)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 175, 138); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 175, 138);  
box-shadow:4px 4px 4px 4px rgb(168, 175,  
138) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 20.255, 116.124 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 175, 138) }
```

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

```
.background{ background-color: rgb(168,  
175, 138) }
```

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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