

# Converting Colors

CIELCh(69, 15.940, 108.728)

Have a look what the booklet for  
CIELCh(69, 15.940, 108.728)  
contains.

<b>CIELCh(69, 15.809, 108.555)</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(69, 15.809, 108.555)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AAAA8D
RGB	170, 170, 141
RGB Percent	67%, 67%, 55%
CMY	0.3324, 0.3324, 0.4461
CMYK	0.00, 0.00, 0.17, 0.33
HSL	60°, 15%, 61%
HSV	60°, 17%, 67%
XYZ	35.8763, 39.3444, 30.9946
YIQ	166.6940, 9.3090, -9.0190

# Conversions

## Conversions Part 2

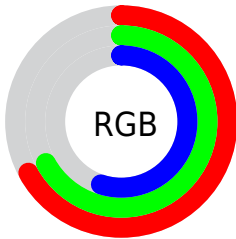
<b>Format</b>	<b>Color</b>
<b>RYB</b>	141, 170, 141
Decimal	11184781
CIELab	69.00, -5.03, 14.99
CIElCh	69, 15.809, 108.555
Yxy	39.3444, 0.3378, 0.3704
Android (android.graphics.Color)	4289374861 (0xFFAAAA8D)
YUV	166.6940, -12.6671, 2.8994
Hunter-Lab	62.7251, -7.6739, 14.6104

# Details

The CIELCh color  $69, 15.809, 108.555$  is a light color, and the websafe version is hex  $999966$ . A complement of this color would be  $60, 16.429, 292.024$ , and the grayscale version is  $69, 0.008, 296.813$ .

A 20% lighter version of the original color is  $89, 15.536, 108.886$ , and  $49, 15.698, 108.070$  is the 20% darker color. If you saturate the color by 10%, you get  $69, 24.975, 107.607$ , and if you desaturate by 10%, it is  $69, 6.545, 109.509$ .

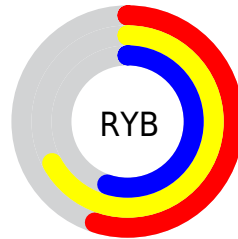
# Distribution



Red (67%)

Green (67%)

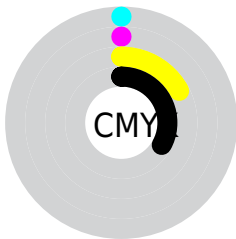
Blue (55%)



Red (55%)

Yellow (67%)

Blue (55%)

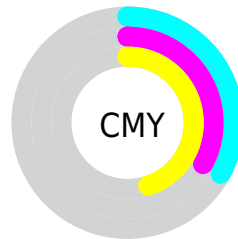


Cyan (0%)

Magenta (0%)

Yellow (17%)

Black (33%)



Cyan (33%)

Magenta (33%)


Yellow (45%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 69, 15.809, 108.555 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 69, 15.809, 108.555 by changing the saturation by 10% instead.





 69, 15.809,  
108.555


 69, 15.809,  
108.555


 100, 15.809,  
108.555


 59, 15.809,  
108.555


 89, 15.809,  
108.555

 49, 15.809,  
108.555

 99, 15.809,  
108.555

 39, 15.809,  
108.555

 29, 15.809,  
108.555

 19, 15.809,  
108.555

 9, 15.809, 108.555

 0, 15.809, 108.555

69, 15.809,  
108.555

69, 15.809,  
108.555

69, 24.975,  
107.607

69, 6.545, 109.509

68, 33.949,  
106.669

70, 2.766, 290.478

68, 42.597,  
105.768

70, 12.084,  
291.379

68, 50.711,  
104.932

71, 21.383,  
292.262

68, 57.990,  
104.193

72, 30.644,  
293.111

68, 64.036,  
103.592

72, 39.854,  
293.920

68, 68.424,  
103.163

73, 46.102,  
294.448

68, 70.975,

73, 46.102,  
294.449

102.917

■ 73, 46.102,  
294.449

■ 68, 71.599,  
102.857

# Harmonies

# Complementary

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



69, 15.809, 108.555



60, 16.429, 292.024

# Rectangle

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



69, 15.809, 108.555



69, 15.809, 158.555



69, 15.809, 288.555



69, 15.809, 338.555

# Sweetspot

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



69, 15.811, 108.560



88, 5.764, 109.690



61, 11.665, 20.537



47, 3.964, 109.627



95, 0.011, 296.813



47, 0.006, 296.813





# Same Dimension

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



69, 15.811, 108.560



87, 22.988, 108.243



68, 16.899, 128.316



36, 5.211, 109.299



59, 64.563, 102.857



6, 9.557, 110.181



# Inverse Universe

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



60, 16.429, 292.024



74, 24.078, 292.445



61, 17.290, 309.839



32, 5.323, 291.125



16, 89.150, 306.288



0, 9.559, 290.180



# Previews

## White Background



This preview shows how the CIELCh color 69, 15.809, 108.555 looks on a white background.

## Color Contrast Check

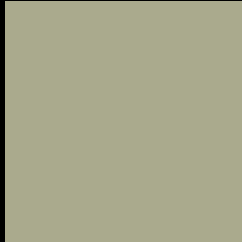
Large Text (above 18pt) WCAG AA × Fail

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 69, 15.809, 108.555 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

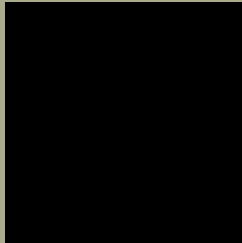
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 69, 15.809, 108.555

## Background



This preview shows how black text looks on a background with the CIELCh color 69, 15.809, 108.555.



This preview shows how white text looks on a background with the CIELCh color 69, 15.809, 108.555.

# 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**  
[69, 15.809, 108.555](#)

**Protanopia**  
[69, 15.815, 93.770](#)

**Deuteranopia**  
[69, 16.805, 58.147](#)





**Tritanopia**  
69, 8.099, 318.171

# Trichromacy



**Original Color**  
69, 15.809, 108.555

**Protanomaly**  
69, 15.998, 99.845

**Deuteranomaly**  
69, 15.022, 76.158

**Tritanomaly**  
69, 2.529, 45.031

# Monochromacy



**Original Color**  
69, 15.809, 108.555

**Achromatopsia**  
68, 0.008, 296.813

**Achromatomaly**  
69, 5.473, 109.608

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 69, 15.809, 108.555 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(170, 170, 141)` looks like.

```
.text, #text, p{  
    color:rgb(170, 170, 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(170, 170, 141) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 170, 141) }
```

## Border

The CSS property to change the border of an element to CIELCh 69, 15.809, 108.555 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(170, 170, 141) }
```

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

```
.border{ border-color:rgb(170, 170, 141) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 170, 141)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 170, 141); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 170, 141);  
box-shadow:4px 4px 4px 4px rgb(170, 170,  
141) }
```

# Background

The CSS property to change the background color of an element to CIELCh 69, 15.809, 108.555 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 170, 141) }
```

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

```
.background{ background-color: rgb(170,  
170, 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