

# Converting Colors

CIELCh(69, 15.480, 109.008)

Have a look what the booklet for  
CIELCh(69, 15.480, 109.008)  
contains.

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# **Color**

**CIELCh(69, 15.266, 108.611)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AAAA8E
RGB	170, 170, 142
RGB Percent	67%, 67%, 56%
CMY	0.3326, 0.3326, 0.4424
CMYK	0.00, 0.00, 0.16, 0.33
HSL	60°, 14%, 61%
HSV	60°, 16%, 67%
XYZ	35.9236, 39.3444, 31.3632
YIQ	166.8080, 8.9880, -8.7080

# Conversions

## Conversions Part 2

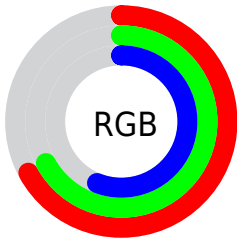
Format	Color
<a href="#">RYB</a>	<a href="#">142, 170, 142</a>
Decimal	<a href="#">11184782</a>
CIELab	<a href="#">69.00, -4.87, 14.47</a>
CIELCh	<a href="#">69, 15.266, 108.611</a>
Yxy	<a href="#">39.3444, 0.3369, 0.3690</a>
Android (android.graphics.Color)	<a href="#">4289374862 (0xFFAAAA8E)</a>
YUV	<a href="#">166.8080, -12.2303, 2.7994</a>
Hunter-Lab	<a href="#">62.7251, -7.5394, 14.2619</a>

# Details

The CIELCh color  $69, 15.266, 108.611$  is a light color, and the websafe version is hex  $999966$ . A complement of this color would be  $60, 15.844, 291.952$ , and the grayscale version is  $69, 0.008, 296.813$ .

A 20% lighter version of the original color is  $89, 15.019, 108.929$ , and  $49, 15.122, 108.149$  is the 20% darker color. If you saturate the color by 10%, you get  $69, 24.437, 107.663$ , and if you desaturate by 10%, it is  $69, 6.000, 109.564$ .

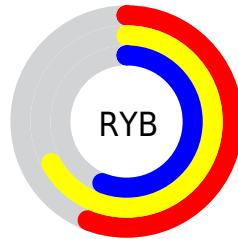
# Distribution



Red (67%)

Green (67%)

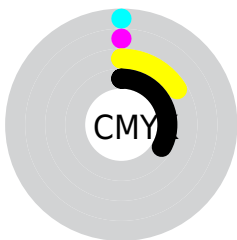
Blue (56%)



Red (56%)

Yellow (67%)

Blue (56%)

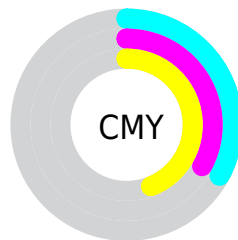


Cyan (0%)

Magenta (0%)

Yellow (16%)

Black (33%)



Cyan (33%)

Magenta (33%)


Yellow (44%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 69, 15.266, 108.611 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, 15.266, 108.611 by changing the saturation by 10% instead.





 69, 15.266,  
108.611


 69, 15.266,  
108.611


 100, 15.266,  
108.611


 59, 15.266,  
108.611


 89, 15.266,  
108.611

 49, 15.266,  
108.611

 99, 15.266,  
108.611

 39, 15.266,  
108.611

 29, 15.266,  
108.611

 19, 15.266,  
108.611

 9, 15.266, 108.611

 0, 15.266, 108.611

69, 15.266,  
108.611

69, 15.266,  
108.611

69, 24.437,  
107.663

69, 6.000, 109.564

68, 33.423,  
106.724

70, 3.309, 290.529

68, 42.092,  
105.820

70, 12.624,  
291.431

68, 50.243,  
104.979

71, 21.918,  
292.313

68, 57.579,  
104.234

72, 31.174,  
293.159

68, 63.707,  
103.623

72, 40.379,  
293.966

68, 68.202,  
103.183

73, 46.136,  
294.452

68, 70.835,

73, 46.136,  
294.453

102.929

■ 73, 46.136,  
294.453

■ 68, 71.581,  
102.858

# Harmonies

# Complementary

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



69, 15.266, 108.611



60, 15.844, 291.952

# Rectangle

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



69, 15.266, 108.611



69, 15.266, 158.611



69, 15.266, 288.611



69, 15.266, 338.611

# Sweetspot

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



69, 15.268, 108.617



88, 5.764, 109.691



62, 11.237, 20.487



47, 3.964, 109.628



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, 15.268, 108.617



87, 22.988, 108.244



68, 16.315, 128.343



36, 5.211, 109.299



59, 64.563, 102.858



6, 9.557, 110.181



# Inverse Universe

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



60, 15.844, 291.952



74, 24.078, 292.445



61, 16.680, 309.810



32, 5.323, 291.126



16, 89.150, 306.288



0, 9.559, 290.181



# Previews

## White Background



This preview shows how the CIELCh color 69, 15.266, 108.611 looks on a white background.

## Color Contrast Check

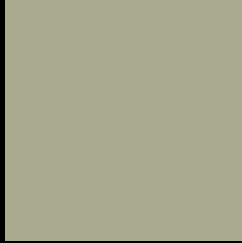
Large Text (above 18pt) WCAG AA × Fail

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, 15.266, 108.611 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

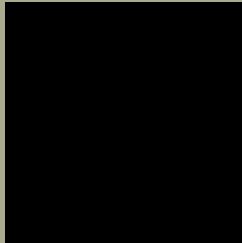
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

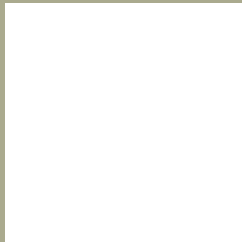
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 69, 15.266, 108.611

## Background



This preview shows how black text looks on a background with the CIELCh color 69, 15.266, 108.611.



This preview shows how white text looks on a background with the CIELCh color 69, 15.266, 108.611.

# 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, 15.266, 108.611

**Protanopia**  
69, 15.184, 94.814

**Deuteranopia**  
69, 16.108, 57.633





**Tritanopia**  
69, 8.099, 318.171

# Trichromacy



**Original Color**  
69, 15.266, 108.611

**Protanomaly**  
69, 15.461, 99.614

**Deuteranomaly**  
69, 14.554, 75.102

**Tritanomaly**  
69, 2.529, 45.031

# Monochromacy



**Original Color**  
69, 15.266, 108.611

**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, 15.266, 108.611 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, 142)` looks like.

```
.text, #text, p{  
    color:rgb(170, 170, 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(170, 170, 142) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 170, 142) }
```

## Border

The CSS property to change the border of an element to CIELCh 69, 15.266, 108.611 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, 142) }
```

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

```
.border{ border-color:rgb(170, 170, 142) }
```

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, 142)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 170, 142); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 170, 142);  
box-shadow:4px 4px 4px 4px rgb(170, 170,  
142) }
```

# Background

The CSS property to change the background color of an element to CIELCh 69, 15.266, 108.611 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, 142) }
```

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

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