

# Converting Colors

CIELCh(68, 38.451, 109.924)

Have a look what the booklet for  
CIELCh(68, 38.451, 109.924)  
contains.

<b>CIELCh(68, 38.609, 110.001)</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(68, 38.609, 110.001)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A5AB63
RGB	165, 171, 99
RGB Percent	65%, 67%, 39%
CMY	0.3534, 0.3298, 0.6121
CMYK	0.04, 0.00, 0.42, 0.33
HSL	65°, 30%, 53%
HSV	65°, 42%, 67%
XYZ	32.2845, 37.9720, 17.4071
YIQ	160.9980, 19.5360, -23.6640

# Conversions

## Conversions Part 2

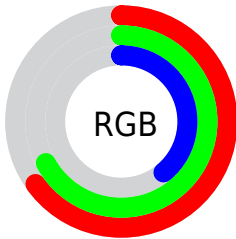
<b>Format</b>	<b>Color</b>
<b>RYB</b>	99, 171, 105
Decimal	10857315
CIELab	68.00, -13.21, 36.28
CIELCh	68, 38.609, 110.001
Yxy	37.9720, 0.3683, 0.4332
Android (android.graphics.Color)	4289047395 (0xFFA5AB63)
YUV	160.9980, -30.5650, 3.5098
Hunter-Lab	61.6215, -14.3184, 26.3865

# Details

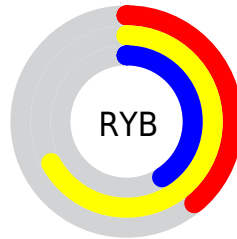
The CIELCh color  $68, 38.609, 110.001$  is a dark color, and the websafe version is hex  $999966$ . A complement of this color would be  $45, 42.957, 298.235$ , and the grayscale version is  $66, 0.008, 296.813$ .

A 20% lighter version of the original color is  $88, 38.467, 109.927$ , and  $48, 38.677, 109.840$  is the 20% darker color. If you saturate the color by 10%, you get  $68, 47.066, 109.261$ , and if you desaturate by 10%, it is  $68, 29.734, 110.803$ .

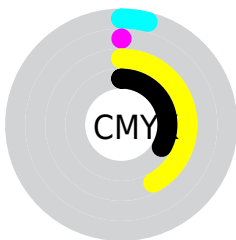
# Distribution



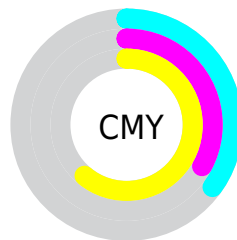
- Red (65%)
- Green (67%)
- Blue (39%)



- Red (39%)
- Yellow (67%)
- Blue (41%)



- Cyan (4%)
- Magenta (0%)
- Yellow (42%)
- Black (33%)




- Cyan (35%)
- Magenta (33%)
- Yellow (61%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 68, 38.609, 110.001 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 68, 38.609, 110.001 by changing the saturation by 10% instead.





 68, 38.609,  
110.001


 68, 38.609,  
110.001


 100, 38.609,  
110.001


 58, 38.609,  
110.001


 88, 38.609,  
110.001

 48, 38.609,  
110.001

 98, 38.609,  
110.001

 38, 38.609,  
110.001

 28, 38.609,  
110.001

 18, 38.609,  
110.001

 8, 38.609, 110.001

 0, 38.609, 110.001

68, 38.609,  
110.001

68, 38.609,  
110.001

68, 47.066,  
109.261

68, 29.734,  
110.803

67, 54.850,  
108.616

69, 20.604,  
111.629

67, 61.615,  
108.119

69, 11.330,  
112.461

67, 66.934,  
107.832

70, 1.984, 113.271

67, 70.429,  
107.810

70, 7.385, 294.091

67, 72.161,  
107.939

71, 16.744,  
294.862

72, 26.069,  
295.600

72, 35.343,  
296.301

■ 73, 44.552,  
296.964

# Harmonies

# Complementary

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



68, 38.609, 110.001



45, 42.957, 298.235

# Rectangle

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



68, 38.609, 110.001



68, 38.609, 160.001



68, 38.609, 290.001



68, 38.609, 340.001

# Sweetspot

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



68, 38.610, 110.004



88, 15.013, 112.369



51, 29.558, 29.533



47, 10.584, 112.190



95, 0.011, 296.813



47, 0.006, 296.813





# Same Dimension

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



68, 38.610, 110.004



86, 56.960, 109.277



65, 42.489, 129.995



37, 5.354, 112.693



59, 65.698, 107.888



7, 11.396, 114.880



# Inverse Universe

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



45, 42.957, 298.235



52, 65.519, 299.787



49, 44.560, 313.808



34, 5.470, 294.272



17, 89.804, 306.607



1, 11.367, 292.854



# Previews

## White Background



This preview shows how the CIELCh color 68, 38.609, 110.001 looks on a white background.

## Color Contrast Check

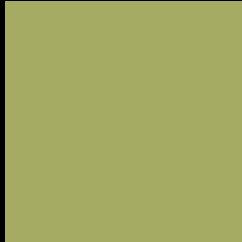
Large Text (above 18pt) WCAG AA × Fail

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 68, 38.609, 110.001 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

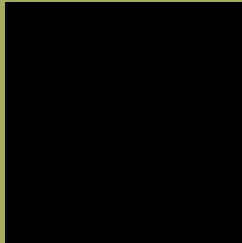
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 68, 38.609, 110.001

## Background



This preview shows how black text looks on a background with the CIELCh color 68, 38.609, 110.001.



This preview shows how white text looks on a background with the CIELCh color 68, 38.609, 110.001.

# 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**  
68, 38.609, 110.001

**Protanopia**  
68, 37.772, 96.321

**Deuteranopia**  
68, 36.111, 76.230





**Tritanopia**  
68, 8.498, 322.698

# Trichromacy



**Original Color**  
68, 38.609, 110.001

**Protanomaly**  
68, 37.728, 101.653

**Deuteranomaly**  
68, 35.340, 89.412

**Tritanomaly**  
68, 10.149, 95.576

# Monochromacy



**Original Color**  
68, 38.609, 110.001

**Achromatopsia**  
66, 0.008, 296.813

**Achromatomaly**  
67, 14.864, 113.261

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 68, 38.609, 110.001 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, 171, 99)` looks like.

```
.text, #text, p{  
    color:rgb(165, 171, 99)  
}
```

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, 171, 99) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(165, 171, 99) }
```

## Border

The CSS property to change the border of an element to CIELCh 68, 38.609, 110.001 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, 171, 99) }
```

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

```
.border{ border-color:rgb(165, 171, 99) }
```

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

Here you see how a box with a 4 pixel `rgb(165, 171, 99)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(165, 171, 99); -webkit-box-  
shadow:4px 4px 4px 4px rgb(165, 171, 99);  
box-shadow:4px 4px 4px 4px rgb(165, 171,  
99) }
```

# Background

The CSS property to change the background color of an element to CIELCh 68, 38.609, 110.001 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(165, 171, 99) }
```

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

```
.background{ background-color: rgb(165,  
171, 99) }
```

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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