

# Converting Colors

CIELCh(69, 38.491, 131.333)

Have a look what the booklet for  
CIELCh(69, 38.491, 131.333)  
contains.

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**Color**

**CIELCh(69, 38.491, 131.333)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8CB473
RGB	140, 180, 115
RGB Percent	55%, 71%, 45%
CMY	0.4518, 0.2950, 0.5498
CMYK	0.22, 0.00, 0.36, 0.29
HSL	97°, 30%, 58%
HSV	97°, 36%, 71%
XYZ	30.1393, 39.3444, 22.1636
YIQ	160.6300, -2.9750, -28.6950

# Conversions

## Conversions Part 2

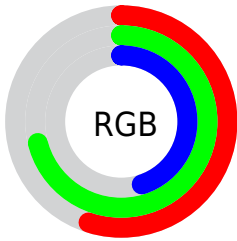
<b>Format</b>	<b>Color</b>
<b>RYB</b>	115, 180, 155
Decimal	9221235
CIELab	69.00, -25.42, 28.90
CIELCh	69, 38.491, 131.333
Yxy	39.3444, 0.3289, 0.4293
Android (android.graphics.Color)	4287411315 (0xFF8CB473)
YUV	160.6300, -22.4956, -18.0925
Hunter-Lab	62.7251, -24.0000, 22.9578

# Details

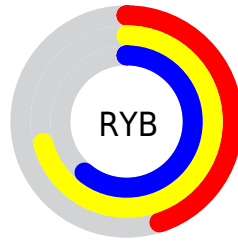
The CIELCh color **69, 38.491, 131.333** is a dark color, and the websafe version is hex **99CC99**. A complement of this color would be **55, 39.929, 314.572**, and the grayscale version is **66, 0.008, 296.813**.

A 20% lighter version of the original color is **89, 38.237, 131.263**, and **49, 38.466, 131.573** is the 20% darker color. If you saturate the color by 10%, you get **68, 48.775, 130.843**, and if you desaturate by 10%, it is **70, 27.930, 131.832**.

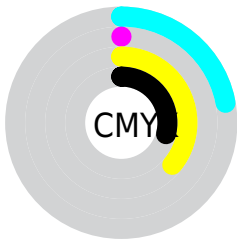
# Distribution



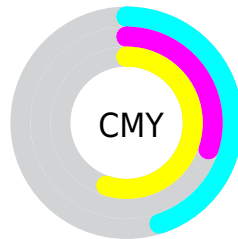
- Red (55%)
- Green (71%)
- Blue (45%)



- Red (45%)
- Yellow (71%)
- Blue (61%)



- Cyan (22%)
- Magenta (0%)
- Yellow (36%)
- Black (29%)




- Cyan (45%)
- Magenta (30%)
- Yellow (55%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 69, 38.491, 131.333 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, 38.491, 131.333 by changing the saturation by 10% instead.





 69, 38.491,  
131.333


 69, 38.491,  
131.333


 100, 38.491,  
131.333


 59, 38.491,  
131.333


 89, 38.491,  
131.333

 49, 38.491,  
131.333

 99, 38.491,  
131.333

 39, 38.491,  
131.333

 29, 38.491,  
131.333

 19, 38.491,  
131.333

 9, 38.491, 131.333

 0, 38.491, 131.333

69, 38.491,  
131.333

69, 38.491,  
131.333

68, 48.775,  
130.843

70, 27.930,  
131.832

67, 58.557,  
130.405

71, 17.243,  
132.312

67, 67.532,  
130.095

72, 6.542, 132.767

74, 4.094, 313.112

66, 75.296,  
130.018

75, 14.609,  
313.496

65, 81.399,  
130.302

77, 24.963,  
313.819

65, 85.545,  
131.028

78, 35.131,  
314.101

65, 86.865,  
131.323

80, 43.349,  
315.257

■ 81, 44.724,  
319.891

# Harmonies

# Complementary

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



69, 38.491, 131.333



55, 39.929, 314.572

# Rectangle

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



69, 38.491, 131.333



69, 38.491, 181.333



69, 38.491, 311.333



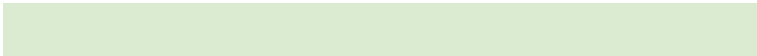
69, 38.491, 1.333

# Sweetspot

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



69, 38.492, 131.334



91, 14.564, 132.539



65, 24.379, 80.705



48, 9.782, 132.479



96, 0.011, 296.813



49, 0.007, 296.813





# Same Dimension

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



69, 38.492, 131.334



87, 56.551, 130.959



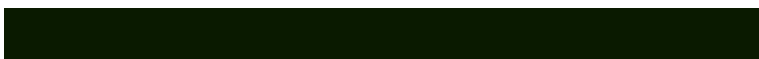
68, 40.467, 144.558



37, 6.000, 132.624



56, 76.956, 131.133



7, 14.866, 135.831



# Inverse Universe

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



55, 39.929, 314.572



65, 59.134, 314.904



57, 40.464, 329.355



35, 6.062, 313.366



26, 83.058, 314.994



2, 14.154, 309.220



# Previews

## White Background



This preview shows how the CIELCh color 69, 38.491, 131.333 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 CIE LCh color 69, 38.491, 131.333 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, 38.491, 131.333**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 69, 38.491, 131.333.



This preview shows how white text looks on a background with the CIELCh color 69, 38.491, 131.333.

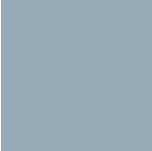
# Color Blindness Simulation

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**  
69, 10.286, 247.622

# Trichromacy



**Original Color**  
69, 38.491, 131.333

**Protanomaly**  
69, 32.380, 110.574

**Deuteranomaly**  
69, 28.006, 98.645

**Tritanomaly**  
69, 13.139, 159.539

# Monochromacy



**Original Color**  
69, 38.491, 131.333

**Achromatopsia**  
66, 0.008, 296.813

**Achromatomaly**  
67, 13.816, 132.201

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 69, 38.491, 131.333 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(140, 180, 115)` looks like.

```
.text, #text, p{  
    color:rgb(140, 180, 115)  
}
```

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(140, 180, 115) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(140, 180, 115) }
```

## Border

The CSS property to change the border of an element to CIELCh 69, 38.491, 131.333 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(140, 180, 115) }
```

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

```
.border{ border-color:rgb(140, 180, 115) }
```

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

Here you see how a box with a 4 pixel `rgb(140, 180, 115)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(140, 180, 115); -webkit-box-  
shadow:4px 4px 4px 4px rgb(140, 180, 115);  
box-shadow:4px 4px 4px 4px rgb(140, 180,  
115) }
```

# Background

The CSS property to change the background color of an element to CIELCh 69, 38.491, 131.333 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(140, 180, 115) }
```

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

```
.background{ background-color: rgb(140,  
180, 115) }
```

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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