

# Converting Colors

CIELCh(68, 45.435, 105.947)

Have a look what the booklet for  
CIELCh(68, 45.435, 105.947)  
contains.

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**Color**

**CIELCh(68, 45.497, 106.008)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A9AA54
RGB	169, 170, 84
RGB Percent	66%, 67%, 33%
CMY	0.3361, 0.3322, 0.6695
CMYK	0.01, 0.00, 0.51, 0.33
HSL	61°, 34%, 50%
HSV	61°, 51%, 67%
XYZ	32.4678, 37.9720, 14.0623
YIQ	159.8970, 27.0100, -26.9580

# Conversions

## Conversions Part 2

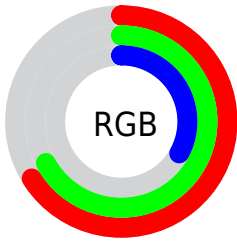
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">84, 170, 85</a>
Decimal	<a href="#">11119188</a>
CIELab	<a href="#">68.00, -12.55, 43.73</a>
CIELCh	<a href="#">68, 45.497, 106.008</a>
Yxy	<a href="#">37.9720, 0.3842, 0.4494</a>
Android (android.graphics.Color)	<a href="#">4289309268 (0xFFA9AA54)</a>
YUV	<a href="#">159.8970, -37.4172, 7.9833</a>
Hunter-Lab	<a href="#">61.6215, -13.7875, 29.6048</a>

# Details

The CIELCh color **68, 45.497, 106.008** is a dark color, and the websafe version is hex **999933**. A complement of this color would be **40, 52.224, 297.717**, and the grayscale version is **66, 0.008, 296.813**.

A 20% lighter version of the original color is **88, 45.333, 105.854**, and **48, 45.359, 105.873** is the 20% darker color. If you saturate the color by 10%, you get **68, 53.363, 105.224**, and if you desaturate by 10%, it is **68, 37.006, 106.875**.

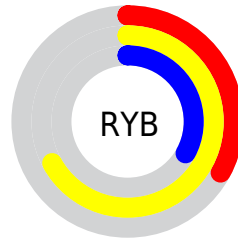
# Distribution



Red (66%)

Green (67%)

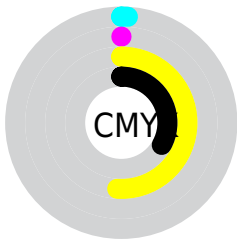
Blue (33%)



Red (33%)

Yellow (67%)

Blue (33%)

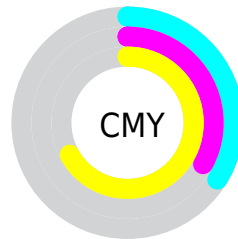


Cyan (1%)

Magenta (0%)

Yellow (51%)

Black (33%)



Cyan (34%)

Magenta (33%)

Yellow (67%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 68, 45.497, 106.008 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, 45.497, 106.008 by changing the saturation by 10% instead.



 68, 45.497,  
106.008

 68, 45.497,  
106.008

 100, 45.497,  
106.008

 58, 45.497,  
106.008


 88, 45.497,  
106.008

 48, 45.497,  
106.008

 98, 45.497,  
106.008

 38, 45.497,  
106.008

 28, 45.497,  
106.008

 18, 45.497,  
106.008

 8, 45.497, 106.008

 0, 45.497, 106.008

68, 45.497,  
106.008

68, 45.497,  
106.008

68, 53.363,  
105.224

68, 37.006,  
106.875

68, 60.266,  
104.553

69, 28.125,  
107.785

68, 65.785,  
104.038

69, 19.013,  
108.718

67, 69.524,  
103.717

69, 9.771, 109.653

67, 71.625,  
103.565

70, 0.468, 110.473

70, 8.854, 291.500

71, 18.166,  
292.375

71, 27.445,  
293.218

■ 72, 36.676,  
294.022

# Harmonies

# Complementary

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



68, 45.497, 106.008



40, 52.224, 297.717

# Rectangle

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



68, 45.497, 106.008



68, 45.497, 156.008



68, 45.497, 286.008



68, 45.497, 336.008

# Sweetspot

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



68, 45.498, 106.011



88, 17.273, 109.209



46, 38.852, 25.087



47, 11.872, 109.017



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, 45.498, 106.011



86, 66.427, 105.109



65, 49.199, 126.770



36, 5.211, 109.768



59, 64.573, 103.557



6, 9.559, 110.821



# Inverse Universe

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



40, 52.224, 297.717



44, 79.842, 300.096



44, 52.960, 311.595



32, 5.324, 291.558



16, 89.085, 306.332



0, 9.560, 290.569



# Previews

## White Background



This preview shows how the CIELCh color 68, 45.497, 106.008 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 68, 45.497, 106.008 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

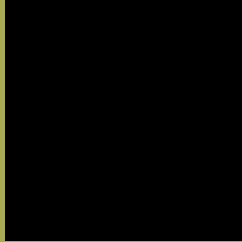
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 68, 45.497, 106.008**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 68, 45.497, 106.008.



This preview shows how white text looks on a background with the CIELCh color 68, 45.497, 106.008.

# 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, 45.497, 106.008

**Protanopia**  
68, 44.881, 95.882

**Deuteranopia**  
68, 43.868, 78.761





**Tritanopia**  
68, 9.513, 336.334

# Trichromacy



**Original Color**  
68, 45.497, 106.008

**Protanomaly**  
68, 45.320, 99.894

**Deuteranomaly**  
68, 43.033, 88.397

**Tritanomaly**  
68, 13.378, 89.479

# Monochromacy



**Original Color**  
68, 45.497, 106.008

**Achromatopsia**  
66, 0.008, 296.813

**Achromatomaly**  
67, 17.553, 109.651

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 68, 45.497, 106.008 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(169, 170, 84)` looks like.

```
.text, #text, p{  
    color:rgb(169, 170, 84)  
}
```

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(169, 170, 84) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(169, 170, 84) }
```

## Border

The CSS property to change the border of an element to CIELCh 68, 45.497, 106.008 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(169, 170, 84) }
```

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

```
.border{ border-color:rgb(169, 170, 84) }
```

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

Here you see how a box with a 4 pixel `rgb(169, 170, 84)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(169, 170, 84); -webkit-box-  
shadow:4px 4px 4px 4px rgb(169, 170, 84);  
box-shadow:4px 4px 4px 4px rgb(169, 170,  
84) }
```

# Background

The CSS property to change the background color of an element to CIELCh 68, 45.497, 106.008 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(169, 170, 84) }
```

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

```
.background{ background-color: rgb(169,  
170, 84) }
```

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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