

# Converting Colors

CIELCh(68, 45.378, 143.708)

Have a look what the booklet for  
CIELCh(68, 45.378, 143.708)  
contains.

<b>CIELCh(68, 45.141, 143.734)</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, 45.141, 143.734)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	6EB674
RGB	110, 182, 116
RGB Percent	43%, 71%, 45%
CMY	0.5691, 0.2867, 0.5455
CMYK	0.40, 0.00, 0.36, 0.29
HSL	125°, 33%, 57%
HSV	125°, 40%, 71%
XYZ	26.2647, 37.9720, 22.4335
YIQ	152.9480, -21.7260, -35.7900

# Conversions

## Conversions Part 2

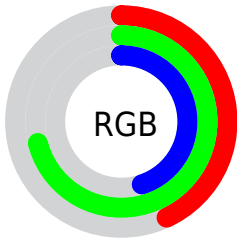
<b>Format</b>	<b>Color</b>
<b>RYB</b>	110, 176, 182
Decimal	7255668
CIELab	68.00, -36.40, 26.70
CIELCh	68, 45.141, 143.734
Yxy	37.9720, 0.3030, 0.4381
Android (android.graphics.Color)	4285445748 (0xFF6EB674)
YUV	152.9480, -18.2154, -37.6654
Hunter-Lab	61.6215, -31.7561, 21.5503

# Details

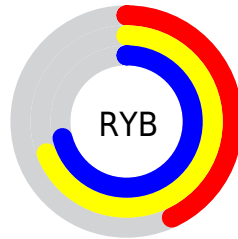
The CIELCh color **68, 45.141, 143.734** is a dark color, and the websafe version is hex **66CC99**. A complement of this color would be **56, 45.081, 329.020**, and the grayscale version is **63, 0.008, 296.813**.

A 20% lighter version of the original color is **88, 44.819, 144.052**, and **48, 44.765, 143.789** is the 20% darker color. If you saturate the color by 10%, you get **67, 55.874, 142.649**, and if you desaturate by 10%, it is **69, 33.921, 144.686**.

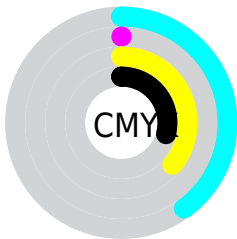
# Distribution



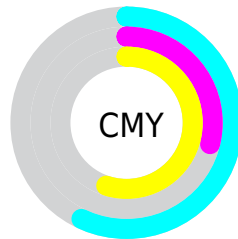
- Red (43%)
- Green (71%)
- Blue (45%)



- Red (43%)
- Yellow (69%)
- Blue (71%)



- Cyan (40%)
- Magenta (0%)
- Yellow (36%)
- Black (29%)




- Cyan (57%)
- Magenta (29%)
- Yellow (55%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 68, 45.141, 143.734 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, 45.141, 143.734 by changing the saturation by 10% instead.




 68, 45.141,  
143.734


 68, 45.141,  
143.734

 100, 45.141,  
143.734


 58, 45.141,  
143.734


 88, 45.141,  
143.734

 48, 45.141,  
143.734

 98, 45.141,  
143.734

 38, 45.141,  
143.734

 28, 45.141,  
143.734

 18, 45.141,  
143.734

 8, 45.141, 143.734

 0, 45.141, 143.734

68, 45.141,  
143.734

68, 45.141,  
143.734

67, 55.874,  
142.649

69, 33.921,  
144.686

66, 65.827,  
141.440

71, 22.456,  
145.509

65, 74.670,  
140.146

72, 10.940,  
146.223

65, 82.049,  
138.844

74, 0.478, 326.256

65, 87.620,  
137.651

76, 11.690,  
327.287

65, 91.217,  
136.757

78, 22.626,  
327.736

65, 91.329,  
136.734

80, 33.240,  
328.116

83, 43.439,  
328.285

■ 83, 45.803,  
326.010

# Harmonies

# Complementary

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



68, 45.141, 143.734



56, 45.081, 329.020

# Rectangle

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



68, 45.141, 143.734



68, 45.141, 193.734



68, 45.141, 323.734



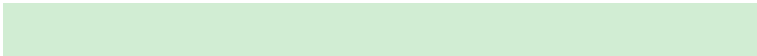
68, 45.141, 13.734

# Sweetspot

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



68, 45.142, 143.734



91, 17.019, 146.044



72, 38.272, 110.184



49, 11.388, 145.954



97, 0.011, 296.813



50, 0.007, 296.813





# Same Dimension

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



68, 45.142, 143.734



85, 67.183, 142.737



69, 30.623, 164.403



38, 6.514, 146.239



56, 81.131, 136.855



8, 18.120, 146.123



# Inverse Universe

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



56, 45.081, 329.020



68, 66.826, 329.527



55, 32.884, 352.686



36, 6.527, 327.278



36, 74.893, 331.806



3, 17.289, 328.152



# Previews

## White Background



This preview shows how the CIELCh color 68, 45.141, 143.734 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, 45.141, 143.734 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

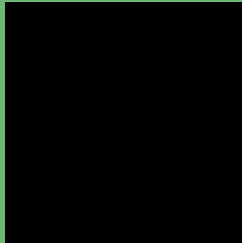
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 68, 45.141, 143.734**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 68, 45.141, 143.734.



This preview shows how white text looks on a background with the CIELCh color 68, 45.141, 143.734.

# 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, 45.141, 143.734

**Protanopia**  
68, 31.030, 95.841

**Deuteranopia**  
68, 25.969, 70.715





**Tritanopia**  
68, 17.764, 224.161

# Trichromacy



**Original Color**  
68, 45.141, 143.734



**Protanomaly**  
67, 32.655, 119.347



**Deuteranomaly**  
67, 26.143, 110.177



**Tritanomaly**  
68, 21.996, 175.423

# Monochromacy



**Original Color**  
68, 45.141, 143.734



**Achromatopsia**  
63, 0.008, 296.813



**Achromatomaly**  
65, 16.997, 146.575

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 68, 45.141, 143.734 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(110, 182, 116)` looks like.

```
.text, #text, p{  
    color:rgb(110, 182, 116)  
}
```

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(110, 182, 116) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(110, 182, 116) }
```

## Border

The CSS property to change the border of an element to CIELCh 68, 45.141, 143.734 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(110, 182, 116) }
```

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

```
.border{ border-color:rgb(110, 182, 116) }
```

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

Here you see how a box with a 4 pixel `rgb(110, 182, 116)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(110, 182, 116); -webkit-box-  
shadow:4px 4px 4px 4px rgb(110, 182, 116);  
box-shadow:4px 4px 4px 4px rgb(110, 182,  
116) }
```

# Background

The CSS property to change the background color of an element to CIELCh 68, 45.141, 143.734 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(110, 182, 116) }
```

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

```
.background{ background-color: rgb(110,  
182, 116) }
```

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