

# Converting Colors

CIELCh(78, 80.426, 138.941)

Have a look what the booklet for  
CIELCh(78, 80.426, 138.941)  
contains.

<b>CIELCh(78, 80.311, 138.815)</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(78, 80.311, 138.815)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5ADA57
RGB	90, 218, 87
RGB Percent	35%, 85%, 34%
CMY	0.6455, 0.1437, 0.6575
CMYK	0.59, 0.00, 0.60, 0.14
HSL	119°, 64%, 60%
HSV	119°, 60%, 86%
XYZ	31.1509, 53.2120, 17.7156
YIQ	164.7940, -34.2370, -67.8770

# Conversions

## Conversions Part 2

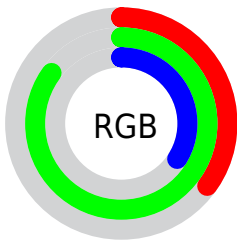
<b>Format</b>	<b>Color</b>
<b>RYB</b>	87, 218, 215
Decimal	5954135
CIELab	78.00, -60.44, 52.88
CIELCh	78, 80.311, 138.815
Yxy	53.2120, 0.3052, 0.5213
Android (android.graphics.Color)	4284144215 (0xFF5ADA57)
YUV	164.7940, -38.3524, -65.5943
Hunter-Lab	72.9466, -51.4303, 36.6636

# Details

The CIELCh color **78, 80.311, 138.815** is a dark color, and the websafe version is hex **33CC33**. The color can be described as dark muted green. A complement of this color would be **58, 79.650, 326.721**, and the grayscale version is **68, 0.008, 296.813**.

A 20% lighter version of the original color is **92, 68.670, 138.975**, and **58, 80.264, 138.549** is the 20% darker color. If you saturate the color by 10%, you get **77, 90.501, 137.768**, and if you desaturate by 10%, it is **79, 68.490, 139.883**.

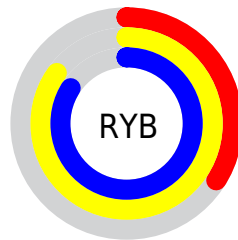
# Distribution



Red (35%)

Green (85%)

Blue (34%)



Red (34%)

Yellow (85%)

Blue (84%)

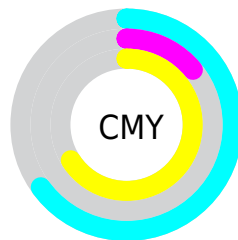


Cyan (59%)

Magenta (0%)

Yellow (60%)

Black (14%)



Cyan (65%)

Magenta (14%)


Yellow (66%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 78, 80.311, 138.815 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 78, 80.311, 138.815 by changing the saturation by 10% instead.





 78, 80.311,  
138.815


 78, 80.311,  
138.815


 100, 80.311,  
138.815


 68, 80.311,  
138.815


 98, 80.311,  
138.815


 58, 80.311,  
138.815

 48, 80.311,  
138.815

 38, 80.311,  
138.815

 28, 80.311,  
138.815

 18, 80.311,  
138.815

 8, 80.311, 138.815

0, 80.311, 138.815

78, 80.311,  
138.815

78, 80.311,  
138.815

77, 90.501,  
137.768

79, 68.490,  
139.883

77, 98.482,  
136.866

80, 55.555,  
140.887

76, 103.754,  
136.254

82, 41.936,  
141.790

76, 106.422,  
135.937

83, 27.974,  
142.580

85, 13.931,  
143.264

87, 0.005, 240.379

■ 89, 13.684,  
324.284

■ 91, 22.946,  
325.223

# Harmonies

# Complementary

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



78, 80.311, 138.815



58, 79.650, 326.721

# Rectangle

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



78, 80.311, 138.815



78, 80.311, 188.815



78, 80.311, 318.815



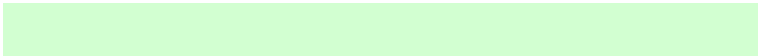
78, 80.311, 8.815

# Sweetspot

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



78, 80.312, 138.816



96, 28.531, 142.714



84, 62.957, 102.999



51, 19.839, 142.500



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



78, 80.312, 138.816



89, 104.369, 137.511



79, 57.038, 155.200



45, 7.928, 143.301



62, 89.573, 135.911



15, 33.500, 139.793



# Inverse Universe

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



58, 79.650, 326.721



64, 102.587, 327.079



56, 59.427, 348.564



43, 7.943, 324.301



40, 86.639, 327.314



7, 34.479, 327.374



# Previews

## White Background



This preview shows how the CIE LCh color 78, 80.311, 138.815 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 78, 80.311, 138.815 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 78, 80.311, 138.815

## Background



This preview shows how black text looks on a background with the CIELCh color 78, 80.311, 138.815.

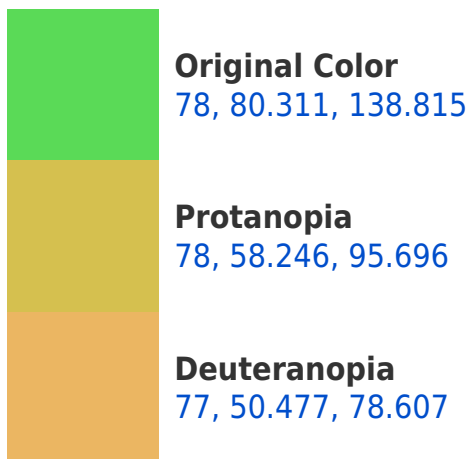


This preview shows how white text looks on a background with the CIELCh color 78, 80.311, 138.815.

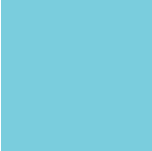
# Color Blindness Simulation

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**  
78, 26.396, 216.852

# Trichromacy



**Original Color**  
78, 80.311, 138.815



**Protanomaly**  
77, 62.060, 117.912



**Deuteranomaly**  
76, 52.234, 111.351

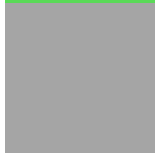


**Tritanomaly**  
78, 39.266, 165.356

# Monochromacy



**Original Color**  
78, 80.311, 138.815



**Achromatopsia**  
68, 0.008, 296.813



**Achromatomaly**  
71, 31.110, 142.231

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 78, 80.311, 138.815 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(90, 218, 87)` looks like.

```
.text, #text, p{  
    color:rgb(90, 218, 87)  
}
```

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(90, 218, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 218, 87) }
```

## Border

The CSS property to change the border of an element to CIELCh 78, 80.311, 138.815 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(90, 218, 87) }
```

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

```
.border{ border-color:rgb(90, 218, 87) }
```

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

Here you see how a box with a 4 pixel rgb(90, 218, 87) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 218, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 218, 87);  
box-shadow:4px 4px 4px 4px rgb(90, 218,  
87) }
```

# Background

The CSS property to change the background color of an element to CIELCh 78, 80.311, 138.815 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 218, 87) }
```

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

```
.background{ background-color: rgb(90, 218,  
87) }
```

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