

# Converting Colors

CIELCh(90, 103.467, 130.884)

Have a look what the booklet for  
CIELCh(90, 103.467, 130.884)  
contains.

<b>CIELCh(90, 103.409, 130.849)</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> .....	25
<b><i>CSS Examples</i></b> .....	28

**Color**

**CIELCh(90, 103.409, 130.849)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7CFF33
RGB	124, 255, 51
RGB Percent	49%, 100%, 20%
CMY	0.5122, 0.0000, 0.7982
CMYK	0.51, 0.00, 0.80, 0.00
HSL	99°, 100%, 60%
HSV	99°, 80%, 100%
XYZ	44.8485, 76.3034, 15.5479
YIQ	192.5750, -12.5920, -91.2160

# Conversions

## Conversions Part 2

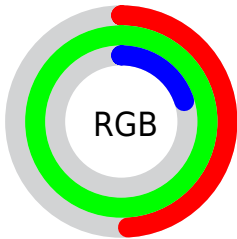
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 255, 182
Decimal	8191795
CIELab	90.00, -67.64, 78.22
CIELCh	90, 103.409, 130.849
Yxy	76.3034, 0.3281, 0.5582
Android (android.graphics.Color)	4286381875 (0xFF7CFF33)
YUV	192.5750, -69.7965, -60.1403
Hunter-Lab	87.3518, -61.2195, 50.5931

# Details

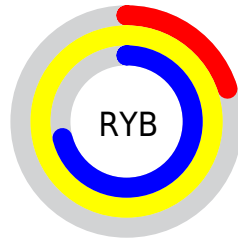
The CIELCh color **90, 103.409, 130.849** is a dark color, and the websafe version is hex **66FF33**. The color can be described as middle washed chartreuse. A complement of this color would be **51, 110.116, 316.445**, and the grayscale version is **78, 0.009, 296.813**.

A 20% lighter version of the original color is **93, 73.703, 125.916**, and **70, 95.706, 133.737** is the 20% darker color. If you saturate the color by 10%, you get **89, 109.959, 131.322**, and if you desaturate by 10%, it is **91, 93.983, 130.774**.

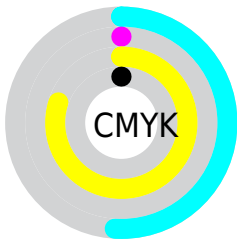
# Distribution



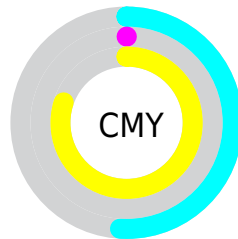
- Red (49%)
- Green (100%)
- Blue (20%)



- Red (20%)
- Yellow (100%)
- Blue (71%)



- Cyan (51%)
- Magenta (0%)
- Yellow (80%)
- Black (0%)




- Cyan (51%)
- Magenta (0%)
- Yellow (80%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 90, 103.409, 130.849 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 90, 103.409, 130.849 by changing the saturation by 10% instead.





 90, 103.409,  
130.849


 90, 103.409,  
130.849


 100, 103.409,  
130.849


 80, 103.409,  
130.849

 70, 103.409,  
130.849

 60, 103.409,  
130.849


 50, 103.409,  
130.849


 40, 103.409,  
130.849


 30, 103.409,  
130.849


 20, 103.409,


130.849


 10, 103.409,  
130.849


 0, 103.409,  
130.849


 90, 103.409,  
130.849


 90, 103.409,  
130.849


 89, 109.959,  
131.322


 91, 93.983,  
130.774

 89, 114.068,  
132.228

 92, 82.728,  
131.019

 89, 114.131,  
132.244

 93, 70.103,  
131.442

 94, 56.604,  
131.945

■ 95, 42.596,  
132.468

■ 97, 28.336,  
132.977

■ 98, 14.006,  
133.454

■ 100, 0.012,  
296.813

# Harmonies

# Complementary

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



90, 103.409, 130.849



51, 110.116, 316.445

# Rectangle

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



90, 103.409, 130.849



90, 103.409, 180.849



90, 103.409, 310.849



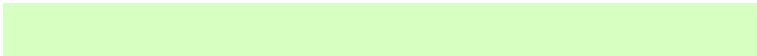
90, 103.409, 0.849

# Sweetspot

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



90, 103.252, 130.832



96, 34.312, 132.767



79, 73.124, 76.726



51, 23.562, 132.585



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



90, 103.252, 130.832



89, 112.708, 131.863



88, 104.427, 139.738



52, 8.106, 133.469



68, 91.663, 131.999



23, 40.710, 130.715



# Inverse Universe

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



51, 110.116, 316.445



47, 119.947, 315.681



61, 98.916, 333.193



49, 8.186, 314.244



34, 97.560, 315.565

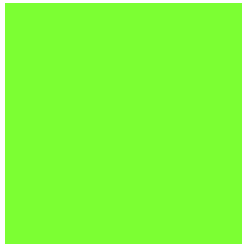


8, 44.469, 316.846



# Previews

## White Background



This preview shows how the CIE LCh color 90, 103.409, 130.849 looks on a white background.

## Color Contrast Check

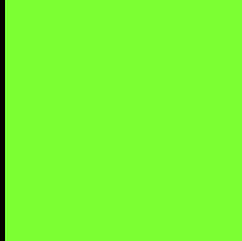
Large Text (above 18pt) WCAG AA × Fail

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 90, 103.409, 130.849 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

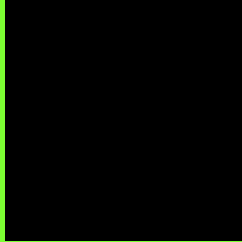
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 90, 103.409, 130.849**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 90, 103.409, 130.849.



This preview shows how white text looks on a background with the CIELCh color 90, 103.409, 130.849.

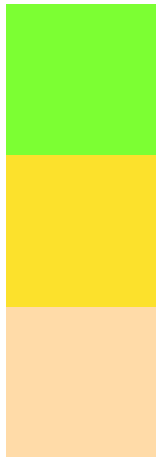




# Color Blindness Simulation

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

90, 103.409, 130.849

### Protanopia

89, 82.736, 95.258

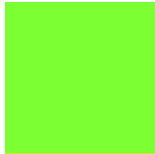
### Deuteranopia

89, 30.223, 79.608



**Tritanopia**  
90, 24.411, 220.802

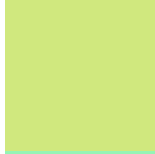
# Trichromacy



**Original Color**  
90, 103.409, 130.849



**Protanomaly**  
89, 85.767, 111.753

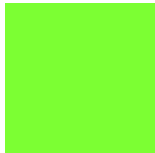


**Deuteranomaly**  
88, 54.185, 116.058

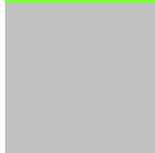


**Tritanomaly**  
89, 46.700, 152.320

# Monochromacy



**Original Color**  
90, 103.409, 130.849



**Achromatopsia**  
78, 0.009, 296.813



**Achromatomaly**  
82, 42.794, 132.474

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 90, 103.409, 130.849 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(124, 255, 51)` looks like.

```
.text, #text, p{  
    color:rgb(124, 255, 51)  
}
```

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(124, 255, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(124, 255, 51) }
```

## Border

The CSS property to change the border of an element to CIELCh 90, 103.409, 130.849 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(124, 255, 51) }
```

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

```
.border{ border-color:rgb(124, 255, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(124, 255, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(124, 255, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(124, 255, 51);  
box-shadow:4px 4px 4px 4px rgb(124, 255,  
51) }
```

# Background

The CSS property to change the background color of an element to CIELCh 90, 103.409, 130.849 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(124, 255, 51) }
```

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

```
.background{ background-color: rgb(124,  
255, 51) }
```

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