

# Converting Colors

CIELCh(89, 89.452, 148.205)

Have a look what the booklet for  
CIELCh(89, 89.452, 148.205)  
contains.

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# Color

**CIELCh(89, 88.929, 148.274)**

# Conversions

## Conversions Part 1

Format	Color
Hex	21FF81
RGB	33, 255, 129
RGB Percent	13%, 100%, 51%
CMY	0.8695, 0.0000, 0.4940
CMYK	0.87, 0.00, 0.49, 0.00
HSL	146°, 100%, 57%
HSV	146°, 87%, 100%
XYZ	40.7253, 74.1641, 32.9467
YIQ	174.2580, -91.8660, -86.2500

# Conversions

## Conversions Part 2

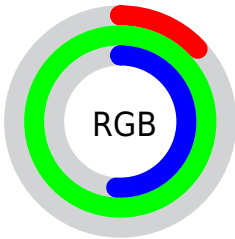
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	33, 188, 255
Decimal	2228097
CIE <sub>Lab</sub>	89.00, -75.64, 46.76
CIE <sub>LCh</sub>	89, 88.929, 148.274
Yxy	74.1641, 0.2755, 0.5017
Android (android.graphics.Color)	4280418177 (0xFF21FF81)
YUV	174.2580, -22.3122, -123.8833
Hunter-Lab	86.1186, -66.2952, 37.6002

# Details

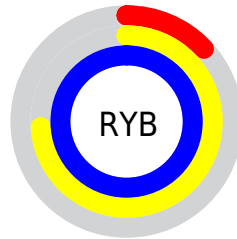
The CIELCh color **89, 88.929, 148.274** is a dark color, and the websafe version is hex **00FF99**. The color can be described as middle washed spring green. A complement of this color would be **57, 84.693, 352.226**, and the grayscale version is **71, 0.009, 296.813**.

A 20% lighter version of the original color is **91, 57.000, 156.159**, and **70, 81.868, 143.995** is the 20% darker color. If you saturate the color by 10%, you get **88, 94.482, 146.164**, and if you desaturate by 10%, it is **89, 81.228, 150.453**.

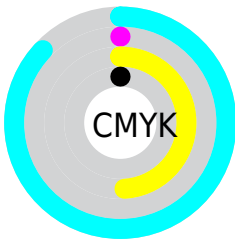
# Distribution



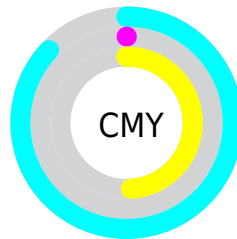
- Red (13%)
- Green (100%)
- Blue (51%)



- Red (13%)
- Yellow (74%)
- Blue (100%)



- Cyan (87%)
- Magenta (0%)
- Yellow (49%)
- Black (0%)



- Cyan (87%)
- Magenta (0%)
- Yellow (49%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 89, 88.929, 148.274 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 89, 88.929, 148.274 by changing the saturation by 10% instead.



 89, 88.929,  
148.274

 89, 88.929,  
148.274

 100, 88.929,  
148.274

 79, 88.929,  
148.274

 69, 88.929,  
148.274

 59, 88.929,  
148.274

 49, 88.929,  
148.274

 39, 88.929,  
148.274


 29, 88.929,  
148.274

 19, 88.929,


148.274


 9, 88.929, 148.274

 0, 88.929, 148.274


 89, 88.929,  
148.274


 89, 88.929,  
148.274

 88, 94.482,  
146.164

 89, 81.228,  
150.453

 88, 96.192,  
145.496

 90, 72.958,  
152.313

 91, 63.664,  
153.959

 92, 53.497,  
155.404

 93, 42.655,

156.670

■ 95, 31.346,  
157.781

■ 97, 19.766,  
158.765

■ 98, 8.090, 159.664

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.



89, 88.929, 148.274



57, 84.693, 352.226

# Rectangle

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



89, 88.929, 148.274



89, 88.929, 198.274



89, 88.929, 328.274



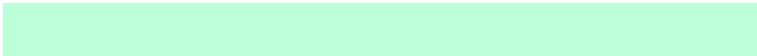
89, 88.929, 18.274

# Sweetspot

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



89, 88.394, 148.389



95, 30.253, 157.880



91, 101.242, 123.910



50, 20.470, 157.515



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



89, 88.394, 148.389



88, 96.192, 145.496



91, 52.455, 185.557



52, 6.623, 159.437



68, 76.776, 145.915



23, 33.031, 149.092



# Inverse Universe

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



57, 84.693, 352.226



55, 86.020, 356.467



55, 91.442, 32.101



50, 6.686, 340.864



42, 69.466, 355.789

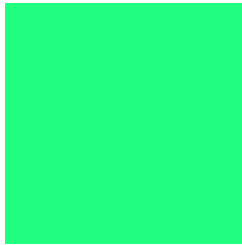


11, 32.672, 351.268



# Previews

## White Background



This preview shows how the CIE LCh color 89, 88.929, 148.274 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 89, 88.929, 148.274 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 89, 88.929, 148.274

## Background



This preview shows how black text looks on a background with the CIELCh color 89, 88.929, 148.274.

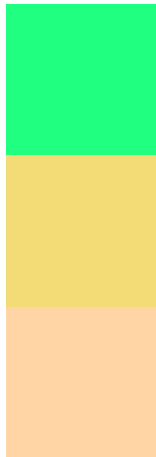


This preview shows how white text looks on a background with the CIELCh color 89, 88.929, 148.274.

# 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

89, 88.419, 148.391

### Protanopia

88, 53.177, 95.302

### Deuteranopia

88, 30.358, 74.351





**Tritanopia**  
88, 32.987, 213.227

# Trichromacy



**Original Color**  
89, 88.419, 148.391



**Protanomaly**  
86, 62.063, 129.874



**Deuteranomaly**  
85, 44.332, 134.426



**Tritanomaly**  
88, 48.599, 174.103

# Monochromacy



**Original Color**  
89, 88.419, 148.391



**Achromatopsia**  
71, 0.009, 296.813



**Achromatomaly**  
76, 37.554, 156.701

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 89, 88.929, 148.274 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(33, 255, 129)` looks like.

```
.text, #text, p{  
    color:rgb(33, 255, 129)  
}
```

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(33, 255, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 255, 129) }
```

## Border

The CSS property to change the border of an element to CIELCh 89, 88.929, 148.274 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(33, 255, 129) }
```

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

```
.border{ border-color:rgb(33, 255, 129) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 255, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 255, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 255, 129);  
box-shadow:4px 4px 4px 4px rgb(33, 255,  
129) }
```

# Background

The CSS property to change the background color of an element to CIELCh 89, 88.929, 148.274 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 255, 129) }
```

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

```
.background{ background-color: rgb(33, 255,  
129) }
```

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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