

# Converting Colors

CIELCh(85, 45.332, 144.380)

Have a look what the booklet for  
CIELCh(85, 45.332, 144.380)  
contains.

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# **Color**

**CIELCh(85, 45.299, 144.269)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9BE6A1
RGB	155, 230, 161
RGB Percent	61%, 90%, 63%
CMY	0.3929, 0.0988, 0.3693
CMYK	0.33, 0.00, 0.30, 0.10
HSL	125°, 60%, 75%
HSV	125°, 33%, 90%
XYZ	48.1449, 66.0070, 43.8402
YIQ	199.7090, -22.5510, -37.3590

# Conversions

## Conversions Part 2

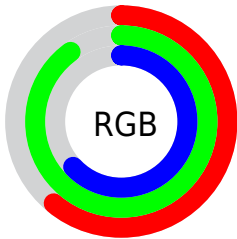
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">155, 224, 230</a>
Decimal	<a href="#">10217121</a>
CIELab	<a href="#">85.00, -36.77, 26.45</a>
CIELCh	<a href="#">85, 45.299, 144.269</a>
Yxy	<a href="#">66.0070, 0.3047, 0.4178</a>
Android (android.graphics.Color)	<a href="#">4288407201 (0xFF9BE6A1)</a>
YUV	<a href="#">199.7090, -19.0835, -39.2098</a>
Hunter-Lab	<a href="#">81.2447, -36.4006, 24.8780</a>

# Details

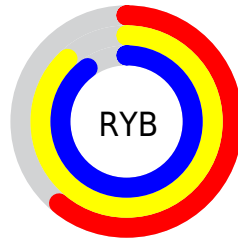
The CIELCh color  $85, 45.299, 144.269$  is a light color, and the websafe version is hex  $99CC99$ . A complement of this color would be  $73, 45.307, 328.553$ , and the grayscale version is  $81, 0.010, 296.813$ .

A 20% lighter version of the original color is  $96, 25.469, 146.556$ , and  $65, 45.221, 144.257$  is the 20% darker color. If you saturate the color by 10%, you get  $84, 58.723, 143.255$ , and if you desaturate by 10%, it is  $87, 31.475, 145.148$ .

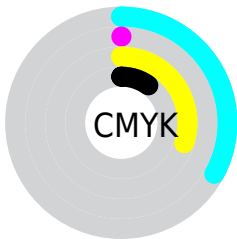
# Distribution



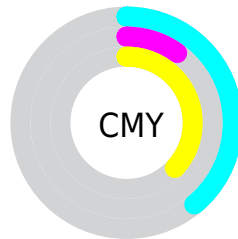
- Red (61%)
- Green (90%)
- Blue (63%)



- Red (61%)
- Yellow (88%)
- Blue (90%)



- Cyan (33%)
- Magenta (0%)
- Yellow (30%)
- Black (10%)




- Cyan (39%)
- Magenta (10%)
- Yellow (37%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 85, 45.299, 144.269 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 85, 45.299, 144.269 by changing the saturation by 10% instead.





 85, 45.299,  
144.269


 85, 45.299,  
144.269


 100, 45.299,  
144.269


 75, 45.299,  
144.269

 65, 45.299,  
144.269

 55, 45.299,  
144.269

 45, 45.299,  
144.269

 35, 45.299,  
144.269


 25, 45.299,  
144.269


 15, 45.299,


144.269


 5, 45.299, 144.269


 0, 45.299, 144.269


 85, 45.299,  
144.269


 85, 45.299,  
144.269


 84, 58.723,  
143.255


 87, 31.475,  
145.148


 82, 71.416,  
142.106


 89, 17.513,  
145.905


 81, 82.992,  
140.843

 91, 3.619, 146.610


 81, 93.021,  
139.522


 93, 10.059,  
327.038

 80, 101.052,

 94, 15.735,  
324.968

138.244

 80, 106.690,  
137.143

 80, 109.255,  
136.564

# Harmonies

# Complementary

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



85, 45.299, 144.269



73, 45.307, 328.553

# Rectangle

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



85, 45.299, 144.269



85, 45.299, 194.269



85, 45.299, 324.269



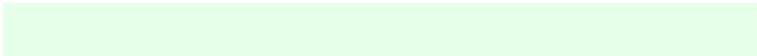
85, 45.299, 14.269

# Sweetspot

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



85, 45.301, 144.269



98, 15.058, 146.084



89, 38.362, 109.971



52, 10.283, 145.986



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



85, 45.301, 144.269



92, 58.643, 143.617



86, 31.229, 164.202



47, 7.849, 146.125



63, 90.113, 136.712



17, 35.299, 140.221



# Inverse Universe

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



73, 45.307, 328.553



77, 58.557, 328.928



72, 33.017, 350.759



45, 7.864, 327.195



42, 83.055, 331.691

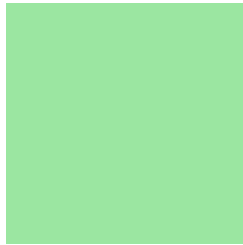


8, 35.192, 331.118



# Previews

## White Background



This preview shows how the CIELCh color 85, 45.299, 144.269 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 85, 45.299, 144.269 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 85, 45.299, 144.269

## Background



This preview shows how black text looks on a background with the CIELCh color 85, 45.299, 144.269.

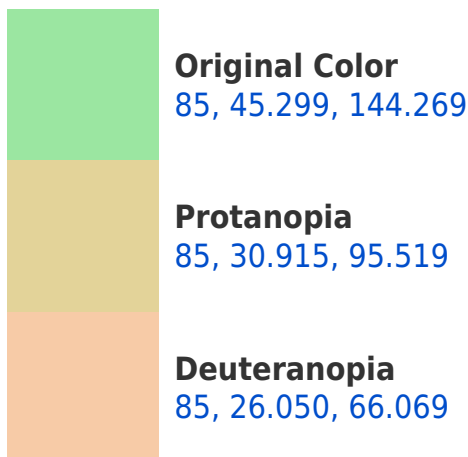


This preview shows how white text looks on a background with the CIELCh color 85, 45.299, 144.269.

# 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





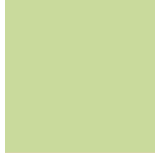


**Tritanopia**  
85, 18.723, 229.032

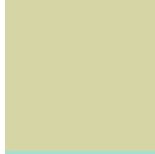
# Trichromacy



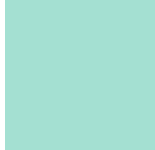
**Original Color**  
85, 45.299, 144.269



**Protanomaly**  
84, 32.838, 119.106



**Deuteranomaly**  
84, 25.031, 107.999

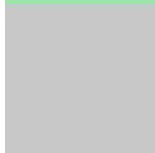


**Tritanomaly**  
85, 21.939, 178.202

# Monochromacy



**Original Color**  
85, 45.299, 144.269



**Achromatopsia**  
81, 0.010, 296.813



**Achromatomaly**  
82, 16.620, 145.723

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 85, 45.299, 144.269 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(155, 230, 161)` looks like.

```
.text, #text, p{  
    color:rgb(155, 230, 161)  
}
```

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(155, 230, 161) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(155, 230, 161) }
```

## Border

The CSS property to change the border of an element to CIELCh 85, 45.299, 144.269 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(155, 230, 161) }
```

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

```
.border{ border-color:rgb(155, 230, 161) }
```

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

Here you see how a box with a 4 pixel `rgb(155, 230, 161)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(155, 230, 161); -webkit-box-  
shadow:4px 4px 4px 4px rgb(155, 230, 161);  
box-shadow:4px 4px 4px 4px rgb(155, 230,  
161) }
```

# Background

The CSS property to change the background color of an element to CIELCh 85, 45.299, 144.269 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(155, 230, 161) }
```

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

```
.background{ background-color: rgb(155,  
230, 161) }
```

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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