

Converting Colors

CIELCh(83, 45.516, 199.051)

Have a look what the booklet for
CIELCh(83, 45.516, 199.051)
contains.

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Color

CIELCh(83, 45.440, 199.162)

Conversions

Conversions Part 1

Format	Color
Hex	0CE5E9
RGB	12, 229, 233
RGB Percent	5%, 90%, 91%
CMY	0.9538, 0.1009, 0.0852
CMYK	0.95, 0.02, 0.00, 0.09
HSL	181°, 90%, 48%
HSV	181°, 95%, 91%
XYZ	42.9882, 62.1629, 87.0239
YIQ	164.5730, -130.6160, -44.7600

Conversions

Conversions Part 2

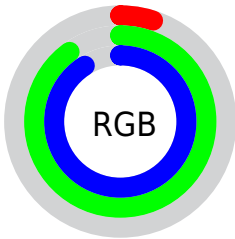
Format	Color
RYB	12, 121, 233
Decimal	845289
CIELab	83.00, -42.92, -14.92
CIELCh	83, 45.440, 199.162
Yxy	62.1629, 0.2237, 0.3235
Android (android.graphics.Color)	4279035369 (0xFF0CE5E9)
YUV	164.5730, 33.7345, -133.8065
Hunter-Lab	78.8435, -40.6517, -10.2512




Details

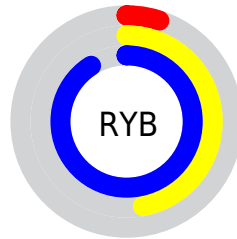
The CIELCh color **83, 45.440, 199.162** is a light color, and the websafe version is hex **00CCCC**. The color can be described as light washed cyan. A complement of this color would be **49, 94.907, 39.075**, and the grayscale version is **68, 0.008, 296.813**.




A 20% lighter version of the original color is **93, 39.257, 197.016**, and **64, 36.923, 199.969** is the 20% darker color. If you saturate the color by 10%, you get **83, 45.655, 199.278**, and if you desaturate by 10%, it is **83, 44.552, 198.978**.

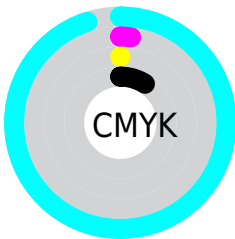
Distribution







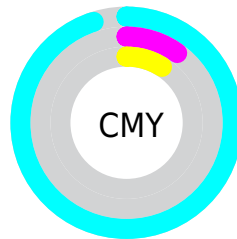
-  Red (5%)
-  Green (90%)
-  Blue (91%)






-  Red (5%)
-  Yellow (47%)
-  Blue (91%)



-  Cyan (95%)
-  Magenta (2%)
-  Yellow (0%)
-  Black (9%)





-  Cyan (95%)
-  Magenta (10%)
-  Yellow (9%)

Brightness & Saturation Gradients


These gradients show how the CIELCh color 83, 45.440, 199.162 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 83, 45.440, 199.162 by changing the saturation by 10% instead.


 83, 45.440,
199.162


 83, 45.440,
199.162


 100, 45.440,
199.162


 73, 45.440,
199.162

 63, 45.440,
199.162

 53, 45.440,
199.162

 43, 45.440,
199.162

 33, 45.440,
199.162

 23, 45.440,
199.162

 13, 45.440,

199.162

■ 3, 45.440, 199.162

■ 0, 45.440, 199.162

■ 83, 45.440,
199.162

■ 83, 45.440,
199.162

■ 83, 45.655,
199.278

■ 83, 44.552,
198.978

■ 84, 42.741,
198.891

■ 84, 39.914,
198.902

■ 85, 36.053,
199.009

■ 86, 31.200,

199.207

■ 87, 25.443,
199.489

■ 88, 18.898,
199.847

■ 90, 11.698,
200.279

■ 92, 3.973, 200.847

Harmonies

Complementary

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



83, 45.440, 199.162



49, 94.907, 39.075

Rectangle

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



83, 45.440, 199.162



83, 45.440, 249.162



83, 45.440, 19.162



83, 45.440, 69.162

Sweetspot

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



83, 45.439, 199.161



95, 22.532, 199.725



81, 110.581, 136.281



50, 15.288, 199.570



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



83, 45.439, 199.161



90, 48.832, 199.293



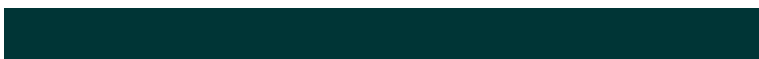
51, 67.158, 284.153



48, 4.535, 200.557



66, 37.780, 199.230



19, 16.237, 198.805

Inverse Universe

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



55, 105.689, 328.911



60, 113.916, 328.976



64, 77.128, 62.824



46, 8.355, 325.428



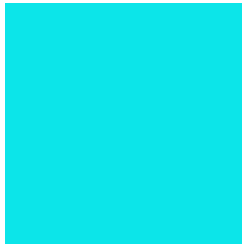
43, 88.113, 328.960



9, 37.810, 328.852

Previews

White Background



This preview shows how the CIE LCh color 83, 45.440, 199.162 looks on a white background.

Color Contrast Check

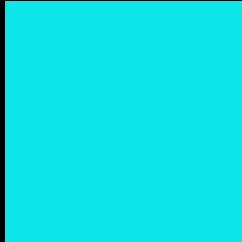
Large Text (above 18pt) WCAG AA × Fail

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 83, 45.440, 199.162 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

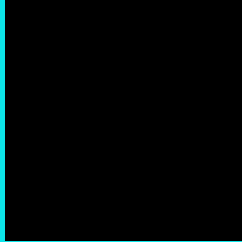
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

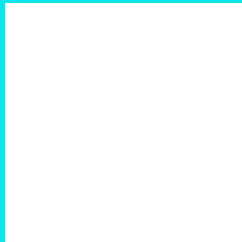
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 83, 45.440, 199.162

Background



This preview shows how black text looks on a background with the CIELCh color 83, 45.440, 199.162.

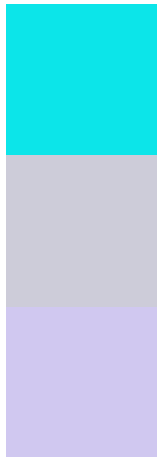


This preview shows how white text looks on a background with the CIELCh color 83, 45.440, 199.162.

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](#).

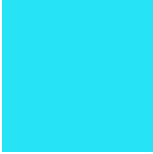
Dichromacy



Original Color
83, 45.391, 199.168

Protanopia
82, 6.904, 293.731

Deuteranopia
82, 21.447, 299.257

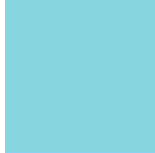


Tritanopia
83, 42.811, 210.522

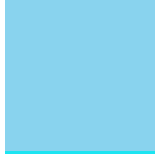
Trichromacy



Original Color
83, 45.391, 199.168



Protanomaly
81, 24.836, 210.242



Deuteranomaly
81, 26.080, 231.788

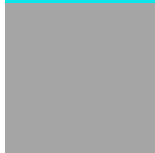


Tritanomaly
83, 43.776, 205.792

Monochromacy



Original Color
83, 45.391, 199.168



Achromatopsia
68, 0.008, 296.813



Achromatomaly
72, 25.239, 199.980

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 83, 45.440, 199.162 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(12, 229, 233)` looks like.

```
.text, #text, p{  
    color:rgb(12, 229, 233)  
}
```

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(12, 229, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 229, 233) }
```

Border

The CSS property to change the border of an element to CIELCh 83, 45.440, 199.162 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(12, 229, 233) }
```

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

```
.border{ border-color:rgb(12, 229, 233) }
```

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

Here you see how a box with a 4 pixel rgb(12, 229, 233) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 229, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 229, 233);  
box-shadow:4px 4px 4px 4px rgb(12, 229,  
233) }
```

Background

The CSS property to change the background color of an element to CIELCh 83, 45.440, 199.162 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 229, 233) }
```

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

```
.background{ background-color: rgb(12, 229,  
233) }
```

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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