

Converting Colors

CIELCh(83, 45.808, 162.193)

Have a look what the booklet for
CIELCh(83, 45.808, 162.193)
contains.

CIELCh(83, 45.991, 162.170)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(83, 45.991, 162.170)

Conversions

Conversions Part 1

Format	Color
Hex	72E4B3
RGB	114, 228, 179
RGB Percent	45%, 89%, 70%
CMY	0.5539, 0.1068, 0.2989
CMYK	0.50, 0.00, 0.22, 0.11
HSL	154°, 68%, 67%
HSV	154°, 50%, 89%
XYZ	42.7000, 62.1629, 52.2766
YIQ	188.3280, -52.2150, -39.4070

Conversions

Conversions Part 2

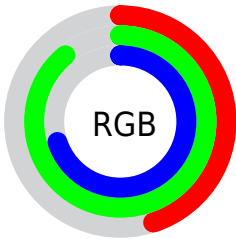
Format	Color
RYB	114, 187, 228
Decimal	7529651
CIELab	83.00, -43.78, 14.08
CIELCh	83, 45.991, 162.170
Yxy	62.1629, 0.2717, 0.3956
Android (android.graphics.Color)	4285719731 (0xFF72E4B3)
YUV	188.3280, -4.5987, -65.1857
Hunter-Lab	78.8435, -41.3042, 15.8786

Details

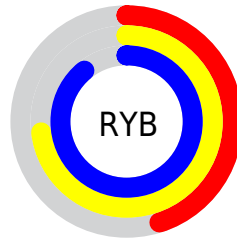
The CIELCh color **83, 45.991, 162.170** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **63, 49.905, 353.583**, and the grayscale version is **76, 0.009, 296.813**.

A 20% lighter version of the original color is **94, 29.373, 176.979**, and **63, 46.112, 161.936** is the 20% darker color. If you saturate the color by 10%, you get **82, 53.765, 160.656**, and if you desaturate by 10%, it is **84, 37.536, 163.512**.

Distribution



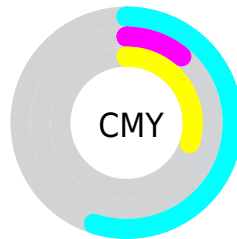
- Red (45%)
- Green (89%)
- Blue (70%)



- Red (45%)
- Yellow (73%)
- Blue (89%)



- Cyan (50%)
- Magenta (0%)
- Yellow (22%)
- Black (11%)





- Cyan (55%)
- Magenta (11%)
- Yellow (30%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 83, 45.991, 162.170 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, 45.991, 162.170 by changing the saturation by 10% instead.


 83, 45.991,
162.170


 83, 45.991,
162.170


 100, 45.991,
162.170


 73, 45.991,
162.170

 63, 45.991,
162.170

 53, 45.991,
162.170

 43, 45.991,
162.170

 33, 45.991,
162.170

 23, 45.991,
162.170

 13, 45.991,

162.170

■ 3, 45.991, 162.170

■ 0, 45.991, 162.170

■ 83, 45.991,
162.170

■ 83, 45.991,
162.170

■ 82, 53.765,
160.656

■ 84, 37.536,
163.512

■ 81, 60.719,
158.948

■ 85, 28.558,
164.709

■ 81, 66.771,
157.027

■ 87, 19.220,
165.788

■ 80, 71.911,
154.893

■ 89, 9.672, 166.781

■ 80, 76.278,

■ 90, 0.046, 178.061

152.629

93, 9.556, 348.378

93, 13.967,
334.312

93, 17.024,
325.014

Harmonies

Complementary

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



83, 45.991, 162.170



63, 49.905, 353.583

Rectangle

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



83, 45.991, 162.170



83, 45.991, 212.170



83, 45.991, 342.170



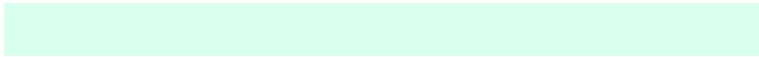
83, 45.991, 32.170

Sweetspot

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



83, 45.992, 162.169



97, 15.794, 166.288



84, 62.880, 129.045



51, 10.765, 166.076



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, 45.992, 162.169



91, 58.814, 160.604



82, 31.573, 204.723



47, 5.498, 166.838



64, 63.079, 153.031



18, 24.504, 157.232

Inverse Universe

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



63, 49.905, 353.583



65, 64.291, 355.586



63, 46.380, 29.503



45, 5.592, 348.414



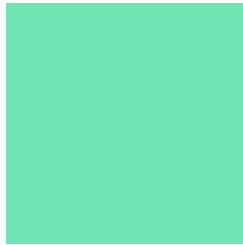
38, 64.645, 8.644



7, 27.063, 0.207

Previews

White Background



This preview shows how the CIE LCh color 83, 45.991, 162.170 looks on a white background.

Color Contrast Check

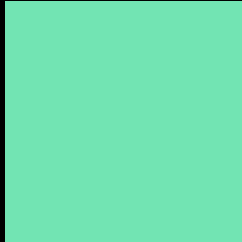
Large Text (above 18pt) WCAG AA × Fail

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, 45.991, 162.170 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, 45.991, 162.170

Background



This preview shows how black text looks on a background with the CIELCh color 83, 45.991, 162.170.

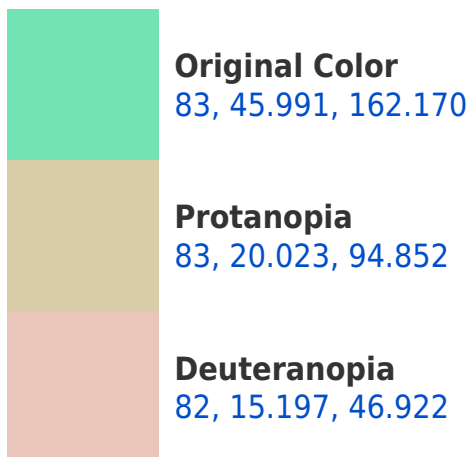


This preview shows how white text looks on a background with the CIELCh color 83, 45.991, 162.170.

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
83, 28.208, 217.622

Trichromacy



Original Color
83, 45.991, 162.170



Protanomaly
82, 25.152, 138.705



Deuteranomaly
82, 15.498, 136.159



Tritanomaly
83, 31.254, 190.402

Monochromacy



Original Color
83, 45.991, 162.170



Achromatopsia
76, 0.009, 296.813



Achromatomaly
78, 17.451, 166.666

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 83, 45.991, 162.170 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(114, 228, 179)` looks like.

```
.text, #text, p{  
    color:rgb(114, 228, 179)  
}
```

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(114, 228, 179) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(114, 228, 179) }
```

Border

The CSS property to change the border of an element to CIELCh 83, 45.991, 162.170 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(114, 228, 179) }
```

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

```
.border{ border-color:rgb(114, 228, 179) }
```

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

Here you see how a box with a 4 pixel `rgb(114, 228, 179)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(114, 228, 179); -webkit-box-  
shadow:4px 4px 4px 4px rgb(114, 228, 179);  
box-shadow:4px 4px 4px 4px rgb(114, 228,  
179) }
```

Background

The CSS property to change the background color of an element to CIELCh 83, 45.991, 162.170 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(114, 228, 179) }
```

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

```
.background{ background-color: rgb(114,  
228, 179) }
```

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