

Converting Colors

CIELCh(81, 83.708, 82.962)

Have a look what the booklet for
CIELCh(81, 83.708, 82.962) contains.

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Color

CIELCh(81, 83.683, 82.870)

Conversions

Conversions Part 1

Format	Color
Hex	FFBF00
RGB	255, 191, 0
RGB Percent	100%, 75%, 0%
CMY	0.0003, 0.2513, 1.0000
CMYK	0.00, 0.25, 1.00, 0.00
HSL	45°, 100%, 50%
HSV	45°, 100%, 100%
XYZ	59.8207, 58.4711, 8.1263
YIQ	188.3620, 99.4550, -45.8330

Conversions

Conversions Part 2

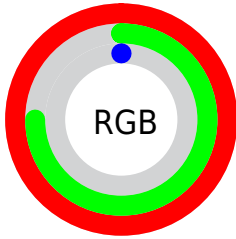
Format	Color
R _Y B	85, 255, 0
Decimal	16760576
CIE Lab	81.00, 10.39, 83.04
CIE LCh	81, 83.683, 82.870
Yxy	58.4711, 0.4732, 0.4625
Android (android.graphics.Color)	4294950656 (0xFFFFBF00)
YUV	188.3620, -92.8625, 58.4415
Hunter-Lab	76.4664, 5.8267, 47.2256

Details

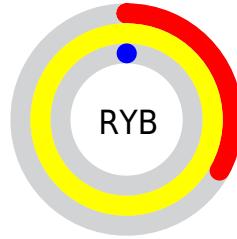
The CIELCh color **81, 83.683, 82.870** is a dark color, and the websafe version is hex **FFCC00**, and the color name is **amber**. The color can be described as middle saturated orange. A complement of this color would be **39, 112.210, 301.154**, and the grayscale version is **77, 0.009, 296.813**.

A 20% lighter version of the original color is **95, 77.197, 101.672**, and **61, 67.352, 80.107** is the 20% darker color. If you saturate the color by 10%, you get **81, 83.661, 82.870**, and if you desaturate by 10%, it is **83, 81.422, 84.834**.

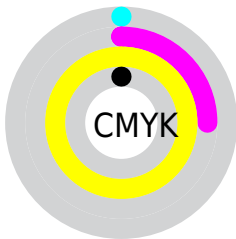
Distribution



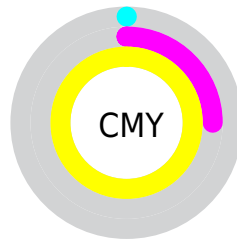
- Red (100%)
- Green (75%)
- Blue (0%)



- Red (33%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (25%)
- Yellow (100%)
- Black (0%)



- Cyan (0%)
- Magenta (25%)
- Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 81, 83.683, 82.870 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 81, 83.683, 82.870 by changing the saturation by 10% instead.

 81, 83.683, 82.870

 81, 83.683, 82.870

 100, 83.683,
82.870

 71, 83.683, 82.870

 61, 83.683, 82.870

 51, 83.683, 82.870

 41, 83.683, 82.870

 31, 83.683, 82.870

 21, 83.683, 82.870

 11, 83.683, 82.870

 1, 83.683, 82.870

 0, 83.683, 82.870

81, 83.683, 82.870

81, 83.683, 82.870

81, 83.661, 82.870

83, 81.422, 84.834

84, 76.428, 86.530

86, 69.055, 88.045

88, 60.184, 89.463

90, 50.499, 90.830

92, 40.435, 92.162

94, 30.243, 93.464

96, 20.063, 94.730

98, 9.966, 95.952

Harmonies

Complementary

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



81, 83.683, 82.870



39, 112.210, 301.154

Rectangle

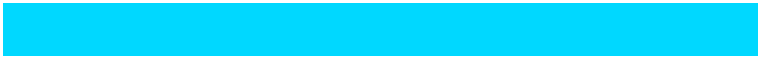
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



81, 83.683, 82.870



81, 83.683, 132.870



81, 83.683, 262.870



81, 83.683, 312.870

Sweetspot

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



81, 83.661, 82.870



94, 30.252, 93.464



54, 89.935, 25.292



49, 20.670, 92.919



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



81, 83.661, 82.870



81, 83.682, 82.869



93, 100.384, 116.745



52, 5.666, 96.011



62, 67.491, 83.269



21, 29.431, 85.730

Inverse Universe

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



39, 112.210, 301.154



39, 112.241, 301.155



34, 131.459, 307.419



50, 5.709, 278.381



29, 88.932, 300.639



7, 35.611, 295.846

Previews

White Background



This preview shows how the CIELCh color 81, 83.683, 82.870 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 81, 83.683, 82.870 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 81, 83.683, 82.870

Background



This preview shows how black text looks on a background with the CIELCh color 81, 83.683, 82.870.



This preview shows how white text looks on a background with the CIELCh color 81, 83.683, 82.870.

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

81, 83.683, 82.870

Protanopia

81, 80.761, 95.108

Deuteranopia

81, 83.683, 82.870



Tritanopia
81, 28.417, 10.186

Trichromacy



Original Color
81, 83.683, 82.870

Protanomaly
81, 81.295, 90.622

Deuteranomaly
81, 83.683, 82.870

Tritanomaly
80, 45.230, 65.845

Monochromacy



Original Color
81, 83.683, 82.870

Achromatopsia
76, 0.009, 296.813

Achromatomaly
77, 37.813, 91.845

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 81, 83.683, 82.870 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(255, 191, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 191, 0)  
}
```

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(255, 191, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 191, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 81, 83.683, 82.870 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(255, 191, 0) }
```

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

```
.border{ border-color:rgb(255, 191, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 191, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 191, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 191, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 191,  
0) }
```

Background

The CSS property to change the background color of an element to CIELCh 81, 83.683, 82.870 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 191, 0) }
```

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

```
.background{ background-color: rgb(255,  
191, 0) }
```

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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