

Converting Colors

CIELCh(80, 83.306, 81.340)

Have a look what the booklet for
CIELCh(80, 83.306, 81.340) contains.

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Color

CIELCh(80, 83.318, 81.397)

Conversions

Conversions Part 1

Format	Color
Hex	FFBB00
RGB	255, 187, 0
RGB Percent	100%, 73%, 0%
CMY	0.0008, 0.2674, 1.0000
CMYK	0.00, 0.27, 1.00, 0.00
HSL	44°, 100%, 50%
HSV	44°, 100%, 100%
XYZ	58.8899, 56.6813, 7.8207
YIQ	186.0140, 100.5550, -43.7410

Conversions

Conversions Part 2

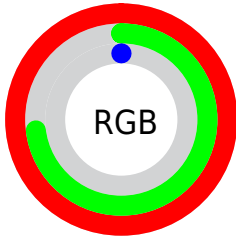
Format	Color
RYB	93, 255, 0
Decimal	16759552
CIELab	80.00, 12.46, 82.38
CIELCh	80, 83.318, 81.397
Yxy	56.6813, 0.4773, 0.4594
Android (android.graphics.Color)	4294949632 (0xFFFFBB00)
YUV	186.0140, -91.7049, 60.5007
Hunter-Lab	75.2870, 7.8716, 46.5419

Details

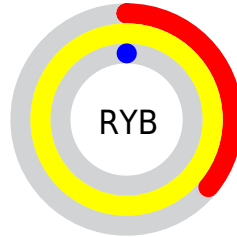
The CIELCh color **80, 83.318, 81.397** is a dark color, and the websafe version is hex **FFCC00**. The color can be described as middle saturated orange. A complement of this color would be **40, 109.912, 300.514**, and the grayscale version is **76, 0.009, 296.813**.

A 20% lighter version of the original color is **94, 76.179, 100.379**, and **60, 66.886, 78.511** is the 20% darker color. If you saturate the color by 10%, you get **80, 83.264, 81.391**, and if you desaturate by 10%, it is **82, 80.919, 83.475**.

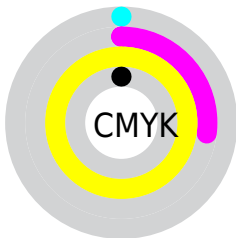
Distribution



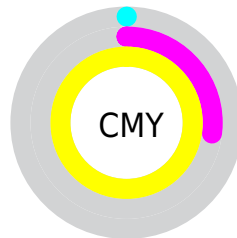
- Red (100%)
- Green (73%)
- Blue (0%)



- Red (36%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (27%)
- Yellow (100%)
- Black (0%)



- Cyan (0%)
- Magenta (27%)
- Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 80, 83.318, 81.397 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 80, 83.318, 81.397 by changing the saturation by 10% instead.

 80, 83.318, 81.397

 80, 83.318, 81.397

 100, 83.318,
81.397

 70, 83.318, 81.397

 60, 83.318, 81.397

 50, 83.318, 81.397

 40, 83.318, 81.397

 30, 83.318, 81.397

 20, 83.318, 81.397

 10, 83.318, 81.397

 0, 83.318, 81.397

 80, 83.318, 81.397

 80, 83.318, 81.397

80, 83.264, 81.391

82, 80.919, 83.475

83, 75.827, 85.253

85, 68.393, 86.821

87, 59.511, 88.276

89, 49.865, 89.670

91, 39.879, 91.025

93, 29.796, 92.344

95, 19.748, 93.627

98, 9.802, 94.863

Harmonies

Complementary

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



80, 83.318, 81.397



40, 109.912, 300.514

Rectangle

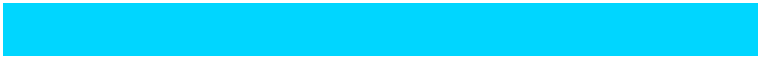
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



80, 83.318, 81.397



80, 83.318, 131.397



80, 83.318, 261.397



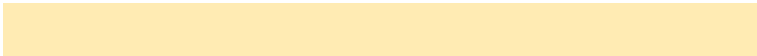
80, 83.318, 311.397

Sweetspot

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



80, 83.264, 81.391



93, 29.816, 92.344



54, 89.036, 23.840



49, 20.381, 91.792



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



80, 83.264, 81.391



80, 83.317, 81.390



93, 99.903, 115.842



52, 5.574, 94.922



62, 67.187, 81.820



20, 29.141, 84.378

Inverse Universe

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



40, 109.912, 300.514



40, 109.986, 300.516



34, 131.699, 307.268



50, 5.609, 277.321



30, 87.107, 299.977



7, 34.918, 295.183

Previews

White Background



This preview shows how the CIELCh color 80, 83.318, 81.397 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 80, 83.318, 81.397 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 80, 83.318, 81.397

Background



This preview shows how black text looks on a background with the CIELCh color 80, 83.318, 81.397.



This preview shows how white text looks on a background with the CIELCh color 80, 83.318, 81.397.

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

80, 83.318, 81.397

Protanopia

80, 79.722, 94.997

Deuteranopia

80, 82.691, 82.888



Tritanopia
80, 30.068, 11.014

Trichromacy



Original Color
80, 83.318, 81.397

Protanomaly
80, 80.419, 90.136

Deuteranomaly
80, 82.865, 82.606

Tritanomaly
79, 46.292, 63.924

Monochromacy



Original Color
80, 83.318, 81.397

Achromatopsia
76, 0.009, 296.813

Achromatomaly
76, 37.667, 90.387

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 80, 83.318, 81.397 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, 187, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 187, 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, 187, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 187, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 80, 83.318, 81.397 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, 187, 0) }
```

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

```
.border{ border-color:rgb(255, 187, 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, 187, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 187, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 187, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 187,  
0) }
```

Background

The CSS property to change the background color of an element to CIELCh 80, 83.318, 81.397 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 187, 0) }
```

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

```
.background{ background-color: rgb(255,  
187, 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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