

Converting Colors

CIELCh(80, 82.040, 83.800)

Have a look what the booklet for
CIELCh(80, 82.040, 83.800) contains.

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Color

CIELCh(80, 81.969, 83.765)

Conversions

Conversions Part 1

Format	Color
Hex	F9BD06
RGB	249, 189, 6
RGB Percent	98%, 74%, 2%
CMY	0.0226, 0.2580, 0.9777
CMYK	0.00, 0.24, 0.98, 0.02
HSL	45°, 96%, 50%
HSV	45°, 98%, 98%
XYZ	57.4263, 56.6813, 8.0765
YIQ	186.0780, 94.5030, -44.1930

Conversions

Conversions Part 2

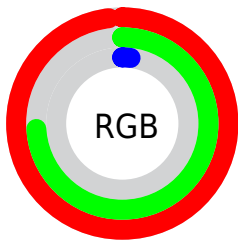
Format	Color
R _Y B	86, 249, 6
Decimal	16366854
CIE Lab	80.00, 8.90, 81.48
CIE LCh	80, 81.969, 83.765
Yxy	56.6813, 0.4700, 0.4639
Android (android.graphics.Color)	4294556934 (0xFFFF9BD06)
YUV	186.0780, -88.7785, 55.1826
Hunter-Lab	75.2870, 4.4015, 46.3405

Details

The CIELCh color **80, 81.969, 83.765** 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 **39, 108.371, 300.679**, and the grayscale version is **76, 0.009, 296.813**.

A 20% lighter version of the original color is **95, 76.131, 101.053**, and **60, 65.978, 81.304** is the 20% darker color. If you saturate the color by 10%, you get **80, 82.369, 83.320**, and if you desaturate by 10%, it is **82, 79.282, 85.643**.

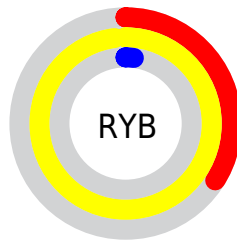
Distribution



Red (98%)

Green (74%)

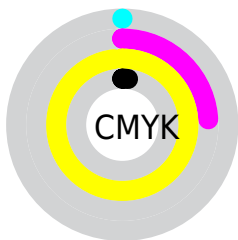
Blue (2%)



Red (34%)

Yellow (98%)

Blue (2%)

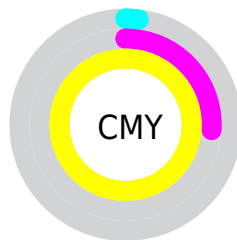


Cyan (0%)

Magenta (24%)

Yellow (98%)

Black (2%)



Cyan (2%)

Magenta (26%)

Yellow (98%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 80, 81.969, 83.765 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, 81.969, 83.765 by changing the saturation by 10% instead.

 80, 81.969, 83.765

 80, 81.969, 83.765

 100, 81.969,
83.765

 70, 81.969, 83.765

 60, 81.969, 83.765

 50, 81.969, 83.765

 40, 81.969, 83.765

 30, 81.969, 83.765

 20, 81.969, 83.765

 10, 81.969, 83.765

 0, 81.969, 83.765

 80, 81.969, 83.765

 80, 81.969, 83.765

80, 82.369, 83.320

82, 79.282, 85.643

83, 73.770, 87.262

85, 66.121, 88.731

87, 57.170, 90.123

88, 47.529, 91.471

90, 37.576, 92.789

92, 27.530, 94.075

94, 17.510, 95.327

96, 7.577, 96.529

Harmonies

Complementary

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



80, 81.969, 83.765



39, 108.371, 300.679

Rectangle

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



80, 81.969, 83.765



80, 81.969, 133.765



80, 81.969, 263.765



80, 81.969, 313.765

Sweetspot

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



80, 81.968, 83.768



94, 29.356, 93.908



53, 88.055, 25.383



49, 20.173, 93.361



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, 81.968, 83.768



81, 83.800, 83.293



91, 98.582, 117.397



51, 5.599, 96.321



62, 66.920, 83.705



20, 28.378, 86.217

Inverse Universe

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



39, 108.371, 300.679



39, 112.878, 301.331



34, 127.771, 307.610



49, 5.644, 278.677



29, 88.482, 300.794



6, 34.345, 295.369

Previews

White Background



This preview shows how the CIELCh color 80, 81.969, 83.765 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, 81.969, 83.765 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, 81.969, 83.765

Background



This preview shows how black text looks on a background with the CIELCh color 80, 81.969, 83.765.



This preview shows how white text looks on a background with the CIELCh color 80, 81.969, 83.765.

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, 81.873, 83.752

Protanopia

80, 79.841, 94.998

Deuteranopia

80, 81.819, 82.761



Tritanopia
80, 30.573, 9.252

Trichromacy



Original Color
80, 81.873, 83.752

Protanomaly
80, 80.102, 90.748

Deuteranomaly
80, 81.740, 83.062

Tritanomaly
79, 44.435, 63.530

Monochromacy



Original Color
80, 81.873, 83.752

Achromatopsia
76, 0.009, 296.813

Achromatomaly
76, 36.764, 92.156

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 80, 81.969, 83.765 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(249, 189, 6)` looks like.

```
.text, #text, p{  
    color:rgb(249, 189, 6)  
}
```

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(249, 189, 6) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(249, 189, 6) }
```

Border

The CSS property to change the border of an element to CIELCh 80, 81.969, 83.765 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(249, 189, 6) }
```

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

```
.border{ border-color:rgb(249, 189, 6) }
```

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

Here you see how a box with a 4 pixel `rgb(249, 189, 6)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(249, 189, 6); -webkit-box-  
shadow:4px 4px 4px 4px rgb(249, 189, 6);  
box-shadow:4px 4px 4px 4px rgb(249, 189,  
6) }
```

Background

The CSS property to change the background color of an element to CIELCh 80, 81.969, 83.765 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(249, 189, 6) }
```

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

```
.background{ background-color: rgb(249,  
189, 6) }
```

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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