

# Converting Colors

CIELCh(85, 83.973, 88.848)

Have a look what the booklet for  
CIELCh(85, 83.973, 88.848) contains.

<b>CIELCh(85, 83.914, 88.721)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	20
<i><b>Color Blindness Simulation</b></i> .....	23
<i><b>CSS Examples</b></i> .....	26

# **Color**

**CIELCh(85, 83.914, 88.721)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FECF13
RGB	254, 207, 19
RGB Percent	100%, 81%, 7%
CMY	0.0022, 0.1867, 0.9258
CMYK	0.00, 0.18, 0.93, 0.00
HSL	48°, 100%, 54%
HSV	48°, 93%, 100%
XYZ	63.5510, 66.0070, 10.0032
YIQ	199.6210, 88.3600, -48.5040

# Conversions

## Conversions Part 2

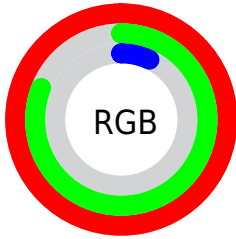
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	78, 254, 19
Decimal	16699155
CIE Lab	85.00, 1.87, 83.89
CIE LCh	85, 83.914, 88.721
Yxy	66.0070, 0.4554, 0.4730
Android (android.graphics.Color)	4294889235 (0xFFFECE13)
YUV	199.6210, -89.0462, 47.6904
Hunter-Lab	81.2447, -2.5526, 49.5713

# Details

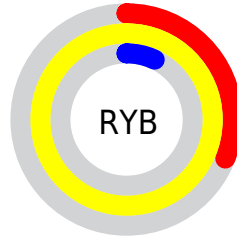
The CIELCh color **85, 83.914, 88.721** is a light color, and the websafe version is hex **FFCC00**. The color can be described as light washed yellow. A complement of this color would be **40, 110.699, 301.070**, and the grayscale version is **81, 0.010, 296.813**.

A 20% lighter version of the original color is **97, 76.764, 104.318**, and **65, 68.916, 87.553** is the 20% darker color. If you saturate the color by 10%, you get **84, 85.167, 87.551**, and if you desaturate by 10%, it is **86, 79.920, 90.169**.

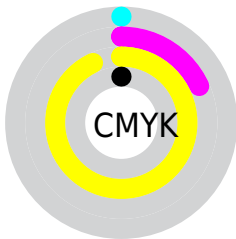
# Distribution



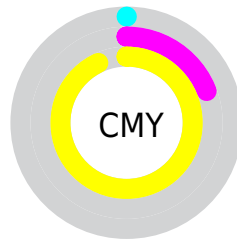
- Red (100%)
- Green (81%)
- Blue (7%)



- Red (31%)
- Yellow (100%)
- Blue (7%)



- Cyan (0%)
- Magenta (18%)
- Yellow (93%)
- Black (0%)



- Cyan (0%)
- Magenta (19%)
- Yellow (93%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 85, 83.914, 88.721 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 85, 83.914, 88.721 by changing the saturation by 10% instead.



 85, 83.914, 88.721

 85, 83.914, 88.721

 100, 83.914,  
88.721

 75, 83.914, 88.721

 65, 83.914, 88.721

 55, 83.914, 88.721

 45, 83.914, 88.721

 35, 83.914, 88.721

 25, 83.914, 88.721

 15, 83.914, 88.721

 5, 83.914, 88.721

 0, 83.914, 88.721

85, 83.914, 88.721

85, 83.914, 88.721

84, 85.167, 87.551

86, 79.920, 90.169

88, 73.264, 91.508

89, 64.752, 92.798

91, 55.127, 94.067

92, 44.902, 95.322

94, 34.397, 96.561

96, 23.796, 97.778

97, 13.202, 98.961

99, 2.672, 100.058

# Harmonies

# Complementary

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



85, 83.914, 88.721



40, 110.699, 301.070

# Rectangle

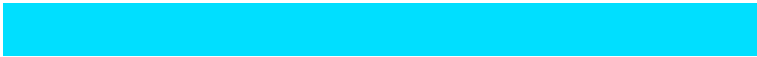
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



85, 83.914, 88.721



85, 83.914, 138.721



85, 83.914, 268.721



85, 83.914, 318.721

# Sweetspot

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



85, 83.913, 88.724



95, 29.620, 97.119



54, 89.152, 26.624



50, 20.457, 96.591



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



85, 83.913, 88.724



84, 85.312, 87.549



92, 100.105, 119.371



52, 5.977, 99.313



65, 68.819, 87.852



22, 30.474, 89.910





# Inverse Universe

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



40, 110.699, 301.070



37, 119.028, 302.946



37, 125.981, 308.352



49, 6.047, 281.584



27, 94.487, 302.510



6, 37.661, 297.617



# Previews

## White Background



This preview shows how the CIELCh color 85, 83.914, 88.721 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 85, 83.914, 88.721 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 85, 83.914, 88.721**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 85, 83.914, 88.721.

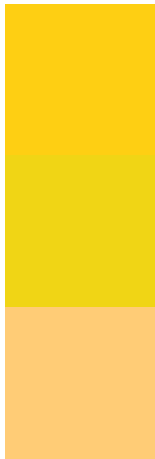


This preview shows how white text looks on a background with the CIELCh color 85, 83.914, 88.721.

# 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

85, 83.784, 88.711

### Protanopia

85, 83.377, 94.887

### Deuteranopia

85, 49.964, 80.547



**Tritanopia**  
85, 22.506, 5.117



# Trichromacy



**Original Color**  
85, 83.784, 88.711

**Protanomaly**  
85, 83.463, 92.729

**Deuteranomaly**  
85, 65.761, 85.377

**Tritanomaly**  
84, 39.516, 72.744

# Monochromacy



**Original Color**  
85, 83.784, 88.711

**Achromatopsia**  
81, 0.010, 296.813

**Achromatomaly**  
82, 36.756, 95.928

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 85, 83.914, 88.721 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(254, 207, 19)` looks like.

```
.text, #text, p{  
    color:rgb(254, 207, 19)  
}
```

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(254, 207, 19) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(254, 207, 19) }
```

## Border

The CSS property to change the border of an element to CIELCh 85, 83.914, 88.721 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(254, 207, 19) }
```

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

```
.border{ border-color:rgb(254, 207, 19) }
```

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

Here you see how a box with a 4 pixel `rgb(254, 207, 19)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(254, 207, 19); -webkit-box-  
shadow:4px 4px 4px 4px rgb(254, 207, 19);  
box-shadow:4px 4px 4px 4px rgb(254, 207,  
19) }
```

# Background

The CSS property to change the background color of an element to CIELCh 85, 83.914, 88.721 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(254, 207, 19) }
```

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

```
.background{ background-color: rgb(254,  
207, 19) }
```

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