

# Converting Colors

CIELCh(82, 81.607, 84.646)

Have a look what the booklet for  
CIELCh(82, 81.607, 84.646) contains.

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# **Color**

**CIELCh(82, 81.670, 84.675)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FDC415
RGB	253, 196, 21
RGB Percent	99%, 77%, 8%
CMY	0.0060, 0.2332, 0.9174
CMYK	0.00, 0.23, 0.92, 0.01
HSL	45°, 99%, 54%
HSV	45°, 92%, 99%
XYZ	60.4523, 60.2982, 9.1642
YIQ	193.0930, 90.1470, -42.3410

# Conversions

## Conversions Part 2

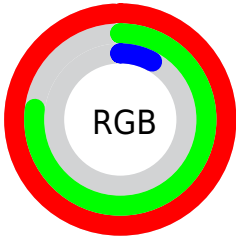
Format	Color
R <sub>Y</sub> B	97, 253, 21
Decimal	16630805
CIE Lab	82.00, 7.58, 81.32
CIE LCh	82, 81.670, 84.675
Yxy	60.2982, 0.4653, 0.4641
Android (android.graphics.Color)	4294820885 (0xFFFD C415)
YUV	193.0930, -84.8418, 52.5384
Hunter-Lab	77.6519, 3.0722, 47.3591

# Details

The CIELCh color **82, 81.670, 84.675** 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 **43, 102.599, 298.773**, and the grayscale version is **78, 0.009, 296.813**.

A 20% lighter version of the original color is **97, 76.400, 103.363**, and **62, 67.419, 83.242** is the 20% darker color. If you saturate the color by 10%, you get **81, 83.349, 83.041**, and if you desaturate by 10%, it is **84, 77.183, 86.405**.

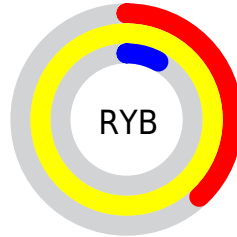
# Distribution



Red (99%)

Green (77%)

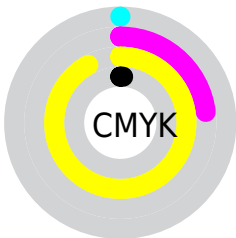
Blue (8%)



Red (38%)

Yellow (99%)

Blue (8%)

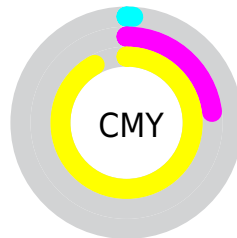


Cyan (0%)

Magenta (23%)

Yellow (92%)

Black (1%)



Cyan (1%)

Magenta (23%)

Yellow (92%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 82, 81.670, 84.675 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 82, 81.670, 84.675 by changing the saturation by 10% instead.



 82, 81.670, 84.675

 82, 81.670, 84.675

 100, 81.670,  
84.675

 72, 81.670, 84.675

 62, 81.670, 84.675

 52, 81.670, 84.675

 42, 81.670, 84.675

 32, 81.670, 84.675

 22, 81.670, 84.675

 12, 81.670, 84.675

 2, 81.670, 84.675

 0, 81.670, 84.675

82, 81.670, 84.675

82, 81.670, 84.675

81, 83.349, 83.041

84, 77.183, 86.405

85, 70.184, 87.936

87, 61.550, 89.362

89, 52.005, 90.732

91, 42.021, 92.066

93, 31.874, 93.370

95, 21.718, 94.641

97, 11.634, 95.870

99, 1.663, 96.951

# Harmonies

# Complementary

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



82, 81.670, 84.675



43, 102.599, 298.773

# Rectangle

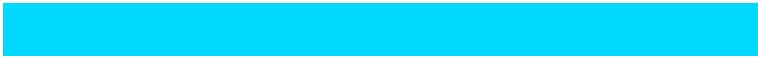
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



82, 81.670, 84.675



82, 81.670, 134.675



82, 81.670, 264.675



82, 81.670, 314.675

# Sweetspot

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



82, 81.669, 84.678



94, 28.258, 93.843



54, 86.047, 22.052



49, 19.541, 93.289



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



82, 81.669, 84.678



81, 83.727, 83.033



93, 98.175, 116.857



52, 5.676, 96.130



62, 67.528, 83.430



21, 29.465, 85.879





# Inverse Universe

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



43, 102.599, 298.773



39, 112.489, 301.223



37, 125.988, 307.667



50, 5.720, 278.497



29, 89.133, 300.710



7, 35.686, 295.917



# Previews

## White Background



This preview shows how the CIELCh color 82, 81.670, 84.675 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 82, 81.670, 84.675 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 82, 81.670, 84.675

## Background



This preview shows how black text looks on a background with the CIELCh color 82, 81.670, 84.675.



This preview shows how white text looks on a background with the CIELCh color 82, 81.670, 84.675.

# 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

82, 81.663, 84.985

### Protanopia

82, 80.294, 95.207

### Deuteranopia

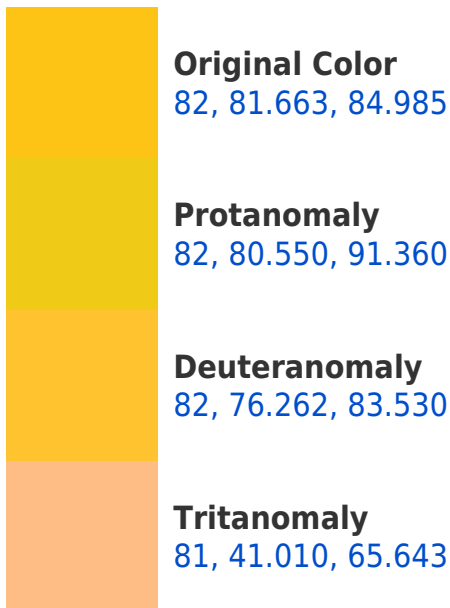
82, 71.597, 81.948



**Tritanopia**  
82, 26.785, 9.296



# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 82, 81.670, 84.675 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(253, 196, 21)` looks like.

```
.text, #text, p{  
    color:rgb(253, 196, 21)  
}
```

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(253, 196, 21) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(253, 196, 21) }
```

## Border

The CSS property to change the border of an element to CIELCh 82, 81.670, 84.675 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(253, 196, 21) }
```

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

```
.border{ border-color:rgb(253, 196, 21) }
```

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

Here you see how a box with a 4 pixel `rgb(253, 196, 21)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(253, 196, 21); -webkit-box-  
shadow:4px 4px 4px 4px rgb(253, 196, 21);  
box-shadow:4px 4px 4px 4px rgb(253, 196,  
21) }
```

# Background

The CSS property to change the background color of an element to CIELCh 82, 81.670, 84.675 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(253, 196, 21) }
```

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

```
.background{ background-color: rgb(253,  
196, 21) }
```

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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