

# Converting Colors

CIELCh(89, 58.395, 64.137)

Have a look what the booklet for  
CIELCh(89, 58.395, 64.137) contains.

<b>CIELCh(85, 47.044, 78.697)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	11
<b><i>Previews</i></b> .....	20
<b><i>Color Blindness Simulation</i></b> .....	23
<b><i>CSS Examples</i></b> .....	26

# **Color**

**CIELCh(85, 47.044, 78.697)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFCC7D
RGB	255, 204, 125
RGB Percent	100%, 80%, 49%
CMY	0.0000, 0.2007, 0.5107
CMYK	0.00, 0.20, 0.51, 0.00
HSL	36°, 100%, 74%
HSV	36°, 51%, 100%
XYZ	66.8090, 66.0070, 28.5473
YIQ	210.2430, 55.7550, -13.7570

# Conversions

## Conversions Part 2

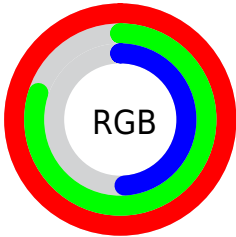
Format	Color
R <sub>Y</sub> B	209, 255, 125
Decimal	16764029
CIE Lab	85.00, 9.22, 46.13
CIE LCh	85, 47.044, 78.697
Yxy	66.0070, 0.4140, 0.4091
Android (android.graphics.Color)	4294954109 (0xFFFFCC7D)
YUV	210.2430, -42.0248, 39.2519
Hunter-Lab	81.2447, 4.6056, 36.0383

# Details

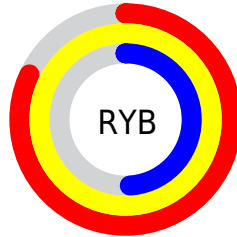
The CIELCh color **85, 47.044, 78.697** is a light color, and the websafe version is hex **FFCC66**. A complement of this color would be **71, 44.562, 275.935**, and the grayscale version is **84, 0.010, 296.813**.

A 20% lighter version of the original color is **98, 38.137, 107.269**, and **65, 46.776, 78.978** is the 20% darker color. If you saturate the color by 10%, you get **82, 56.412, 77.597**, and if you desaturate by 10%, it is **88, 37.251, 80.544**.

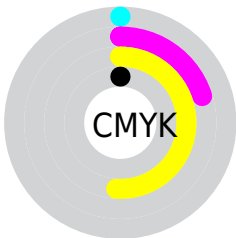
# Distribution



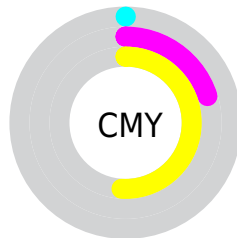
- Red (100%)
- Green (80%)
- Blue (49%)



- Red (82%)
- Yellow (100%)
- Blue (49%)



- Cyan (0%)
- Magenta (20%)
- Yellow (51%)
- Black (0%)



- Cyan (0%)
- Magenta (20%)
- Yellow (51%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 85, 47.044, 78.697 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, 47.044, 78.697 by changing the saturation by 10% instead.



 85, 47.044, 78.697

 85, 47.044, 78.697

 100, 47.044,  
78.697

 75, 47.044, 78.697

 65, 47.044, 78.697

 55, 47.044, 78.697

 45, 47.044, 78.697

 35, 47.044, 78.697

 25, 47.044, 78.697

 15, 47.044, 78.697

 5, 47.044, 78.697

 0, 47.044, 78.697

85, 47.044, 78.697

85, 47.044, 78.697

82, 56.412, 77.597

88, 37.251, 80.544

80, 65.569, 75.978

91, 27.798, 81.942

77, 73.651, 74.132

94, 18.574, 83.299

75, 79.657, 71.853

97, 9.609, 84.607

73, 82.816, 69.325

100, 0.904, 85.547

100, 0.012,  
296.813

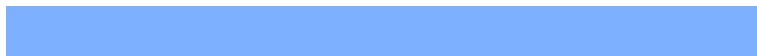
# Harmonies

# Complementary

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



85, 47.044, 78.697



71, 44.562, 275.935

# Rectangle

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



85, 47.044, 78.697



85, 47.044, 128.697



85, 47.044, 258.697



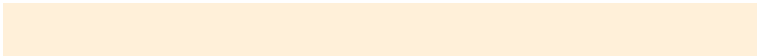
85, 47.044, 308.697

# Sweetspot

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



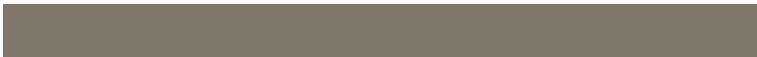
85, 46.850, 79.102



95, 13.104, 84.100



69, 55.043, 355.843



50, 8.969, 83.824



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, 46.850, 79.102



82, 56.350, 77.608



97, 63.869, 110.017



52, 4.925, 84.804



56, 66.638, 69.958



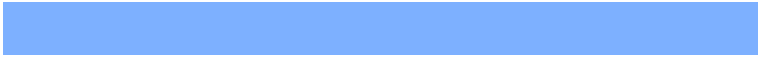
18, 27.439, 72.563





# Inverse Universe

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



71, 44.562, 275.935



66, 53.476, 278.944



59, 73.505, 300.289



50, 4.889, 267.381



36, 71.459, 293.005



10, 28.696, 287.348



# Previews

## White Background



This preview shows how the CIELCh color 85, 47.044, 78.697 looks on a white background.

## Color Contrast Check

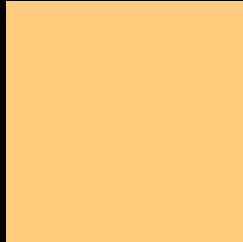
Large Text (above 18pt) WCAG AA × Fail

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, 47.044, 78.697 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, 47.044, 78.697**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 85, 47.044, 78.697.



This preview shows how white text looks on a background with the CIELCh color 85, 47.044, 78.697.

# 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, 46.784, 79.173

### Protanopia

85, 44.134, 95.551

### Deuteranopia

85, 42.515, 76.242



**Tritanopia**  
85, 22.506, 5.117



# Trichromacy



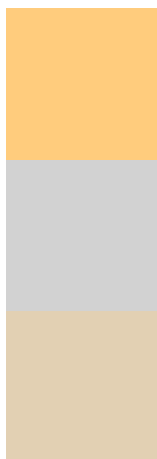
**Original Color**  
85, 46.784, 79.173

**Protanomaly**  
85, 44.484, 89.522

**Deuteranomaly**  
85, 43.871, 77.044

**Tritanomaly**  
85, 24.909, 46.792

# Monochromacy



**Original Color**  
85, 46.784, 79.173

**Achromatopsia**  
84, 0.010, 296.813

**Achromatomaly**  
84, 16.754, 84.249

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 85, 47.044, 78.697 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, 204, 125)` looks like.

```
.text, #text, p{  
    color:rgb(255, 204, 125)  
}
```

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, 204, 125) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 204, 125) }
```

## Border

The CSS property to change the border of an element to CIELCh 85, 47.044, 78.697 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, 204, 125) }
```

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

```
.border{ border-color:rgb(255, 204, 125) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 204, 125)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 204, 125); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 204, 125);  
box-shadow:4px 4px 4px 4px rgb(255, 204,  
125) }
```

# Background

The CSS property to change the background color of an element to CIELCh 85, 47.044, 78.697 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 204, 125) }
```

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

```
.background{ background-color: rgb(255,  
204, 125) }
```

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