

# Converting Colors

CIELCh(91, 71.221, 34.745)

Have a look what the booklet for  
CIELCh(91, 71.221, 34.745) contains.

<b>CIELCh(80, 33.887, 44.277)</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(80, 33.887, 44.277)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFB59C
RGB	255, 181, 156
RGB Percent	100%, 71%, 61%
CMY	0.0000, 0.2916, 0.3897
CMYK	0.00, 0.29, 0.39, 0.00
HSL	15°, 100%, 81%
HSV	15°, 39%, 100%
XYZ	63.9168, 56.6813, 38.8551
YIQ	200.2760, 52.1290, 7.9130

# Conversions

## Conversions Part 2

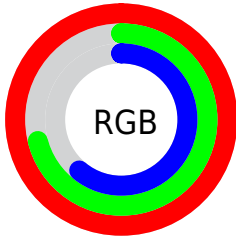
Format	Color
R <sub>Y</sub> B	255, 189, 156
Decimal	16758172
CIE Lab	80.00, 24.26, 23.66
CIE LCh	80, 33.887, 44.277
Yxy	56.6813, 0.4009, 0.3555
Android (android.graphics.Color)	4294948252 (0xFFFFB59C)
YUV	200.2760, -21.8281, 47.9929
Hunter-Lab	75.2870, 19.7900, 22.1017

# Details

The CIELCh color **80, 33.887, 44.277** is a light color, and the websafe version is hex **FFCC99**. A complement of this color would be **87, 25.678, 229.029**, and the grayscale version is **81, 0.010, 296.813**.

A 20% lighter version of the original color is **95, 14.924, 82.325**, and **60, 33.230, 44.549** is the 20% darker color. If you saturate the color by 10%, you get **75, 43.990, 44.488**, and if you desaturate by 10%, it is **85, 23.979, 44.586**.

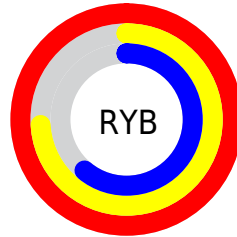
# Distribution



Red (100%)

Green (71%)

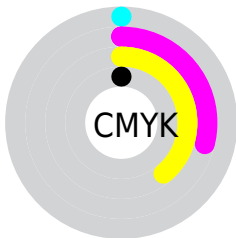
Blue (61%)



Red (100%)

Yellow (74%)

Blue (61%)

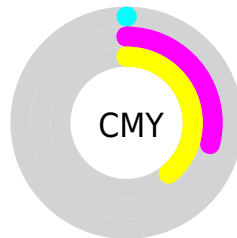


Cyan (0%)

Magenta (29%)

Yellow (39%)

Black (0%)



Cyan (0%)

Magenta (29%)

Yellow (39%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 80, 33.887, 44.277 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, 33.887, 44.277 by changing the saturation by 10% instead.



 80, 33.887, 44.277

 80, 33.887, 44.277

 100, 33.887,  
44.277

 70, 33.887, 44.277

 60, 33.887, 44.277

 50, 33.887, 44.277

 40, 33.887, 44.277

 30, 33.887, 44.277

 20, 33.887, 44.277

 10, 33.887, 44.277

 0, 33.887, 44.277

 80, 33.887, 44.277

 80, 33.887, 44.277

75, 43.990, 44.488

85, 23.979, 44.586

71, 55.051, 44.692

90, 15.070, 44.836

67, 66.615, 45.052

95, 6.845, 45.153

63, 78.235, 45.451

100, 0.012,  
296.813

60, 88.886, 45.552

57, 96.875, 44.813

57, 97.611, 44.754

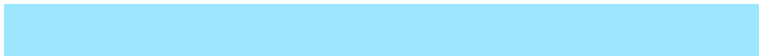
# Harmonies

# Complementary

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



80, 33.887, 44.277



87, 25.678, 229.029

# Rectangle

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



80, 33.887, 44.277



80, 33.887, 94.277



80, 33.887, 224.277



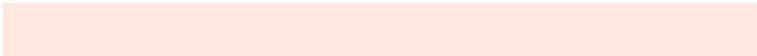
80, 33.887, 274.277

# Sweetspot

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



80, 33.615, 44.459



94, 9.266, 45.057



76, 52.142, 335.089



49, 6.179, 45.014



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, 33.615, 44.459



76, 41.886, 44.469



92, 39.435, 92.368



50, 4.346, 45.137



43, 78.130, 45.250



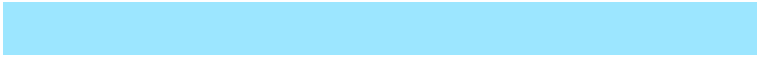
12, 29.223, 40.386



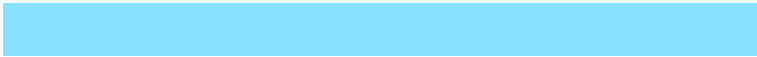


# Inverse Universe

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



87, 25.678, 229.029



85, 29.919, 230.282



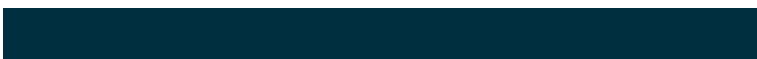
74, 40.687, 283.478



51, 4.109, 226.240



56, 36.950, 246.746



18, 16.511, 240.348



# Previews

## White Background



This preview shows how the CIELCh color 80, 33.887, 44.277 looks on a white background.

## Color Contrast Check

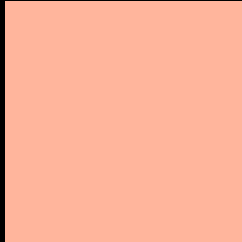
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIE LCh color 80, 33.887, 44.277 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, 33.887, 44.277**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 80, 33.887, 44.277.



This preview shows how white text looks on a background with the CIELCh color 80, 33.887, 44.277.

# 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, 33.455, 44.531

### Protanopia

80, 18.614, 93.833

### Deuteranopia

80, 26.260, 67.865



**Tritanopia**  
80, 30.573, 9.252



# Trichromacy



**Original Color**  
80, 33.455, 44.531

**Protanomaly**  
80, 21.502, 69.399

**Deuteranomaly**  
80, 28.148, 57.283

**Tritanomaly**  
80, 30.332, 22.953

# Monochromacy



**Original Color**  
80, 33.455, 44.531

**Achromatopsia**  
81, 0.010, 296.813

**Achromatomaly**  
80, 11.411, 44.714

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 80, 33.887, 44.277 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, 181, 156)` looks like.

```
.text, #text, p{  
    color:rgb(255, 181, 156)  
}
```

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, 181, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 181, 156) }
```

## Border

The CSS property to change the border of an element to CIELCh 80, 33.887, 44.277 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, 181, 156) }
```

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

```
.border{ border-color:rgb(255, 181, 156) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 181, 156)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 181, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 181, 156);  
box-shadow:4px 4px 4px 4px rgb(255, 181,  
156) }
```

# Background

The CSS property to change the background color of an element to CIELCh 80, 33.887, 44.277 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 181, 156) }
```

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

```
.background{ background-color: rgb(255,  
181, 156) }
```

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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