

# Converting Colors

CIELCh(83, 33.538, 60.197)

Have a look what the booklet for  
CIELCh(83, 33.538, 60.197) contains.

<b>CIELCh(83, 33.537, 60.110)</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(83, 33.537, 60.110)**

# Conversions

## Conversions Part 1

Format	Color
Hex	<a href="#">FFC299</a>
RGB	<a href="#">255, 194, 153</a>
RGB Percent	<a href="#">100%, 76%, 60%</a>
CMY	<a href="#">0.0000, 0.2391, 0.3999</a>
CMYK	<a href="#">0.00, 0.24, 0.40, 0.00</a>
HSL	<a href="#">24°, 100%, 80%</a>
HSV	<a href="#">24°, 40%, 100%</a>
XYZ	<a href="#">66.3016, 62.1629, 38.6532</a>
YIQ	<a href="#">207.5650, 49.5170, 0.1810</a>

# Conversions

## Conversions Part 2

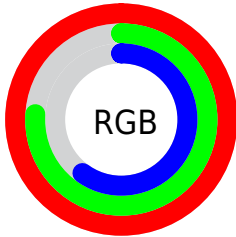
Format	Color
R <sub>Y</sub> B	255, 222, 153
Decimal	16761497
CIE Lab	83.00, 16.71, 29.08
CIE LCh	83, 33.537, 60.110
Yxy	62.1629, 0.3967, 0.3720
Android (android.graphics.Color)	4294951577 (0xFFFFC299)
YUV	207.5650, -26.9005, 41.6005
Hunter-Lab	78.8435, 12.1292, 26.1234

# Details

The CIELCh color **83, 33.537, 60.110** is a light color, and the websafe version is hex **FFCC99**. A complement of this color would be **83, 27.745, 250.435**, and the grayscale version is **83, 0.010, 296.813**.

A 20% lighter version of the original color is **98, 21.829, 104.578**, and **63, 33.244, 59.683** is the 20% darker color. If you saturate the color by 10%, you get **79, 43.283, 59.215**, and if you desaturate by 10%, it is **87, 24.331, 61.084**.

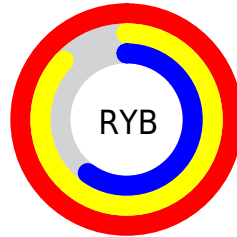
# Distribution



Red (100%)

Green (76%)

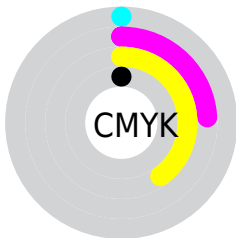
Blue (60%)



Red (100%)

Yellow (87%)

Blue (60%)

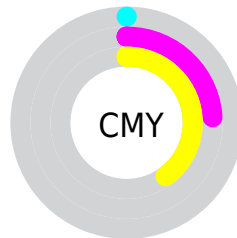


Cyan (0%)

Magenta (24%)

Yellow (40%)

Black (0%)



Cyan (0%)

Magenta (24%)

Yellow (40%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 83, 33.537, 60.110 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 83, 33.537, 60.110 by changing the saturation by 10% instead.



 83, 33.537, 60.110

 83, 33.537, 60.110

 100, 33.537,  
60.110

 73, 33.537, 60.110

 63, 33.537, 60.110

 53, 33.537, 60.110

 43, 33.537, 60.110

 33, 33.537, 60.110

 23, 33.537, 60.110

 13, 33.537, 60.110

 3, 33.537, 60.110

 0, 33.537, 60.110

83, 33.537, 60.110

83, 33.537, 60.110

79, 43.283, 59.215

87, 24.331, 61.084

75, 53.531, 58.331

91, 15.700, 62.069

72, 64.052, 57.426

96, 7.599, 63.054

68, 74.338, 56.361

100, 0.012,  
296.813

65, 83.355, 54.822

62, 89.969, 52.506

62, 89.976, 52.503

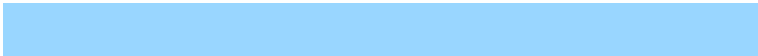
# Harmonies

# Complementary

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



83, 33.537, 60.110



83, 27.745, 250.435

# Rectangle

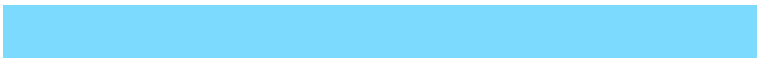
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



83, 33.537, 60.110



83, 33.537, 110.110



83, 33.537, 240.110



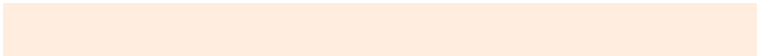
83, 33.537, 290.110

# Sweetspot

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



83, 33.526, 60.130



95, 9.188, 62.859



75, 48.432, 342.142



50, 6.120, 62.731



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

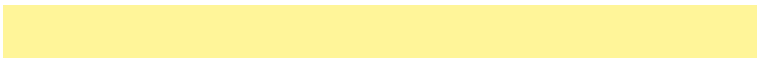
The Same Dimension uses a secret algorithm to generate beautiful new colors.



83, 33.526, 60.130



80, 41.301, 59.394



95, 46.294, 101.495



51, 4.319, 63.100



47, 72.061, 53.184



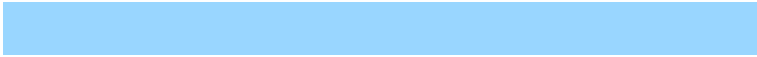
14, 27.445, 52.397



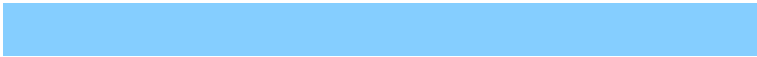


# Inverse Universe

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



83, 27.745, 250.435



80, 32.701, 252.405



70, 50.279, 291.618



51, 4.159, 245.303



47, 47.755, 272.773



14, 19.970, 265.591



# Previews

## White Background



This preview shows how the CIELCh color 83, 33.537, 60.110 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 83, 33.537, 60.110 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

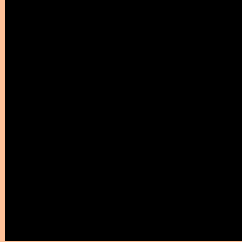
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 83, 33.537, 60.110

## Background



This preview shows how black text looks on a background with the CIELCh color 83, 33.537, 60.110.



This preview shows how white text looks on a background with the CIELCh color 83, 33.537, 60.110.

# 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

83, 33.537, 60.110

### Protanopia

83, 25.773, 95.456

### Deuteranopia

83, 31.241, 70.096



**Tritanopia**  
83, 25.733, 6.281



# Trichromacy



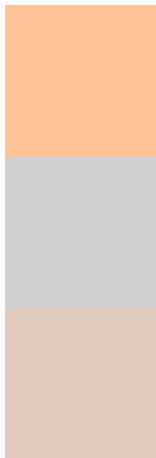
**Original Color**  
83, 33.537, 60.110

**Protanomaly**  
83, 26.894, 80.384

**Deuteranomaly**  
83, 32.246, 66.784

**Tritanomaly**  
83, 25.328, 29.595

# Monochromacy



**Original Color**  
83, 33.537, 60.110

**Achromatopsia**  
83, 0.010, 296.813

**Achromatomaly**  
83, 11.542, 62.811

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 83, 33.537, 60.110 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, 194, 153)` looks like.

```
.text, #text, p{  
    color:rgb(255, 194, 153)  
}
```

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, 194, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 194, 153) }
```

## Border

The CSS property to change the border of an element to CIELCh 83, 33.537, 60.110 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, 194, 153) }
```

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

```
.border{ border-color:rgb(255, 194, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 194, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 194, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 194, 153);  
box-shadow:4px 4px 4px 4px rgb(255, 194,  
153) }
```

# Background

The CSS property to change the background color of an element to CIELCh 83, 33.537, 60.110 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 194, 153) }
```

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

```
.background{ background-color: rgb(255,  
194, 153) }
```

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