

# Converting Colors

CIELCh(65, 5.553, 83.532)

Have a look what the booklet for  
CIELCh(65, 5.553, 83.532) contains.

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# Color

**CIELCh(65, 5.500, 84.234)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A39D94
RGB	163, 157, 148
RGB Percent	64%, 62%, 58%
CMY	0.3607, 0.3842, 0.4195
CMYK	0.00, 0.04, 0.09, 0.36
HSL	36°, 8%, 61%
HSV	36°, 9%, 64%
XYZ	32.5147, 34.0472, 32.8823
YIQ	157.7680, 6.4650, -1.5270

# Conversions

## Conversions Part 2

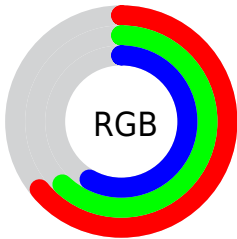
Format	Color
<a href="#">RYB</a>	<a href="#">158, 163, 148</a>
Decimal	<a href="#">10722708</a>
CIELab	<a href="#">65.00, 0.55, 5.47</a>
CIElCh	<a href="#">65, 5.500, 84.234</a>
Yxy	<a href="#">34.0472, 0.3270, 0.3424</a>
Android (android.graphics.Color)	<a href="#">4288912788</a> ( <a href="#">0xFFA39D94</a> )
YUV	<a href="#">157.7680, -4.8156, 4.5885</a>
Hunter-Lab	<a href="#">58.3500, -2.6458, 7.4329</a>

# Details

The CIELCh color  $65, 5.500, 84.234$  is a light color, and the websafe version is hex  $999999$ . A complement of this color would be  $63, 5.461, 266.684$ , and the grayscale version is  $65, 0.008, 296.813$ .

A 20% lighter version of the original color is  $85, 5.672, 86.677$ , and  $45, 5.749, 87.645$  is the 20% darker color. If you saturate the color by 10%, you get  $63, 11.659, 82.999$ , and if you desaturate by 10%, it is  $67, 0.478, 266.057$ .

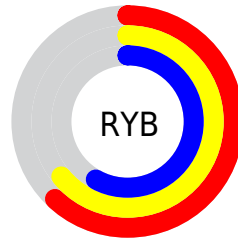
# Distribution



Red (64%)

Green (62%)

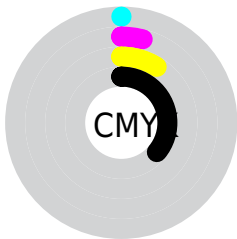
Blue (58%)



Red (62%)

Yellow (64%)

Blue (58%)

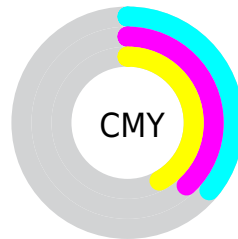


Cyan (0%)

Magenta (4%)

Yellow (9%)

Black (36%)



Cyan (36%)

Magenta (38%)

Yellow (42%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 65, 5.500, 84.234 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 65, 5.500, 84.234 by changing the saturation by 10% instead.



 65, 5.500, 84.234       65, 5.500, 84.234

 100, 5.500, 84.234       55, 5.500, 84.234

 85, 5.500, 84.234       45, 5.500, 84.234

 95, 5.500, 84.234       35, 5.500, 84.234


 25, 5.500, 84.234

 15, 5.500, 84.234

 5, 5.500, 84.234

 0, 5.500, 84.234

 65, 5.500, 84.234       65, 5.500, 84.234

 63, 11.659, 82.999       67, 0.478, 266.057

61, 17.998, 81.691

69, 6.289, 266.769

59, 24.508, 80.345

72, 11.944,  
267.896

57, 31.149, 78.961

74, 17.459,  
268.985

55, 37.827, 77.527

53, 44.354, 76.006

76, 22.845,  
270.027

51, 50.377, 74.320

78, 28.117,  
271.020

49, 55.317, 72.312

48, 58.912, 69.932

80, 29.881,  
268.677

82, 27.553,  
261.313

84, 25.740,  
252.853

# Harmonies

# Complementary

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



65, 5.500, 84.234



63, 5.461, 266.684

# Rectangle

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



65, 5.500, 84.234



65, 5.500, 134.234



65, 5.500, 264.234



65, 5.500, 314.234

# Sweetspot

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



65, 5.501, 84.253



84, 2.192, 84.926



63, 6.730, 350.177



45, 1.679, 84.858



93, 0.011, 296.813



45, 0.006, 296.813



# Same Dimension

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



65, 5.501, 84.253



82, 8.159, 84.008



66, 8.283, 113.377



33, 3.385, 84.245



43, 54.412, 70.108



3, 4.961, 80.053





# Inverse Universe

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



63, 5.461, 266.684



79, 8.078, 266.961



62, 8.458, 294.883



32, 3.360, 266.693



27, 56.352, 291.626



2, 5.417, 268.756



# Previews

## White Background



This preview shows how the CIELCh color 65, 5.500, 84.234 looks on a white background.

## Color Contrast Check

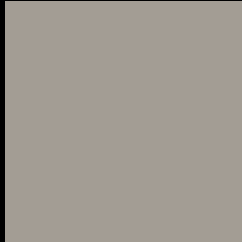
Large Text (above 18pt) WCAG AA × Fail

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 65, 5.500, 84.234 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

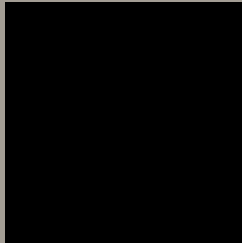
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

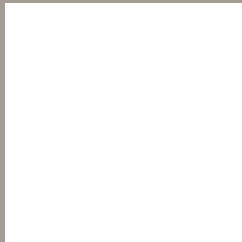
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 65, 5.500, 84.234

## Background



This preview shows how black text looks on a background with the CIELCh color 65, 5.500, 84.234.

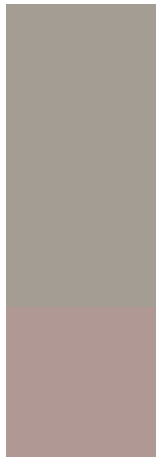


This preview shows how white text looks on a background with the CIELCh color 65, 5.500, 84.234.

# 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

65, 5.500, 84.234

### Protanopia

65, 5.500, 84.234

### Deuteranopia

65, 9.684, 30.066



**Tritanopia**  
65, 8.112, 324.803



# Trichromacy



**Original Color**  
65, 5.500, 84.234

**Protanomaly**  
65, 5.500, 84.234

**Deuteranomaly**  
65, 7.271, 42.235

**Tritanomaly**  
65, 4.455, 349.860

# Monochromacy



**Original Color**  
65, 5.500, 84.234

**Achromatopsia**  
65, 0.008, 296.813

**Achromatomaly**  
65, 2.333, 90.587

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 65, 5.500, 84.234 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(163, 157, 148)` looks like.

```
.text, #text, p{  
    color:rgb(163, 157, 148)  
}
```

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(163, 157, 148) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 157, 148) }
```

## Border

The CSS property to change the border of an element to CIELCh 65, 5.500, 84.234 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(163, 157, 148) }
```

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

```
.border{ border-color:rgb(163, 157, 148) }
```

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

Here you see how a box with a 4 pixel `rgb(163, 157, 148)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 157, 148); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 157, 148);  
box-shadow:4px 4px 4px 4px rgb(163, 157,  
148) }
```

# Background

The CSS property to change the background color of an element to CIELCh 65, 5.500, 84.234 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 157, 148) }
```

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

```
.background{ background-color: rgb(163,  
157, 148) }
```

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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