

# Converting Colors

CIELCh(65, 12.062, 306.300)

Have a look what the booklet for  
CIELCh(65, 12.062, 306.300)  
contains.

<b>CIELCh(65, 12.202, 307.111)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# **Color**

**CIELCh(65, 12.202, 307.111)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A39AAF
RGB	163, 154, 175
RGB Percent	64%, 60%, 69%
CMY	0.3603, 0.3956, 0.3133
CMYK	0.07, 0.12, 0.00, 0.31
HSL	266°, 12%, 65%
HSV	266°, 12%, 69%
XYZ	34.4515, 34.0472, 45.3731
YIQ	159.0850, -1.3770, 8.4390

# Conversions

## Conversions Part 2

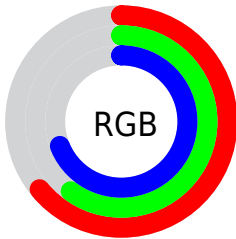
<b>Format</b>	<b>Color</b>
<b>RYB</b>	163, 154, 175
Decimal	10721967
CIELab	65.00, 7.36, -9.73
CIELCh	65, 12.202, 307.111
Yxy	34.0472, 0.3025, 0.2990
Android (android.graphics.Color)	4288912047 (0xFFA39AAF)
YUV	159.0850, 7.8461, 3.4335
Hunter-Lab	58.3500, 3.2790, -5.2591

# Details

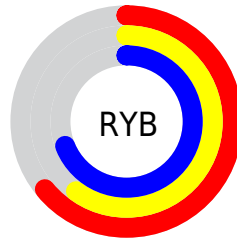
The CIELCh color  $65, 12.202, 307.111$  is a light color, and the websafe version is hex  $999999$ . A complement of this color would be  $70, 11.971, 125.977$ , and the grayscale version is  $66, 0.008, 296.813$ .

A 20% lighter version of the original color is  $85, 12.667, 307.233$ , and  $45, 12.406, 306.312$  is the 20% darker color. If you saturate the color by 10%, you get  $60, 22.712, 307.656$ , and if you desaturate by 10%, it is  $70, 2.001, 306.582$ .

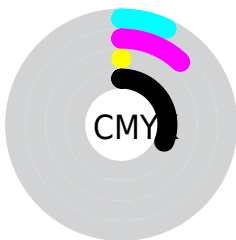
# Distribution



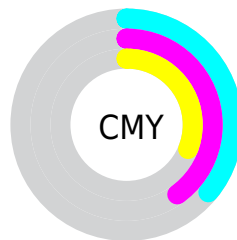
- Red (64%)
- Green (60%)
- Blue (69%)



- Red (64%)
- Yellow (60%)
- Blue (69%)



- Cyan (7%)
- Magenta (12%)
- Yellow (0%)
- Black (31%)




- Cyan (36%)
- Magenta (40%)
- Yellow (31%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 65, 12.202, 307.111 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, 12.202, 307.111 by changing the saturation by 10% instead.





 65, 12.202,  
307.111


 65, 12.202,  
307.111


 100, 12.202,  
307.111


 55, 12.202,  
307.111


 85, 12.202,  
307.111

 45, 12.202,  
307.111

 95, 12.202,  
307.111

 35, 12.202,  
307.111

 25, 12.202,  
307.111

 15, 12.202,  
307.111

 5, 12.202, 307.111

 0, 12.202, 307.111

65, 12.202,  
307.111

65, 12.202,  
307.111

60, 22.712,  
307.656

70, 2.001, 306.582

54, 33.504,  
308.249

76, 7.875, 126.198

49, 44.498,  
308.876

81, 17.434,  
125.807

44, 55.541,  
309.509

87, 26.686,  
125.468

39, 66.356,  
310.102

92, 35.645,  
125.173

34, 76.477,  
310.578

96, 41.990,  
123.842


30, 85.219,  
310.828


97, 40.990,  
118.877

27, 91.751,

98, 40.330,  
113.608

310.720

 98, 40.048,  
108.129

 26, 95.533,  
310.438

# Harmonies

# Complementary

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



65, 12.202, 307.111



70, 11.971, 125.977

# Rectangle

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



65, 12.202, 307.111



65, 12.202, 357.111



65, 12.202, 127.111



65, 12.202, 177.111

# Sweetspot

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



65, 12.200, 307.109



88, 4.969, 306.702



68, 6.490, 247.357



46, 3.563, 306.740



96, 0.011, 296.813



48, 0.006, 296.813





# Same Dimension

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



65, 12.200, 307.109



81, 17.647, 307.228



66, 13.741, 322.750



34, 5.691, 306.969



21, 85.306, 310.572



1, 11.706, 303.647



# Inverse Universe

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



66, 10.439, 340.889



82, 15.079, 341.079



70, 13.698, 141.561



34, 4.876, 340.662



32, 58.424, 354.795



2, 9.549, 344.954



# Previews

## White Background



This preview shows how the CIELCh color 65, 12.202, 307.111 looks on a white background.

## Color Contrast Check

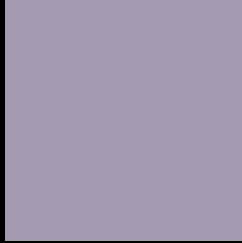
Large Text (above 18pt) WCAG AA × Fail

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, 12.202, 307.111 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

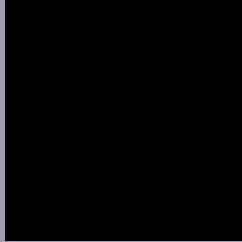
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 65, 12.202, 307.111

## Background



This preview shows how black text looks on a background with the CIELCh color 65, 12.202, 307.111.



This preview shows how white text looks on a background with the CIELCh color 65, 12.202, 307.111.

# 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, 12.202, 307.111

### Protanopia

65, 11.130, 287.629

### Deuteranopia

65, 13.087, 311.172





**Tritanopia**  
65, 7.731, 310.713

# Trichromacy



**Original Color**  
65, 12.202, 307.111

**Protanomaly**  
65, 11.166, 295.087

**Deuteranomaly**  
65, 12.966, 309.623

**Tritanomaly**  
65, 9.315, 307.288

# Monochromacy



**Original Color**  
65, 12.202, 307.111

**Achromatopsia**  
65, 0.008, 296.813

**Achromatomaly**  
65, 4.607, 304.817

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 65, 12.202, 307.111 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, 154, 175)` looks like.

```
.text, #text, p{  
    color:rgb(163, 154, 175)  
}
```

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, 154, 175) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 154, 175) }
```

## Border

The CSS property to change the border of an element to CIELCh 65, 12.202, 307.111 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, 154, 175) }
```

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

```
.border{ border-color:rgb(163, 154, 175) }
```

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

Here you see how a box with a 4 pixel `rgb(163, 154, 175)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 154, 175); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 154, 175);  
box-shadow:4px 4px 4px 4px rgb(163, 154,  
175) }
```

# Background

The CSS property to change the background color of an element to CIELCh 65, 12.202, 307.111 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 154, 175) }
```

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

```
.background{ background-color: rgb(163,  
154, 175) }
```

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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