

# Converting Colors

CIELCh(61, 13.642, 198.329)

Have a look what the booklet for  
CIELCh(61, 13.642, 198.329)  
contains.

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# Color

**CIELCh(61, 13.633, 198.196)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	749A9A
RGB	116, 154, 154
RGB Percent	45%, 60%, 60%
CMY	0.5443, 0.3952, 0.3952
CMYK	0.25, 0.00, 0.00, 0.40
HSL	180°, 16%, 53%
HSV	180°, 25%, 60%
XYZ	24.6704, 29.2481, 35.0092
YIQ	142.6380, -22.6480, -8.0560

# Conversions

## Conversions Part 2

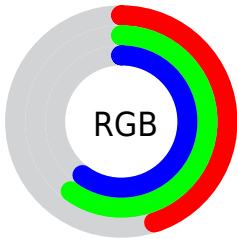
<b>Format</b>	<b>Color</b>
<b>RYB</b>	116, 135, 154
Decimal	7641754
CIELab	61.00, -12.95, -4.26
CIELCh	61, 13.633, 198.196
Yxy	29.2481, 0.2774, 0.3289
Android (android.graphics.Color)	4285831834 (0xFF749A9A)
YUV	142.6380, 5.6015, -23.3615
Hunter-Lab	54.0815, -13.2161, -0.5237

# Details

The CIELCh color  $61, 13.633, 198.196$  is a dark color, and the websafe version is hex  $669999$ . A complement of this color would be  $53, 16.012, 21.234$ , and the grayscale version is  $59, 0.008, 296.813$ .

A 20% lighter version of the original color is  $81, 13.471, 198.461$ , and  $41, 13.754, 197.767$  is the 20% darker color. If you saturate the color by 10%, you get  $60, 18.459, 197.755$ , and if you desaturate by 10%, it is  $62, 8.356, 198.688$ .

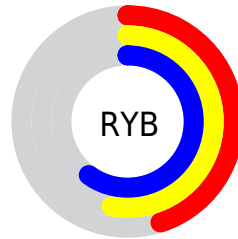
# Distribution



Red (45%)

Green (60%)

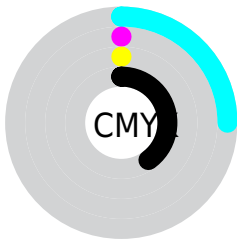
Blue (60%)



Red (45%)

Yellow (53%)

Blue (60%)

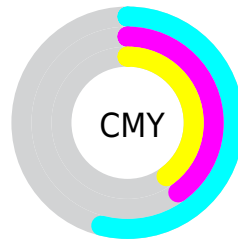


Cyan (25%)

Magenta (0%)

Yellow (0%)

Black (40%)



Cyan (54%)

Magenta (40%)


Yellow (40%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 61, 13.633, 198.196 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 61, 13.633, 198.196 by changing the saturation by 10% instead.





 61, 13.633,  
198.196


 61, 13.633,  
198.196


 100, 13.633,  
198.196


 51, 13.633,  
198.196


 81, 13.633,  
198.196

 41, 13.633,  
198.196

 91, 13.633,  
198.196

 31, 13.633,  
198.196

 21, 13.633,  
198.196

 11, 13.633,  
198.196

 1, 13.633, 198.196

 0, 13.633, 198.196

61, 13.633,  
198.196

61, 13.633,  
198.196

60, 18.459,  
197.755

62, 8.356, 198.688

59, 22.743,  
197.376

63, 2.718, 199.316

64, 3.197, 19.555

59, 26.405,  
197.058

66, 9.310, 20.223

58, 29.382,  
196.803

67, 15.556, 20.836

69, 21.881, 21.450

58, 31.642,  
196.611

70, 28.242, 22.067

58, 33.189,  
196.481

72, 34.605, 22.683

74, 40.943, 23.295

58, 34.078,  
196.406

58, 34.427,



# Harmonies

# Complementary

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



61, 13.633, 198.196



53, 16.012, 21.234

# Rectangle

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



61, 13.633, 198.196



61, 13.633, 248.196



61, 13.633, 18.196



61, 13.633, 68.196

# Sweetspot

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



61, 13.633, 198.191



80, 5.061, 199.127



60, 26.031, 142.439



43, 3.311, 199.091



91, 0.011, 296.813



43, 0.006, 296.813





# Same Dimension

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



61, 13.633, 198.191



77, 20.192, 197.925



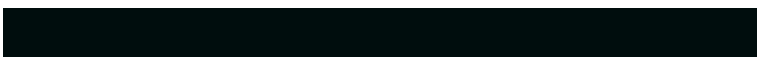
56, 12.448, 257.139



32, 3.249, 198.994



53, 32.121, 196.377



3, 3.595, 199.416



# Inverse Universe

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



53, 16.012, 21.234



65, 24.769, 21.892



57, 13.373, 70.662



30, 3.439, 19.891



28, 66.111, 39.047



1, 3.595, 19.400



# Previews

## White Background



This preview shows how the CIELCh color 61, 13.633, 198.196 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 61, 13.633, 198.196 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 × Fail

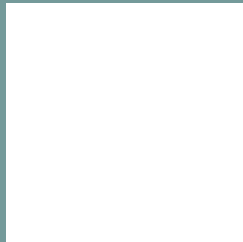
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 61, 13.633, 198.196

## Background



This preview shows how black text looks on a background with the CIELCh color 61, 13.633, 198.196.

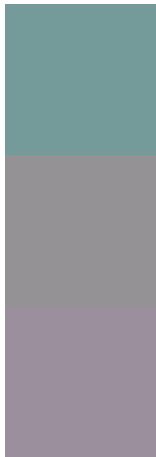


This preview shows how white text looks on a background with the CIELCh color 61, 13.633, 198.196.

# 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**  
61, 13.633, 198.196

**Protanopia**  
61, 2.065, 324.449

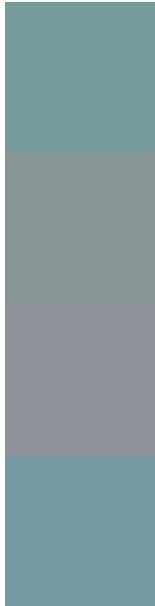
**Deuteranopia**  
61, 9.362, 322.927





**Tritanopia**  
61, 13.720, 228.143

# Trichromacy



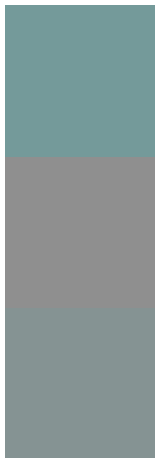
**Original Color**  
61, 13.633, 198.196

**Protanomaly**  
61, 4.635, 213.184

**Deuteranomaly**  
61, 5.371, 270.365

**Tritanomaly**  
61, 13.296, 218.297

# Monochromacy



**Original Color**  
61, 13.633, 198.196

**Achromatopsia**  
59, 0.008, 296.813

**Achromatomaly**  
60, 5.296, 198.983

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 61, 13.633, 198.196 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(116, 154, 154)` looks like.

```
.text, #text, p{  
    color:rgb(116, 154, 154)  
}
```

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(116, 154, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 154, 154) }
```

## Border

The CSS property to change the border of an element to CIELCh 61, 13.633, 198.196 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(116, 154, 154) }
```

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

```
.border{ border-color:rgb(116, 154, 154) }
```

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

Here you see how a box with a 4 pixel rgb(116, 154, 154) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 154, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 154, 154);  
box-shadow:4px 4px 4px 4px rgb(116, 154,  
154) }
```

# Background

The CSS property to change the background color of an element to CIELCh 61, 13.633, 198.196 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 154, 154) }
```

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

```
.background{ background-color: rgb(116,  
154, 154) }
```

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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