

# Converting Colors

CIELCh(64, 16.697, 233.265)

Have a look what the booklet for  
CIELCh(64, 16.697, 233.265)  
contains.

<b>CIELCh(64, 16.697, 233.265)</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(64, 16.697, 233.265)**

# Conversions

## Conversions Part 1

Format	Color
Hex	77A1B2
RGB	119, 161, 178
RGB Percent	47%, 63%, 70%
CMY	0.5319, 0.3671, 0.3004
CMYK	0.33, 0.10, 0.00, 0.30
HSL	197°, 28%, 58%
HSV	197°, 33%, 70%
XYZ	28.5459, 32.8017, 47.1511
YIQ	150.3800, -30.4890, -3.6170

# Conversions

## Conversions Part 2

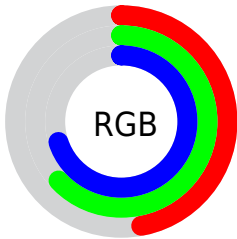
Format	Color
<a href="#">RYB</a>	<a href="#">119, 144, 178</a>
Decimal	<a href="#">7840178</a>
CIELab	<a href="#">64.00, -9.99, -13.38</a>
CIElCh	<a href="#">64, 16.697, 233.265</a>
Yxy	<a href="#">32.8017, 0.2631, 0.3023</a>
Android (android.graphics.Color)	<a href="#">4286030258 (0xFF77A1B2)</a>
YUV	<a href="#">150.3800, 13.6167, -27.5203</a>
Hunter-Lab	<a href="#">57.2727, -11.2593, -8.7209</a>

# Details

The CIELCh color  $64, 16.697, 233.265$  is a light color, and the websafe version is hex  $669999$ . A complement of this color would be  $60, 20.484, 48.377$ , and the grayscale version is  $62, 0.008, 296.813$ .

A 20% lighter version of the original color is  $84, 16.736, 233.370$ , and  $44, 16.533, 233.923$  is the 20% darker color. If you saturate the color by 10%, you get  $62, 21.004, 234.820$ , and if you desaturate by 10%, it is  $67, 11.996, 232.042$ .

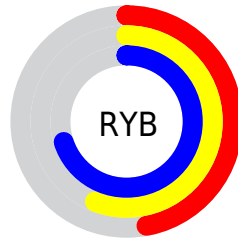
# Distribution



Red (47%)

Green (63%)

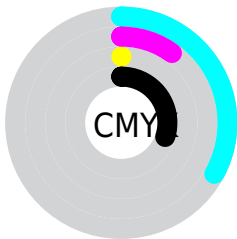
Blue (70%)



Red (47%)

Yellow (56%)

Blue (70%)

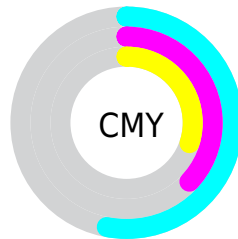


Cyan (33%)

Magenta (10%)

Yellow (0%)

Black (30%)



Cyan (53%)

Magenta (37%)


Yellow (30%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 64, 16.697, 233.265 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 64, 16.697, 233.265 by changing the saturation by 10% instead.




 64, 16.697,  
233.265

 64, 16.697,  
233.265


 100, 16.697,  
233.265


 54, 16.697,  
233.265


 84, 16.697,  
233.265

 44, 16.697,  
233.265

 94, 16.697,  
233.265

 34, 16.697,  
233.265

 24, 16.697,  
233.265

 14, 16.697,  
233.265

 4, 16.697, 233.265

 0, 16.697, 233.265

64, 16.697,  
233.265

64, 16.697,  
233.265

62, 21.004,  
234.820

67, 11.996,  
232.042

59, 24.858,  
236.796

69, 6.969, 231.107

72, 1.677, 230.566

57, 28.214,  
239.275

75, 3.820, 49.577

55, 31.059,  
242.347

77, 9.474, 49.195

53, 33.431,  
246.080

80, 15.242, 48.860

83, 21.090, 48.596

51, 35.428,  
250.487

85, 24.470, 51.385

50, 36.739,  
253.737

87, 24.337, 58.836

# Harmonies

# Complementary

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



64, 16.697, 233.265



60, 20.484, 48.377

# Rectangle

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



64, 16.697, 233.265



64, 16.697, 283.265



64, 16.697, 53.265



64, 16.697, 103.265

# Sweetspot

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



64, 16.697, 233.261



89, 6.640, 230.887



68, 32.213, 150.948



47, 4.553, 230.989



96, 0.011, 296.813



49, 0.007, 296.813



# Same Dimension

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



64, 16.697, 233.261



79, 24.364, 234.412



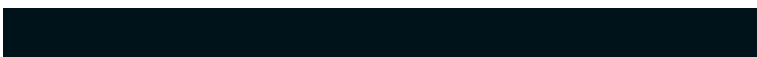
56, 26.675, 284.172



36, 3.044, 230.828



43, 32.642, 253.074



5, 7.559, 242.584





# Inverse Universe

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



57, 32.418, 336.164



70, 48.278, 336.782



68, 25.778, 95.494



35, 5.517, 334.400



34, 63.699, 343.722



2, 12.325, 338.147



# Previews

## White Background



This preview shows how the CIE LCh color 64, 16.697, 233.265 looks on a white background.

## Color Contrast Check

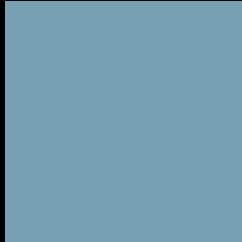
Large Text (above 18pt) WCAG AA × Fail

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 64, 16.697, 233.265 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

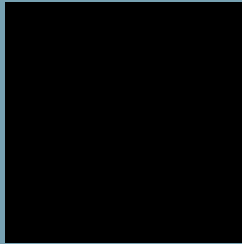
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

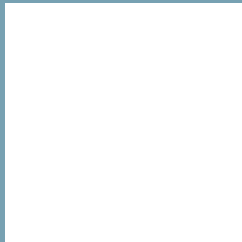
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 64, 16.697, 233.265**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 64, 16.697, 233.265.



This preview shows how white text looks on a background with the CIELCh color 64, 16.697, 233.265.

# 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

64, 16.697, 233.265

### Protanopia

64, 11.171, 289.515

### Deuteranopia

64, 16.946, 299.224



**Tritanopia**  
64, 16.050, 225.341



# Trichromacy



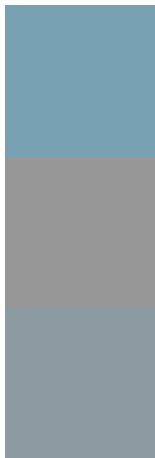
**Original Color**  
64, 16.697, 233.265

**Protanomaly**  
64, 11.874, 262.803

**Deuteranomaly**  
64, 14.456, 274.733

**Tritanomaly**  
64, 16.248, 227.238

# Monochromacy



**Original Color**  
64, 16.697, 233.265

**Achromatopsia**  
62, 0.008, 296.813

**Achromatomaly**  
63, 6.395, 230.778

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 64, 16.697, 233.265 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(119, 161, 178)` looks like.

```
.text, #text, p{  
    color:rgb(119, 161, 178)  
}
```

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(119, 161, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(119, 161, 178) }
```

## Border

The CSS property to change the border of an element to CIELCh 64, 16.697, 233.265 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(119, 161, 178) }
```

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

```
.border{ border-color:rgb(119, 161, 178) }
```

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

Here you see how a box with a 4 pixel `rgb(119, 161, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(119, 161, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(119, 161, 178);  
box-shadow:4px 4px 4px 4px rgb(119, 161,  
178) }
```

# Background

The CSS property to change the background color of an element to CIELCh 64, 16.697, 233.265 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(119, 161, 178) }
```

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

```
.background{ background-color: rgb(119,  
161, 178) }
```

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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