

# Converting Colors

CIELCh(64, 10.226, 167.922)

Have a look what the booklet for  
CIELCh(64, 10.226, 167.922)  
contains.

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# Color

**CIELCh(64, 10.090, 168.701)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	89A097
RGB	137, 160, 151
RGB Percent	54%, 63%, 59%
CMY	0.4618, 0.3716, 0.4069
CMYK	0.14, 0.00, 0.06, 0.37
HSL	157°, 11%, 58%
HSV	157°, 14%, 63%
XYZ	28.5695, 32.8017, 34.2017
YIQ	152.0970, -10.8190, -7.6750

# Conversions

## Conversions Part 2

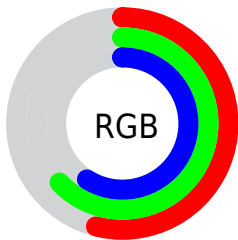
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">137, 151, 160</a>
Decimal	<a href="#">9019543</a>
CIELab	<a href="#">64.00, -9.89, 1.98</a>
CIELCh	<a href="#">64, 10.090, 168.701</a>
Yxy	<a href="#">32.8017, 0.2989, 0.3432</a>
Android (android.graphics.Color)	<a href="#">4287209623 (0xFF89A097)</a>
YUV	<a href="#">152.0970, -0.5408, -13.2401</a>
Hunter-Lab	<a href="#">57.2727, -11.1857, 4.6846</a>

# Details

The CIELCh color  $64, 10.090, 168.701$  is a light color, and the websafe version is hex  $999999$ . A complement of this color would be  $59, 10.384, 351.233$ , and the grayscale version is  $63, 0.008, 296.813$ .

A 20% lighter version of the original color is  $84, 10.153, 167.449$ , and  $44, 10.446, 167.117$  is the 20% darker color. If you saturate the color by 10%, you get  $63, 17.000, 167.688$ , and if you desaturate by 10%, it is  $65, 3.070, 169.694$ .

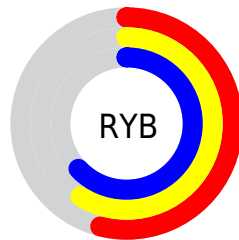
# Distribution



Red (54%)

Green (63%)

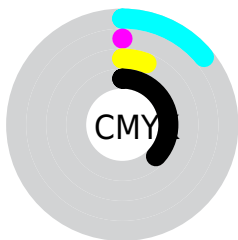
Blue (59%)



Red (54%)

Yellow (59%)

Blue (63%)

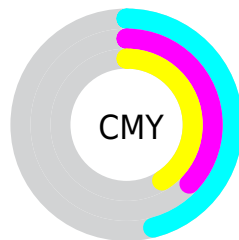


Cyan (14%)

Magenta (0%)

Yellow (6%)

Black (37%)



Cyan (46%)

Magenta (37%)


Yellow (41%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 64, 10.090, 168.701 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, 10.090, 168.701 by changing the saturation by 10% instead.





 64, 10.090,  
168.701


 64, 10.090,  
168.701


 100, 10.090,  
168.701


 54, 10.090,  
168.701


 84, 10.090,  
168.701

 44, 10.090,  
168.701

 94, 10.090,  
168.701

 34, 10.090,  
168.701

 24, 10.090,  
168.701

 14, 10.090,  
168.701

 4, 10.090, 168.701

 0, 10.090, 168.701

64, 10.090,  
168.701

64, 10.090,  
168.701

63, 17.000,  
167.688

65, 3.070, 169.694

62, 23.696,  
166.588

67, 3.983, 350.318

61, 30.070,  
165.373

68, 11.000,  
351.163

60, 36.008,  
164.018

70, 17.932,  
351.912

59, 41.403,  
162.498

72, 24.741,  
352.610

59, 46.173,  
160.792

74, 31.403,  
353.269

59, 50.275,  
158.885


76, 37.902,  
353.893

58, 53.724,

77, 40.976,  
351.320

156.778

 77, 42.466,  
347.292

 58, 55.524,  
155.592

# Harmonies

# Complementary

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



64, 10.090, 168.701



59, 10.384, 351.233

# Rectangle

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



64, 10.090, 168.701



64, 10.090, 218.701



64, 10.090, 348.701



64, 10.090, 38.701

# Sweetspot

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



64, 10.091, 168.697



83, 3.498, 169.727



64, 13.895, 131.886



44, 2.482, 169.645



92, 0.011, 296.813



44, 0.006, 296.813





# Same Dimension

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



64, 10.091, 168.697



81, 14.815, 168.405



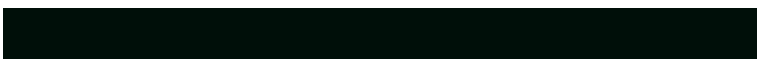
64, 7.686, 208.451



33, 3.938, 169.194



52, 50.806, 155.837



3, 5.281, 168.042



# Inverse Universe

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



59, 10.384, 351.233



74, 15.334, 351.542



60, 8.436, 28.963



31, 4.013, 350.716



30, 55.038, 11.306



1, 5.112, 351.215



# Previews

## White Background



This preview shows how the CIELCh color 64, 10.090, 168.701 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, 10.090, 168.701 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

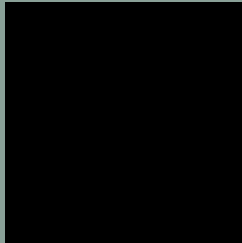
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 64, 10.090, 168.701**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 64, 10.090, 168.701.



This preview shows how white text looks on a background with the CIELCh color 64, 10.090, 168.701.

# 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, 10.090, 168.701

**Protanopia**  
64, 3.852, 79.258

**Deuteranopia**  
64, 8.004, 8.140





**Tritanopia**  
64, 9.135, 251.859

# Trichromacy



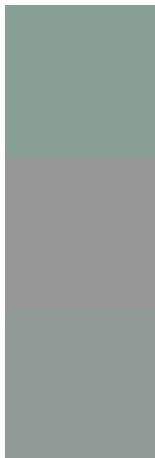
**Original Color**  
64, 10.090, 168.701

**Protanomaly**  
64, 4.363, 136.035

**Deuteranomaly**  
64, 1.895, 55.188

**Tritanomaly**  
64, 7.098, 222.134

# Monochromacy



**Original Color**  
64, 10.090, 168.701

**Achromatopsia**  
63, 0.008, 296.813

**Achromatomaly**  
63, 3.501, 170.635

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 64, 10.090, 168.701 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(137, 160, 151)` looks like.

```
.text, #text, p{  
    color:rgb(137, 160, 151)  
}
```

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(137, 160, 151) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 160, 151) }
```

## Border

The CSS property to change the border of an element to CIELCh 64, 10.090, 168.701 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(137, 160, 151) }
```

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

```
.border{ border-color:rgb(137, 160, 151) }
```

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

Here you see how a box with a 4 pixel `rgb(137, 160, 151)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 160, 151); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 160, 151);  
box-shadow:4px 4px 4px 4px rgb(137, 160,  
151) }
```

# Background

The CSS property to change the background color of an element to CIELCh 64, 10.090, 168.701 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 160, 151) }
```

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

```
.background{ background-color: rgb(137,  
160, 151) }
```

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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