

# Converting Colors

CIELCh(64, 10.683, 202.927)

Have a look what the booklet for  
CIELCh(64, 10.683, 202.927)  
contains.

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# **Color**

**CIELCh(64, 10.851, 201.455)**

# Conversions

## Conversions Part 1

Format	Color
Hex	83A1A2
RGB	131, 161, 162
RGB Percent	51%, 63%, 64%
CMY	0.4873, 0.3696, 0.3657
CMYK	0.19, 0.01, 0.00, 0.37
HSL	182°, 14%, 57%
HSV	182°, 19%, 63%
XYZ	28.5172, 32.8017, 38.8882
YIQ	152.1440, -18.2010, -6.0490

# Conversions

## Conversions Part 2

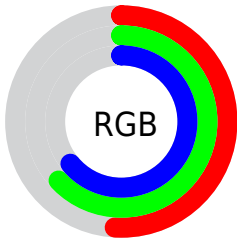
<b>Format</b>	<b>Color</b>
<b>RYB</b>	131, 146, 162
Decimal	8626594
CIELab	64.00, -10.10, -3.97
CIELCh	64, 10.851, 201.455
Yxy	32.8017, 0.2846, 0.3273
Android (android.graphics.Color)	4286816674 (0xFF83A1A2)
YUV	152.1440, 4.8590, -18.5433
Hunter-Lab	57.2727, -11.3488, -0.1670

# Details

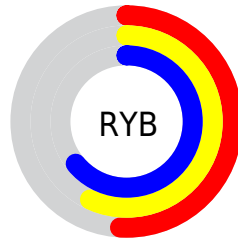
The CIELCh color  $64, 10.851, 201.455$  is a light color, and the websafe version is hex  $669999$ . A complement of this color would be  $58, 12.294, 23.273$ , and the grayscale version is  $63, 0.008, 296.813$ .

A 20% lighter version of the original color is  $84, 11.080, 201.411$ , and  $44, 10.639, 201.456$  is the 20% darker color. If you saturate the color by 10%, you get  $63, 15.956, 201.115$ , and if you desaturate by 10%, it is  $65, 5.337, 201.874$ .

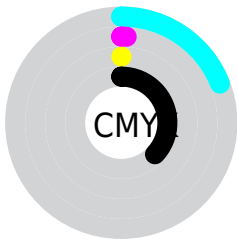
# Distribution



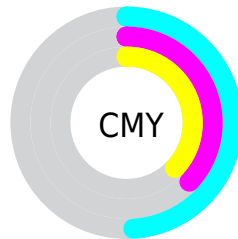
- Red (51%)
- Green (63%)
- Blue (64%)



- Red (51%)
- Yellow (57%)
- Blue (64%)



- Cyan (19%)
- Magenta (1%)
- Yellow (0%)
- Black (37%)




- Cyan (49%)
- Magenta (37%)
- Yellow (37%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 64, 10.851, 201.455 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, 10.851, 201.455 by changing the saturation by 10% instead.



 64, 10.851,  
201.455


 64, 10.851,  
201.455


 100, 10.851,  
201.455


 54, 10.851,  
201.455


 84, 10.851,  
201.455

 44, 10.851,  
201.455

 94, 10.851,  
201.455

 34, 10.851,  
201.455

 24, 10.851,  
201.455

 14, 10.851,  
201.455

 4, 10.851, 201.455

 0, 10.851, 201.455

64, 10.851,  
201.455

64, 10.851,  
201.455

63, 15.956,  
201.115

65, 5.337, 201.874

62, 20.557,  
200.861

67, 0.499, 21.266

61, 24.564,  
200.696

68, 6.576, 22.612

60, 27.900,  
200.629

70, 12.822, 23.145

60, 30.509,  
200.671

71, 19.180, 23.676

59, 32.370,  
200.830

73, 25.602, 24.214

59, 33.506,  
201.113

75, 32.050, 24.756

59, 34.076,

77, 36.395, 25.256

77, 36.219, 25.668

201.499

■ 59, 34.118,  
201.532

# Harmonies

# Complementary

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



64, 10.851, 201.455



58, 12.294, 23.273

# Rectangle

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



64, 10.851, 201.455



64, 10.851, 251.455



64, 10.851, 21.455



64, 10.851, 71.455

# Sweetspot

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



64, 10.852, 201.448



83, 4.339, 202.044



64, 20.905, 143.694



44, 2.868, 202.007



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, 10.852, 201.448



80, 15.833, 201.296



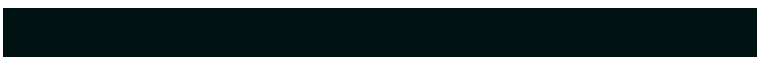
60, 10.405, 259.911



34, 3.318, 201.868



53, 31.560, 201.483



4, 5.236, 203.140



# Inverse Universe

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



58, 20.704, 326.346



72, 30.642, 326.579



62, 10.873, 74.833



32, 6.132, 325.793



34, 74.163, 329.528



2, 9.425, 325.601



# Previews

## White Background



This preview shows how the CIELCh color 64, 10.851, 201.455 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 CIELCh color 64, 10.851, 201.455 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

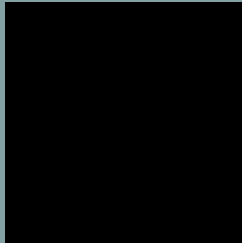
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 64, 10.851, 201.455

## Background



This preview shows how black text looks on a background with the CIELCh color 64, 10.851, 201.455.



This preview shows how white text looks on a background with the CIELCh color 64, 10.851, 201.455.

# 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

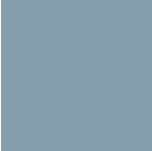


**Original Color**  
64, 10.851, 201.455

**Protanopia**  
64, 2.525, 317.335

**Deuteranopia**  
64, 9.938, 328.573





**Tritanopia**  
64, 11.505, 238.045

# Trichromacy



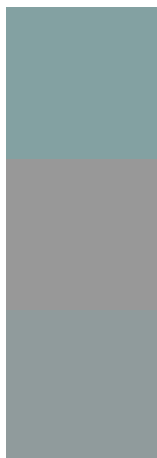
**Original Color**  
64, 10.851, 201.455

**Protanomaly**  
64, 3.736, 225.909

**Deuteranomaly**  
64, 5.034, 286.470

**Tritanomaly**  
64, 10.800, 223.157

# Monochromacy



**Original Color**  
64, 10.851, 201.455

**Achromatopsia**  
63, 0.008, 296.813

**Achromatomaly**  
63, 4.161, 206.875

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 64, 10.851, 201.455 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(131, 161, 162)` looks like.

```
.text, #text, p{  
    color:rgb(131, 161, 162)  
}
```

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(131, 161, 162) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 161, 162) }
```

## Border

The CSS property to change the border of an element to CIELCh 64, 10.851, 201.455 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(131, 161, 162) }
```

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

```
.border{ border-color:rgb(131, 161, 162) }
```

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

Here you see how a box with a 4 pixel `rgb(131, 161, 162)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(131, 161, 162); -webkit-box-  
shadow:4px 4px 4px 4px rgb(131, 161, 162);  
box-shadow:4px 4px 4px 4px rgb(131, 161,  
162) }
```

# Background

The CSS property to change the background color of an element to CIELCh 64, 10.851, 201.455 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 161, 162) }
```

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

```
.background{ background-color: rgb(131,  
161, 162) }
```

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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