

# Converting Colors

CIELCh(64, 13.288, 106.996)

Have a look what the booklet for  
CIELCh(64, 13.288, 106.996)  
contains.

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# **Color**

**CIELCh(64, 13.302, 106.981)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9D9C84
RGB	157, 156, 132
RGB Percent	62%, 61%, 52%
CMY	0.3827, 0.3866, 0.4808
CMYK	0.00, 0.01, 0.16, 0.38
HSL	58°, 11%, 57%
HSV	58°, 16%, 62%
XYZ	30.1351, 32.8017, 26.7163
YIQ	153.5630, 8.3000, -7.2520

# Conversions

## Conversions Part 2

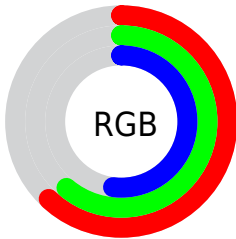
<b>Format</b>	<b>Color</b>
<b>RYB</b>	133, 157, 132
Decimal	10329220
CIELab	64.00, -3.88, 12.72
CIElCh	64, 13.302, 106.981
Yxy	32.8017, 0.3361, 0.3659
Android (android.graphics.Color)	4288519300 (0xFF9D9C84)
YUV	153.5630, -10.6306, 3.0142
Hunter-Lab	57.2727, -6.3063, 12.4336

# Details

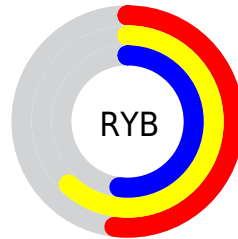
The CIELCh color  $64, 13.302, 106.981$  is a dark color, and the websafe version is hex  $999999$ . A complement of this color would be  $56, 13.745, 290.277$ , and the grayscale version is  $64, 0.008, 296.813$ .

A 20% lighter version of the original color is  $84, 13.135, 105.719$ , and  $44, 13.664, 106.329$  is the 20% darker color. If you saturate the color by 10%, you get  $64, 21.610, 106.001$ , and if you desaturate by 10%, it is  $65, 4.933, 107.958$ .

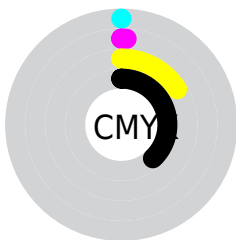
# Distribution



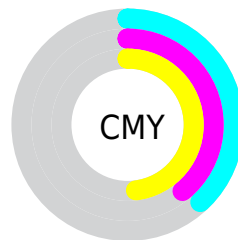
- Red (62%)
- Green (61%)
- Blue (52%)



- Red (52%)
- Yellow (62%)
- Blue (52%)



- Cyan (0%)
- Magenta (1%)
- Yellow (16%)
- Black (38%)




- Cyan (38%)
- Magenta (39%)
- Yellow (48%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 64, 13.302, 106.981 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, 13.302, 106.981 by changing the saturation by 10% instead.





 64, 13.302,  
106.981


 64, 13.302,  
106.981


 100, 13.302,  
106.981


 54, 13.302,  
106.981


 84, 13.302,  
106.981

 44, 13.302,  
106.981

 94, 13.302,  
106.981

 34, 13.302,  
106.981

 24, 13.302,  
106.981

 14, 13.302,  
106.981

 4, 13.302, 106.981

 0, 13.302, 106.981

64, 13.302,  
106.981

64, 13.302,  
106.981

64, 21.610,  
106.001

65, 4.933, 107.958

63, 29.783,  
105.018

65, 3.456, 288.951

63, 37.710,  
104.058

66, 11.835,  
289.870

62, 45.220,  
103.143

66, 20.186,  
290.766

62, 52.053,  
102.299

67, 28.493,  
291.626

62, 57.848,  
101.556

68, 36.749,  
292.445

61, 62.186,  
100.945

69, 44.946,  
293.223

61, 64.784,

70, 51.284,  
293.752

100.478

■ 70, 50.915,  
293.496

■ 61, 65.651,  
100.303

# Harmonies

# Complementary

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



64, 13.302, 106.981



56, 13.745, 290.277

# Rectangle

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



64, 13.302, 106.981



64, 13.302, 156.981



64, 13.302, 286.981



64, 13.302, 336.981

# Sweetspot

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



64, 13.303, 106.987



82, 5.171, 108.033



58, 10.143, 16.452



43, 3.521, 107.972



91, 0.011, 296.813



43, 0.006, 296.813





# Same Dimension

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



64, 13.303, 106.987



81, 19.632, 106.645



63, 14.612, 126.578



33, 4.754, 107.636



56, 61.149, 100.325



4, 6.185, 108.135



# Inverse Universe

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



56, 13.745, 290.277



69, 20.434, 290.717



57, 14.960, 308.056



31, 4.848, 289.503



16, 84.861, 305.634



0, 6.259, 288.628



# Previews

## White Background



This preview shows how the CIELCh color 64, 13.302, 106.981 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, 13.302, 106.981 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

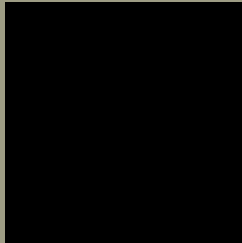
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

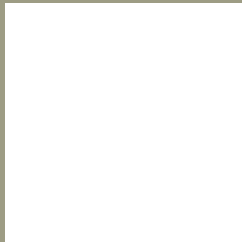
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 64, 13.302, 106.981

## Background



This preview shows how black text looks on a background with the CIELCh color 64, 13.302, 106.981.



This preview shows how white text looks on a background with the CIELCh color 64, 13.302, 106.981.

# 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, 13.302, 106.981


### Protanopia

64, 13.159, 94.430

### Deuteranopia

64, 14.650, 54.685





**Tritanopia**  
64, 7.729, 320.099

# Trichromacy



**Original Color**  
64, 13.302, 106.981

**Protanomaly**  
64, 13.442, 100.025

**Deuteranomaly**  
64, 13.160, 72.702

**Tritanomaly**  
64, 2.383, 32.902

# Monochromacy



**Original Color**  
64, 13.302, 106.981

**Achromatopsia**  
64, 0.008, 296.813

**Achromatomaly**  
64, 4.999, 109.625

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 64, 13.302, 106.981 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(157, 156, 132)` looks like.

```
.text, #text, p{  
    color:rgb(157, 156, 132)  
}
```

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(157, 156, 132) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(157, 156, 132) }
```

## Border

The CSS property to change the border of an element to CIELCh 64, 13.302, 106.981 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(157, 156, 132) }
```

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

```
.border{ border-color:rgb(157, 156, 132) }
```

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

Here you see how a box with a 4 pixel `rgb(157, 156, 132)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(157, 156, 132); -webkit-box-  
shadow:4px 4px 4px 4px rgb(157, 156, 132);  
box-shadow:4px 4px 4px 4px rgb(157, 156,  
132) }
```

# Background

The CSS property to change the background color of an element to CIELCh 64, 13.302, 106.981 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(157, 156, 132) }
```

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

```
.background{ background-color: rgb(157,  
156, 132) }
```

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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