

# Converting Colors

CIELCh(64, 38.971, 164.339)

Have a look what the booklet for  
CIELCh(64, 38.971, 164.339)  
contains.

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# Color

**CIELCh(64, 38.980, 164.295)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4BAC87
RGB	75, 172, 135
RGB Percent	29%, 67%, 53%
CMY	0.7054, 0.3250, 0.4702
CMYK	0.56, 0.00, 0.22, 0.33
HSL	157°, 39%, 48%
HSV	157°, 56%, 67%
XYZ	22.0662, 32.8017, 28.1301
YIQ	138.7790, -45.9350, -32.0710

# Conversions

## Conversions Part 2

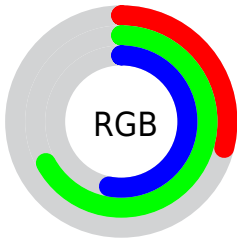
<b>Format</b>	<b>Color</b>
<b>RYB</b>	75, 135, 172
Decimal	4959367
CIELab	64.00, -37.52, 10.55
CIElCh	64, 38.980, 164.295
Yxy	32.8017, 0.2659, 0.3952
Android (android.graphics.Color)	4283149447 (0xFF4BAC87)
YUV	138.7790, -1.8630, -55.9342
Hunter-Lab	57.2727, -31.4543, 10.9700

# Details

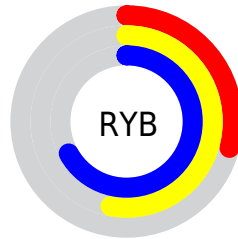
The CIELCh color **64, 38.980, 164.295** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **46, 43.613, 357.924**, and the grayscale version is **58, 0.007, 296.813**.

A 20% lighter version of the original color is **84, 39.161, 164.206**, and **44, 38.957, 163.904** is the 20% darker color. If you saturate the color by 10%, you get **63, 44.477, 162.729**, and if you desaturate by 10%, it is **65, 32.880, 165.690**.

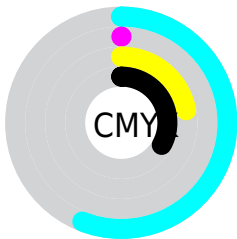
# Distribution



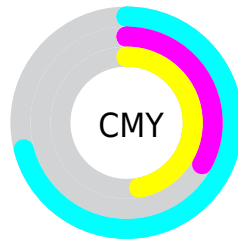
- Red (29%)
- Green (67%)
- Blue (53%)



- Red (29%)
- Yellow (53%)
- Blue (67%)



- Cyan (56%)
- Magenta (0%)
- Yellow (22%)
- Black (33%)



- Cyan (71%)
- Magenta (33%)
- Yellow (47%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 64, 38.980, 164.295 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, 38.980, 164.295 by changing the saturation by 10% instead.



 64, 38.980,  
164.295

 64, 38.980,  
164.295

 100, 38.980,  
164.295


 54, 38.980,  
164.295


 84, 38.980,  
164.295

 44, 38.980,  
164.295

 94, 38.980,  
164.295

 34, 38.980,  
164.295

 24, 38.980,  
164.295

 14, 38.980,  
164.295

 4, 38.980, 164.295

 0, 38.980, 164.295

64, 38.980,  
164.295

64, 38.980,  
164.295

63, 44.477,  
162.729

65, 32.880,  
165.690

63, 49.289,  
160.972

66, 26.285,  
166.940

62, 53.388,  
159.011

67, 19.314,  
168.070

62, 56.820,  
156.861

68, 12.088,  
169.103

62, 58.006,  
156.091

69, 4.714, 170.091

71, 2.715, 350.722

73, 10.125,  
351.635

74, 17.457,  
352.406

■ 76, 24.669,  
353.123

# Harmonies

# Complementary

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



64, 38.980, 164.295



46, 43.613, 357.924

# Rectangle

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



64, 38.980, 164.295



64, 38.980, 214.295



64, 38.980, 344.295



64, 38.980, 34.295

# Sweetspot

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



64, 38.981, 164.294



86, 15.582, 169.008



65, 56.739, 130.442



45, 10.395, 168.814



95, 0.011, 296.813



47, 0.006, 296.813





# Same Dimension

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



64, 38.981, 164.294



81, 55.984, 162.247



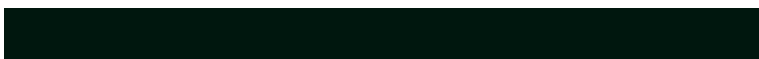
62, 26.290, 211.459



36, 4.223, 169.795



55, 52.284, 156.361



6, 9.555, 164.902



# Inverse Universe

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



46, 43.613, 357.924



54, 63.301, 1.008



47, 40.831, 33.802



34, 4.308, 351.349



31, 57.306, 12.510



2, 8.607, 355.184



# Previews

## White Background



This preview shows how the CIELCh color 64, 38.980, 164.295 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, 38.980, 164.295 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, 38.980, 164.295

## Background



This preview shows how black text looks on a background with the CIELCh color 64, 38.980, 164.295.

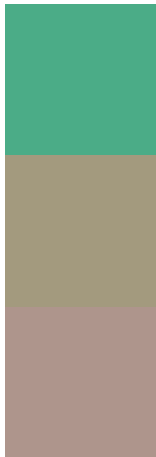


This preview shows how white text looks on a background with the CIELCh color 64, 38.980, 164.295.

# 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, 38.980, 164.295

**Protanopia**

64, 15.969, 95.006

**Deuteranopia**

64, 11.327, 46.284





**Tritanopia**  
64, 24.653, 216.214

# Trichromacy



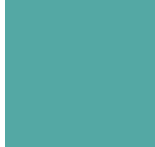
**Original Color**  
64, 38.980, 164.295



**Protanomaly**  
63, 21.409, 141.622



**Deuteranomaly**  
63, 12.994, 143.747



**Tritanomaly**  
64, 27.041, 192.347

# Monochromacy



**Original Color**  
64, 38.980, 164.295



**Achromatopsia**  
58, 0.007, 296.813



**Achromatomaly**  
60, 15.208, 169.067

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 64, 38.980, 164.295 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(75, 172, 135)` looks like.

```
.text, #text, p{  
    color:rgb(75, 172, 135)  
}
```

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(75, 172, 135) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(75, 172, 135) }
```

## Border

The CSS property to change the border of an element to CIELCh 64, 38.980, 164.295 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(75, 172, 135) }
```

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

```
.border{ border-color:rgb(75, 172, 135) }
```

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

Here you see how a box with a 4 pixel `rgb(75, 172, 135)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(75, 172, 135); -webkit-box-  
shadow:4px 4px 4px 4px rgb(75, 172, 135);  
box-shadow:4px 4px 4px 4px rgb(75, 172,  
135) }
```

# Background

The CSS property to change the background color of an element to CIELCh 64, 38.980, 164.295 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(75, 172, 135) }
```

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

```
.background{ background-color: rgb(75, 172,  
135) }
```

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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