

# Converting Colors

CIELCh(69, 47.223, 175.849)

Have a look what the booklet for  
CIELCh(69, 47.223, 175.849)  
contains.

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# Color

**CIELCh(69, 46.971, 175.892)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00BEA1
RGB	0, 190, 161
RGB Percent	0%, 75%, 63%
CMY	1.0000, 0.2553, 0.3690
CMYK	1.00, 0.00, 0.15, 0.26
HSL	171°, 100%, 37%
HSV	171°, 100%, 74%
XYZ	24.8061, 39.3444, 39.9558
YIQ	129.8840, -103.9310, -49.2990

# Conversions

## Conversions Part 2

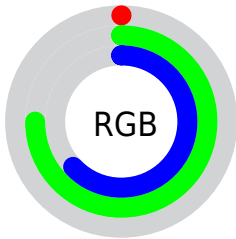
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 103, 190
Decimal	48801
CIELab	69.00, -46.85, 3.36
CIELCh	69, 46.971, 175.892
Yxy	39.3444, 0.2383, 0.3779
Android (android.graphics.Color)	4278238881 (0xFF00BEA1)
YUV	129.8840, 15.3402, -113.9083
Hunter-Lab	62.7251, -39.1769, 6.1399

# Details

The CIELCh color **69, 46.971, 175.892** is a dark color, and the websafe version is hex **33CC99**. A complement of this color would be **40, 76.908, 32.878**, and the grayscale version is **54, 0.007, 296.813**.

A 20% lighter version of the original color is **89, 46.855, 176.165**, and **50, 37.811, 172.868** is the 20% darker color. If you saturate the color by 10%, you get **69, 46.954, 175.885**, and if you desaturate by 10%, it is **69, 45.382, 177.416**.

# Distribution



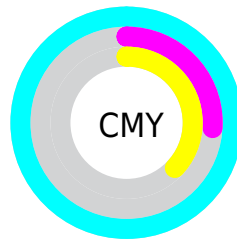
- Red (0%)
- Green (75%)
- Blue (63%)



- Red (0%)
- Yellow (40%)
- Blue (75%)



- Cyan (100%)
- Magenta (0%)
- Yellow (15%)
- Black (26%)




- Cyan (100%)
- Magenta (26%)
- Yellow (37%)


# Brightness & Saturation Gradients

These gradients show how the CIELCh color 69, 46.971, 175.892 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 69, 46.971, 175.892 by changing the saturation by 10% instead.




 69, 46.971,  
175.892


 69, 46.971,  
175.892


 100, 46.971,  
175.892


 59, 46.971,  
175.892


 89, 46.971,  
175.892

 49, 46.971,  
175.892

 99, 46.971,  
175.892

 39, 46.971,  
175.892

 29, 46.971,  
175.892

 19, 46.971,  
175.892

 9, 46.971, 175.892

 0, 46.971, 175.892

■ 69, 46.971,  
175.892

■ 69, 46.971,  
175.892

■ 69, 46.954,  
175.885

■ 69, 45.382,  
177.416

■ 69, 43.184,  
178.837

■ 70, 40.173,  
180.125

■ 70, 36.330,  
181.298

■ 71, 31.691,  
182.379

■ 72, 26.337,  
183.387

■ 73, 20.374,  
184.339

■ 74, 13.919,

185.253

■ 75, 7.090, 186.155

# Harmonies

# Complementary

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



69, 46.971, 175.892



40, 76.908, 32.878

# Rectangle

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



69, 46.971, 175.892



69, 46.971, 225.892



69, 46.971, 355.892



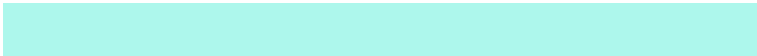
69, 46.971, 45.892

# Sweetspot

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



69, 46.954, 175.885



92, 25.219, 184.294



67, 94.689, 135.031



49, 17.130, 183.892



99, 0.012, 296.813



52, 0.007, 296.813





# Same Dimension

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



69, 46.954, 175.885



88, 57.445, 175.604



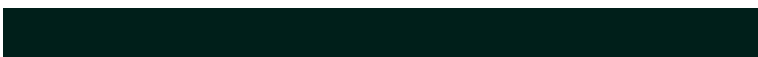
50, 41.559, 262.179



39, 4.002, 186.215



58, 40.895, 176.122



9, 12.695, 180.707



# Inverse Universe

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



40, 76.908, 32.878



52, 94.659, 33.745



45, 74.442, 49.059



37, 4.172, 7.687



33, 66.642, 32.114

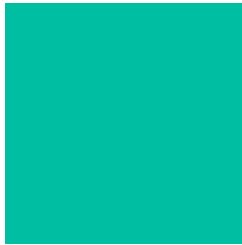


3, 12.421, 10.680



# Previews

## White Background



This preview shows how the CIE LCh color 69, 46.971, 175.892 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 69, 46.971, 175.892 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

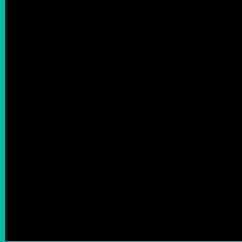
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 69, 46.971, 175.892**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 69, 46.971, 175.892.

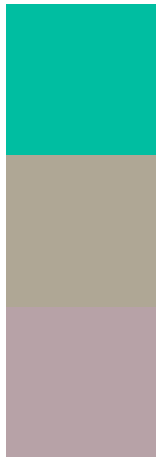


This preview shows how white text looks on a background with the CIELCh color 69, 46.971, 175.892.

# 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**  
69, 46.971, 175.892

**Protanopia**  
69, 10.340, 91.292

**Deuteranopia**  
69, 8.528, 1.433





**Tritanopia**  
69, 34.425, 210.953

# Trichromacy



**Original Color**  
69, 46.971, 175.892



**Protanomaly**  
67, 26.012, 169.328



**Deuteranomaly**  
66, 19.978, 186.482



**Tritanomaly**  
69, 38.009, 195.652

# Monochromacy



**Original Color**  
69, 46.971, 175.892



**Achromatopsia**  
54, 0.007, 296.813



**Achromatomaly**  
58, 24.622, 182.345

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 69, 46.971, 175.892 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(0, 190, 161)` looks like.

```
.text, #text, p{  
    color:rgb(0, 190, 161)  
}
```

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(0, 190, 161) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 190, 161) }
```

## Border

The CSS property to change the border of an element to CIELCh 69, 46.971, 175.892 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(0, 190, 161) }
```

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

```
.border{ border-color:rgb(0, 190, 161) }
```

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

Here you see how a box with a 4 pixel rgb(0, 190, 161) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 190, 161); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 190, 161);  
box-shadow:4px 4px 4px 4px rgb(0, 190,  
161) }
```

# Background

The CSS property to change the background color of an element to CIELCh 69, 46.971, 175.892 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 190, 161) }
```

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

```
.background{ background-color: rgb(0, 190,  
161) }
```

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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