

# Converting Colors

CIELCh(77, 49.821, 168.326)

Have a look what the booklet for  
CIELCh(77, 49.821, 168.326)  
contains.

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**Color**

**CIELCh(77, 49.874, 168.319)**

# Conversions

## Conversions Part 1

Format	Color
Hex	41D5AA
RGB	65, 213, 170
RGB Percent	25%, 84%, 67%
CMY	0.7458, 0.1652, 0.3338
CMYK	0.70, 0.00, 0.20, 0.17
HSL	163°, 64%, 54%
HSV	163°, 70%, 83%
XYZ	33.1691, 51.5317, 46.1625
YIQ	163.8460, -74.4050, -44.7490

# Conversions

## Conversions Part 2

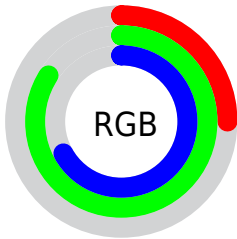
Format	Color
RYB	65, 152, 213
Decimal	4314538
CIELab	77.00, -48.84, 10.10
CIELCh	77, 49.874, 168.319
Yxy	51.5317, 0.2535, 0.3938
Android (android.graphics.Color)	4282504618 (0xFF41D5AA)
YUV	163.8460, 3.0339, -86.6879
Hunter-Lab	71.7856, -43.1475, 12.1229

# Details

The CIELCh color **77, 49.874, 168.319** is a light color, and the websafe version is hex **33CC99**. The color can be described as light muted spring green. A complement of this color would be **51, 61.175, 8.578**, and the grayscale version is **67, 0.008, 296.813**.

A 20% lighter version of the original color is **92, 41.915, 174.996**, and **57, 45.859, 166.498** is the 20% darker color. If you saturate the color by 10%, you get **77, 54.383, 166.563**, and if you desaturate by 10%, it is **78, 44.498, 169.888**.

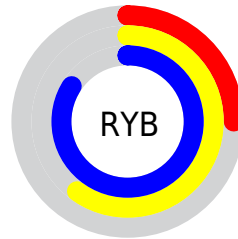
# Distribution



Red (25%)

Green (84%)

Blue (67%)



Red (25%)

Yellow (60%)

Blue (84%)

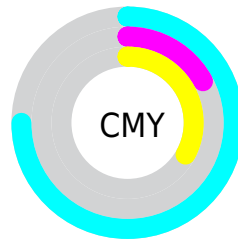


Cyan (70%)

Magenta (0%)

Yellow (20%)

Black (17%)



Cyan (75%)

Magenta (17%)


Yellow (33%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 77, 49.874, 168.319 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 77, 49.874, 168.319 by changing the saturation by 10% instead.





 77, 49.874,  
168.319


 77, 49.874,  
168.319


 100, 49.874,  
168.319


 67, 49.874,  
168.319


 97, 49.874,  
168.319

 57, 49.874,  
168.319

 47, 49.874,  
168.319

 37, 49.874,  
168.319

 27, 49.874,  
168.319

 17, 49.874,  
168.319

 7, 49.874, 168.319

0, 49.874, 168.319

77, 49.874,  
168.319

77, 49.874,  
168.319

77, 54.383,  
166.563

78, 44.498,  
169.888

76, 58.031,  
164.609

78, 38.316,  
171.297

76, 60.978,  
162.499

80, 31.434,  
172.568

76, 61.107,  
162.406

81, 23.986,  
173.727

82, 16.114,  
174.797

84, 7.951, 175.811

■ 85, 0.382, 355.348

■ 87, 8.785, 357.474

■ 89, 16.701,  
357.597

# Harmonies

# Complementary

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



77, 49.874, 168.319



51, 61.175, 8.578

# Rectangle

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



77, 49.874, 168.319



77, 49.874, 218.319



77, 49.874, 348.319



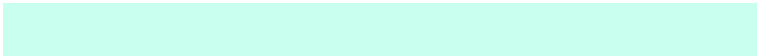
77, 49.874, 38.319

# Sweetspot

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



77, 49.874, 168.318



96, 19.997, 174.624



77, 82.479, 132.360



51, 13.481, 174.329



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



77, 49.874, 168.318



90, 64.241, 165.746



69, 33.835, 226.387



44, 4.750, 175.824



62, 51.586, 162.762



15, 18.914, 167.348



# Inverse Universe

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



51, 61.175, 8.578



56, 80.306, 14.192



55, 59.592, 41.337



42, 4.885, 357.464



36, 65.129, 21.610

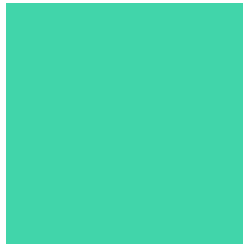


5, 22.248, 6.717



# Previews

## White Background



This preview shows how the CIELCh color 77, 49.874, 168.319 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 77, 49.874, 168.319 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

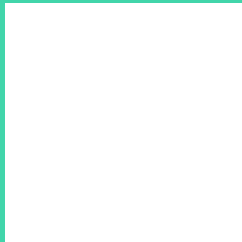
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 77, 49.874, 168.319**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 77, 49.874, 168.319.

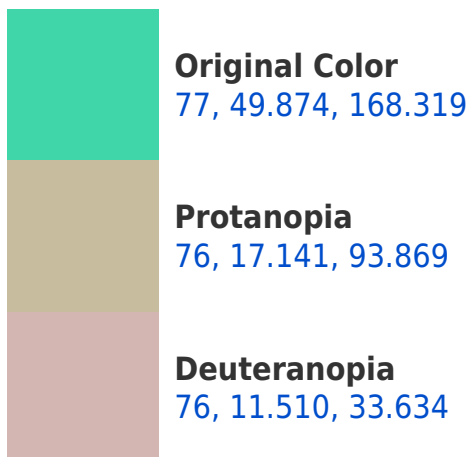


This preview shows how white text looks on a background with the CIELCh color 77, 49.874, 168.319.

# 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





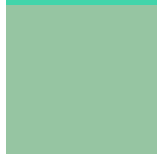


**Tritanopia**  
77, 33.314, 212.332

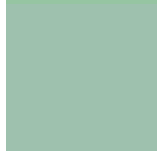
# Trichromacy



**Original Color**  
77, 49.874, 168.319



**Protanomaly**  
75, 25.785, 150.765



**Deuteranomaly**  
75, 16.545, 159.911

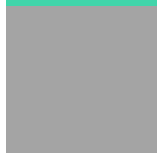


**Tritanomaly**  
77, 36.786, 192.543

# Monochromacy



**Original Color**  
77, 49.874, 168.319



**Achromatopsia**  
67, 0.008, 296.813



**Achromatomaly**  
70, 21.298, 173.333

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 77, 49.874, 168.319 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(65, 213, 170)` looks like.

```
.text, #text, p{  
    color:rgb(65, 213, 170)  
}
```

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(65, 213, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(65, 213, 170) }
```

## Border

The CSS property to change the border of an element to CIELCh 77, 49.874, 168.319 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(65, 213, 170) }
```

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

```
.border{ border-color:rgb(65, 213, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(65, 213, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(65, 213, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(65, 213, 170);  
box-shadow:4px 4px 4px 4px rgb(65, 213,  
170) }
```

# Background

The CSS property to change the background color of an element to CIELCh 77, 49.874, 168.319 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(65, 213, 170) }
```

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

```
.background{ background-color: rgb(65, 213,  
170) }
```

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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