

# Converting Colors

CIELCh(80, 39.496, 196.706)

Have a look what the booklet for  
CIELCh(80, 39.496, 196.706)  
contains.

<b>CIELCh(80, 39.420, 196.717)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

**Color**

**CIELCh(80, 39.420, 196.717)**

# Conversions

## Conversions Part 1

Format	Color
Hex	47DADA
RGB	71, 218, 218
RGB Percent	28%, 85%, 85%
CMY	0.7204, 0.1442, 0.1442
CMYK	0.67, 0.00, 0.00, 0.14
HSL	180°, 67%, 57%
HSV	180°, 67%, 86%
XYZ	40.4322, 56.6813, 75.2889
YIQ	174.0470, -87.6120, -31.1640

# Conversions

## Conversions Part 2

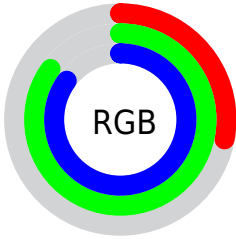
<b>Format</b>	<b>Color</b>
<b>RYB</b>	71, 145, 218
Decimal	4709082
CIELab	80.00, -37.75, -11.34
CIELCh	80, 39.420, 196.717
Yxy	56.6813, 0.2345, 0.3288
Android (android.graphics.Color)	4282899162 (0xFF47DADA)
YUV	174.0470, 21.6688, -90.3722
Hunter-Lab	75.2870, -35.8904, -6.5906

# Details

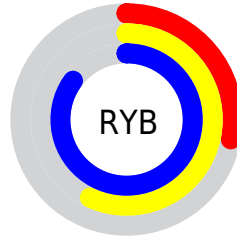
The CIELCh color **80, 39.420, 196.717** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light muted cyan. A complement of this color would be **52, 65.769, 29.661**, and the grayscale version is **71, 0.009, 296.813**.

A 20% lighter version of the original color is **94, 34.696, 197.287**, and **60, 35.545, 197.328** is the 20% darker color. If you saturate the color by 10%, you get **80, 41.989, 196.548**, and if you desaturate by 10%, it is **81, 35.871, 196.949**.

# Distribution



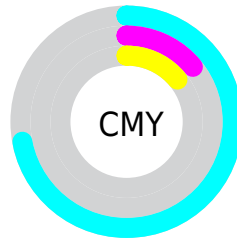
- Red (28%)
- Green (85%)
- Blue (85%)



- Red (28%)
- Yellow (57%)
- Blue (85%)



- Cyan (67%)
- Magenta (0%)
- Yellow (0%)
- Black (14%)




- Cyan (72%)
- Magenta (14%)
- Yellow (14%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 80, 39.420, 196.717 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 80, 39.420, 196.717 by changing the saturation by 10% instead.





 80, 39.420,  
196.717


 80, 39.420,  
196.717


 100, 39.420,  
196.717


 70, 39.420,  
196.717


 60, 39.420,  
196.717

 50, 39.420,  
196.717

 40, 39.420,  
196.717

 30, 39.420,  
196.717

 20, 39.420,  
196.717

 10, 39.420,

196.717

■ 0, 39.420, 196.717

■ 80, 39.420,  
196.717

■ 80, 39.420,  
196.717

■ 80, 41.989,  
196.548

■ 81, 35.871,  
196.949

■ 79, 43.612,  
196.443

■ 81, 31.367,  
197.249

■ 79, 44.409,  
196.391

■ 82, 25.982,  
197.614

■ 79, 44.556,  
196.382

■ 83, 19.817,  
198.041

■ 85, 12.997,  
198.529

■ 86, 5.647, 199.105

■ 88, 2.109, 19.275

■ 89, 10.162, 20.080

■ 90, 13.591, 20.344

# Harmonies

# Complementary

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



80, 39.420, 196.717



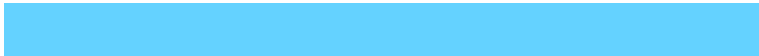
52, 65.769, 29.661

# Rectangle

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



80, 39.420, 196.717



80, 39.420, 246.717



80, 39.420, 16.717



80, 39.420, 66.717

# Sweetspot

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



80, 39.420, 196.716



97, 16.872, 198.383



77, 88.042, 138.140



51, 11.403, 198.244



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



80, 39.420, 196.716



91, 48.156, 196.495



59, 43.122, 268.717



45, 4.371, 198.970



64, 37.532, 196.382



16, 15.074, 196.383



# Inverse Universe

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



52, 65.769, 29.661



56, 90.308, 34.635



66, 53.528, 65.268



43, 4.639, 19.929



36, 78.234, 39.927

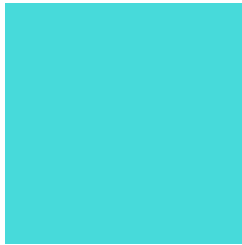


5, 23.840, 20.267



# Previews

## White Background



This preview shows how the CIELCh color 80, 39.420, 196.717 looks on a white background.

## Color Contrast Check

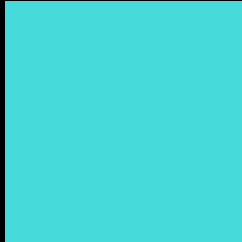
Large Text (above 18pt) WCAG AA × Fail

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 80, 39.420, 196.717 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

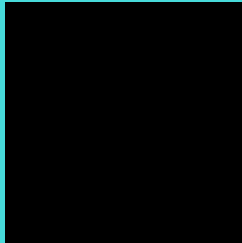
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

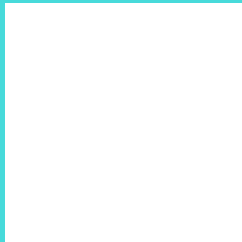
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 80, 39.420, 196.717**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 80, 39.420, 196.717.

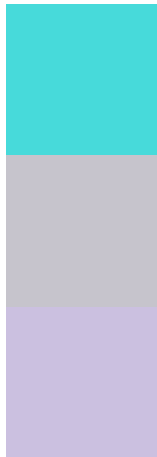


This preview shows how white text looks on a background with the CIELCh color 80, 39.420, 196.717.

# 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**  
80, 39.420, 196.717

**Protanopia**  
80, 4.345, 300.146

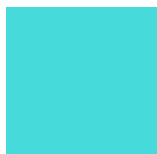
**Deuteranopia**  
79, 17.590, 304.247



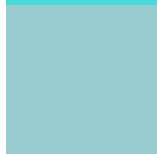


**Tritanopia**  
80, 36.697, 211.527

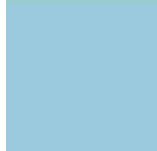
# Trichromacy



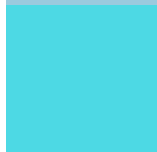
**Original Color**  
80, 39.420, 196.717



**Protanomaly**  
79, 17.533, 207.014



**Deuteranomaly**  
79, 18.352, 234.365

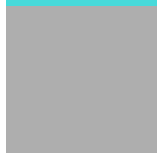


**Tritanomaly**  
80, 37.431, 206.053

# Monochromacy



**Original Color**  
80, 39.420, 196.717



**Achromatopsia**  
71, 0.009, 296.813



**Achromatomaly**  
73, 18.054, 198.029

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 80, 39.420, 196.717 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(71, 218, 218)` looks like.

```
.text, #text, p{  
    color:rgb(71, 218, 218)  
}
```

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(71, 218, 218) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 218, 218) }
```

## Border

The CSS property to change the border of an element to CIELCh 80, 39.420, 196.717 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(71, 218, 218) }
```

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

```
.border{ border-color:rgb(71, 218, 218) }
```

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

Here you see how a box with a 4 pixel `rgb(71, 218, 218)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 218, 218); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 218, 218);  
box-shadow:4px 4px 4px 4px rgb(71, 218,  
218) }
```

# Background

The CSS property to change the background color of an element to CIELCh 80, 39.420, 196.717 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 218, 218) }
```

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

```
.background{ background-color: rgb(71, 218,  
218) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor