

# Converting Colors

CIELCh(31, 82.273, 320.561)

Have a look what the booklet for  
CIELCh(31, 82.273, 320.561)  
contains.

<b>CIELCh(31, 82.060, 320.439)</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> .....	26

**Color**

**CIELCh(31, 82.060, 320.439)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7C009D
RGB	124, 0, 157
RGB Percent	49%, 0%, 62%
CMY	0.5155, 1.0000, 0.3860
CMYK	0.21, 1.00, 0.00, 0.39
HSL	287°, 100%, 31%
HSV	287°, 100%, 61%
XYZ	14.2869, 6.6515, 32.2363
YIQ	54.9740, 23.5070, 75.1150

# Conversions

## Conversions Part 2

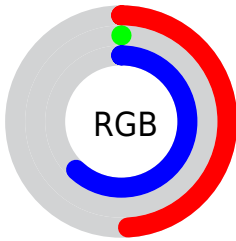
<b>Format</b>	<b>Color</b>
<b>RYB</b>	124, 0, 157
Decimal	8126621
CIELab	31.00, 63.26, -52.26
CIELCh	31, 82.060, 320.439
Yxy	6.6515, 0.2687, 0.1251
Android (android.graphics.Color)	4286316701 (0xFF7C009D)
YUV	54.9740, 50.2988, 60.5358
Hunter-Lab	25.7905, 53.7486, -56.0550

# Details

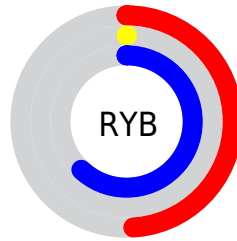
The CIELCh color **31, 82.060, 320.439** is a dark color, and the websafe version is hex **660099**. A complement of this color would be **56, 81.410, 134.393**, and the grayscale version is **23, 0.004, 296.813**.

A 20% lighter version of the original color is **51, 82.062, 320.588**, and **17, 62.168, 316.769** is the 20% darker color. If you saturate the color by 10%, you get **31, 81.902, 320.418**, and if you desaturate by 10%, it is **32, 78.948, 320.796**.

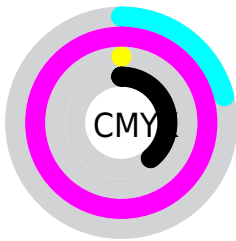
# Distribution



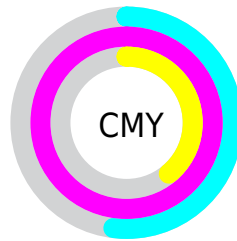
- Red (49%)
- Green (0%)
- Blue (62%)



- Red (49%)
- Yellow (0%)
- Blue (62%)



- Cyan (21%)
- Magenta (100%)
- Yellow (0%)
- Black (39%)




- Cyan (52%)
- Magenta (100%)
- Yellow (39%)


# Brightness & Saturation Gradients

These gradients show how the CIELCh color 31, 82.060, 320.439 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 31, 82.060, 320.439 by changing the saturation by 10% instead.




 31, 82.060,  
320.439

 31, 82.060,  
320.439

 100, 82.060,  
320.439

 21, 82.060,  
320.439

 51, 82.060,  
320.439


 11, 82.060,  
320.439


 61, 82.060,  
320.439

 1, 82.060, 320.439

 71, 82.060,  
320.439

 0, 82.060, 320.439

 81, 82.060,  
320.439

 91, 82.060,  
320.439

■ 31, 82.060,  
320.439

■ 31, 82.060,  
320.439

■ 31, 81.902,  
320.418

■ 32, 78.948,  
320.796

■ 34, 74.363,  
321.003

■ 37, 67.836,  
321.002

■ 40, 59.757,  
320.837

■ 43, 50.589,  
320.552

■ 47, 40.749,  
320.188

■ 51, 30.569,  
319.776

■ 56, 20.288,

319.341

■ 60, 10.066,  
318.897

# Harmonies

# Complementary

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



31, 82.060, 320.439



56, 81.410, 134.393

# Rectangle

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



31, 82.060, 320.439



31, 82.060, 10.439



31, 82.060, 140.439



31, 82.060, 190.439

# Sweetspot

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



31, 81.902, 320.418



66, 37.928, 319.801



22, 78.881, 301.518



32, 25.828, 319.965



91, 0.011, 296.813



43, 0.006, 296.813





# Same Dimension

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



31, 81.902, 320.418



41, 99.723, 320.277



35, 64.967, 343.419



31, 5.733, 318.863



28, 76.551, 320.475



1, 7.372, 317.477



# Inverse Universe

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



32, 63.694, 27.854



43, 78.264, 29.032



56, 74.055, 140.914



31, 3.669, 3.207



29, 59.318, 27.367



1, 4.675, 3.248



# Previews

## White Background



This preview shows how the CIELCh color 31, 82.060, 320.439 looks on a white background.

## Color Contrast Check

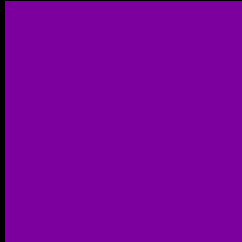
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

# Black Background



This preview shows how the CIELCh color 31, 82.060, 320.439 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

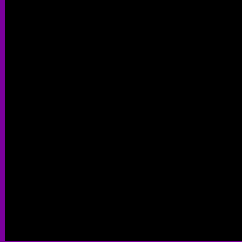
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 31, 82.060, 320.439

## Background



This preview shows how black text looks on a background with the CIELCh color 31, 82.060, 320.439.



This preview shows how white text looks on a background with the CIELCh color 31, 82.060, 320.439.

# 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

31, 82.060, 320.439

### Deuteranopia

32, 37.599, 273.909

### Tritanopia

32, 22.973, 16.041



# Trichromacy

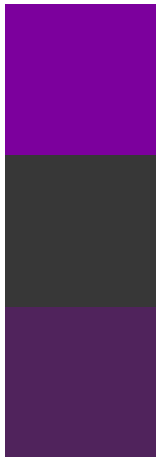


**Original Color**  
31, 82.060, 320.439

**Deuteranomaly**  
26, 59.842, 299.402

**Tritanomaly**  
29, 44.819, 335.278

# Monochromacy



**Original Color**  
31, 82.060, 320.439

**Achromatopsia**  
23, 0.004, 296.813

**Achromatomaly**  
23, 39.993, 320.813

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 31, 82.060, 320.439 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(124, 0, 157)` looks like.

```
.text, #text, p{  
    color:rgb(124, 0, 157)  
}
```

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(124, 0, 157) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(124, 0, 157) }
```

## Border

The CSS property to change the border of an element to CIELCh 31, 82.060, 320.439 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(124, 0, 157) }
```

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

```
.border{ border-color:rgb(124, 0, 157) }
```

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

Here you see how a box with a 4 pixel `rgb(124, 0, 157)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(124, 0, 157); -webkit-box-  
shadow:4px 4px 4px 4px rgb(124, 0, 157);  
box-shadow:4px 4px 4px 4px rgb(124, 0,  
157) }
```

# Background

The CSS property to change the background color of an element to CIELCh 31, 82.060, 320.439 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(124, 0, 157) }
```

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

```
.background{ background-color: rgb(124, 0,  
157) }
```

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