

# Converting Colors

CIELCh(80, 4.490, 114.786)

Have a look what the booklet for  
CIELCh(80, 4.490, 114.786) contains.

<b>CIELCh(80, 4.262, 114.774)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	21
<i><b>Color Blindness Simulation</b></i> .....	24
<i><b>CSS Examples</b></i> .....	27

# Color

**CIELCh(80, 4.262, 114.774)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C6C7BF
RGB	198, 199, 191
RGB Percent	78%, 78%, 75%
CMY	0.2231, 0.2192, 0.2506
CMYK	0.01, 0.00, 0.04, 0.22
HSL	68°, 7%, 77%
HSV	68°, 4%, 78%
XYZ	53.1793, 56.6813, 57.4880
YIQ	197.7890, 1.9720, -2.7000

# Conversions

## Conversions Part 2

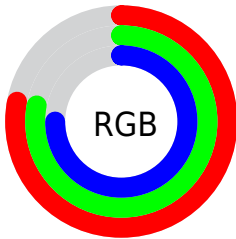
<b>Format</b>	<b>Color</b>
<b>RYB</b>	191, 199, 192
Decimal	13027263
CIELab	80.00, -1.79, 3.87
CIELCh	80, 4.262, 114.774
Yxy	56.6813, 0.3178, 0.3387
Android (android.graphics.Color)	4291217343 (0xFFC6C7BF)
YUV	197.7890, -3.3470, 0.1850
Hunter-Lab	75.2870, -5.6679, 7.4280

# Details

The CIELCh color `80, 4.262, 114.774` is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be `78, 4.318, 295.418`, and the grayscale version is `80, 0.010, 296.813`.

A 20% lighter version of the original color is `100, 4.046, 109.857`, and `60, 3.960, 115.430` is the 20% darker color. If you saturate the color by 10%, you get `79, 14.865, 114.017`, and if you desaturate by 10%, it is `81, 6.370, 295.551`.

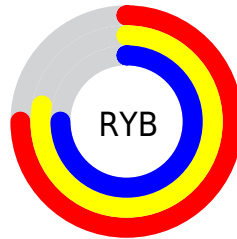
# Distribution



Red (78%)

Green (78%)

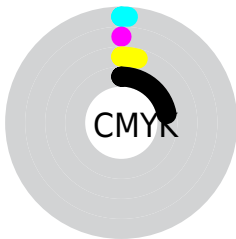
Blue (75%)



Red (75%)

Yellow (78%)

Blue (75%)

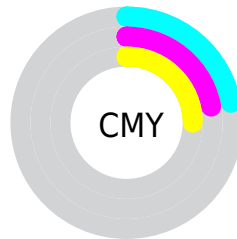


Cyan (1%)

Magenta (0%)

Yellow (4%)

Black (22%)



Cyan (22%)

Magenta (22%)

Yellow (25%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 80, 4.262, 114.774 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, 4.262, 114.774 by changing the saturation by 10% instead.



■ 80, 4.262, 114.774

■ 80, 4.262, 114.774

■ 100, 4.262,  
114.774

■ 70, 4.262, 114.774

■ 60, 4.262, 114.774

■ 50, 4.262, 114.774

■ 40, 4.262, 114.774

■ 30, 4.262, 114.774

■ 20, 4.262, 114.774

■ 10, 4.262, 114.774

■ 0, 4.262, 114.774

■ 80, 4.262, 114.774

■ 80, 4.262, 114.774

79, 14.865,  
114.017

81, 6.370, 295.551

79, 25.372,  
113.235

81, 16.995,  
296.276

78, 35.693,  
112.461

82, 27.580,  
296.969

78, 45.689,  
111.722

83, 29.846,  
298.350

77, 55.149,  
111.054

83, 29.943,  
299.919

77, 63.760,  
110.506

83, 30.060,  
301.487

77, 71.091,  
110.143

83, 30.198,  
303.050

76, 76.649,  
110.040

83, 30.358,  
304.607

76, 80.054,

84, 30.539,  
306.155



# Harmonies

# Complementary

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



80, 4.262, 114.774



78, 4.318, 295.418

# Rectangle

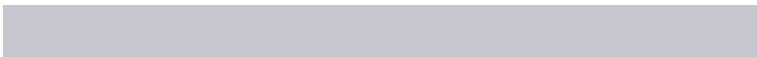
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



80, 4.262, 114.774



80, 4.262, 164.774



80, 4.262, 294.774



80, 4.262, 344.774

# Sweetspot

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



80, 4.264, 114.790



100, 1.288, 115.008



78, 2.667, 30.167



53, 0.732, 115.011



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, 4.264, 114.790



100, 6.485, 114.710



80, 4.643, 132.906



42, 3.607, 114.668



63, 70.146, 110.396



13, 20.492, 113.389



# Inverse Universe

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



78, 4.318, 295.418



96, 6.575, 295.503



78, 4.678, 313.168



40, 3.661, 295.549



19, 95.062, 306.788



1, 21.586, 295.051



# Previews

## White Background



This preview shows how the CIELCh color 80, 4.262, 114.774 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 80, 4.262, 114.774 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

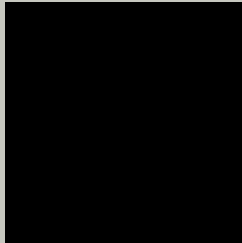
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

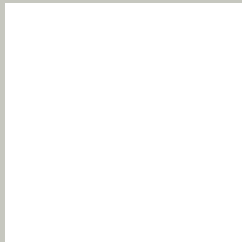
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 80, 4.262, 114.774**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 80, 4.262, 114.774.



This preview shows how white text looks on a background with the CIELCh color 80, 4.262, 114.774.

# 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, 4.262, 114.774

### Protanopia

80, 4.527, 74.508

### Deuteranopia

80, 10.174, 17.190





**Tritanopia**  
80, 8.227, 303.433

# Trichromacy



**Original Color**  
80, 4.262, 114.774

**Protanomaly**  
80, 4.485, 90.343

**Deuteranomaly**  
80, 6.196, 34.628

**Tritanomaly**  
80, 3.907, 306.671

# Monochromacy



**Original Color**  
80, 4.262, 114.774

**Achromatopsia**  
80, 0.010, 296.813

**Achromatomaly**  
80, 1.586, 109.994

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 80, 4.262, 114.774 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(198, 199, 191)` looks like.

```
.text, #text, p{  
    color:rgb(198, 199, 191)  
}
```

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(198, 199, 191) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(198, 199, 191) }
```

## Border

The CSS property to change the border of an element to CIELCh 80, 4.262, 114.774 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(198, 199, 191) }
```

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

```
.border{ border-color:rgb(198, 199, 191) }
```

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

Here you see how a box with a 4 pixel `rgb(198, 199, 191)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(198, 199, 191); -webkit-box-  
shadow:4px 4px 4px 4px rgb(198, 199, 191);  
box-shadow:4px 4px 4px 4px rgb(198, 199,  
191) }
```

# Background

The CSS property to change the background color of an element to CIELCh 80, 4.262, 114.774 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(198, 199, 191) }
```

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

```
.background{ background-color: rgb(198,  
199, 191) }
```

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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