

# Converting Colors

CIELCh(80, 2.666, 347.503)

Have a look what the booklet for  
CIELCh(80, 2.666, 347.503) contains.

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# Color

**CIELCh(80, 2.461, 353.768)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CBC5C7
RGB	203, 197, 199
RGB Percent	80%, 77%, 78%
CMY	0.2044, 0.2279, 0.2200
CMYK	0.00, 0.03, 0.02, 0.20
HSL	340°, 5%, 78%
HSV	340°, 3%, 80%
XYZ	54.8351, 56.6813, 62.0156
YIQ	199.0220, 2.9340, 1.8940

# Conversions

## Conversions Part 2

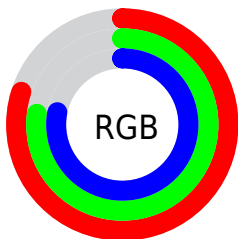
Format	Color
R <sub>Y</sub> B	203, 197, 199
Decimal	13354439
CIE Lab	80.00, 2.45, -0.27
CIE LCh	80, 2.461, 353.768
Yxy	56.6813, 0.3160, 0.3266
Android (android.graphics.Color)	4291544519 (0xFFCBC5C7)
YUV	199.0220, -0.0108, 3.4887
Hunter-Lab	75.2870, -1.7422, 3.8624

# Details

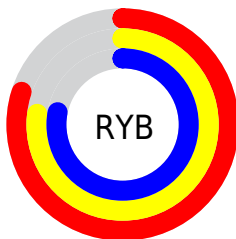
The CIELCh color  $80, 2.461, 353.768$  is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be  $81, 2.431, 173.645$ , and the grayscale version is  $80, 0.010, 296.813$ .

A 20% lighter version of the original color is  $100, 0.630, 323.973$ , and  $60, 2.610, 353.906$  is the 20% darker color. If you saturate the color by 10%, you get  $75, 10.975, 354.918$ , and if you desaturate by 10%, it is  $86, 5.721, 173.204$ .

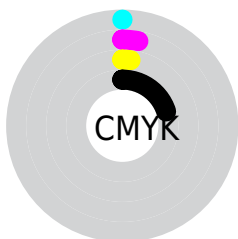
# Distribution



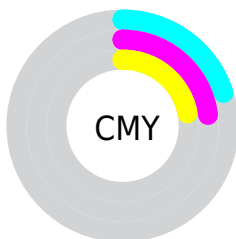
- Red (80%)
- Green (77%)
- Blue (78%)



- Red (80%)
- Yellow (77%)
- Blue (78%)



- Cyan (0%)
- Magenta (3%)
- Yellow (2%)
- Black (20%)



- Cyan (20%)
- Magenta (23%)
- Yellow (22%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 80, 2.461, 353.768 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, 2.461, 353.768 by changing the saturation by 10% instead.



■ 80, 2.461, 353.768

■ 80, 2.461, 353.768

100, 2.461,  
353.768

■ 70, 2.461, 353.768

■ 60, 2.461, 353.768

■ 50, 2.461, 353.768

■ 40, 2.461, 353.768

■ 30, 2.461, 353.768

■ 20, 2.461, 353.768

■ 10, 2.461, 353.768

■ 0, 2.461, 353.768

■ 80, 2.461, 353.768

■ 80, 2.461, 353.768

75, 10.975,  
354.918

86, 5.721, 173.204

69, 19.774,  
356.059

91, 13.549,  
172.385

64, 28.745,  
357.378

96, 19.565,  
174.178

59, 37.698,  
358.946

97, 17.336,  
194.986

55, 46.348, 0.855

97, 17.215,  
198.364

51, 54.315, 3.230

47, 61.180, 6.231

45, 66.617, 10.033

44, 70.579, 14.761

# Harmonies

# Complementary

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



80, 2.461, 353.768



81, 2.431, 173.645

# Rectangle

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



80, 2.461, 353.768



80, 2.461, 43.768



80, 2.461, 173.768



80, 2.461, 223.768

# Sweetspot

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



80, 2.459, 353.793



99, 1.002, 353.250



80, 3.534, 314.741



53, 0.570, 353.217



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, 2.459, 353.793



97, 4.014, 353.946



80, 1.909, 35.378



42, 2.377, 354.026



35, 62.486, 17.577



4, 18.702, 3.213



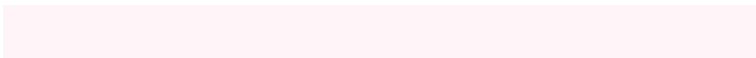


# Inverse Universe

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



80, 2.459, 353.793



97, 4.014, 353.946



81, 1.877, 216.005



42, 2.377, 354.026



35, 62.486, 17.577

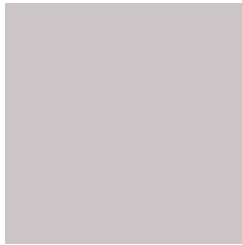


4, 18.702, 3.213



# Previews

## White Background



This preview shows how the CIELCh color 80, 2.461, 353.768 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, 2.461, 353.768 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

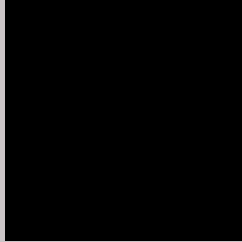
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

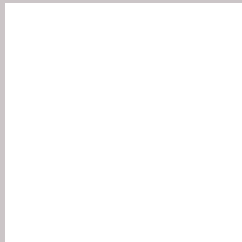
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 80, 2.461, 353.768

## Background



This preview shows how black text looks on a background with the CIELCh color 80, 2.461, 353.768.

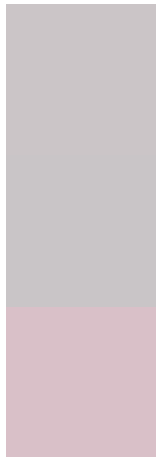


This preview shows how white text looks on a background with the CIELCh color 80, 2.461, 353.768.

# 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, 2.461, 353.768

### Protanopia

80, 1.828, 343.589

### Deuteranopia

80, 10.213, 355.647



**Tritanopia**  
80, 8.816, 314.944



# Trichromacy



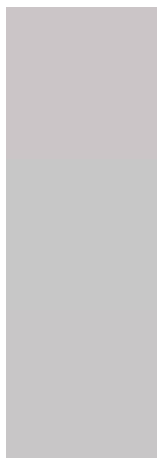
**Original Color**  
80, 2.461, 353.768

**Protanomaly**  
80, 2.136, 349.423

**Deuteranomaly**  
80, 7.395, 354.421

**Tritanomaly**  
80, 6.103, 318.989

# Monochromacy



**Original Color**  
80, 2.461, 353.768

**Achromatopsia**  
80, 0.010, 296.813

**Achromatomaly**  
80, 0.917, 343.290

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 80, 2.461, 353.768 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(203, 197, 199)` looks like.

```
.text, #text, p{  
    color:rgb(203, 197, 199)  
}
```

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(203, 197, 199) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 197, 199) }
```

## Border

The CSS property to change the border of an element to CIELCh 80, 2.461, 353.768 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(203, 197, 199) }
```

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

```
.border{ border-color:rgb(203, 197, 199) }
```

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

Here you see how a box with a 4 pixel rgb(203, 197, 199) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 197, 199); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 197, 199);  
box-shadow:4px 4px 4px 4px rgb(203, 197,  
199) }
```

# Background

The CSS property to change the background color of an element to CIELCh 80, 2.461, 353.768 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 197, 199) }
```

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

```
.background{ background-color: rgb(203,  
197, 199) }
```

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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