

# Converting Colors

CIELCh(77, 33.659, 313.035)

Have a look what the booklet for  
CIELCh(77, 33.659, 313.035)  
contains.

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# Color

**CIELCh(77, 33.911, 312.803)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D3B1EC
RGB	211, 177, 236
RGB Percent	83%, 69%, 93%
CMY	0.1713, 0.3047, 0.0733
CMYK	0.11, 0.25, 0.00, 0.07
HSL	275°, 61%, 81%
HSV	275°, 25%, 93%
XYZ	57.9203, 51.5317, 86.4908
YIQ	193.8920, 1.3250, 25.5570

# Conversions

## Conversions Part 2

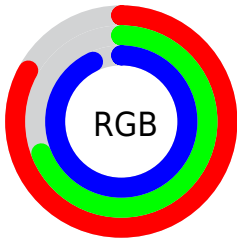
Format	Color
R <sub>Y</sub> B	211, 177, 236
Decimal	13873644
CIE Lab	77.00, 23.04, -24.88
CIE LCh	77, 33.911, 312.803
Yxy	51.5317, 0.2956, 0.2630
Android (android.graphics.Color)	4292063724 (0xFFD3B1EC)
YUV	193.8920, 20.7592, 15.0037
Hunter-Lab	71.7856, 18.3980, -21.1855

# Details

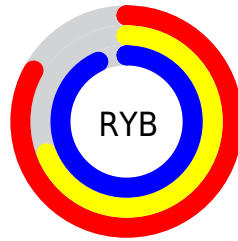
The CIELCh color  $77, 33.911, 312.803$  is a light color, and the websafe version is hex `CC99CC`. A complement of this color would be  $90, 32.955, 130.562$ , and the grayscale version is  $78, 0.009, 296.813$ .

A 20% lighter version of the original color is  $95, 13.736, 324.896$ , and  $57, 34.018, 312.914$  is the 20% darker color. If you saturate the color by 10%, you get  $71, 47.920, 313.286$ , and if you desaturate by 10%, it is  $84, 20.096, 312.331$ .

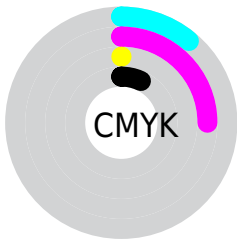
# Distribution



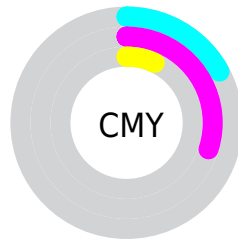
- Red (83%)
- Green (69%)
- Blue (93%)



- Red (83%)
- Yellow (69%)
- Blue (93%)



- Cyan (11%)
- Magenta (25%)
- Yellow (0%)
- Black (7%)




- Cyan (17%)
- Magenta (30%)
- Yellow (7%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 77, 33.911, 312.803 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, 33.911, 312.803 by changing the saturation by 10% instead.





 77, 33.911,  
312.803

 77, 33.911,  
312.803


 100, 33.911,  
312.803


 67, 33.911,  
312.803


 97, 33.911,  
312.803


 57, 33.911,  
312.803

 47, 33.911,  
312.803

 37, 33.911,  
312.803

 27, 33.911,  
312.803

 17, 33.911,  
312.803

 7, 33.911, 312.803

0, 33.911, 312.803

77, 33.911,  
312.803

77, 33.911,  
312.803

71, 47.920,  
313.286

84, 20.096,  
312.331

64, 61.930,  
313.757

90, 6.591, 311.872

58, 75.608,  
314.178

97, 6.549, 131.514

53, 88.438,  
314.493

99, 9.564, 117.285

100, 9.458,  
109.461

48, 99.695,  
314.625

44, 108.512,  
314.477

■ 41, 114.156,  
313.960

■ 40, 116.052,  
313.598

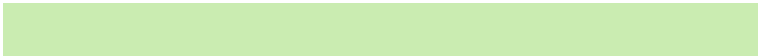
# Harmonies

# Complementary

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



77, 33.911, 312.803



90, 32.955, 130.562

# Rectangle

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



77, 33.911, 312.803



77, 33.911, 2.803



77, 33.911, 132.803



77, 33.911, 182.803

# Sweetspot

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



77, 33.909, 312.803



95, 9.894, 311.968



81, 19.395, 266.126



50, 6.434, 311.995



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, 33.909, 312.803



79, 43.549, 313.051



79, 35.889, 327.705



46, 7.528, 312.078



30, 94.912, 313.788



5, 38.046, 314.188



# Inverse Universe

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



78, 25.576, 350.428



81, 32.813, 351.049



88, 35.857, 144.567



46, 5.673, 348.777



38, 65.364, 9.285

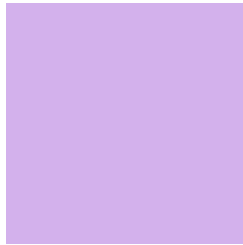


8, 28.061, 1.118



# Previews

## White Background



This preview shows how the CIELCh color 77, 33.911, 312.803 looks on a white background.

## Color Contrast Check

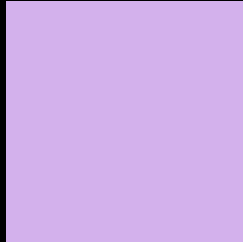
Large Text (above 18pt) WCAG AA × Fail

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, 33.911, 312.803 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

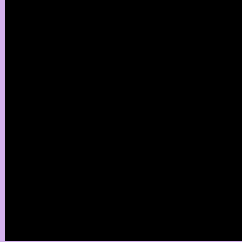
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 77, 33.911, 312.803

## Background



This preview shows how black text looks on a background with the CIELCh color 77, 33.911, 312.803.



This preview shows how white text looks on a background with the CIELCh color 77, 33.911, 312.803.

# 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

77, 33.911, 312.803

### Protanopia

77, 30.206, 285.625

### Deuteranopia

77, 26.354, 292.565





**Tritanopia**  
77, 11.197, 334.374

# Trichromacy



**Original Color**  
77, 33.911, 312.803

**Protanomaly**  
77, 30.756, 295.983

**Deuteranomaly**  
77, 28.359, 300.819

**Tritanomaly**  
77, 18.988, 319.640

# Monochromacy



**Original Color**  
77, 33.911, 312.803

**Achromatopsia**  
78, 0.009, 296.813

**Achromatomaly**  
78, 12.117, 311.939

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 77, 33.911, 312.803 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(211, 177, 236)` looks like.

```
.text, #text, p{  
    color:rgb(211, 177, 236)  
}
```

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(211, 177, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(211, 177, 236) }
```

## Border

The CSS property to change the border of an element to CIELCh 77, 33.911, 312.803 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(211, 177, 236) }
```

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

```
.border{ border-color:rgb(211, 177, 236) }
```

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

Here you see how a box with a 4 pixel `rgb(211, 177, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(211, 177, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(211, 177, 236);  
box-shadow:4px 4px 4px 4px rgb(211, 177,  
236) }
```

# Background

The CSS property to change the background color of an element to CIELCh 77, 33.911, 312.803 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(211, 177, 236) }
```

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

```
.background{ background-color: rgb(211,  
177, 236) }
```

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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