

# Converting Colors

CIELCh(37, 89.400, 308.442)

Have a look what the booklet for  
CIELCh(37, 89.400, 308.442)  
contains.

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**Color**

**CIELCh(37, 89.359, 308.391)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	6634CB
RGB	102, 52, 203
RGB Percent	40%, 20%, 80%
CMY	0.6012, 0.7971, 0.2051
CMYK	0.50, 0.74, 0.00, 0.21
HSL	260°, 59%, 50%
HSV	260°, 74%, 79%
XYZ	17.4068, 9.5379, 57.2436
YIQ	84.1640, -18.6710, 57.5610

# Conversions

## Conversions Part 2

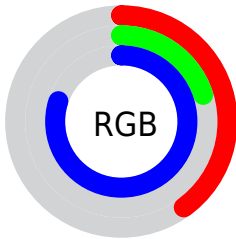
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	102, 52, 203
Decimal	6698187
CIE Lab	37.00, 55.49, -70.04
CIE LCh	37, 89.359, 308.391
Yxy	9.5379, 0.2068, 0.1133
Android (android.graphics.Color)	4284888267 (0xFF6634CB)
YUV	84.1640, 58.5861, 15.6422
Hunter-Lab	30.8835, 46.5614, -88.2774

# Details

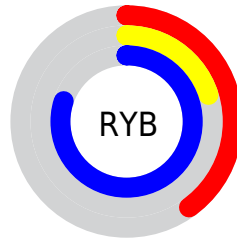
The CIELCh color **37, 89.359, 308.391** is a dark color, and the websafe version is hex **6633CC**. The color can be described as dark muted purple. A complement of this color would be **76, 75.230, 119.772**, and the grayscale version is **35, 0.005, 296.813**.

A 20% lighter version of the original color is **57, 86.008, 308.601**, and **18, 87.257, 307.732** is the 20% darker color. If you saturate the color by 10%, you get **33, 99.120, 308.821**, and if you desaturate by 10%, it is **42, 77.820, 307.694**.

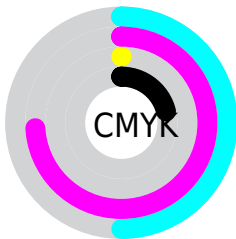
# Distribution



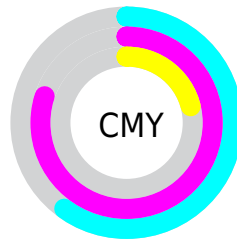
- Red (40%)
- Green (20%)
- Blue (80%)



- Red (40%)
- Yellow (20%)
- Blue (80%)



- Cyan (50%)
- Magenta (74%)
- Yellow (0%)
- Black (21%)




- Cyan (60%)
- Magenta (80%)
- Yellow (21%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 37, 89.359, 308.391 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 37, 89.359, 308.391 by changing the saturation by 10% instead.





 37, 89.359,  
308.391


 37, 89.359,  
308.391

 100, 89.359,  
308.391

 27, 89.359,  
308.391

 57, 89.359,  
308.391


 17, 89.359,  
308.391


 67, 89.359,  
308.391

 7, 89.359, 308.391

 77, 89.359,  
308.391

 0, 89.359, 308.391

 87, 89.359,  
308.391

 97, 89.359,  
308.391

37, 89.359,  
308.391

37, 89.359,  
308.391

33, 99.120,  
308.821

42, 77.820,  
307.694

29, 105.970,  
308.811

48, 65.451,  
306.874

28, 108.726,  
308.691

54, 52.862,  
306.030

60, 40.395,  
305.220

66, 28.219,  
304.471

72, 16.410,  
303.796

79, 4.993, 303.191

85, 6.031, 122.689

■ 91, 16.676,  
122.226

# Harmonies

# Complementary

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



37, 89.359, 308.391



76, 75.230, 119.772

# Rectangle

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



37, 89.359, 308.391



37, 89.359, 358.391



37, 89.359, 128.391



37, 89.359, 178.391

# Sweetspot

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



37, 89.359, 308.392



83, 30.444, 304.317



60, 35.575, 247.880



42, 20.550, 304.511



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



37, 89.359, 308.392



39, 122.986, 308.879



47, 87.064, 321.900



40, 6.408, 303.481



22, 93.457, 308.829



2, 23.956, 301.030



# Inverse Universe

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



49, 70.172, 342.609



57, 89.670, 345.287



73, 86.071, 134.838



40, 5.976, 336.188



36, 65.712, 347.023

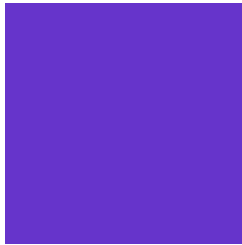


4, 22.193, 342.663



# Previews

## White Background



This preview shows how the CIELCh color 37, 89.359, 308.391 looks on a white background.

## Color Contrast Check

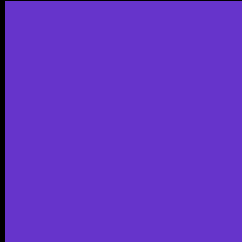
Large Text (above 18pt) WCAG AA ✓ Pass

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 37, 89.359, 308.391 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

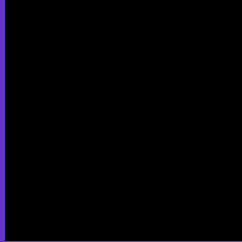
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 37, 89.359, 308.391

## Background



This preview shows how black text looks on a background with the CIELCh color 37, 89.359, 308.391.



This preview shows how white text looks on a background with the CIELCh color 37, 89.359, 308.391.

# 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**  
37, 89.359, 308.391

**Protanopia**  
37, 57.573, 286.320

**Deuteranopia**  
37, 40.722, 273.473





**Tritanopia**  
37, 8.414, 229.717

# Trichromacy



**Original Color**  
37, 89.359, 308.391

**Protanomaly**  
35, 70.192, 295.272

**Deuteranomaly**  
35, 58.986, 291.722

**Tritanomaly**  
35, 36.818, 298.876

# Monochromacy



**Original Color**  
37, 89.359, 308.391

**Achromatopsia**  
36, 0.005, 296.813

**Achromatomaly**  
35, 35.002, 305.685

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 37, 89.359, 308.391 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(102, 52, 203)` looks like.

```
.text, #text, p{  
    color:rgb(102, 52, 203)  
}
```

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(102, 52, 203) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 52, 203) }
```

## Border

The CSS property to change the border of an element to CIELCh 37, 89.359, 308.391 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(102, 52, 203) }
```

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

```
.border{ border-color:rgb(102, 52, 203) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 52, 203)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 52, 203); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 52, 203);  
box-shadow:4px 4px 4px 4px rgb(102, 52,  
203) }
```

# Background

The CSS property to change the background color of an element to CIELCh 37, 89.359, 308.391 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 52, 203) }
```

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

```
.background{ background-color: rgb(102, 52,  
203) }
```

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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