

# Converting Colors

CIELCh(37, 60.764, 310.954)

Have a look what the booklet for  
CIELCh(37, 60.764, 310.954)  
contains.

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# Color

**CIELCh(37, 60.813, 310.874)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6D40A2
RGB	109, 64, 162
RGB Percent	43%, 25%, 64%
CMY	0.5723, 0.7488, 0.3645
CMYK	0.33, 0.60, 0.00, 0.36
HSL	268°, 43%, 44%
HSV	268°, 60%, 64%
XYZ	14.6764, 9.5379, 35.2761
YIQ	88.6270, -4.6380, 40.0180

# Conversions

## Conversions Part 2

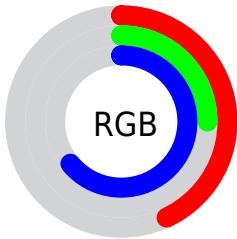
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	109, 64, 162
Decimal	7159970
CIE <sub>Lab</sub>	37.00, 39.80, -45.98
CIE <sub>LCh</sub>	37, 60.813, 310.874
Yxy	9.5379, 0.2467, 0.1603
Android (android.graphics.Color)	4285350050 (0xFF6D40A2)
YUV	88.6270, 36.1729, 17.8671
Hunter-Lab	30.8835, 30.7802, -46.1043

# Details

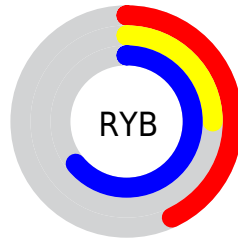
The CIELCh color **37, 60.813, 310.874** is a dark color, and the websafe version is hex **663399**. A complement of this color would be **62, 55.038, 124.976**, and the grayscale version is **38, 0.005, 296.813**.

A 20% lighter version of the original color is **57, 61.005, 310.896**, and **17, 60.644, 311.010** is the 20% darker color. If you saturate the color by 10%, you get **33, 70.358, 311.311**, and if you desaturate by 10%, it is **42, 50.667, 310.331**.

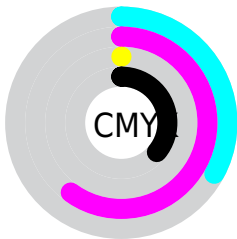
# Distribution



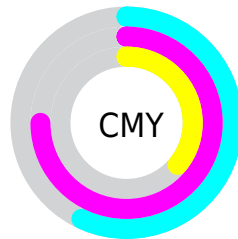
- Red (43%)
- Green (25%)
- Blue (64%)



- Red (43%)
- Yellow (25%)
- Blue (64%)



- Cyan (33%)
- Magenta (60%)
- Yellow (0%)
- Black (36%)




- Cyan (57%)
- Magenta (75%)
- Yellow (36%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 37, 60.813, 310.874 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, 60.813, 310.874 by changing the saturation by 10% instead.





 37, 60.813,  
310.874


 37, 60.813,  
310.874

 100, 60.813,  
310.874


 27, 60.813,  
310.874

 57, 60.813,  
310.874


 17, 60.813,  
310.874


 67, 60.813,  
310.874

 7, 60.813, 310.874

 77, 60.813,  
310.874

 0, 60.813, 310.874

 87, 60.813,  
310.874

 97, 60.813,  
310.874

37, 60.813,  
310.874

37, 60.813,  
310.874

33, 70.358,  
311.311

42, 50.667,  
310.331

29, 78.714,  
311.543

46, 40.322,  
309.749

26, 85.152,  
311.453

51, 30.022,  
309.169

24, 89.578,  
311.120

56, 19.903,  
308.618

61, 10.037,  
308.105

66, 0.456, 307.457

71, 8.830, 127.250

76, 17.825,  
126.879

■ 81, 26.536,  
126.556

# Harmonies

# Complementary

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



37, 60.813, 310.874



62, 55.038, 124.976

# Rectangle

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



37, 60.813, 310.874



37, 60.813, 0.874



37, 60.813, 130.874



37, 60.813, 180.874

# Sweetspot

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



37, 60.812, 310.874



73, 21.680, 308.505



48, 29.364, 261.863



37, 15.245, 308.653



93, 0.011, 296.813



45, 0.006, 296.813





# Same Dimension

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



37, 60.812, 310.874



42, 90.016, 311.432



43, 62.927, 325.867



32, 5.442, 308.046



21, 82.626, 311.223



1, 8.295, 306.079



# Inverse Universe

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



42, 47.278, 347.971



50, 66.984, 350.541



59, 63.217, 138.422



32, 4.539, 342.202



31, 56.400, 357.391

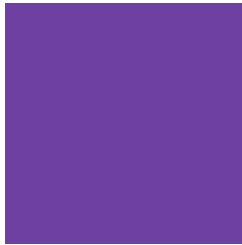


1, 6.751, 344.196



# Previews

## White Background



This preview shows how the CIELCh color 37, 60.813, 310.874 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, 60.813, 310.874 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

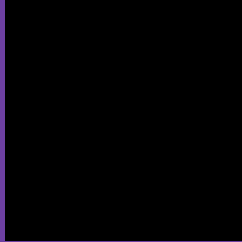
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 37, 60.813, 310.874

## Background



This preview shows how black text looks on a background with the CIELCh color 37, 60.813, 310.874.



This preview shows how white text looks on a background with the CIELCh color 37, 60.813, 310.874.

# 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, 60.813, 310.874

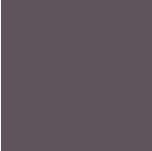
### Protanopia

37, 58.709, 286.834

### Deuteranopia

37, 43.173, 277.072





**Tritanopia**  
37, 6.383, 337.732

# Trichromacy



**Original Color**  
37, 60.813, 310.874

**Protanomaly**  
36, 59.354, 291.751

**Deuteranomaly**  
36, 49.028, 288.942

**Tritanomaly**  
37, 26.340, 313.116

# Monochromacy



**Original Color**  
37, 60.813, 310.874

**Achromatopsia**  
38, 0.005, 296.813

**Achromatomaly**  
37, 23.192, 308.654

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 37, 60.813, 310.874 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(109, 64, 162)` looks like.

```
.text, #text, p{  
    color:rgb(109, 64, 162)  
}
```

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(109, 64, 162) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(109, 64, 162) }
```

## Border

The CSS property to change the border of an element to CIELCh 37, 60.813, 310.874 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(109, 64, 162) }
```

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

```
.border{ border-color:rgb(109, 64, 162) }
```

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

Here you see how a box with a 4 pixel `rgb(109, 64, 162)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(109, 64, 162); -webkit-box-  
shadow:4px 4px 4px 4px rgb(109, 64, 162);  
box-shadow:4px 4px 4px 4px rgb(109, 64,  
162) }
```

# Background

The CSS property to change the background color of an element to CIELCh 37, 60.813, 310.874 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(109, 64, 162) }
```

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

```
.background{ background-color: rgb(109, 64,  
162) }
```

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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