

# Converting Colors

CIELCh(36, 70.754, 303.352)

Have a look what the booklet for  
CIELCh(36, 70.754, 303.352)  
contains.

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# Color

**CIELCh(36, 70.920, 303.438)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	5341B5
RGB	83, 65, 181
RGB Percent	33%, 25%, 71%
CMY	0.6733, 0.7442, 0.2891
CMYK	0.54, 0.64, 0.00, 0.29
HSL	249°, 47%, 48%
HSV	249°, 64%, 71%
XYZ	13.8667, 9.0082, 44.8745
YIQ	83.6060, -26.5080, 39.8920

# Conversions

## Conversions Part 2

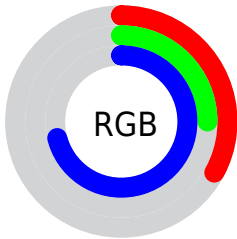
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	83, 65, 181
Decimal	5456309
CIE <sub>Lab</sub>	36.00, 39.08, -59.18
CIE <sub>LCh</sub>	36, 70.920, 303.438
Yxy	9.0082, 0.2047, 0.1330
Android (android.graphics.Color)	4283646389 (0xFF5341B5)
YUV	83.6060, 48.0152, -0.5315
Hunter-Lab	30.0136, 29.9454, -67.6374

# Details

The CIELCh color **36, 70.920, 303.438** is a dark color, and the websafe version is hex **333399**. A complement of this color would be **70, 59.338, 111.969**, and the grayscale version is **35, 0.005, 296.813**.

A 20% lighter version of the original color is **56, 71.032, 303.533**, and **16, 70.761, 303.385** is the 20% darker color. If you saturate the color by 10%, you get **31, 82.289, 304.829**, and if you desaturate by 10%, it is **42, 59.095, 302.008**.

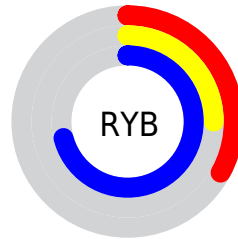
# Distribution



Red (33%)

Green (25%)

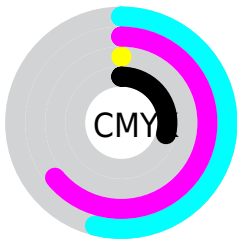
Blue (71%)



Red (33%)

Yellow (25%)

Blue (71%)

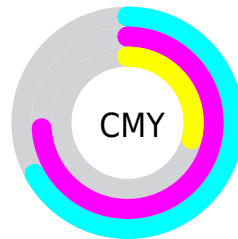


Cyan (54%)

Magenta (64%)

Yellow (0%)

Black (29%)



Cyan (67%)

Magenta (74%)

Yellow (29%)


# Brightness & Saturation Gradients

These gradients show how the CIELCh color 36, 70.920, 303.438 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 36, 70.920, 303.438 by changing the saturation by 10% instead.



 36, 70.920,  
303.438

 36, 70.920,  
303.438

 100, 70.920,  
303.438

 26, 70.920,  
303.438

 56, 70.920,  
303.438

 16, 70.920,  
303.438


 66, 70.920,  
303.438

 6, 70.920, 303.438

 76, 70.920,  
303.438

 0, 70.920, 303.438

 86, 70.920,  
303.438

 96, 70.920,  
303.438

36, 70.920,  
303.438

36, 70.920,  
303.438

31, 82.289,  
304.829

42, 59.095,  
302.008

27, 92.229,  
305.983

47, 47.343,  
300.651

24, 99.376,  
306.659

53, 35.900,  
299.421

22, 102.515,  
306.932

59, 24.854,  
298.335

65, 14.225,  
297.389

71, 4.002, 296.574

77, 5.837, 115.869

83, 15.315,  
115.266

■ 89, 24.456,  
114.748

# Harmonies

# Complementary

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



36, 70.920, 303.438



70, 59.338, 111.969

# Rectangle

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



36, 70.920, 303.438



36, 70.920, 353.438



36, 70.920, 123.438



36, 70.920, 173.438

# Sweetspot

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



36, 70.920, 303.439



79, 24.030, 297.874



62, 28.992, 217.133



40, 16.616, 298.147



96, 0.011, 296.813



49, 0.007, 296.813





# Same Dimension

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



36, 70.920, 303.439



39, 105.263, 305.364



42, 70.577, 316.647



36, 5.760, 296.993



18, 91.465, 307.000



1, 15.449, 294.795



# Inverse Universe

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



47, 65.192, 333.023



57, 89.744, 333.970



67, 66.814, 131.167



36, 6.206, 329.554



35, 70.852, 335.463

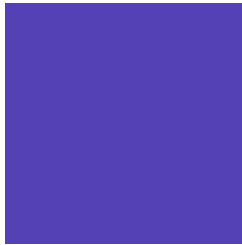


3, 16.065, 331.640



# Previews

## White Background



This preview shows how the CIELCh color 36, 70.920, 303.438 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 CIE LCh color 36, 70.920, 303.438 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

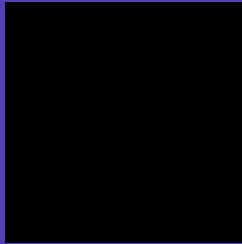
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 36, 70.920, 303.438**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 36, 70.920, 303.438.



This preview shows how white text looks on a background with the CIELCh color 36, 70.920, 303.438.

# 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**  
36, 70.920, 303.438

**Protanopia**  
36, 56.573, 286.293

**Deuteranopia**  
36, 40.207, 273.596





**Tritanopia**  
36, 13.264, 217.178

# Trichromacy



**Original Color**  
36, 70.920, 303.438

**Protanomaly**  
35, 61.912, 291.623

**Deuteranomaly**  
35, 51.248, 286.834

**Tritanomaly**  
35, 29.482, 285.009

# Monochromacy



**Original Color**  
36, 70.920, 303.438

**Achromatopsia**  
36, 0.005, 296.813

**Achromatomaly**  
35, 26.420, 299.778

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 36, 70.920, 303.438 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(83, 65, 181)` looks like.

```
.text, #text, p{  
    color:rgb(83, 65, 181)  
}
```

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(83, 65, 181) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(83, 65, 181) }
```

## Border

The CSS property to change the border of an element to CIELCh 36, 70.920, 303.438 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(83, 65, 181) }
```

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

```
.border{ border-color:rgb(83, 65, 181) }
```

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

Here you see how a box with a 4 pixel `rgb(83, 65, 181)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(83, 65, 181); -webkit-box-  
shadow:4px 4px 4px 4px rgb(83, 65, 181);  
box-shadow:4px 4px 4px 4px rgb(83, 65,  
181) }
```

# Background

The CSS property to change the background color of an element to CIELCh 36, 70.920, 303.438 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(83, 65, 181) }
```

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

```
.background{ background-color: rgb(83, 65,  
181) }
```

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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