

# Converting Colors

CIELCh(42, 42.843, 306.731)

Have a look what the booklet for  
CIELCh(42, 42.843, 306.731)  
contains.

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# Color

**CIELCh(42, 43.134, 306.804)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	6F569C
RGB	111, 86, 156
RGB Percent	44%, 34%, 61%
CMY	0.5637, 0.6618, 0.3872
CMYK	0.29, 0.45, 0.00, 0.39
HSL	261°, 29%, 48%
HSV	261°, 45%, 61%
XYZ	15.9589, 12.5000, 33.1432
YIQ	101.4550, -7.5700, 27.0700

# Conversions

## Conversions Part 2

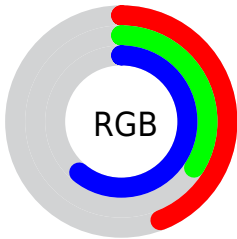
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	111, 86, 156
Decimal	7296668
CIE Lab	42.00, 25.84, -34.54
CIE LCh	42, 43.134, 306.804
Yxy	12.5000, 0.2591, 0.2029
Android (android.graphics.Color)	4285486748 (0xFF6F569C)
YUV	101.4550, 26.8907, 8.3710
Hunter-Lab	35.3553, 18.7006, -30.8316

# Details

The CIELCh color  $42, 43.134, 306.804$  is a dark color, and the websafe version is hex  $666699$ . A complement of this color would be  $61, 39.575, 121.621$ , and the grayscale version is  $43, 0.006, 296.813$ .

A 20% lighter version of the original color is  $62, 43.278, 306.694$ , and  $22, 42.938, 306.666$  is the 20% darker color. If you saturate the color by 10%, you get  $37, 53.280, 307.571$ , and if you desaturate by 10%, it is  $47, 33.064, 306.061$ .

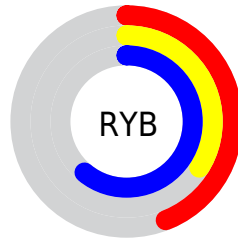
# Distribution



Red (44%)

Green (34%)

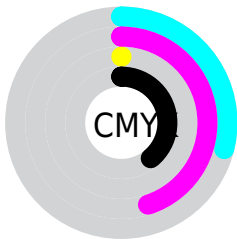
Blue (61%)



Red (44%)

Yellow (34%)

Blue (61%)

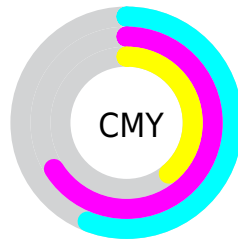


Cyan (29%)

Magenta (45%)

Yellow (0%)

Black (39%)



Cyan (56%)

Magenta (66%)


Yellow (39%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 42, 43.134, 306.804 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 42, 43.134, 306.804 by changing the saturation by 10% instead.





 42, 43.134,  
306.804


 42, 43.134,  
306.804


 100, 43.134,  
306.804


 32, 43.134,  
306.804

 62, 43.134,  
306.804


 22, 43.134,  
306.804

 72, 43.134,  
306.804

 12, 43.134,  
306.804

 82, 43.134,  
306.804

 2, 43.134, 306.804

 92, 43.134,  
306.804

 0, 43.134, 306.804

 42, 43.134,

 42, 43.134,

306.804

37, 53.280,  
307.571

33, 63.242,  
308.309

28, 72.563,  
308.930

25, 80.545,  
309.308

22, 86.370,  
309.297

21, 89.001,  
309.279

306.804

47, 33.064,  
306.061

52, 23.209,  
305.368

57, 13.633,  
304.739


62, 4.360, 304.169

67, 4.608, 123.700

72, 13.276,  
123.258

77, 21.659,  
122.878

82, 29.771,  
122.550

 87, 37.627,  
122.266

# Harmonies

# Complementary

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



42, 43.134, 306.804



61, 39.575, 121.621

# Rectangle

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



42, 43.134, 306.804



42, 43.134, 356.804



42, 43.134, 126.804



42, 43.134, 176.804

# Sweetspot

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



42, 43.133, 306.804



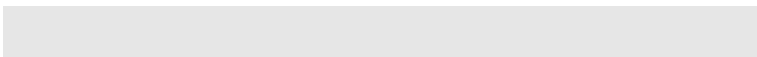
74, 14.831, 304.647



53, 19.980, 244.030



38, 10.389, 304.770



91, 0.011, 296.813



43, 0.006, 296.813





# Same Dimension

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



42, 43.133, 306.804



49, 65.233, 307.590



46, 45.970, 322.245



31, 5.208, 304.416



19, 83.245, 309.359



1, 6.700, 303.252



# Inverse Universe

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



46, 37.307, 340.338



56, 54.814, 341.418



59, 45.427, 137.597



31, 4.749, 337.314



31, 58.183, 348.737

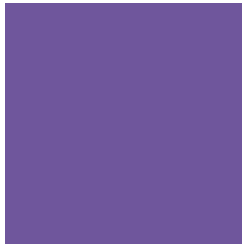


1, 6.017, 338.184



# Previews

## White Background



This preview shows how the CIELCh color 42, 43.134, 306.804 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 × Fail

# Black Background



This preview shows how the CIE LCh color 42, 43.134, 306.804 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

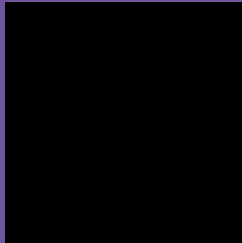
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 42, 43.134, 306.804

## Background



This preview shows how black text looks on a background with the CIELCh color 42, 43.134, 306.804.



This preview shows how white text looks on a background with the CIELCh color 42, 43.134, 306.804.

# 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

42, 43.134, 306.804


### Protanopia

42, 41.809, 286.068

### Deuteranopia

42, 33.749, 280.701





**Tritanopia**  
42, 4.558, 311.767

# Trichromacy



**Original Color**  
42, 43.134, 306.804

**Protanomaly**  
42, 41.635, 293.093

**Deuteranomaly**  
42, 36.863, 291.520

**Tritanomaly**  
42, 18.719, 305.618

# Monochromacy



**Original Color**  
42, 43.134, 306.804

**Achromatopsia**  
43, 0.006, 296.813

**Achromatomaly**  
42, 16.152, 304.721

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 42, 43.134, 306.804 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(111, 86, 156)` looks like.

```
.text, #text, p{  
    color:rgb(111, 86, 156)  
}
```

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(111, 86, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(111, 86, 156) }
```

## Border

The CSS property to change the border of an element to CIELCh 42, 43.134, 306.804 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(111, 86, 156) }
```

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

```
.border{ border-color:rgb(111, 86, 156) }
```

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

Here you see how a box with a 4 pixel `rgb(111, 86, 156)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(111, 86, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(111, 86, 156);  
box-shadow:4px 4px 4px 4px rgb(111, 86,  
156) }
```

# Background

The CSS property to change the background color of an element to CIELCh 42, 43.134, 306.804 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(111, 86, 156) }
```

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

```
.background{ background-color: rgb(111, 86,  
156) }
```

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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