

# Converting Colors

CIELCh(42, 24.283, 305.729)

Have a look what the booklet for  
CIELCh(42, 24.283, 305.729)  
contains.

<b>CIELCh(42, 24.242, 305.716)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# Color

**CIELCh(42, 24.242, 305.716)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	6B5D84
RGB	107, 93, 132
RGB Percent	42%, 36%, 52%
CMY	0.5822, 0.6370, 0.4842
CMYK	0.19, 0.30, 0.00, 0.48
HSL	262°, 17%, 44%
HSV	262°, 30%, 52%
XYZ	14.0149, 12.5000, 23.3326
YIQ	101.6320, -4.1750, 15.0970

# Conversions

## Conversions Part 2

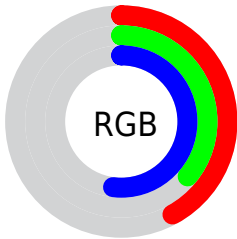
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	107, 93, 132
Decimal	7036292
CIE <sub>Lab</sub>	42.00, 14.15, -19.68
CIE <sub>LCh</sub>	42, 24.242, 305.716
Yxy	12.5000, 0.2812, 0.2508
Android (android.graphics.Color)	4285226372 (0xFF6B5D84)
YUV	101.6320, 14.9714, 4.7077
Hunter-Lab	35.3553, 8.8856, -14.3794

# Details

The CIELCh color  $42, 24.242, 305.716$  is a dark color, and the websafe version is hex  $666699$ . A complement of this color would be  $53, 23.006, 122.473$ , and the grayscale version is  $43, 0.006, 296.813$ .

A 20% lighter version of the original color is  $62, 24.378, 306.067$ , and  $22, 23.991, 305.958$  is the 20% darker color. If you saturate the color by 10%, you get  $38, 32.889, 306.419$ , and if you desaturate by 10%, it is  $46, 15.811, 305.069$ .

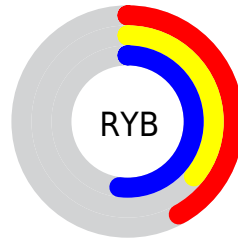
# Distribution



Red (42%)

Green (36%)

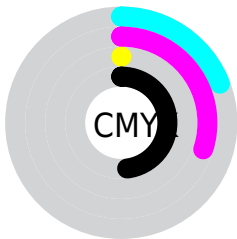
Blue (52%)



Red (42%)

Yellow (36%)

Blue (52%)

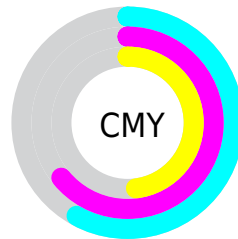


Cyan (19%)

Magenta (30%)

Yellow (0%)

Black (48%)



Cyan (58%)

Magenta (64%)


Yellow (48%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 42, 24.242, 305.716 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, 24.242, 305.716 by changing the saturation by 10% instead.





 42, 24.242,  
305.716


 42, 24.242,  
305.716


 100, 24.242,  
305.716


 32, 24.242,  
305.716

 62, 24.242,  
305.716


 22, 24.242,  
305.716

 72, 24.242,  
305.716

 12, 24.242,  
305.716

 82, 24.242,  
305.716

 2, 24.242, 305.716

 92, 24.242,  
305.716

 0, 24.242, 305.716

 42, 24.242,

 42, 24.242,

305.716

38, 32.889,  
306.419

33, 41.681,  
307.162

29, 50.462,  
307.910

25, 58.955,  
308.601

22, 66.698,  
309.137

19, 73.038,  
309.384

17, 78.123,  
309.453

17, 78.324,  
309.463

305.716

46, 15.811,  
305.069

51, 7.634, 304.485

55, 0.282, 124.156

59, 7.939, 123.526

64, 15.345,  
123.125

68, 22.514,  
122.777

72, 29.456,  
122.475

77, 36.186,  
122.215

81, 42.716,



# Harmonies

# Complementary

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



42, 24.242, 305.716



53, 23.006, 122.473

# Rectangle

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



42, 24.242, 305.716



42, 24.242, 355.716



42, 24.242, 125.716



42, 24.242, 175.716

# Sweetspot

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



42, 24.241, 305.716



65, 8.830, 304.461



48, 11.958, 241.171



33, 6.196, 304.532



86, 0.010, 296.813



37, 0.005, 296.813





# Same Dimension

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



42, 24.241, 305.716



50, 36.857, 306.216



44, 26.557, 321.595



26, 4.498, 304.458



17, 77.679, 309.474



0, 1.063, 303.991



# Inverse Universe

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



44, 21.598, 338.976



54, 32.442, 339.601



52, 26.312, 138.696



26, 4.096, 337.362



28, 54.413, 348.613



0, 0.973, 336.763



# Previews

## White Background



This preview shows how the CIELCh color 42, 24.242, 305.716 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, 24.242, 305.716 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

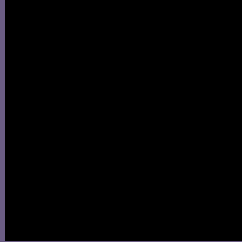
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 42, 24.242, 305.716

## Background



This preview shows how black text looks on a background with the CIELCh color 42, 24.242, 305.716.



This preview shows how white text looks on a background with the CIELCh color 42, 24.242, 305.716.

# 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, 24.242, 305.716


### Protanopia

42, 23.088, 284.922

### Deuteranopia

42, 19.985, 286.917





**Tritanopia**  
42, 4.558, 311.767

# Trichromacy



**Original Color**  
42, 24.242, 305.716

**Protanomaly**  
42, 22.984, 292.597

**Deuteranomaly**  
42, 21.192, 294.196

**Tritanomaly**  
42, 11.972, 307.057

# Monochromacy



**Original Color**  
42, 24.242, 305.716

**Achromatopsia**  
43, 0.006, 296.813

**Achromatomaly**  
42, 8.720, 304.574

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 42, 24.242, 305.716 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(107, 93, 132)` looks like.

```
.text, #text, p{  
    color:rgb(107, 93, 132)  
}
```

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(107, 93, 132) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(107, 93, 132) }
```

## Border

The CSS property to change the border of an element to CIELCh 42, 24.242, 305.716 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(107, 93, 132) }
```

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

```
.border{ border-color:rgb(107, 93, 132) }
```

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

Here you see how a box with a 4 pixel rgb(107, 93, 132) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(107, 93, 132); -webkit-box-  
shadow:4px 4px 4px 4px rgb(107, 93, 132);  
box-shadow:4px 4px 4px 4px rgb(107, 93,  
132) }
```

# Background

The CSS property to change the background color of an element to CIELCh 42, 24.242, 305.716 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(107, 93, 132) }
```

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

```
.background{ background-color: rgb(107, 93,  
132) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor