

# Converting Colors

CIELCh(42, 21.269, 306.830)

Have a look what the booklet for  
CIELCh(42, 21.269, 306.830)  
contains.

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# Color

**CIELCh(42, 21.337, 307.323)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	6B5D7F
RGB	107, 93, 127
RGB Percent	42%, 36%, 50%
CMY	0.5802, 0.6351, 0.5018
CMYK	0.16, 0.27, 0.00, 0.50
HSL	265°, 15%, 43%
HSV	265°, 27%, 50%
XYZ	13.8224, 12.5000, 21.7806
YIQ	101.0620, -2.5700, 13.5420

# Conversions

## Conversions Part 2

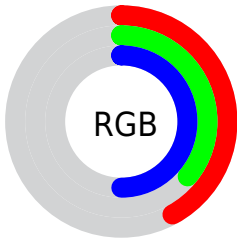
<b>Format</b>	<b>Color</b>
<b>RYB</b>	107, 93, 127
Decimal	7036287
CIELab	42.00, 12.94, -16.97
CIELCh	42, 21.337, 307.323
Yxy	12.5000, 0.2873, 0.2599
Android (android.graphics.Color)	4285226367 (0xFF6B5D7F)
YUV	101.0620, 12.7874, 5.2076
Hunter-Lab	35.3553, 7.9137, -11.7767

# Details

The CIELCh color  $42, 21.337, 307.323$  is a dark color, and the websafe version is hex  $666699$ . A complement of this color would be  $51, 20.446, 124.650$ , and the grayscale version is  $43, 0.006, 296.813$ .

A 20% lighter version of the original color is  $62, 21.679, 307.712$ , and  $22, 21.433, 307.171$  is the 20% darker color. If you saturate the color by 10%, you get  $38, 29.702, 307.935$ , and if you desaturate by 10%, it is  $46, 13.169, 306.755$ .

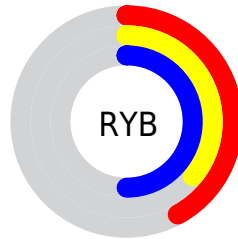
# Distribution



Red (42%)

Green (36%)

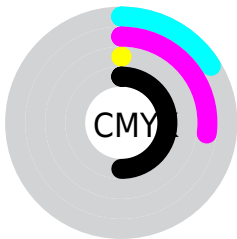
Blue (50%)



Red (42%)

Yellow (36%)

Blue (50%)

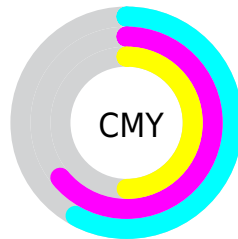


Cyan (16%)

Magenta (27%)

Yellow (0%)

Black (50%)



Cyan (58%)

Magenta (64%)


Yellow (50%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 42, 21.337, 307.323 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, 21.337, 307.323 by changing the saturation by 10% instead.





 42, 21.337,  
307.323


 42, 21.337,  
307.323


 100, 21.337,  
307.323


 32, 21.337,  
307.323

 62, 21.337,  
307.323


 22, 21.337,  
307.323

 72, 21.337,  
307.323

 12, 21.337,  
307.323

 82, 21.337,  
307.323

 2, 21.337, 307.323

 92, 21.337,  
307.323

 0, 21.337, 307.323

 42, 21.337,

 42, 21.337,

307.323

38, 29.702,  
307.935

34, 38.198,  
308.576

30, 46.688,  
309.216

26, 54.934,  
309.803

23, 62.549,  
310.257

20, 68.982,  
310.465

18, 73.927,  
310.395

17, 75.570,  
310.425

307.323

46, 13.169,  
306.755

50, 5.234, 306.234

55, 2.458, 125.812

59, 9.907, 125.385

63, 17.121,  
125.023

67, 24.109,  
124.709

71, 30.882,  
124.435

75, 37.453,  
124.199

79, 43.833,



# Harmonies

# Complementary

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



42, 21.337, 307.323



51, 20.446, 124.650

# Rectangle

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



42, 21.337, 307.323



42, 21.337, 357.323



42, 21.337, 127.323



42, 21.337, 177.323

# Sweetspot

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



42, 21.336, 307.323



64, 7.713, 306.306



47, 10.817, 247.301



33, 5.535, 306.373



85, 0.010, 296.813



36, 0.005, 296.813





# Same Dimension

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



42, 21.336, 307.323



51, 31.970, 307.685



44, 23.608, 322.953



25, 4.390, 306.352



17, 75.765, 310.421



0, 0.000, 0.000



# Inverse Universe

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



44, 18.295, 341.281



54, 27.210, 341.831



50, 23.479, 140.216



25, 3.818, 339.809



27, 52.296, 352.821



0, 0.000, 0.000



# Previews

## White Background



This preview shows how the CIELCh color 42, 21.337, 307.323 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, 21.337, 307.323 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, 21.337, 307.323

## Background



This preview shows how black text looks on a background with the CIELCh color 42, 21.337, 307.323.



This preview shows how white text looks on a background with the CIELCh color 42, 21.337, 307.323.

# 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, 21.337, 307.323

### Protanopia

42, 20.052, 284.947

### Deuteranopia

42, 17.544, 290.329





**Tritanopia**  
42, 5.455, 317.576

# Trichromacy



**Original Color**  
42, 21.337, 307.323

**Protanomaly**  
42, 20.583, 293.148

**Deuteranomaly**  
42, 18.222, 296.295

**Tritanomaly**  
42, 10.816, 308.702

# Monochromacy



**Original Color**  
42, 21.337, 307.323

**Achromatopsia**  
43, 0.006, 296.813

**Achromatomaly**  
42, 7.552, 306.610

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 42, 21.337, 307.323 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, 127)` looks like.

```
.text, #text, p{  
    color:rgb(107, 93, 127)  
}
```

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, 127) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(107, 93, 127) }
```

## Border

The CSS property to change the border of an element to CIELCh 42, 21.337, 307.323 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, 127) }
```

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

```
.border{ border-color:rgb(107, 93, 127) }
```

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, 127) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(107, 93, 127); -webkit-box-  
shadow:4px 4px 4px 4px rgb(107, 93, 127);  
box-shadow:4px 4px 4px 4px rgb(107, 93,  
127) }
```

# Background

The CSS property to change the background color of an element to CIELCh 42, 21.337, 307.323 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, 127) }
```

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

```
.background{ background-color: rgb(107, 93,  
127) }
```

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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