

Converting Colors

CIELCh(42, 37.663, 299.817)

Have a look what the booklet for
CIELCh(42, 37.663, 299.817)
contains.

CIELCh(42, 37.663, 299.817)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(42, 37.663, 299.817)

Conversions

Conversions Part 1

Format	Color
Hex	645B99
RGB	100, 91, 153
RGB Percent	39%, 36%, 60%
CMY	0.6077, 0.6430, 0.3999
CMYK	0.35, 0.41, 0.00, 0.40
HSL	249°, 25%, 48%
HSV	249°, 41%, 60%
XYZ	14.7558, 12.5000, 31.7876
YIQ	100.7590, -14.5380, 21.1900

Conversions

Conversions Part 2

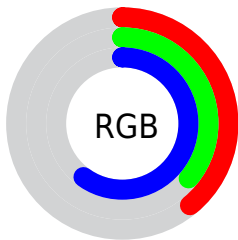
Format	Color
R_{YB}	100, 91, 153
Decimal	6577049
CIE _{Lab}	42.00, 18.73, -32.68
CIE _{LCh}	42, 37.663, 299.817
Yxy	12.5000, 0.2499, 0.2117
Android (android.graphics.Color)	4284767129 (0xFF645B99)
YUV	100.7590, 25.7548, -0.6656
Hunter-Lab	35.3553, 12.6265, -28.5583

Details

The CIELCh color $42, 37.663, 299.817$ is a dark color, and the websafe version is hex 666699 . A complement of this color would be $61, 34.172, 112.909$, and the grayscale version is $43, 0.006, 296.813$.

A 20% lighter version of the original color is $62, 37.958, 300.019$, and $22, 38.124, 300.105$ is the 20% darker color. If you saturate the color by 10%, you get $37, 47.812, 301.143$, and if you desaturate by 10%, it is $47, 27.826, 298.631$.

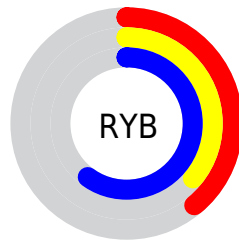
Distribution



Red (39%)

Green (36%)

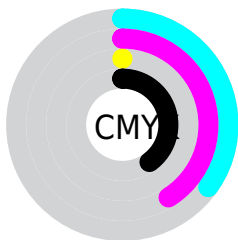
Blue (60%)



Red (39%)

Yellow (36%)

Blue (60%)

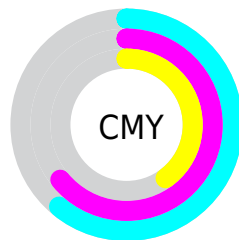


Cyan (35%)

Magenta (41%)

Yellow (0%)

Black (40%)



Cyan (61%)

Magenta (64%)

Yellow (40%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 42, 37.663, 299.817 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, 37.663, 299.817 by changing the saturation by 10% instead.

■ 42, 37.663,
299.817

■ 42, 37.663,
299.817

■ 100, 37.663,
299.817

■ 32, 37.663,
299.817

■ 62, 37.663,
299.817

■ 22, 37.663,
299.817

■ 72, 37.663,
299.817

■ 12, 37.663,
299.817

■ 82, 37.663,
299.817

■ 2, 37.663, 299.817

■ 92, 37.663,
299.817

■ 0, 37.663, 299.817

■ 42, 37.663,

■ 42, 37.663,

299.817

37, 47.812,
301.143

32, 58.141,
302.575

27, 68.324,
304.029

23, 77.706,
305.350

20, 85.231,
306.309

18, 90.466,
306.937

299.817

47, 27.826,
298.631

52, 18.347,
297.590

58, 9.227, 296.688

63, 0.451, 295.925

68, 8.001, 115.237

73, 16.149,
114.660

78, 24.013,
114.164

83, 31.613,
113.737

88, 38.966,

Harmonies

Complementary

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



42, 37.663, 299.817



61, 34.172, 112.909

Rectangle

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



42, 37.663, 299.817



42, 37.663, 349.817



42, 37.663, 119.817



42, 37.663, 169.817

Sweetspot

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



42, 37.662, 299.817



72, 13.079, 296.834



57, 18.494, 212.733



37, 8.672, 296.934



90, 0.011, 296.813



42, 0.006, 296.813

Same Dimension

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



42, 37.662, 299.817



49, 57.370, 301.068



45, 39.422, 315.312



30, 4.947, 296.581



16, 84.827, 306.981



0, 5.261, 295.775

Inverse Universe

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



47, 38.417, 331.108



57, 56.671, 331.691



59, 37.942, 131.715



30, 5.374, 329.194



32, 66.280, 334.829



1, 5.722, 329.100

Previews

White Background



This preview shows how the CIELCh color 42, 37.663, 299.817 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, 37.663, 299.817 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

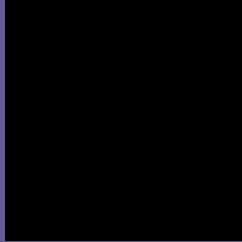
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 42, 37.663, 299.817

Background



This preview shows how black text looks on a background with the CIELCh color 42, 37.663, 299.817.

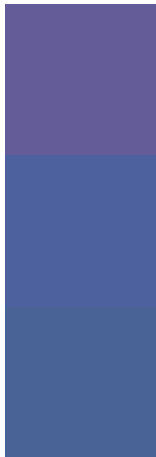


This preview shows how white text looks on a background with the CIELCh color 42, 37.663, 299.817.

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

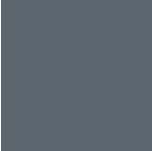
42, 37.663, 299.817

Protanopia

42, 37.013, 285.740

Deuteranopia

42, 31.889, 280.861



Tritanopia
42, 6.378, 248.519

Trichromacy



Original Color
42, 37.663, 299.817

Protanomaly
42, 36.835, 290.562

Deuteranomaly
42, 33.897, 288.104

Tritanomaly
42, 16.955, 288.920

Monochromacy



Original Color
42, 37.663, 299.817

Achromatopsia
43, 0.006, 296.813

Achromatomaly
42, 14.026, 298.451

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 42, 37.663, 299.817 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(100, 91, 153)` looks like.

```
.text, #text, p{  
    color:rgb(100, 91, 153)  
}
```

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(100, 91, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 91, 153) }
```

Border

The CSS property to change the border of an element to CIELCh 42, 37.663, 299.817 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(100, 91, 153) }
```

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

```
.border{ border-color:rgb(100, 91, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 91, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 91, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 91, 153);  
box-shadow:4px 4px 4px 4px rgb(100, 91,  
153) }
```

Background

The CSS property to change the background color of an element to CIELCh 42, 37.663, 299.817 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 91, 153) }
```

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

```
.background{ background-color: rgb(100, 91,  
153) }
```

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