

Converting Colors

CIELCh(42, 63.942, 310.797)

Have a look what the booklet for
CIELCh(42, 63.942, 310.797)
contains.

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Color

CIELCh(42, 63.912, 310.728)

Conversions

Conversions Part 1

Format	Color
Hex	7B4BB4
RGB	123, 75, 180
RGB Percent	48%, 29%, 71%
CMY	0.5183, 0.7064, 0.2948
CMYK	0.32, 0.58, 0.00, 0.29
HSL	267°, 41%, 50%
HSV	267°, 58%, 71%
XYZ	18.8730, 12.5000, 44.5109
YIQ	101.3220, -5.0970, 42.8310

Conversions

Conversions Part 2

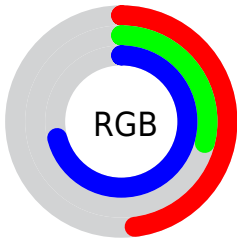
Format	Color
R_{YB}	123, 75, 180
Decimal	8080308
CIE _{Lab}	42.00, 41.70, -48.43
CIE _{LCh}	42, 63.912, 310.728
Yxy	12.5000, 0.2487, 0.1647
Android (android.graphics.Color)	4286270388 (0xFF7B4BB4)
YUV	101.3220, 38.7883, 19.0116
Hunter-Lab	35.3553, 33.4129, -49.8948

Details

The CIELCh color **42, 63.912, 310.728** is a dark color, and the websafe version is hex **663399**. A complement of this color would be **68, 57.991, 124.940**, and the grayscale version is **43, 0.006, 296.813**.

A 20% lighter version of the original color is **62, 63.543, 310.879**, and **22, 63.829, 310.779** is the 20% darker color. If you saturate the color by 10%, you get **37, 74.453, 311.195**, and if you desaturate by 10%, it is **47, 52.801, 310.167**.

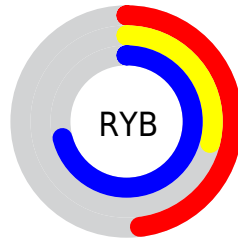
Distribution



Red (48%)

Green (29%)

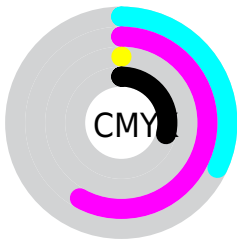
Blue (71%)



Red (48%)

Yellow (29%)

Blue (71%)

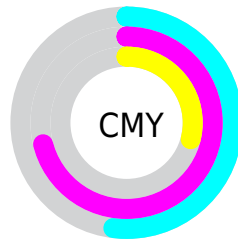


Cyan (32%)

Magenta (58%)

Yellow (0%)

Black (29%)



Cyan (52%)

Magenta (71%)

Yellow (29%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 42, 63.912, 310.728 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, 63.912, 310.728 by changing the saturation by 10% instead.


 42, 63.912,
310.728


 42, 63.912,
310.728


 100, 63.912,
310.728


 32, 63.912,
310.728

 62, 63.912,
310.728


 22, 63.912,
310.728

 72, 63.912,
310.728

 12, 63.912,
310.728


 82, 63.912,
310.728

 2, 63.912, 310.728

 92, 63.912,
310.728

 0, 63.912, 310.728

 42, 63.912,

 42, 63.912,

310.728

■ 37, 74.453,
311.195

■ 33, 83.806,
311.473

■ 30, 91.176,
311.441

■ 27, 96.121,
311.045

■ 27, 96.875,
310.987

310.728

■ 47, 52.801,
310.167

■ 52, 41.532,
309.574

■ 58, 30.348,
308.992

■ 63, 19.384,
308.441

■ 69, 8.708, 307.930

■ 74, 1.652, 127.543

■ 80, 11.687,
127.087

■ 85, 21.403,
126.724

■ 91, 30.811,
126.408

Harmonies

Complementary

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



42, 63.912, 310.728



68, 57.991, 124.940

Rectangle

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



42, 63.912, 310.728



42, 63.912, 0.728



42, 63.912, 130.728



42, 63.912, 180.728

Sweetspot

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



42, 63.911, 310.728



81, 23.565, 308.437



53, 30.939, 261.342



41, 16.429, 308.591



96, 0.011, 296.813



49, 0.007, 296.813

Same Dimension

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



42, 63.911, 310.728



48, 94.262, 311.298



49, 66.451, 325.814



35, 5.860, 307.976



22, 85.865, 311.129



1, 13.751, 303.859

Inverse Universe

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



47, 49.967, 347.582



57, 70.840, 349.855



66, 66.701, 138.582



35, 4.897, 342.102



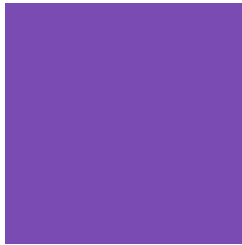
33, 58.557, 357.380



2, 10.881, 347.463

Previews

White Background



This preview shows how the CIELCh color 42, 63.912, 310.728 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 CIELCh color 42, 63.912, 310.728 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

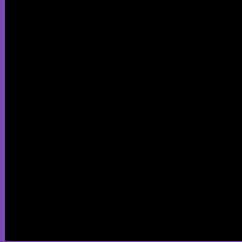
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 42, 63.912, 310.728

Background



This preview shows how black text looks on a background with the CIELCh color 42, 63.912, 310.728.



This preview shows how white text looks on a background with the CIELCh color 42, 63.912, 310.728.

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, 63.912, 310.728

Protanopia
42, 63.910, 287.385

Deuteranopia
42, 45.198, 277.712



Tritanopia
42, 6.557, 340.193

Trichromacy



Original Color
42, 63.912, 310.728

Protanomaly
41, 63.927, 292.857

Deuteranomaly
41, 51.454, 290.556

Tritanomaly
41, 27.755, 313.279

Monochromacy



Original Color
42, 63.912, 310.728

Achromatopsia
43, 0.006, 296.813

Achromatomaly
42, 24.656, 309.187

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 42, 63.912, 310.728 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(123, 75, 180)` looks like.

```
.text, #text, p{  
    color:rgb(123, 75, 180)  
}
```

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(123, 75, 180) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 75, 180) }
```

Border

The CSS property to change the border of an element to CIELCh 42, 63.912, 310.728 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(123, 75, 180) }
```

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

```
.border{ border-color:rgb(123, 75, 180) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 75, 180)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 75, 180); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 75, 180);  
box-shadow:4px 4px 4px 4px rgb(123, 75,  
180) }
```

Background

The CSS property to change the background color of an element to CIELCh 42, 63.912, 310.728 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 75, 180) }
```

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

```
.background{ background-color: rgb(123, 75,  
180) }
```

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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