

Converting Colors

CIELCh(49, 42.002, 310.666)

Have a look what the booklet for
CIELCh(49, 42.002, 310.666)
contains.

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Color

CIELCh(49, 42.091, 310.362)

Conversions

Conversions Part 1

Format	Color
Hex	8766AB
RGB	135, 102, 171
RGB Percent	53%, 40%, 67%
CMY	0.4706, 0.6000, 0.3294
CMYK	0.21, 0.40, 0.00, 0.33
HSL	269°, 29%, 54%
HSV	269°, 40%, 67%
XYZ	22.0939, 17.5941, 40.7598
YIQ	119.7330, -2.4810, 28.4550

Conversions

Conversions Part 2

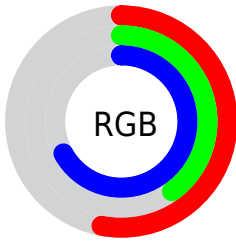
Format	Color
R_{YB}	135, 102, 171
Decimal	8873643
CIE _{Lab}	49.00, 27.26, -32.07
CIE _{LCh}	49, 42.091, 310.362
Yxy	17.5941, 0.2746, 0.2187
Android (android.graphics.Color)	4287063723 (0xFF8766AB)
YUV	119.7330, 25.2746, 13.3892
Hunter-Lab	41.9453, 20.6173, -28.2527

Details

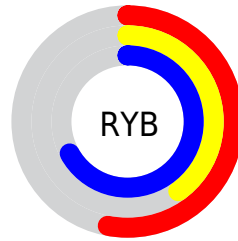
The CIELCh color $49, 42.091, 310.362$ is a dark color, and the websafe version is hex 996699 . A complement of this color would be $66, 39.625, 126.422$, and the grayscale version is $50, 0.007, 296.813$.

A 20% lighter version of the original color is $69, 41.917, 309.976$, and $29, 42.018, 310.272$ is the 20% darker color. If you saturate the color by 10%, you get $44, 52.878, 310.919$, and if you desaturate by 10%, it is $54, 31.324, 309.802$.

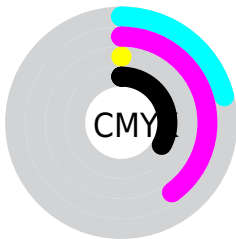
Distribution



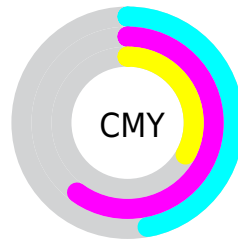
- Red (53%)
- Green (40%)
- Blue (67%)



- Red (53%)
- Yellow (40%)
- Blue (67%)



- Cyan (21%)
- Magenta (40%)
- Yellow (0%)
- Black (33%)




- Cyan (47%)
- Magenta (60%)
- Yellow (33%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 42.091, 310.362 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 49, 42.091, 310.362 by changing the saturation by 10% instead.


 49, 42.091,
310.362


 49, 42.091,
310.362


 100, 42.091,
310.362


 39, 42.091,
310.362

 69, 42.091,
310.362


 29, 42.091,
310.362

 79, 42.091,
310.362

 19, 42.091,
310.362

 89, 42.091,
310.362

 9, 42.091, 310.362

 99, 42.091,
310.362

 0, 42.091, 310.362

 49, 42.091,

 49, 42.091,

310.362

44, 52.878,
310.919

39, 63.426,
311.431

35, 73.304,
311.829

31, 81.894,
312.018

28, 88.451,
311.882

26, 92.868,
311.478

310.362

54, 31.324,
309.802

59, 20.733,
309.266

65, 10.397,
308.764


70, 0.354, 308.042

75, 9.384, 127.925

80, 18.819,
127.559

85, 27.957,
127.240

91, 36.812,
126.961

 96, 44.888,
126.527

Harmonies

Complementary

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



49, 42.091, 310.362



66, 39.625, 126.422

Rectangle

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



49, 42.091, 310.362



49, 42.091, 0.362



49, 42.091, 130.362



49, 42.091, 180.362

Sweetspot

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



49, 42.090, 310.362



81, 14.939, 308.855



56, 21.476, 258.415



42, 10.006, 308.916



95, 0.011, 296.813



47, 0.006, 296.813

Same Dimension

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



49, 42.090, 310.362



58, 62.258, 310.837



53, 45.828, 325.583



34, 5.744, 308.714



22, 84.424, 311.595



1, 11.789, 305.170

Inverse Universe

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



52, 33.701, 346.338



62, 49.153, 347.433



64, 45.802, 140.697



34, 4.712, 343.202



32, 57.515, 359.243



2, 9.254, 347.633

Previews

White Background



This preview shows how the CIELCh color 49, 42.091, 310.362 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 49, 42.091, 310.362 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

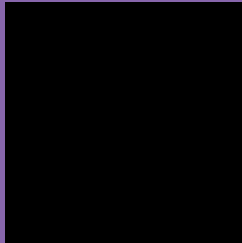
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

CIELCh 49, 42.091, 310.362

Background



This preview shows how black text looks on a background with the CIELCh color 49, 42.091, 310.362.

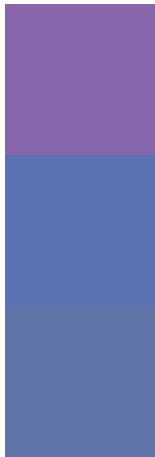


This preview shows how white text looks on a background with the CIELCh color 49, 42.091, 310.362.

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

49, 42.091, 310.362

Protanopia

49, 39.519, 285.751

Deuteranopia

49, 30.866, 282.296



Tritanopia
49, 7.064, 338.622

Trichromacy



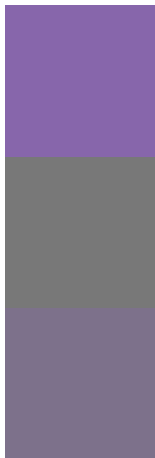
Original Color
49, 42.091, 310.362

Protanomaly
49, 39.353, 294.201

Deuteranomaly
49, 34.090, 293.941

Tritanomaly
49, 19.303, 315.552

Monochromacy



Original Color
49, 42.091, 310.362

Achromatopsia
50, 0.007, 296.813

Achromatomaly
50, 16.000, 308.591

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 42.091, 310.362 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(135, 102, 171)` looks like.

```
.text, #text, p{  
    color:rgb(135, 102, 171)  
}
```

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(135, 102, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 102, 171) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 42.091, 310.362 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(135, 102, 171) }
```

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

```
.border{ border-color:rgb(135, 102, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 102, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 102, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 102, 171);  
box-shadow:4px 4px 4px 4px rgb(135, 102,  
171) }
```

Background

The CSS property to change the background color of an element to CIELCh 49, 42.091, 310.362 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 102, 171) }
```

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

```
.background{ background-color: rgb(135,  
102, 171) }
```

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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