

Converting Colors

CIELCh(49, 12.291, 197.893)

Have a look what the booklet for
CIELCh(49, 12.291, 197.893)
contains.

CIELCh(49, 12.273, 198.113)	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(49, 12.273, 198.113)

Conversions

Conversions Part 1

Format	Color
Hex	597A7A
RGB	89, 122, 122
RGB Percent	35%, 48%, 48%
CMY	0.6492, 0.5198, 0.5198
CMYK	0.27, 0.00, 0.00, 0.52
HSL	180°, 16%, 42%
HSV	180°, 27%, 48%
XYZ	14.7197, 17.5941, 21.1810
YIQ	112.1330, -19.6680, -6.9960

Conversions

Conversions Part 2

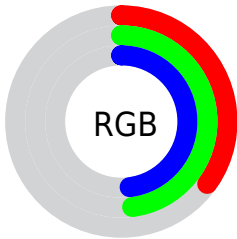
Format	Color
R _Y B	89, 106, 122
Decimal	5864058
CIE Lab	49.00, -11.66, -3.82
CIE LCh	49, 12.273, 198.113
Yxy	17.5941, 0.2752, 0.3289
Android (android.graphics.Color)	4284054138 (0xFF597A7A)
YUV	112.1330, 4.8644, -20.2876
Hunter-Lab	41.9453, -10.7640, -0.5778

Details

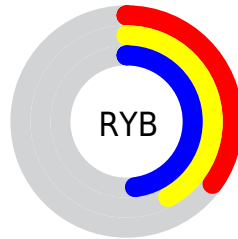
The CIELCh color `49, 12.273, 198.113` is a dark color, and the websafe version is hex `336666`. A complement of this color would be `41, 14.597, 21.415`, and the grayscale version is `47, 0.006, 296.813`.

A 20% lighter version of the original color is `69, 12.120, 198.433`, and `29, 12.319, 197.546` is the 20% darker color. If you saturate the color by 10%, you get `48, 16.201, 197.690`, and if you desaturate by 10%, it is `50, 7.967, 198.583`.

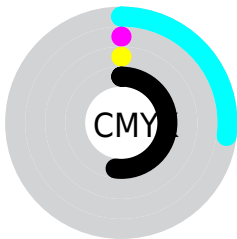
Distribution



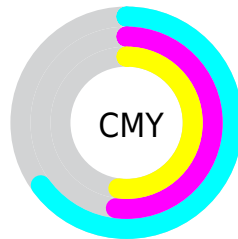
- Red (35%)
- Green (48%)
- Blue (48%)



- Red (35%)
- Yellow (42%)
- Blue (48%)



- Cyan (27%)
- Magenta (0%)
- Yellow (0%)
- Black (52%)





- Cyan (65%)
- Magenta (52%)
- Yellow (52%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 12.273, 198.113 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, 12.273, 198.113 by changing the saturation by 10% instead.


 49, 12.273,
198.113


 49, 12.273,
198.113


 100, 12.273,
198.113


 39, 12.273,
198.113

 69, 12.273,
198.113


 29, 12.273,
198.113

 79, 12.273,
198.113

 19, 12.273,
198.113

 89, 12.273,
198.113

 9, 12.273, 198.113

 99, 12.273,
198.113

 0, 12.273, 198.113

 49, 12.273,

 49, 12.273,

198.113

■ 48, 16.201,
197.690

■ 48, 19.679,
197.328

■ 47, 22.644,
197.024

■ 47, 25.051,
196.780

■ 47, 26.875,
196.597

■ 46, 28.123,
196.473

■ 46, 28.902,
196.395

■ 46, 29.123,
196.373

198.113

■ 50, 7.967, 198.583

■ 51, 3.353, 199.147

■ 52, 1.498, 19.305

■ 53, 6.524, 20.060

■ 54, 11.671, 20.663

■ 55, 16.894, 21.263

■ 57, 22.155, 21.866

■ 58, 27.426, 22.470

■ 60, 32.683, 23.071

Harmonies

Complementary

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



49, 12.273, 198.113



41, 14.597, 21.415

Rectangle

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



49, 12.273, 198.113



49, 12.273, 248.113



49, 12.273, 18.113



49, 12.273, 68.113

Sweetspot

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



49, 12.273, 198.109



64, 4.738, 199.067



48, 23.575, 142.304



33, 3.339, 198.989



83, 0.010, 296.813



34, 0.005, 296.813

Same Dimension

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



49, 12.273, 198.109



62, 17.580, 197.859



44, 11.258, 257.447



25, 2.700, 199.013



47, 29.547, 196.373



90, 49.738, 196.372

Inverse Universe

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



41, 14.597, 21.415



51, 21.802, 22.069



46, 12.164, 70.456



24, 2.851, 19.862



25, 60.073, 38.170



53, 103.778, 39.998

Previews

White Background



This preview shows how the CIELCh color 49, 12.273, 198.113 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 49, 12.273, 198.113 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

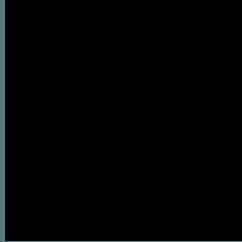
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 49, 12.273, 198.113

Background



This preview shows how black text looks on a background with the CIELCh color 49, 12.273, 198.113.



This preview shows how white text looks on a background with the CIELCh color 49, 12.273, 198.113.

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, 12.273, 198.113

Protanopia
49, 1.953, 314.709

Deuteranopia
49, 7.631, 322.363



Tritanopia
49, 12.133, 227.565

Trichromacy



Original Color
49, 12.273, 198.113

Protanomaly
49, 4.437, 214.427

Deuteranomaly
49, 4.521, 265.165

Tritanomaly
49, 12.066, 215.351

Monochromacy



Original Color
49, 12.273, 198.113

Achromatopsia
48, 0.006, 296.813

Achromatomaly
48, 4.731, 198.949

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 12.273, 198.113 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(89, 122, 122)` looks like.

```
.text, #text, p{  
    color:rgb(89, 122, 122)  
}
```

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(89, 122, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 122, 122) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 12.273, 198.113 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(89, 122, 122) }
```

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

```
.border{ border-color:rgb(89, 122, 122) }
```

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

Here you see how a box with a 4 pixel `rgb(89, 122, 122)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(89, 122, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(89, 122, 122);  
box-shadow:4px 4px 4px 4px rgb(89, 122,  
122) }
```

Background

The CSS property to change the background color of an element to CIELCh 49, 12.273, 198.113 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(89, 122, 122) }
```

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

```
.background{ background-color: rgb(89, 122,  
122) }
```

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