

Converting Colors

CIELCh(49, 42.236, 110.678)

Have a look what the booklet for
CIELCh(49, 42.236, 110.678)
contains.

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Color

CIELCh(49, 42.099, 111.011)

Conversions

Conversions Part 1

Format	Color
Hex	707A2E
RGB	112, 122, 46
RGB Percent	44%, 48%, 18%
CMY	0.5604, 0.5212, 0.8192
CMYK	0.08, 0.00, 0.62, 0.52
HSL	68°, 45%, 33%
HSV	68°, 62%, 48%
XYZ	14.1628, 17.5941, 5.2446
YIQ	110.3460, 18.4360, -25.7560

Conversions

Conversions Part 2

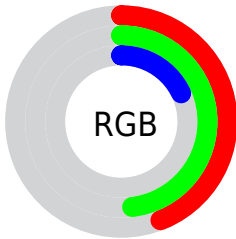
Format	Color
R_{YB}	46, 122, 56
Decimal	7371310
CIE _{Lab}	49.00, -15.09, 39.30
CIE _{LCh}	49, 42.099, 111.011
Yxy	17.5941, 0.3828, 0.4755
Android (android.graphics.Color)	4285561390 (0xFF707A2E)
YUV	110.3460, -31.7226, 1.4506
Hunter-Lab	41.9453, -13.1338, 21.9484

Details

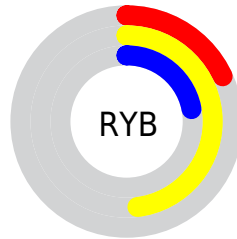
The CIELCh color $49, 42.099, 111.011$ is a dark color, and the websafe version is hex 666600 . A complement of this color would be $24, 49.754, 302.325$, and the grayscale version is $47, 0.006, 296.813$.

A 20% lighter version of the original color is $69, 42.092, 110.561$, and $29, 39.846, 111.817$ is the 20% darker color. If you saturate the color by 10%, you get $49, 47.447, 110.588$, and if you desaturate by 10%, it is $49, 36.056, 111.584$.

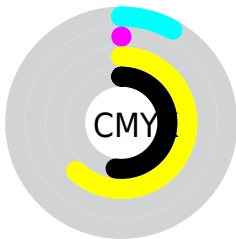
Distribution



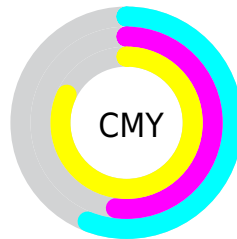
- Red (44%)
- Green (48%)
- Blue (18%)



- Red (18%)
- Yellow (48%)
- Blue (22%)



- Cyan (8%)
- Magenta (0%)
- Yellow (62%)
- Black (52%)





- Cyan (56%)
- Magenta (52%)
- Yellow (82%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 42.099, 111.011 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, 42.099, 111.011 by changing the saturation by 10% instead.


 49, 42.099,
111.011


 49, 42.099,
111.011


 100, 42.099,
111.011


 39, 42.099,
111.011

 69, 42.099,
111.011


 29, 42.099,
111.011

 79, 42.099,
111.011

 19, 42.099,
111.011

 89, 42.099,
111.011

 9, 42.099, 111.011

 99, 42.099,
111.011

 0, 42.099, 111.011

 49, 42.099,

 49, 42.099,

111.011

111.011

■ 49, 47.447,
110.588

■ 49, 36.056,
111.584

■ 49, 51.801,
110.372

■ 50, 29.553,
112.246

■ 48, 54.873,
110.432

■ 50, 22.760,
112.962

■ 48, 56.825,
110.557

■ 50, 15.789,
113.702

■ 51, 8.717, 114.445

■ 51, 1.595, 115.173

■ 52, 5.542, 295.894

■ 52, 12.669,
296.578

■ 53, 19.768,

Harmonies

Complementary

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



49, 42.099, 111.011



24, 49.754, 302.325

Rectangle

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



49, 42.099, 111.011



49, 42.099, 161.011



49, 42.099, 291.011



49, 42.099, 341.011

Sweetspot

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



49, 42.100, 111.013



64, 16.678, 113.909



32, 34.516, 34.385



33, 11.406, 113.737



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, 42.100, 111.013



62, 59.807, 110.459



47, 46.980, 130.297



26, 4.019, 114.679



49, 57.776, 110.575



94, 97.369, 110.974

Inverse Universe

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



24, 49.754, 302.325



26, 74.713, 304.451



29, 49.906, 315.544



23, 4.100, 296.041



13, 78.059, 306.953



33, 131.945, 306.687

Previews

White Background



This preview shows how the CIE LCh color 49, 42.099, 111.011 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, 42.099, 111.011 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

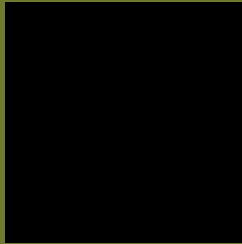
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

CIELCh 49, 42.099, 111.011

Background



This preview shows how black text looks on a background with the CIELCh color 49, 42.099, 111.011.



This preview shows how white text looks on a background with the CIELCh color 49, 42.099, 111.011.

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, 42.099, 111.011

Protanopia

49, 40.586, 95.938

Deuteranopia

49, 38.630, 81.011



Tritanopia
49, 5.835, 314.938

Trichromacy



Original Color
49, 42.099, 111.011

Protanomaly
49, 40.991, 102.031

Deuteranomaly
49, 38.158, 92.780

Tritanomaly
49, 12.831, 108.449

Monochromacy



Original Color
49, 42.099, 111.011

Achromatopsia
46, 0.006, 296.813

Achromatomaly
47, 15.855, 112.745

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 42.099, 111.011 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(112, 122, 46)` looks like.

```
.text, #text, p{  
    color:rgb(112, 122, 46)  
}
```

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(112, 122, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(112, 122, 46) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 42.099, 111.011 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(112, 122, 46) }
```

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

```
.border{ border-color:rgb(112, 122, 46) }
```

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

Here you see how a box with a 4 pixel rgb(112, 122, 46) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(112, 122, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(112, 122, 46);  
box-shadow:4px 4px 4px 4px rgb(112, 122,  
46) }
```

Background

The CSS property to change the background color of an element to CIELCh 49, 42.099, 111.011 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(112, 122, 46) }
```

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

```
.background{ background-color: rgb(112,  
122, 46) }
```

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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