

Converting Colors

CIELCh(49, 12.804, 110.390)

Have a look what the booklet for
CIELCh(49, 12.804, 110.390)
contains.

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Color

CIELCh(49, 12.823, 110.378)

Conversions

Conversions Part 1

Format	Color
Hex	757660
RGB	117, 118, 96
RGB Percent	46%, 46%, 38%
CMY	0.5410, 0.5371, 0.6234
CMYK	0.01, 0.00, 0.19, 0.54
HSL	63°, 10%, 42%
HSV	63°, 19%, 46%
XYZ	15.9358, 17.5941, 13.6302
YIQ	115.1930, 6.4660, -7.0540

Conversions

Conversions Part 2

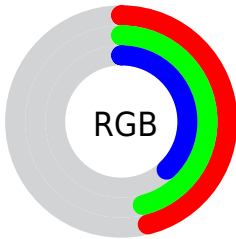
Format	Color
R_{YB}	96, 118, 97
Decimal	7698016
CIE _{Lab}	49.00, -4.47, 12.02
CIE _{LCh}	49, 12.823, 110.378
Yxy	17.5941, 0.3379, 0.3731
Android (android.graphics.Color)	4285888096 (0xFF757660)
YUV	115.1930, -9.4621, 1.5847
Hunter-Lab	41.9453, -5.5888, 10.0953

Details

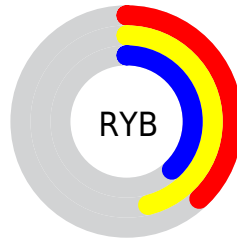
The CIELCh color $[49, 12.823, 110.378]$ is a dark color, and the websafe version is hex 666666 . A complement of this color would be $[42, 13.357, 293.781]$, and the grayscale version is $[49, 0.006, 296.813]$.

A 20% lighter version of the original color is $[69, 12.561, 110.695]$, and $[29, 12.717, 109.890]$ is the 20% darker color. If you saturate the color by 10%, you get $[49, 19.612, 109.527]$, and if you desaturate by 10%, it is $[49, 5.958, 111.236]$.

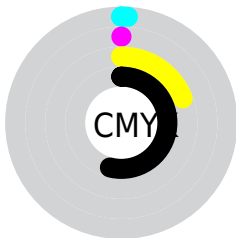
Distribution



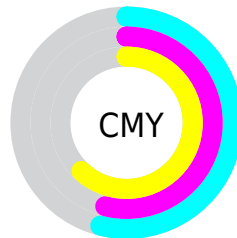
- Red (46%)
- Green (46%)
- Blue (38%)



- Red (38%)
- Yellow (46%)
- Blue (38%)



- Cyan (1%)
- Magenta (0%)
- Yellow (19%)
- Black (54%)




- Cyan (54%)
- Magenta (54%)
- Yellow (62%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 12.823, 110.378 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, 12.823, 110.378 by changing the saturation by 10% instead.


 49, 12.823,
110.378


 49, 12.823,
110.378


 100, 12.823,
110.378


 39, 12.823,
110.378

 69, 12.823,
110.378


 29, 12.823,
110.378

 79, 12.823,
110.378

 19, 12.823,
110.378

 89, 12.823,
110.378

 9, 12.823, 110.378

 99, 12.823,
110.378

 0, 12.823, 110.378

 49, 12.823,

 49, 12.823,

110.378

110.378

■ 49, 19.612,
109.527

■ 49, 5.958, 111.236

■ 48, 26.257,
108.686

■ 50, 0.946, 292.119

■ 50, 7.858, 292.911

■ 48, 32.663,
107.882

■ 51, 14.759,
293.703

■ 48, 38.689,
107.145

■ 51, 21.634,
294.462

■ 48, 44.126,
106.509

■ 52, 28.472,
295.187

■ 48, 48.704,
106.020

■ 52, 35.265,
295.874

■ 48, 52.125,
105.723

■ 53, 42.006,
296.522

■ 48, 54.589,
105.580

■ 53, 48.689,

■ 48, 54.932,
105.558

297.133

Harmonies

Complementary

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



49, 12.823, 110.378



42, 13.357, 293.781

Rectangle

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



49, 12.823, 110.378



49, 12.823, 160.378



49, 12.823, 290.378



49, 12.823, 340.378

Sweetspot

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



49, 12.824, 110.383



63, 5.116, 111.446



43, 9.193, 23.285



32, 3.373, 111.407



82, 0.010, 296.813



33, 0.005, 296.813

Same Dimension

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



49, 12.824, 110.383



62, 18.689, 110.048



48, 13.813, 129.441



25, 3.860, 111.204



49, 56.380, 105.569



95, 95.601, 105.718

Inverse Universe

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



42, 13.357, 293.781



51, 19.645, 294.229



43, 14.126, 311.017



22, 3.940, 292.787



12, 77.452, 306.507



32, 131.582, 306.380

Previews

White Background



This preview shows how the CIELCh color 49, 12.823, 110.378 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, 12.823, 110.378 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

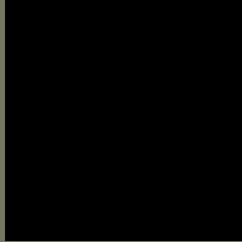
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

CIELCh 49, 12.823, 110.378

Background



This preview shows how black text looks on a background with the CIELCh color 49, 12.823, 110.378.



This preview shows how white text looks on a background with the CIELCh color 49, 12.823, 110.378.

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, 12.823, 110.378

Protanopia

49, 12.633, 94.604

Deuteranopia

49, 13.118, 61.805



Tritanopia
49, 6.012, 318.422

Trichromacy



Original Color
49, 12.823, 110.378

Protanomaly
49, 12.939, 100.765

Deuteranomaly
49, 11.694, 77.477

Tritanomaly
49, 2.351, 49.310

Monochromacy



Original Color
49, 12.823, 110.378

Achromatopsia
48, 0.006, 296.813

Achromatomaly
49, 4.683, 109.541

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 12.823, 110.378 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(117, 118, 96)` looks like.

```
.text, #text, p{  
    color:rgb(117, 118, 96)  
}
```

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(117, 118, 96) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 118, 96) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 12.823, 110.378 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(117, 118, 96) }
```

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

```
.border{ border-color:rgb(117, 118, 96) }
```

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

Here you see how a box with a 4 pixel `rgb(117, 118, 96)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(117, 118, 96); -webkit-box-  
shadow:4px 4px 4px 4px rgb(117, 118, 96);  
box-shadow:4px 4px 4px 4px rgb(117, 118,  
96) }
```

Background

The CSS property to change the background color of an element to CIELCh 49, 12.823, 110.378 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 118, 96) }
```

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

```
.background{ background-color: rgb(117,  
118, 96) }
```

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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