

Converting Colors

CIELCh(48, 12.457, 141.861)

Have a look what the booklet for
CIELCh(48, 12.457, 141.861)
contains.

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Color

CIELCh(48, 12.023, 142.099)

Conversions

Conversions Part 1

Format	Color
Hex	667665
RGB	102, 118, 101
RGB Percent	40%, 46%, 40%
CMY	0.5991, 0.5363, 0.6030
CMYK	0.14, 0.00, 0.14, 0.54
HSL	116°, 8%, 43%
HSV	116°, 14%, 46%
XYZ	14.3717, 16.7945, 14.8547
YIQ	111.2780, -4.0790, -8.6790

Conversions

Conversions Part 2

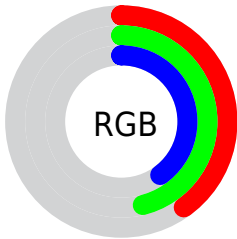
Format	Color
R_{YB}	101, 118, 117
Decimal	6714981
CIE Lab	48.00, -9.49, 7.39
CIE LCh	48, 12.023, 142.099
Yxy	16.7945, 0.3123, 0.3649
Android (android.graphics.Color)	4284905061 (0xFF667665)
YUV	111.2780, -5.0671, -8.1368
Hunter-Lab	40.9810, -9.1183, 7.1954

Details

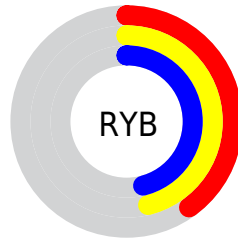
The CIELCh color $48, 12.023, 142.099$ is a dark color, and the websafe version is hex 666666 . A complement of this color would be $45, 12.055, 323.542$, and the grayscale version is $47, 0.006, 296.813$.

A 20% lighter version of the original color is $68, 11.903, 142.392$, and $28, 12.399, 141.566$ is the 20% darker color. If you saturate the color by 10%, you get $47, 20.438, 141.452$, and if you desaturate by 10%, it is $49, 3.640, 142.686$.

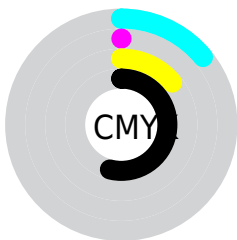
Distribution



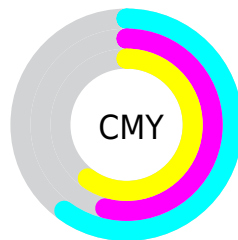
- Red (40%)
- Green (46%)
- Blue (40%)



- Red (40%)
- Yellow (46%)
- Blue (46%)



- Cyan (14%)
- Magenta (0%)
- Yellow (14%)
- Black (54%)





- Cyan (60%)
- Magenta (54%)
- Yellow (60%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 48, 12.023, 142.099 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 48, 12.023, 142.099 by changing the saturation by 10% instead.


 48, 12.023,
142.099


 48, 12.023,
142.099


 100, 12.023,
142.099


 38, 12.023,
142.099

 68, 12.023,
142.099


 28, 12.023,
142.099

 78, 12.023,
142.099

 18, 12.023,
142.099


 88, 12.023,
142.099

 8, 12.023, 142.099

 98, 12.023,
142.099

 0, 12.023, 142.099

 48, 12.023,

 48, 12.023,

142.099

142.099

■ 47, 20.438,
141.452

■ 49, 3.640, 142.686

■ 46, 28.770,
140.714

■ 50, 4.635, 323.079

■ 45, 36.874,
139.888

■ 52, 12.744,
323.508

■ 44, 44.562,
138.989

■ 53, 20.651,
323.859

■ 44, 51.597,
138.061

■ 55, 28.335,
324.157

■ 43, 57.690,
137.180

■ 57, 35.784,
324.411

■ 43, 62.523,
136.457

■ 58, 42.998,
324.627

■ 43, 65.876,
135.972

■ 60, 49.980,
324.813

■ 43, 67.487,
135.602

■ 62, 56.736,
324.972

Harmonies

Complementary

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



48, 12.023, 142.099



45, 12.055, 323.542

Rectangle

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



48, 12.023, 142.099



48, 12.023, 192.099



48, 12.023, 322.099



48, 12.023, 12.099

Sweetspot

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



48, 12.024, 142.100



63, 4.099, 142.704



49, 9.279, 105.965



32, 2.898, 142.665



82, 0.010, 296.813



33, 0.005, 296.813

Same Dimension

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



48, 12.024, 142.100



61, 17.571, 141.912



48, 8.953, 159.146



24, 4.660, 142.415



44, 69.196, 135.618



86, 117.675, 135.842

Inverse Universe

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



45, 12.055, 323.542



56, 17.619, 323.692



45, 9.068, 341.290



23, 4.672, 323.273



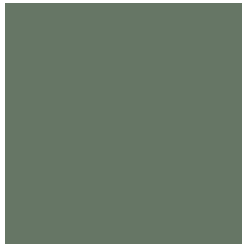
27, 67.338, 326.008



57, 114.190, 325.887

Previews

White Background



This preview shows how the CIELCh color 48, 12.023, 142.099 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 48, 12.023, 142.099 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

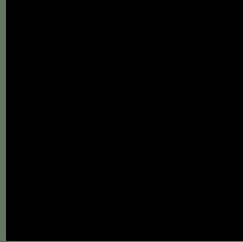
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 48, 12.023, 142.099

Background



This preview shows how black text looks on a background with the CIELCh color 48, 12.023, 142.099.

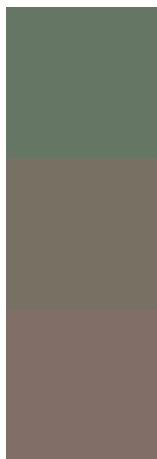


This preview shows how white text looks on a background with the CIELCh color 48, 12.023, 142.099.

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

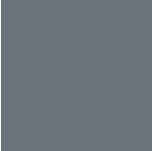
48, 12.023, 142.099

Protanopia

48, 8.608, 91.708

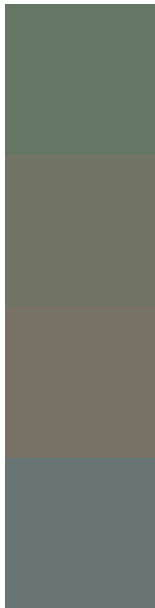
Deuteranopia

48, 9.139, 46.792



Tritanopia
48, 6.264, 257.338

Trichromacy



Original Color
48, 12.023, 142.099

Protanomaly
48, 8.839, 114.463

Deuteranomaly
48, 6.937, 87.786

Tritanomaly
48, 4.346, 198.999

Monochromacy



Original Color
48, 12.023, 142.099

Achromatopsia
47, 0.006, 296.813

Achromatomaly
47, 4.325, 144.198

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 12.023, 142.099 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(102, 118, 101)` looks like.

```
.text, #text, p{  
    color:rgb(102, 118, 101)  
}
```

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(102, 118, 101) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 118, 101) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 12.023, 142.099 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(102, 118, 101) }
```

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

```
.border{ border-color:rgb(102, 118, 101) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 118, 101)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 118, 101); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 118, 101);  
box-shadow:4px 4px 4px 4px rgb(102, 118,  
101) }
```

Background

The CSS property to change the background color of an element to CIELCh 48, 12.023, 142.099 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 118, 101) }
```

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

```
.background{ background-color: rgb(102,  
118, 101) }
```

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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