

Converting Colors

CIELCh(40, 46.365, 121.952)

Have a look what the booklet for
CIELCh(40, 46.365, 121.952)
contains.

CIELCh(40, 46.000, 122.104)	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(40, 46.000, 122.104)

Conversions

Conversions Part 1

Format	Color
Hex	486717
RGB	72, 103, 23
RGB Percent	28%, 40%, 9%
CMY	0.7158, 0.5943, 0.9079
CMYK	0.30, 0.00, 0.77, 0.59
HSL	83°, 63%, 25%
HSV	83°, 77%, 41%
XYZ	7.7625, 11.2510, 2.5991
YIQ	84.6110, 7.2040, -31.4520

Conversions

Conversions Part 2

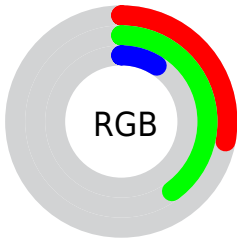
Format	Color
RYB	23, 103, 54
Decimal	4744983
CIELab	40.00, -24.45, 38.97
CIELCh	40, 46.000, 122.104
Yxy	11.2510, 0.3592, 0.5206
Android (android.graphics.Color)	4282935063 (0xFF486717)
YUV	84.6110, -30.3742, -11.0598
Hunter-Lab	33.5425, -17.3904, 18.8856

Details

The CIELCh color $40, 46.000, 122.104$ is a dark color, and the websafe version is hex 336600 . A complement of this color would be $18, 53.386, 309.620$, and the grayscale version is $36, 0.005, 296.813$.

A 20% lighter version of the original color is $60, 45.698, 122.302$, and $20, 36.015, 129.844$ is the 20% darker color. If you saturate the color by 10%, you get $40, 49.860, 122.372$, and if you desaturate by 10%, it is $40, 41.237, 122.150$.

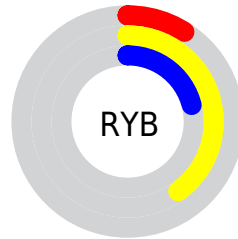
Distribution



Red (28%)

Green (40%)

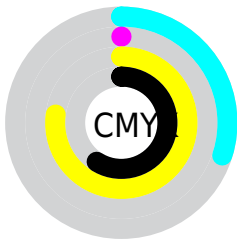
Blue (9%)



Red (9%)

Yellow (40%)

Blue (21%)

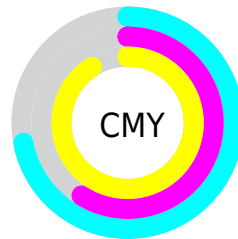


Cyan (30%)

Magenta (0%)

Yellow (77%)

Black (59%)



Cyan (72%)


Magenta (59%)


Yellow (91%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 40, 46.000, 122.104 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 40, 46.000, 122.104 by changing the saturation by 10% instead.


 40, 46.000,
122.104


 40, 46.000,
122.104


 100, 46.000,
122.104


 30, 46.000,
122.104

 60, 46.000,
122.104


 20, 46.000,
122.104

 70, 46.000,
122.104

 10, 46.000,
122.104

 80, 46.000,
122.104

 0, 46.000, 122.104

 90, 46.000,
122.104

 40, 46.000,

 40, 46.000,

122.104

■ 40, 49.860,
122.372

■ 39, 52.951,
122.870

■ 39, 53.816,
122.966

122.104

■ 40, 41.237,
122.150

■ 41, 35.822,
122.406

■ 41, 29.966,
122.792

■ 42, 23.830,
123.249

■ 42, 17.524,
123.738

■ 43, 11.126,
124.233

■ 43, 4.690, 124.722

■ 44, 1.746, 305.144

Harmonies

Complementary

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



40, 46.000, 122.104



18, 53.386, 309.620

Rectangle

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



40, 46.000, 122.104



40, 46.000, 172.104



40, 46.000, 302.104



40, 46.000, 352.104

Sweetspot

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



40, 46.000, 122.105



55, 18.410, 123.918



28, 34.170, 55.617



28, 12.832, 123.782



79, 0.010, 296.813



29, 0.005, 296.813

Same Dimension

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



40, 46.000, 122.105



51, 63.238, 122.905



38, 52.692, 136.130



21, 3.569, 124.643



44, 57.999, 123.154



87, 101.334, 124.108

Inverse Universe

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



18, 53.386, 309.620



19, 75.972, 309.919



24, 52.582, 324.036



19, 3.623, 305.469



14, 70.500, 310.101



36, 123.142, 309.472

Previews

White Background



This preview shows how the CIELCh color 40, 46.000, 122.104 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 40, 46.000, 122.104 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

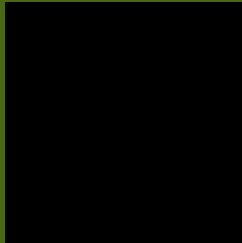
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 40, 46.000, 122.104

Background



This preview shows how black text looks on a background with the CIELCh color 40, 46.000, 122.104.



This preview shows how white text looks on a background with the CIELCh color 40, 46.000, 122.104.

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

40, 46.000, 122.104

Protanopia

40, 40.874, 95.307

Deuteranopia

40, 37.636, 81.636



Tritanopia
40, 7.208, 241.714

Trichromacy



Original Color
40, 46.000, 122.104

Protanomaly
40, 41.259, 105.866

Deuteranomaly
39, 37.620, 98.926

Tritanomaly
40, 16.958, 138.617

Monochromacy



Original Color
40, 46.000, 122.104

Achromatopsia
36, 0.005, 296.813

Achromatomaly
37, 18.448, 124.548

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 40, 46.000, 122.104 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(72, 103, 23)` looks like.

```
.text, #text, p{  
    color:rgb(72, 103, 23)  
}
```

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(72, 103, 23) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 103, 23) }
```

Border

The CSS property to change the border of an element to CIELCh 40, 46.000, 122.104 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(72, 103, 23) }
```

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

```
.border{ border-color:rgb(72, 103, 23) }
```

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

Here you see how a box with a 4 pixel `rgb(72, 103, 23)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 103, 23); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 103, 23);  
box-shadow:4px 4px 4px 4px rgb(72, 103,  
23) }
```

Background

The CSS property to change the background color of an element to CIELCh 40, 46.000, 122.104 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 103, 23) }
```

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

```
.background{ background-color: rgb(72, 103,  
23) }
```

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