

Converting Colors

CIELCh(40, 48.162, 40.210)

Have a look what the booklet for
CIELCh(40, 48.162, 40.210) contains.

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Color

CIELCh(40, 48.071, 40.522)

Conversions

Conversions Part 1

Format	Color
Hex	9D422D
RGB	157, 66, 45
RGB Percent	62%, 26%, 18%
CMY	0.3844, 0.7412, 0.8236
CMYK	0.00, 0.58, 0.71, 0.38
HSL	11°, 55%, 40%
HSV	11°, 71%, 62%
XYZ	16.3227, 11.2510, 3.7929
YIQ	90.8150, 60.9770, 12.7610

Conversions

Conversions Part 2

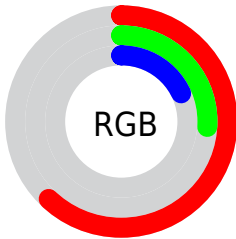
Format	Color
R_{YB}	157, 71, 45
Decimal	10306093
CIE Lab	40.00, 36.54, 31.23
CIE LCh	40, 48.071, 40.522
Yxy	11.2510, 0.5204, 0.3587
Android (android.graphics.Color)	4288496173 (0xFF9D422D)
YUV	90.8150, -22.5868, 58.0442
Hunter-Lab	33.5425, 28.1636, 16.7754

Details

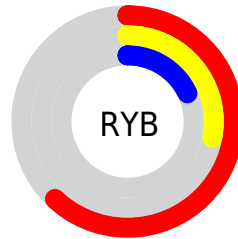
The CIELCh color **40, 48.071, 40.522** is a dark color, and the websafe version is hex **993333**. A complement of this color would be **53, 27.089, 224.325**, and the grayscale version is **39, 0.005, 296.813**.

A 20% lighter version of the original color is **60, 47.738, 40.447**, and **20, 47.612, 39.762** is the 20% darker color. If you saturate the color by 10%, you get **38, 56.106, 41.637**, and if you desaturate by 10%, it is **43, 40.032, 39.547**.

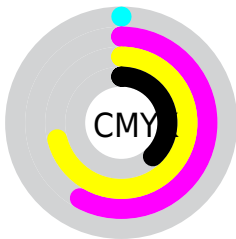
Distribution



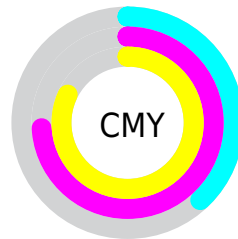
- Red (62%)
- Green (26%)
- Blue (18%)



- Red (62%)
- Yellow (28%)
- Blue (18%)



- Cyan (0%)
- Magenta (58%)
- Yellow (71%)
- Black (38%)



- Cyan (38%)
- Magenta (74%)
- Yellow (82%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 40, 48.071, 40.522 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, 48.071, 40.522 by changing the saturation by 10% instead.

■ 40, 48.071, 40.522

■ 40, 48.071, 40.522

■ 100, 48.071,
40.522

■ 30, 48.071, 40.522

■ 60, 48.071, 40.522

■ 20, 48.071, 40.522

■ 70, 48.071, 40.522

■ 10, 48.071, 40.522

■ 80, 48.071, 40.522

■ 0, 48.071, 40.522

■ 90, 48.071, 40.522

■ 40, 48.071, 40.522

■ 40, 48.071, 40.522

■ 38, 56.106, 41.637

■ 43, 40.032, 39.547

■ 35, 63.476, 42.557

■ 46, 32.298, 38.802

34, 69.034, 43.339

49, 25.001, 38.294

53, 18.198, 37.993

57, 11.893, 37.857

60, 6.068, 37.833

64, 0.688, 37.361

68, 4.288, 218.323

72, 8.904, 218.516

Harmonies

Complementary

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



40, 48.071, 40.522



53, 27.089, 224.325

Rectangle

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



40, 48.071, 40.522



40, 48.071, 90.522



40, 48.071, 220.522



40, 48.071, 270.522

Sweetspot

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



40, 48.069, 40.525



72, 14.491, 37.858



39, 61.544, 334.637



37, 9.887, 37.879



91, 0.011, 296.813



43, 0.006, 296.813

Same Dimension

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



40, 48.069, 40.525



47, 73.968, 42.277



53, 45.844, 82.918



31, 3.017, 37.832



31, 63.939, 43.258



2, 3.840, 36.938

Inverse Universe

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



53, 27.089, 224.325



65, 35.754, 228.389



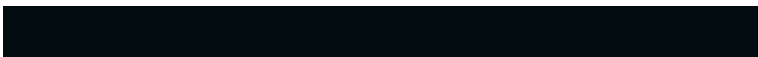
36, 47.648, 287.361



32, 2.851, 218.341



45, 28.353, 232.009



3, 3.755, 221.712

Previews

White Background



This preview shows how the CIELCh color 40, 48.071, 40.522 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 40, 48.071, 40.522 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, 48.071, 40.522

Background



This preview shows how black text looks on a background with the CIELCh color 40, 48.071, 40.522.

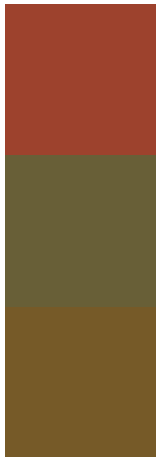


This preview shows how white text looks on a background with the CIELCh color 40, 48.071, 40.522.

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, 48.071, 40.522

Protanopia

40, 24.275, 96.200

Deuteranopia

40, 33.101, 80.396



Tritanopia
40, 43.749, 24.260

Trichromacy



Original Color
40, 48.071, 40.522

Protanomaly
39, 28.451, 64.281

Deuteranomaly
40, 35.923, 60.788

Tritanomaly
40, 45.071, 30.604

Monochromacy



Original Color
40, 48.071, 40.522

Achromatopsia
39, 0.005, 296.813

Achromatomaly
38, 16.184, 38.806

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 40, 48.071, 40.522 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(157, 66, 45)` looks like.

```
.text, #text, p{  
    color:rgb(157, 66, 45)  
}
```

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(157, 66, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(157, 66, 45) }
```

Border

The CSS property to change the border of an element to CIELCh 40, 48.071, 40.522 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(157, 66, 45) }
```

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

```
.border{ border-color:rgb(157, 66, 45) }
```

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

Here you see how a box with a 4 pixel `rgb(157, 66, 45)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(157, 66, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(157, 66, 45);  
box-shadow:4px 4px 4px 4px rgb(157, 66,  
45) }
```

Background

The CSS property to change the background color of an element to CIELCh 40, 48.071, 40.522 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(157, 66, 45) }
```

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

```
.background{ background-color: rgb(157, 66,  
45) }
```

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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