

Converting Colors

CIELCh(50, 49.170, 80.120)

Have a look what the booklet for
CIELCh(50, 49.170, 80.120) contains.

CIELCh(50, 49.364, 80.046)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(50, 49.364, 80.046)

Conversions

Conversions Part 1

Format	Color
Hex	99701E
RGB	153, 112, 30
RGB Percent	60%, 44%, 12%
CMY	0.4005, 0.5612, 0.8828
CMYK	0.00, 0.27, 0.80, 0.40
HSL	40°, 67%, 36%
HSV	40°, 80%, 60%
XYZ	19.1294, 18.4187, 3.7675
YIQ	114.9110, 50.7580, -16.8100

Conversions

Conversions Part 2

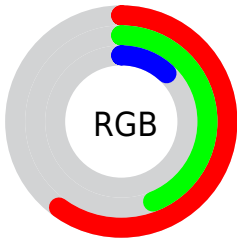
Format	Color
R_{YB}	92, 153, 30
Decimal	10055710
CIE Lab	50.00, 8.53, 48.62
CIE LCh	50, 49.364, 80.046
Yxy	18.4187, 0.4630, 0.4458
Android (android.graphics.Color)	4288245790 (0xFF99701E)
YUV	114.9110, -41.8611, 33.4041
Hunter-Lab	42.9170, 4.4582, 24.8370

Details

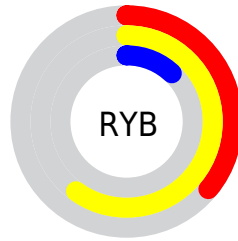
The CIELCh color **50, 49.364, 80.046** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **32, 51.810, 289.262**, and the grayscale version is **49, 0.006, 296.813**.

A 20% lighter version of the original color is **70, 49.530, 80.388**, and **30, 40.898, 76.260** is the 20% darker color. If you saturate the color by 10%, you get **49, 53.491, 78.143**, and if you desaturate by 10%, it is **51, 44.004, 81.691**.

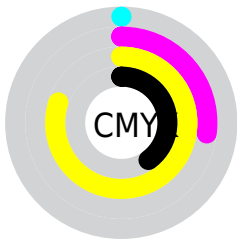
Distribution



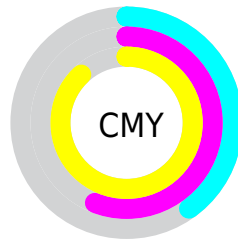
- Red (60%)
- Green (44%)
- Blue (12%)



- Red (36%)
- Yellow (60%)
- Blue (12%)



- Cyan (0%)
- Magenta (27%)
- Yellow (80%)
- Black (40%)



- Cyan (40%)
- Magenta (56%)
- Yellow (88%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 50, 49.364, 80.046 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 50, 49.364, 80.046 by changing the saturation by 10% instead.

■ 50, 49.364, 80.046

■ 50, 49.364, 80.046

■ 100, 49.364,
80.046

■ 40, 49.364, 80.046

■ 70, 49.364, 80.046

■ 30, 49.364, 80.046

■ 80, 49.364, 80.046

■ 20, 49.364, 80.046

■ 90, 49.364, 80.046

■ 10, 49.364, 80.046

■ 0, 49.364, 80.046

■ 50, 49.364, 80.046

■ 50, 49.364, 80.046

■ 49, 53.491, 78.143

■ 51, 44.004, 81.691

■ 47, 56.353, 76.112

■ 53, 37.969, 83.190

■ 55, 31.630, 84.611

■ 56, 25.206, 85.980

■ 58, 18.812, 87.310

■ 60, 12.509, 88.599

■ 61, 6.323, 89.839

■ 63, 0.263, 90.330

■ 65, 5.673, 272.284

Harmonies

Complementary

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



50, 49.364, 80.046



32, 51.810, 289.262

Rectangle

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



50, 49.364, 80.046



50, 49.364, 130.046



50, 49.364, 260.046



50, 49.364, 310.046

Sweetspot

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



50, 49.363, 80.049



75, 18.267, 88.085



34, 52.327, 8.308



39, 12.557, 87.663



90, 0.011, 296.813



42, 0.006, 296.813

Same Dimension

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



50, 49.363, 80.049



61, 67.611, 76.205



60, 61.231, 112.150



32, 3.417, 89.986



44, 52.926, 76.345



2, 3.629, 90.228

Inverse Universe

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



32, 51.810, 289.262



35, 78.940, 295.801



23, 77.432, 305.659



30, 3.417, 272.342



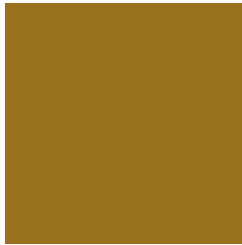
23, 61.249, 295.773



1, 3.693, 271.583

Previews

White Background



This preview shows how the CIELCh color 50, 49.364, 80.046 looks on a white 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

Black Background



This preview shows how the CIE LCh color 50, 49.364, 80.046 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 50, 49.364, 80.046

Background



This preview shows how black text looks on a background with the CIELCh color 50, 49.364, 80.046.



This preview shows how white text looks on a background with the CIELCh color 50, 49.364, 80.046.

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

50, 49.364, 80.046

Protanopia

50, 47.537, 95.783

Deuteranopia

50, 49.230, 82.376



Tritanopia
50, 23.237, 11.053

Trichromacy



Original Color
50, 49.364, 80.046

Protanomaly
50, 47.794, 89.842

Deuteranomaly
50, 49.438, 81.865

Tritanomaly
50, 27.386, 52.964

Monochromacy



Original Color
50, 49.364, 80.046

Achromatopsia
48, 0.006, 296.813

Achromatomaly
49, 18.820, 86.785

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 50, 49.364, 80.046 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(153, 112, 30)` looks like.

```
.text, #text, p{  
    color:rgb(153, 112, 30)  
}
```

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(153, 112, 30) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 112, 30) }
```

Border

The CSS property to change the border of an element to CIELCh 50, 49.364, 80.046 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(153, 112, 30) }
```

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

```
.border{ border-color:rgb(153, 112, 30) }
```

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

Here you see how a box with a 4 pixel `rgb(153, 112, 30)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 112, 30); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 112, 30);  
box-shadow:4px 4px 4px 4px rgb(153, 112,  
30) }
```

Background

The CSS property to change the background color of an element to CIELCh 50, 49.364, 80.046 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 112, 30) }
```

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

```
.background{ background-color: rgb(153,  
112, 30) }
```

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