

Converting Colors

CIELCh(37, 77.083, 38.069)

Have a look what the booklet for
CIELCh(37, 77.083, 38.069) contains.

CIELCh(37, 77.140, 37.967)	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(37, 77.140, 37.967)

Conversions

Conversions Part 1

Format	Color
Hex	B2040A
RGB	178, 4, 10
RGB Percent	70%, 2%, 4%
CMY	0.3028, 0.9861, 0.9615
CMYK	0.00, 0.98, 0.94, 0.30
HSL	358°, 96%, 36%
HSV	358°, 98%, 70%
XYZ	18.4037, 9.5379, 1.1532
YIQ	56.7100, 101.7780, 38.7540

Conversions

Conversions Part 2

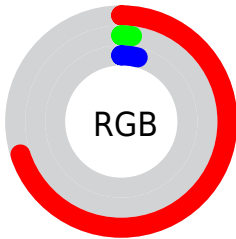
Format	Color
RYB	178, 4, 10
Decimal	11666442
CIELab	37.00, 60.81, 47.46
CIElCh	37, 77.140, 37.967
Yxy	9.5379, 0.6325, 0.3278
Android (android.graphics.Color)	4289856522 (0xFFB2040A)
YUV	56.7100, -23.0280, 106.3713
Hunter-Lab	30.8835, 52.3234, 19.4045

Details

The CIELCh color **37, 77.140, 37.967** is a dark color, and the websafe version is hex **990000**. A complement of this color would be **66, 39.198, 191.116**, and the grayscale version is **24, 0.004, 296.813**.

A 20% lighter version of the original color is **57, 77.114, 37.966**, and **22, 56.000, 37.374** is the 20% darker color. If you saturate the color by 10%, you get **37, 78.171, 38.489**, and if you desaturate by 10%, it is **38, 71.194, 34.549**.

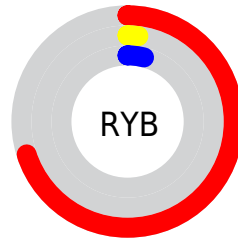
Distribution



Red (70%)

Green (2%)

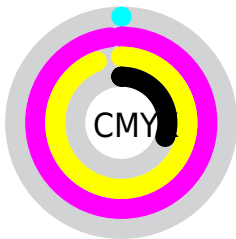
Blue (4%)



Red (70%)

Yellow (2%)

Blue (4%)

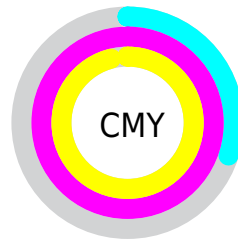


Cyan (0%)

Magenta (98%)

Yellow (94%)

Black (30%)



Cyan (30%)

Magenta (99%)

Yellow (96%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 37, 77.140, 37.967 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 37, 77.140, 37.967 by changing the saturation by 10% instead.

■ 37, 77.140, 37.967

■ 37, 77.140, 37.967

■ 100, 77.140,
37.967

■ 27, 77.140, 37.967

■ 57, 77.140, 37.967

■ 17, 77.140, 37.967

■ 67, 77.140, 37.967

■ 7, 77.140, 37.967

■ 77, 77.140, 37.967

■ 0, 77.140, 37.967

■ 87, 77.140, 37.967

■ 97, 77.140, 37.967

■ 37, 77.140, 37.967

■ 37, 77.140, 37.967

■ 37, 78.171, 38.489

■ 38, 71.194, 34.549

■ 40, 63.621, 30.661

■ 42, 55.226, 27.158

■ 46, 46.442, 24.280

■ 50, 37.587, 22.009

■ 54, 28.918, 20.242

■ 58, 20.619, 18.866

■ 63, 12.794, 17.779

■ 68, 5.484, 16.878

Harmonies

Complementary

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



37, 77.140, 37.967



66, 39.198, 191.116

Rectangle

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



37, 77.140, 37.967



37, 77.140, 87.967



37, 77.140, 217.967



37, 77.140, 267.967

Sweetspot

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



37, 77.137, 37.969



74, 26.652, 19.051



41, 87.973, 326.290



37, 18.698, 19.612



96, 0.011, 296.813



49, 0.007, 296.813

Same Dimension

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



37, 77.137, 37.969



48, 95.932, 38.902



46, 65.385, 57.144



35, 3.912, 16.992



31, 69.595, 38.071



2, 9.168, 17.088

Inverse Universe

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



37, 77.137, 37.969



48, 95.932, 38.902



42, 48.709, 277.674



35, 3.912, 16.992



31, 69.595, 38.071



2, 9.168, 17.088

Previews

White Background



This preview shows how the CIELCh color 37, 77.140, 37.967 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 ✓ Pass

Black Background



This preview shows how the CIELCh color 37, 77.140, 37.967 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 37, 77.140, 37.967

Background



This preview shows how black text looks on a background with the CIELCh color 37, 77.140, 37.967.



This preview shows how white text looks on a background with the CIELCh color 37, 77.140, 37.967.

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

37, 77.140, 37.967

Protanopia

38, 37.005, 95.600

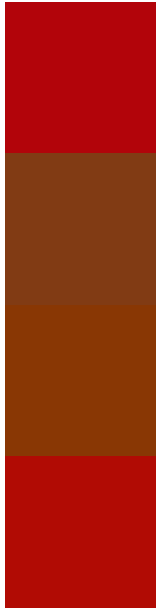
Deuteranopia

38, 46.190, 84.579



Tritanopia
37, 78.161, 41.063

Trichromacy



Original Color
37, 77.140, 37.967

Protanomaly
34, 45.848, 52.823

Deuteranomaly
34, 54.686, 53.170

Tritanomaly
37, 77.610, 39.748

Monochromacy



Original Color
37, 77.140, 37.967

Achromatopsia
24, 0.004, 296.813

Achromatomaly
24, 31.625, 25.004

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 37, 77.140, 37.967 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(178, 4, 10)` looks like.

```
.text, #text, p{  
  color:rgb(178, 4, 10)  
}
```

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(178, 4, 10) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 4, 10) }
```

Border

The CSS property to change the border of an element to CIELCh 37, 77.140, 37.967 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(178, 4, 10) }
```

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

```
.border{ border-color:rgb(178, 4, 10) }
```

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

Here you see how a box with a 4 pixel `rgb(178, 4, 10)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 4, 10); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 4, 10);  
box-shadow:4px 4px 4px 4px rgb(178, 4, 10)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 37, 77.140, 37.967 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 4, 10) }
```

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

```
.background{ background-color: rgb(178, 4,  
10) }
```

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