

Converting Colors

CIELCh(52, 100.041, 37.819)

Have a look what the booklet for
CIELCh(52, 100.041, 37.819)
contains.

CIELCh(52, 99.792, 37.838)	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(52, 99.792, 37.838)

Conversions

Conversions Part 1

Format	Color
Hex	F90012
RGB	249, 0, 18
RGB Percent	98%, 0%, 7%
CMY	0.0241, 1.0000, 0.9299
CMYK	0.00, 1.00, 0.93, 0.02
HSL	356°, 100%, 49%
HSV	356°, 100%, 98%
XYZ	39.1161, 20.1443, 2.3935
YIQ	76.5030, 142.6260, 58.3860

Conversions

Conversions Part 2

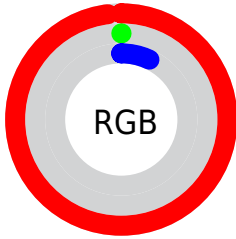
Format	Color
RYB	249, 0, 18
Decimal	16318482
CIELab	52.00, 78.81, 61.22
CIELCh	52, 99.792, 37.838
Yxy	20.1443, 0.6344, 0.3267
Android (android.graphics.Color)	4294508562 (0xFFFF90012)
YUV	76.5030, -28.8420, 151.2799
Hunter-Lab	44.8824, 77.0229, 28.2559

Details

The CIELCh color **52, 99.792, 37.838** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark saturated red. A complement of this color would be **89, 52.489, 185.802**, and the grayscale version is **33, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 75.920, 38.486**, and **38, 81.167, 39.990** is the 20% darker color. If you saturate the color by 10%, you get **52, 99.767, 37.854**, and if you desaturate by 10%, it is **53, 92.885, 34.094**.

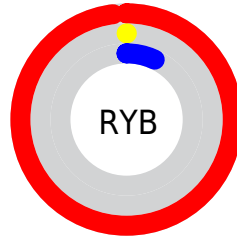
Distribution



Red (98%)

Green (0%)

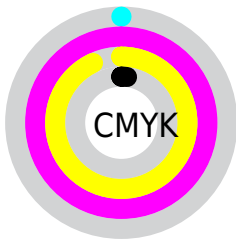
Blue (7%)



Red (98%)

Yellow (0%)

Blue (7%)

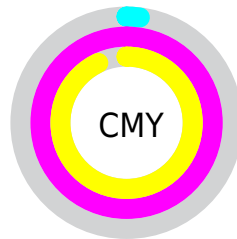


Cyan (0%)

Magenta (100%)

Yellow (93%)

Black (2%)



Cyan (2%)

Magenta (100%)

Yellow (93%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 52, 99.792, 37.838 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 52, 99.792, 37.838 by changing the saturation by 10% instead.

 52, 99.792, 37.838

 52, 99.792, 37.838

 100, 99.792,
37.838

 42, 99.792, 37.838

 72, 99.792, 37.838

 32, 99.792, 37.838

 82, 99.792, 37.838

 22, 99.792, 37.838

 92, 99.792, 37.838

 12, 99.792, 37.838

 2, 99.792, 37.838

 0, 99.792, 37.838

 52, 99.792, 37.838

 52, 99.792, 37.838

 52, 99.767, 37.854

 53, 92.885, 34.094

 55, 83.867, 29.765

■ 58, 73.628, 25.829

■ 62, 62.658, 22.582

■ 67, 51.361, 20.015

■ 72, 40.113, 18.012

■ 78, 29.212, 16.447

■ 85, 18.844, 15.205

■ 91, 9.100, 14.185

Harmonies

Complementary

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



52, 99.792, 37.838



89, 52.489, 185.802

Rectangle

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



52, 99.792, 37.838



52, 99.792, 87.838



52, 99.792, 217.838



52, 99.792, 267.838

Sweetspot

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



52, 99.767, 37.854



80, 29.799, 16.452



55, 114.054, 324.930



40, 20.596, 17.068



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



52, 99.767, 37.854



53, 101.689, 37.899



62, 87.583, 53.529



49, 5.182, 14.137



39, 80.406, 37.226



9, 31.694, 23.244

Inverse Universe

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



52, 99.767, 37.854



53, 101.689, 37.899



59, 60.779, 275.582



49, 5.182, 14.137



39, 80.406, 37.226



9, 31.694, 23.244

Previews

White Background



This preview shows how the CIELCh color 52, 99.792, 37.838 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 CIELCh color 52, 99.792, 37.838 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 52, 99.792, 37.838

Background



This preview shows how black text looks on a background with the CIELCh color 52, 99.792, 37.838.



This preview shows how white text looks on a background with the CIELCh color 52, 99.792, 37.838.

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

52, 99.792, 37.838

Protanopia

53, 46.891, 95.486

Deuteranopia

52, 58.737, 83.968



Tritanopia
52, 100.718, 40.837

Trichromacy



Original Color
52, 99.792, 37.838

Protanomaly
46, 59.429, 50.343

Deuteranomaly
47, 70.808, 51.995

Tritanomaly
52, 100.529, 39.678

Monochromacy



Original Color
52, 99.792, 37.838

Achromatopsia
32, 0.005, 296.813

Achromatomaly
34, 42.602, 23.056

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 52, 99.792, 37.838 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(249, 0, 18)` looks like.

```
.text, #text, p{  
    color:rgb(249, 0, 18)  
}
```

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(249, 0, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(249, 0, 18) }
```

Border

The CSS property to change the border of an element to CIELCh 52, 99.792, 37.838 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(249, 0, 18) }
```

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

```
.border{ border-color:rgb(249, 0, 18) }
```

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

Here you see how a box with a 4 pixel rgb(249, 0, 18) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(249, 0, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(249, 0, 18);  
box-shadow:4px 4px 4px 4px rgb(249, 0, 18)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 52, 99.792, 37.838 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(249, 0, 18) }
```

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

```
.background{ background-color: rgb(249, 0,  
18) }
```

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