

Converting Colors

CIELCh(51, 100.102, 40.299)

Have a look what the booklet for
CIELCh(51, 100.102, 40.299)
contains.

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Color

CIELCh(51, 100.219, 40.372)

Conversions

Conversions Part 1

Format	Color
Hex	F30B00
RGB	243, 11, 0
RGB Percent	95%, 4%, 0%
CMY	0.0478, 0.9551, 1.0000
CMYK	0.00, 0.95, 1.00, 0.05
HSL	3°, 100%, 48%
HSV	3°, 100%, 95%
XYZ	37.0191, 19.2686, 1.7633
YIQ	79.1140, 141.8030, 45.7630

Conversions

Conversions Part 2

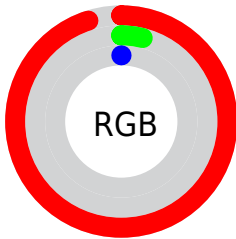
Format	Color
R_{YB}	243, 12, 0
Decimal	15928064
CIE _{Lab}	51.00, 76.35, 64.92
CIE _{LCh}	51, 100.219, 40.372
Yxy	19.2686, 0.6377, 0.3319
Android (android.graphics.Color)	4294118144 (0xFFFF30B00)
YUV	79.1140, -39.0032, 143.7280
Hunter-Lab	43.8960, 73.7175, 28.3455

Details

The CIELCh color **51, 100.219, 40.372** 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 **84, 45.291, 204.324**, and the grayscale version is **34, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 78.612, 41.768**, and **36, 79.131, 39.953** is the 20% darker color. If you saturate the color by 10%, you get **51, 100.187, 40.354**, and if you desaturate by 10%, it is **52, 93.894, 38.458**.

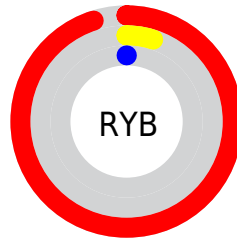
Distribution



Red (95%)

Green (4%)

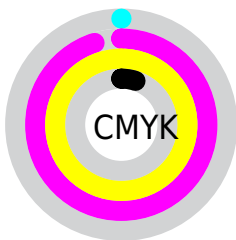
Blue (0%)



Red (95%)

Yellow (5%)

Blue (0%)

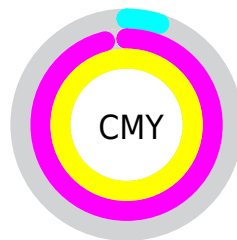


Cyan (0%)

Magenta (95%)

Yellow (100%)

Black (5%)



Cyan (5%)


Magenta (96%)


Yellow (100%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 51, 100.219, 40.372 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 51, 100.219, 40.372 by changing the saturation by 10% instead.


 51, 100.219,
40.372


 51, 100.219,
40.372


 100, 100.219,
40.372


 41, 100.219,
40.372


 71, 100.219,
40.372

 31, 100.219,
40.372

 81, 100.219,
40.372

 21, 100.219,
40.372

 91, 100.219,
40.372

 11, 100.219,
40.372

 1, 100.219, 40.372

 0, 100.219, 40.372

■ 51, 100.219,
40.372

■ 51, 100.219,
40.372

■ 51, 100.187,
40.354

■ 52, 93.894, 38.458

■ 54, 84.219, 35.651

■ 57, 72.954, 32.733

■ 61, 61.215, 30.215

■ 66, 49.550, 28.206

■ 72, 38.293, 26.662

■ 77, 27.644, 25.496

■ 83, 17.704, 24.617

■ 89, 8.498, 23.934

Harmonies

Complementary

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



51, 100.219, 40.372



84, 45.291, 204.324

Rectangle

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



51, 100.219, 40.372



51, 100.219, 90.372



51, 100.219, 220.372



51, 100.219, 270.372

Sweetspot

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



51, 100.187, 40.354



81, 28.773, 25.504



57, 108.439, 329.627



40, 19.956, 25.958



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



51, 100.187, 40.354



54, 104.008, 40.334



66, 81.344, 62.719



48, 4.851, 23.902



39, 81.896, 40.491



9, 30.018, 27.509

Inverse Universe

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



84, 45.291, 204.324



88, 46.996, 204.347



50, 75.659, 287.963



50, 4.563, 203.248



66, 37.139, 204.185



21, 16.639, 203.090

Previews

White Background



This preview shows how the CIE LCh color 51, 100.219, 40.372 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 51, 100.219, 40.372 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 51, 100.219, 40.372

Background



This preview shows how black text looks on a background with the CIELCh color 51, 100.219, 40.372.



This preview shows how white text looks on a background with the CIELCh color 51, 100.219, 40.372.

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

51, 100.273, 40.338

Protanopia

51, 49.202, 95.422

Deuteranopia

51, 57.956, 84.152



Tritanopia
51, 98.874, 40.828

Trichromacy



Original Color
51, 100.273, 40.338

Protanomaly
46, 61.105, 55.068

Deuteranomaly
47, 70.066, 54.634

Tritanomaly
51, 99.514, 40.618

Monochromacy



Original Color
51, 100.273, 40.338

Achromatopsia
34, 0.005, 296.813

Achromatomaly
35, 41.697, 30.440

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 51, 100.219, 40.372 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(243, 11, 0)` looks like.

```
.text, #text, p{  
    color:rgb(243, 11, 0)  
}
```

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(243, 11, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(243, 11, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 51, 100.219, 40.372 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(243, 11, 0) }
```

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

```
.border{ border-color:rgb(243, 11, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(243, 11, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(243, 11, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(243, 11, 0);  
box-shadow:4px 4px 4px 4px rgb(243, 11, 0)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 51, 100.219, 40.372 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(243, 11, 0) }
```

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

```
.background{ background-color: rgb(243, 11,  
0) }
```

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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