

Converting Colors

CIELCh(38, 75.861, 37.626)

Have a look what the booklet for
CIELCh(38, 75.861, 37.626) contains.

CIELCh(38, 75.849, 37.633)	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(38, 75.849, 37.633)

Conversions

Conversions Part 1

Format	Color
Hex	B40F0F
RGB	180, 15, 15
RGB Percent	71%, 6%, 6%
CMY	0.2939, 0.9407, 0.9410
CMYK	0.00, 0.92, 0.92, 0.29
HSL	0°, 85%, 38%
HSV	0°, 92%, 71%
XYZ	19.0923, 10.0881, 1.3942
YIQ	64.3350, 98.3400, 34.9800

Conversions

Conversions Part 2

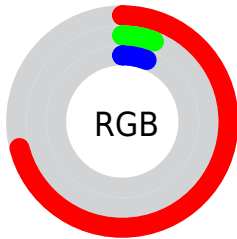
Format	Color
R _Y B	180, 15, 15
Decimal	11800335
CIE Lab	38.00, 60.07, 46.31
CIE LCh	38, 75.849, 37.633
Yxy	10.0881, 0.6245, 0.3299
Android (android.graphics.Color)	4289990415 (0xFFB40F0F)
YUV	64.3350, -24.3222, 101.4382
Hunter-Lab	31.7617, 51.7155, 19.6306

Details

The CIELCh color **38, 75.849, 37.633** is a dark color, and the websafe version is hex **990000**. A complement of this color would be **67, 38.037, 196.498**, and the grayscale version is **27, 0.004, 296.813**.

A 20% lighter version of the original color is **58, 75.912, 37.760**, and **23, 56.829, 37.552** is the 20% darker color. If you saturate the color by 10%, you get **37, 80.502, 39.986**, and if you desaturate by 10%, it is **39, 68.645, 34.253**.

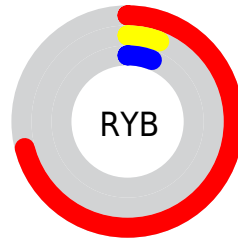
Distribution



Red (71%)

Green (6%)

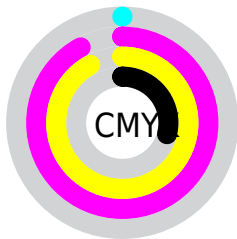
Blue (6%)



Red (71%)

Yellow (6%)

Blue (6%)

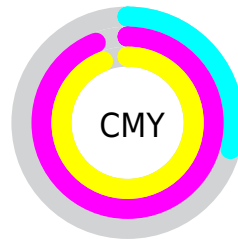


Cyan (0%)

Magenta (92%)

Yellow (92%)

Black (29%)



Cyan (29%)

Magenta (94%)

Yellow (94%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 38, 75.849, 37.633 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 38, 75.849, 37.633 by changing the saturation by 10% instead.

■ 38, 75.849, 37.633

■ 38, 75.849, 37.633

■ 100, 75.849,
37.633

■ 28, 75.849, 37.633

■ 58, 75.849, 37.633

■ 18, 75.849, 37.633

■ 68, 75.849, 37.633

■ 8, 75.849, 37.633

■ 78, 75.849, 37.633

■ 0, 75.849, 37.633

■ 88, 75.849, 37.633

■ 98, 75.849, 37.633

■ 38, 75.849, 37.633

■ 38, 75.849, 37.633

■ 37, 80.502, 39.986

■ 39, 68.645, 34.253

42, 60.072, 30.787

45, 50.951, 27.795

49, 41.707, 25.397

53, 32.641, 23.537

57, 23.960, 22.108

62, 15.786, 21.006

67, 8.171, 20.136

72, 1.113, 19.088

Harmonies

Complementary

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



38, 75.849, 37.633



67, 38.037, 196.498

Rectangle

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



38, 75.849, 37.633



38, 75.849, 87.633



38, 75.849, 217.633



38, 75.849, 267.633

Sweetspot

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



38, 75.846, 37.635



76, 24.959, 21.612



43, 87.279, 328.166



38, 17.013, 22.004



96, 0.011, 296.813



49, 0.007, 296.813

Same Dimension

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



38, 75.846, 37.635



49, 98.176, 40.004



50, 61.741, 62.691



35, 3.909, 19.953



31, 70.923, 39.534



2, 9.152, 19.437

Inverse Universe

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



67, 38.037, 196.498



85, 47.016, 196.465



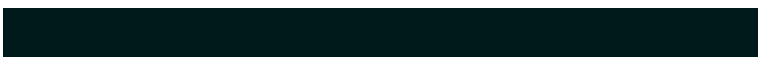
41, 50.857, 280.309



37, 3.689, 199.031



57, 34.202, 196.463



7, 9.130, 199.168

Previews

White Background



This preview shows how the CIELCh color 38, 75.849, 37.633 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 CIELCh color 38, 75.849, 37.633 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 38, 75.849, 37.633

Background



This preview shows how black text looks on a background with the CIELCh color 38, 75.849, 37.633.



This preview shows how white text looks on a background with the CIELCh color 38, 75.849, 37.633.

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

38, 75.849, 37.633

Protanopia

39, 36.006, 96.465

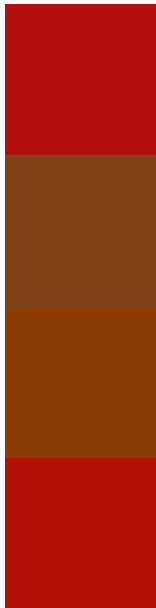
Deuteranopia

39, 46.832, 84.911



Tritanopia
38, 78.202, 40.135

Trichromacy



Original Color
38, 75.849, 37.633

Protanomaly
35, 43.661, 54.192

Deuteranomaly
36, 54.020, 55.636

Tritanomaly
38, 77.297, 39.279

Monochromacy



Original Color
38, 75.849, 37.633

Achromatopsia
27, 0.004, 296.813

Achromatomaly
27, 29.810, 25.854

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 38, 75.849, 37.633 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(180, 15, 15)` looks like.

```
.text, #text, p{  
    color:rgb(180, 15, 15)  
}
```

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(180, 15, 15) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 15, 15) }
```

Border

The CSS property to change the border of an element to CIELCh 38, 75.849, 37.633 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(180, 15, 15) }
```

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

```
.border{ border-color:rgb(180, 15, 15) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 15, 15)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 15, 15); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 15, 15);  
box-shadow:4px 4px 4px 4px rgb(180, 15,  
15) }
```

Background

The CSS property to change the background color of an element to CIELCh 38, 75.849, 37.633 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 15, 15) }
```

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

```
.background{ background-color: rgb(180, 15,  
15) }
```

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