

Converting Colors

CIELCh(38, 58.242, 20.640)

Have a look what the booklet for
CIELCh(38, 58.242, 20.640) contains.

CIELCh(38, 58.223, 20.909)	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, 58.223, 20.909)

Conversions

Conversions Part 1

Format	Color
Hex	AA233B
RGB	170, 35, 59
RGB Percent	67%, 14%, 23%
CMY	0.3328, 0.8621, 0.7683
CMYK	0.00, 0.79, 0.65, 0.33
HSL	349°, 66%, 40%
HSV	349°, 79%, 67%
XYZ	18.0030, 10.0881, 5.1491
YIQ	78.1010, 72.7560, 36.0840

Conversions

Conversions Part 2

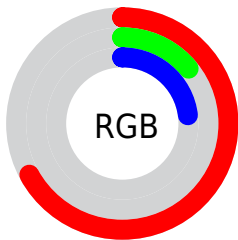
Format	Color
R _Y B	170, 35, 59
Decimal	11150139
CIE Lab	38.00, 54.39, 20.78
CIE LCh	38, 58.223, 20.909
Yxy	10.0881, 0.5416, 0.3035
Android (android.graphics.Color)	4289340219 (0xFFAA233B)
YUV	78.1010, -9.4168, 80.5954
Hunter-Lab	31.7617, 45.5932, 12.6214

Details

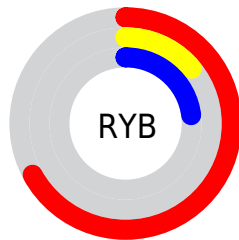
The CIELCh color **38, 58.223, 20.909** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **63, 40.457, 176.581**, and the grayscale version is **33, 0.005, 296.813**.

A 20% lighter version of the original color is **58, 58.286, 20.791**, and **21, 49.937, 29.268** is the 20% darker color. If you saturate the color by 10%, you get **36, 63.975, 25.508**, and if you desaturate by 10%, it is **40, 51.629, 17.095**.

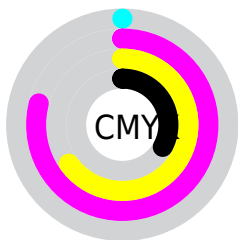
Distribution



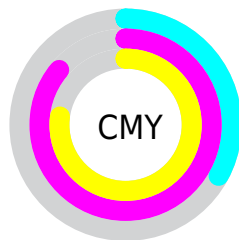
- Red (67%)
- Green (14%)
- Blue (23%)



- Red (67%)
- Yellow (14%)
- Blue (23%)



- Cyan (0%)
- Magenta (79%)
- Yellow (65%)
- Black (33%)



- Cyan (33%)
- Magenta (86%)
- Yellow (77%)
- Black (0%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 38, 58.223, 20.909 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, 58.223, 20.909 by changing the saturation by 10% instead.

■ 38, 58.223, 20.909

■ 38, 58.223, 20.909

■ 100, 58.223,
20.909

■ 28, 58.223, 20.909

■ 58, 58.223, 20.909

■ 18, 58.223, 20.909

■ 68, 58.223, 20.909

■ 8, 58.223, 20.909

■ 78, 58.223, 20.909

■ 0, 58.223, 20.909

■ 88, 58.223, 20.909

■ 98, 58.223, 20.909

■ 38, 58.223, 20.909

■ 38, 58.223, 20.909

■ 36, 63.975, 25.508

■ 40, 51.629, 17.095

35, 69.082, 30.451

44, 44.347, 14.041

35, 69.429, 30.750

47, 36.640, 11.623

51, 28.794, 9.699

56, 21.039, 8.146

60, 13.531, 6.865

65, 6.360, 5.768

70, 0.438, 185.988

75, 6.857, 184.232

Harmonies

Complementary

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



38, 58.223, 20.909



63, 40.457, 176.581

Rectangle

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



38, 58.223, 20.909



38, 58.223, 70.909



38, 58.223, 200.909



38, 58.223, 250.909

Sweetspot

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



38, 58.220, 20.911



74, 21.115, 7.489



38, 78.903, 321.887



37, 14.744, 7.948



95, 0.011, 296.813



47, 0.006, 296.813

Same Dimension

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



38, 58.220, 20.911



47, 82.510, 29.271



44, 54.665, 49.922



33, 3.821, 5.762



30, 62.256, 30.079



1, 6.751, 6.925

Inverse Universe

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



38, 58.220, 20.911



47, 82.510, 29.271



50, 32.255, 249.403



33, 3.821, 5.762



30, 62.256, 30.079



1, 6.751, 6.925

Previews

White Background



This preview shows how the CIELCh color 38, 58.223, 20.909 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, 58.223, 20.909 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

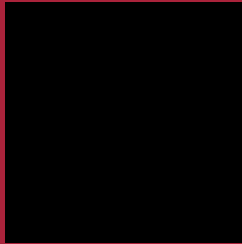
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 38, 58.223, 20.909

Background



This preview shows how black text looks on a background with the CIELCh color 38, 58.223, 20.909.



This preview shows how white text looks on a background with the CIELCh color 38, 58.223, 20.909.

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, 58.223, 20.909

Protanopia

38, 5.922, 87.423

Deuteranopia

39, 24.526, 78.035



Tritanopia
38, 61.180, 31.959

Trichromacy



Original Color
38, 58.223, 20.909

Protanomaly
36, 23.981, 19.146

Deuteranomaly
37, 33.428, 37.623

Tritanomaly
38, 59.597, 28.177

Monochromacy



Original Color
38, 58.223, 20.909

Achromatopsia
33, 0.005, 296.813

Achromatomaly
33, 23.353, 10.145

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 38, 58.223, 20.909 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(170, 35, 59)` looks like.

```
.text, #text, p{  
    color:rgb(170, 35, 59)  
}
```

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(170, 35, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 35, 59) }
```

Border

The CSS property to change the border of an element to CIELCh 38, 58.223, 20.909 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(170, 35, 59) }
```

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

```
.border{ border-color:rgb(170, 35, 59) }
```

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

Here you see how a box with a 4 pixel rgb(170, 35, 59) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 35, 59); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 35, 59);  
box-shadow:4px 4px 4px 4px rgb(170, 35,  
59) }
```

Background

The CSS property to change the background color of an element to CIELCh 38, 58.223, 20.909 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 35, 59) }
```

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

```
.background{ background-color: rgb(170, 35,  
59) }
```

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