

Converting Colors

CIELCh(38, 1.091, 110.009)

Have a look what the booklet for
CIELCh(38, 1.091, 110.009) contains.

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Color

CIELCh(38, 1.221, 109.953)

Conversions

Conversions Part 1

Format	Color
Hex	5A5A58
RGB	90, 90, 88
RGB Percent	35%, 35%, 35%
CMY	0.6488, 0.6488, 0.6566
CMYK	0.00, 0.00, 0.02, 0.65
HSL	60°, 1%, 35%
HSV	60°, 2%, 35%
XYZ	9.5370, 10.0881, 10.5829
YIQ	89.7720, 0.6420, -0.6220

Conversions

Conversions Part 2

Format	Color
R _Y B	88, 90, 88
Decimal	5921368
CIE Lab	38.00, -0.42, 1.15
CIE LCh	38, 1.221, 109.953
Yxy	10.0881, 0.3157, 0.3340
Android (android.graphics.Color)	4284111448 (0xFF5A5A58)
YUV	89.7720, -0.8736, 0.2000
Hunter-Lab	31.7617, -1.9853, 2.4778

Details

The CIELCh color **38, 1.221, 109.953** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **37, 1.238, 290.440**, and the grayscale version is **38, 0.005, 296.813**.

A 20% lighter version of the original color is **58, 1.127, 110.003**, and **18, 1.370, 109.817** is the 20% darker color. If you saturate the color by 10%, you get **38, 6.709, 109.126**, and if you desaturate by 10%, it is **38, 4.279, 290.895**.

Distribution



Red (35%)

Green (35%)

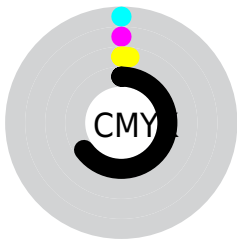
Blue (35%)



Red (35%)

Yellow (35%)

Blue (35%)

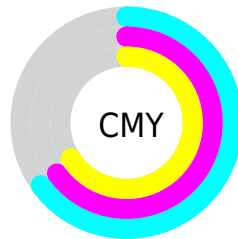


Cyan (0%)

Magenta (0%)

Yellow (2%)

Black (65%)



Cyan (65%)

Magenta (65%)

Yellow (66%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 38, 1.221, 109.953 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, 1.221, 109.953 by changing the saturation by 10% instead.

■ 38, 1.221, 109.953 ■ 38, 1.221, 109.953

100, 1.221,
109.953 ■ 28, 1.221, 109.953

■ 58, 1.221, 109.953 ■ 18, 1.221, 109.953

■ 68, 1.221, 109.953 ■ 8, 1.221, 109.953

■ 78, 1.221, 109.953 ■ 0, 1.221, 109.953

■ 88, 1.221, 109.953

■ 98, 1.221, 109.953

■ 38, 1.221, 109.953 ■ 38, 1.221, 109.953

■ 38, 6.709, 109.126 ■ 38, 4.279, 290.895

■ 38, 12.160,
108.235

■ 39, 9.776, 291.736

■ 37, 17.538,
107.347

■ 39, 15.259,
292.551

■ 37, 22.792,
106.478

■ 39, 20.719,
293.334

■ 37, 27.842,
105.646

■ 40, 26.149,
294.082

■ 37, 32.571,
104.876

■ 40, 31.543,
294.794

■ 37, 36.815,
104.196

■ 41, 36.898,
295.467

■ 37, 40.365,
103.638

■ 41, 42.209,
296.104

■ 37, 43.077,
103.220

■ 42, 47.472,
296.703

Harmonies

Complementary

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



38, 1.221, 109.953



37, 1.238, 290.440

Rectangle

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



38, 1.221, 109.953



38, 1.221, 159.953



38, 1.221, 289.953



38, 1.221, 339.953

Sweetspot

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



38, 1.222, 109.988



49, 0.680, 110.059



37, 0.852, 19.167



25, 0.382, 110.061



76, 0.009, 296.813



25, 0.004, 296.813

Same Dimension

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



38, 1.222, 109.988



49, 2.054, 109.920



38, 1.299, 129.031



19, 1.254, 109.883



45, 52.043, 102.904



91, 91.732, 102.907

Inverse Universe

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



37, 1.238, 290.440



48, 2.079, 290.511



37, 1.313, 309.107



18, 1.269, 290.549



10, 71.856, 306.292



30, 126.660, 306.289

Previews

White Background



This preview shows how the CIELCh color 38, 1.221, 109.953 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 CIE LCh color 38, 1.221, 109.953 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

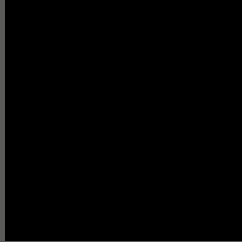
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

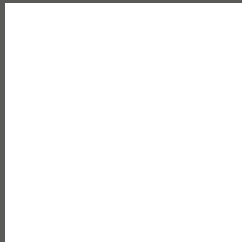
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 38, 1.221, 109.953

Background



This preview shows how black text looks on a background with the CIELCh color 38, 1.221, 109.953.

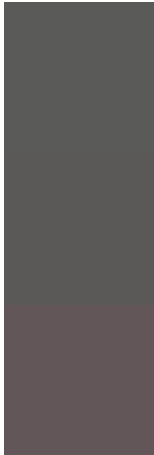


This preview shows how white text looks on a background with the CIELCh color 38, 1.221, 109.953.

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, 1.221, 109.953

Protanopia

38, 1.486, 74.790

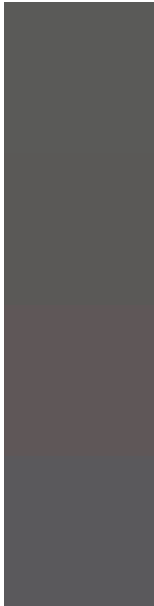
Deuteranopia

38, 5.325, 6.829



Tritanopia
38, 4.507, 306.851

Trichromacy



Original Color

38, 1.221, 109.953

Protanomaly

38, 1.292, 90.644

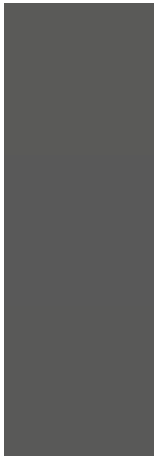
Deuteranomaly

38, 3.494, 9.713

Tritanomaly

38, 1.902, 303.192

Monochromacy



Original Color

38, 1.221, 109.953

Achromatopsia

38, 0.005, 296.813

Achromatomaly

38, 0.609, 110.021

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 38, 1.221, 109.953 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(90, 90, 88)` looks like.

```
.text, #text, p{  
    color:rgb(90, 90, 88)  
}
```

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(90, 90, 88) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 90, 88) }
```

Border

The CSS property to change the border of an element to CIELCh 38, 1.221, 109.953 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(90, 90, 88) }
```

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

```
.border{ border-color:rgb(90, 90, 88) }
```

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

Here you see how a box with a 4 pixel `rgb(90, 90, 88)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 90, 88); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 90, 88);  
box-shadow:4px 4px 4px 4px rgb(90, 90, 88)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 38, 1.221, 109.953 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 90, 88) }
```

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

```
.background{ background-color: rgb(90, 90,  
88) }
```

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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