

# Converting Colors

CIELCh(38, 55.129, 1.391)

Have a look what the booklet for  
CIELCh(38, 55.129, 1.391) contains.

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# Color

**CIELCh(38, 55.228, 1.624)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A62459
RGB	166, 36, 89
RGB Percent	65%, 14%, 35%
CMY	0.3491, 0.8588, 0.6510
CMYK	0.00, 0.78, 0.46, 0.35
HSL	336°, 64%, 40%
HSV	336°, 78%, 65%
XYZ	18.1570, 10.0881, 10.4395
YIQ	80.9120, 60.4670, 44.0430

# Conversions

## Conversions Part 2

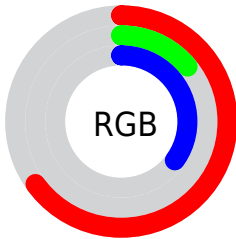
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	166, 36, 89
Decimal	10888281
CIE Lab	38.00, 55.21, 1.57
CIE LCh	38, 55.228, 1.624
Yxy	10.0881, 0.4694, 0.2608
Android (android.graphics.Color)	4289078361 (0xFFA62459)
YUV	80.9120, 3.9874, 74.6222
Hunter-Lab	31.7617, 46.4592, 2.7457

# Details

The CIELCh color **38, 55.228, 1.624** is a dark color, and the websafe version is hex **993366**. A complement of this color would be **61, 50.059, 159.016**, and the grayscale version is **34, 0.005, 296.813**.

A 20% lighter version of the original color is **58, 55.194, 1.341**, and **21, 44.872, 8.198** is the 20% darker color. If you saturate the color by 10%, you get **36, 58.723, 5.280**, and if you desaturate by 10%, it is **40, 50.262, 358.735**.

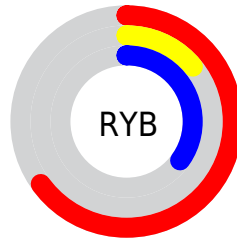
# Distribution



Red (65%)

Green (14%)

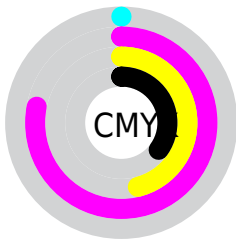
Blue (35%)



Red (65%)

Yellow (14%)

Blue (35%)

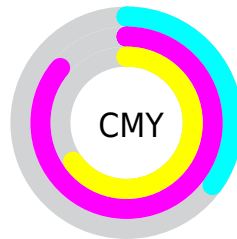


Cyan (0%)

Magenta (78%)

Yellow (46%)

Black (35%)



Cyan (35%)

Magenta (86%)

Yellow (65%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 38, 55.228, 1.624 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, 55.228, 1.624 by changing the saturation by 10% instead.



 38, 55.228, 1.624       38, 55.228, 1.624

 100, 55.228, 1.624       28, 55.228, 1.624

 58, 55.228, 1.624       18, 55.228, 1.624



 68, 55.228, 1.624       8, 55.228, 1.624

 78, 55.228, 1.624       0, 55.228, 1.624

 88, 55.228, 1.624

 98, 55.228, 1.624

 38, 55.228, 1.624       38, 55.228, 1.624

 36, 58.723, 5.280       40, 50.262,  
358.735

 35, 60.989, 9.715

35, 61.379, 10.470

43, 44.064,  
356.440

47, 36.992,  
354.585

51, 29.411,  
353.052

55, 21.620,  
351.755

60, 13.834,  
350.630

64, 6.191, 349.617

69, 1.229, 169.118

74, 8.387, 168.068

# Harmonies

# Complementary

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



38, 55.228, 1.624



61, 50.059, 159.016

# Rectangle

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



38, 55.228, 1.624



38, 55.228, 51.624



38, 55.228, 181.624



38, 55.228, 231.624

# Sweetspot

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



38, 55.225, 1.625



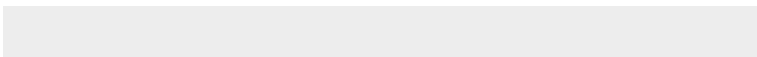
73, 21.721, 351.187



33, 77.705, 314.820



37, 15.207, 351.589



94, 0.011, 296.813



46, 0.006, 296.813



# Same Dimension

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



38, 55.225, 1.625



47, 73.678, 8.571



38, 59.351, 36.058



33, 4.269, 349.714



31, 56.354, 9.930



2, 7.418, 352.530





# Inverse Universe

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



38, 55.225, 1.625



47, 73.678, 8.571



59, 31.214, 208.313



33, 4.269, 349.714



31, 56.354, 9.930



2, 7.418, 352.530



# Previews

## White Background



This preview shows how the CIELCh color 38, 55.228, 1.624 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, 55.228, 1.624 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, 55.228, 1.624

## Background



This preview shows how black text looks on a background with the CIELCh color 38, 55.228, 1.624.



This preview shows how white text looks on a background with the CIELCh color 38, 55.228, 1.624.

# 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, 55.228, 1.624

### Protanopia

39, 18.535, 284.080

### Deuteranopia

38, 7.090, 40.307



**Tritanopia**  
38, 54.903, 29.386



# Trichromacy



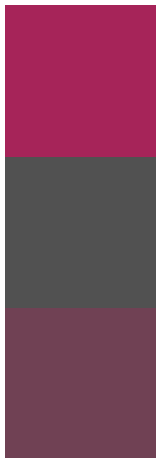
**Original Color**  
38, 55.228, 1.624

**Protanomaly**  
36, 29.263, 329.150

**Deuteranomaly**  
36, 26.673, 1.591

**Tritanomaly**  
38, 53.510, 19.094

# Monochromacy



**Original Color**  
38, 55.228, 1.624

**Achromatopsia**  
34, 0.005, 296.813

**Achromatomaly**  
34, 23.311, 353.581

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 38, 55.228, 1.624 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(166, 36, 89)` looks like.

```
.text, #text, p{  
    color:rgb(166, 36, 89)  
}
```

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(166, 36, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(166, 36, 89) }
```

## Border

The CSS property to change the border of an element to CIELCh 38, 55.228, 1.624 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(166, 36, 89) }
```

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

```
.border{ border-color:rgb(166, 36, 89) }
```

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

Here you see how a box with a 4 pixel rgb(166, 36, 89) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(166, 36, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(166, 36, 89);  
box-shadow:4px 4px 4px 4px rgb(166, 36,  
89) }
```

# Background

The CSS property to change the background color of an element to CIELCh 38, 55.228, 1.624 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(166, 36, 89) }
```

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

```
.background{ background-color: rgb(166, 36,  
89) }
```

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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