

# Converting Colors

CIELCh(55, 42.716, 320.857)

Have a look what the booklet for  
CIELCh(55, 42.716, 320.857)  
contains.

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# Color

**CIELCh(55, 42.700, 320.620)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A670B3
RGB	166, 112, 179
RGB Percent	65%, 44%, 70%
CMY	0.3492, 0.5610, 0.2983
CMYK	0.07, 0.37, 0.00, 0.30
HSL	288°, 31%, 57%
HSV	288°, 37%, 70%
XYZ	29.6333, 22.9298, 45.4820
YIQ	135.7840, 10.6770, 32.2850

# Conversions

## Conversions Part 2

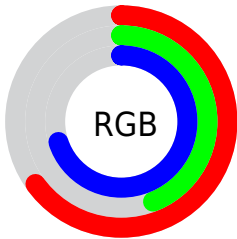
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	166, 112, 179
Decimal	10907827
CIE Lab	55.00, 33.01, -27.09
CIE LCh	55, 42.700, 320.620
Yxy	22.9298, 0.3022, 0.2339
Android (android.graphics.Color)	4289097907 (0xFFA670B3)
YUV	135.7840, 21.3055, 26.4994
Hunter-Lab	47.8851, 26.6642, -22.7950

# Details

The CIELCh color  $55, 42.700, 320.620$  is a light color, and the websafe version is hex  $996699$ . A complement of this color would be  $68, 42.040, 136.937$ , and the grayscale version is  $57, 0.007, 296.813$ .

A 20% lighter version of the original color is  $75, 42.489, 320.574$ , and  $35, 42.424, 320.659$  is the 20% darker color. If you saturate the color by 10%, you get  $51, 53.776, 321.003$ , and if you desaturate by 10%, it is  $60, 31.281, 320.194$ .

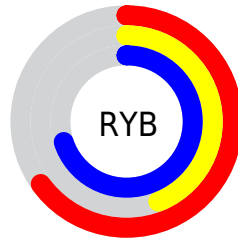
# Distribution



Red (65%)

Green (44%)

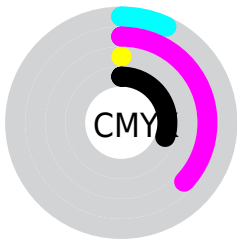
Blue (70%)



Red (65%)

Yellow (44%)

Blue (70%)

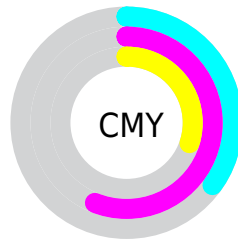


Cyan (7%)

Magenta (37%)

Yellow (0%)

Black (30%)



Cyan (35%)

Magenta (56%)


Yellow (30%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 55, 42.700, 320.620 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 55, 42.700, 320.620 by changing the saturation by 10% instead.





 55, 42.700,  
320.620


 55, 42.700,  
320.620


 100, 42.700,  
320.620


 45, 42.700,  
320.620


 75, 42.700,  
320.620

 35, 42.700,  
320.620

 85, 42.700,  
320.620

 25, 42.700,  
320.620

 95, 42.700,  
320.620

 15, 42.700,  
320.620

 5, 42.700, 320.620

 0, 42.700, 320.620

55, 42.700,  
320.620

55, 42.700,  
320.620

51, 53.776,  
321.003

60, 31.281,  
320.194

47, 64.154,  
321.312

64, 19.781,  
319.748

43, 73.373,  
321.510

69, 8.371, 319.291

40, 80.917,  
321.553

74, 2.841, 138.950

38, 86.330,  
321.399

79, 13.791,  
138.482

37, 89.507,  
321.032

84, 24.447,  
138.086

36, 90.196,  
320.930

89, 34.796,  
137.721

94, 44.774,  
137.378

■ 95, 44.142,  
136.080

# Harmonies

# Complementary

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



55, 42.700, 320.620



68, 42.040, 136.937

# Rectangle

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



55, 42.700, 320.620



55, 42.700, 10.620



55, 42.700, 140.620



55, 42.700, 190.620

# Sweetspot

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



55, 42.698, 320.620



85, 15.340, 319.464



53, 31.100, 285.956



45, 10.402, 319.525



96, 0.011, 296.813



49, 0.007, 296.813





# Same Dimension

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



55, 42.698, 320.620



66, 63.109, 320.943



56, 36.398, 337.032



35, 6.371, 319.379



31, 80.329, 321.013



2, 14.961, 316.531



# Inverse Universe

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



55, 28.524, 8.140



65, 42.875, 9.653



68, 35.988, 151.123



35, 4.035, 4.494



31, 63.234, 29.023

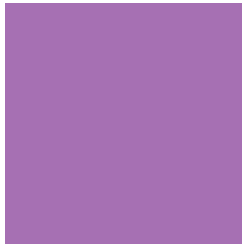


2, 9.397, 7.146



# Previews

## White Background



This preview shows how the CIELCh color 55, 42.700, 320.620 looks on a white background.

## Color Contrast Check

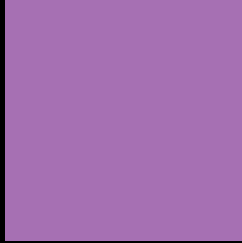
Large Text (above 18pt) WCAG AA ✓ Pass

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 55, 42.700, 320.620 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

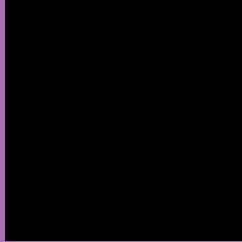
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 55, 42.700, 320.620

## Background



This preview shows how black text looks on a background with the CIELCh color 55, 42.700, 320.620.



This preview shows how white text looks on a background with the CIELCh color 55, 42.700, 320.620.

# 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

55, 42.700, 320.620

### Protanopia

55, 36.362, 285.206

### Deuteranopia

55, 26.493, 286.783





**Tritanopia**  
55, 15.850, 2.397

# Trichromacy



**Original Color**  
55, 42.700, 320.620

**Protanomaly**  
55, 37.589, 298.449

**Deuteranomaly**  
55, 31.582, 302.485

**Tritanomaly**  
55, 24.132, 336.976

# Monochromacy



**Original Color**  
55, 42.700, 320.620

**Achromatopsia**  
57, 0.007, 296.813

**Achromatomaly**  
56, 16.292, 319.513

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 55, 42.700, 320.620 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, 112, 179)` looks like.

```
.text, #text, p{  
    color:rgb(166, 112, 179)  
}
```

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, 112, 179) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(166, 112, 179) }
```

## Border

The CSS property to change the border of an element to CIELCh 55, 42.700, 320.620 is called "border". The border property can be set on classes, ids or directly on the HTML element.

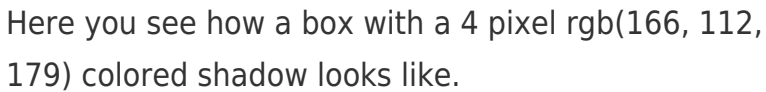
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(166, 112, 179) }
```

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

```
.border{ border-color:rgb(166, 112, 179) }
```

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



Here you see how a box with a 4 pixel `rgb(166, 112, 179)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(166, 112, 179); -webkit-box-  
shadow:4px 4px 4px 4px rgb(166, 112, 179);  
box-shadow:4px 4px 4px 4px rgb(166, 112,  
179) }
```

# Background

The CSS property to change the background color of an element to CIELCh 55, 42.700, 320.620 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(166, 112, 179) }
```

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

```
.background{ background-color: rgb(166,  
112, 179) }
```

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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