

# Converting Colors

CIELCh(45, 55.495, 308.243)

Have a look what the booklet for  
CIELCh(45, 55.495, 308.243)  
contains.

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# Color

**CIELCh(45, 55.700, 308.342)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7C58B4
RGB	124, 88, 180
RGB Percent	49%, 35%, 71%
CMY	0.5140, 0.6551, 0.2944
CMYK	0.31, 0.51, 0.00, 0.29
HSL	263°, 38%, 53%
HSV	263°, 51%, 71%
XYZ	20.0181, 14.5417, 44.8949
YIQ	109.2520, -8.0760, 36.2440

# Conversions

## Conversions Part 2

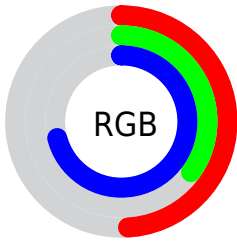
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	124, 88, 180
Decimal	8149172
CIE <sub>Lab</sub>	45.00, 34.55, -43.69
CIE <sub>LCh</sub>	45, 55.700, 308.342
Yxy	14.5417, 0.2519, 0.1830
Android (android.graphics.Color)	4286339252 (0xFF7C58B4)
YUV	109.2520, 34.8788, 12.9340
Hunter-Lab	38.1336, 26.9691, -43.1089

# Details

The CIELCh color  $45, 55.700, 308.342$  is a dark color, and the websafe version is hex `9966CC`. A complement of this color would be  $69, 50.597, 122.671$ , and the grayscale version is  $46, 0.006, 296.813$ .

A 20% lighter version of the original color is  $65, 55.421, 308.357$ , and  $25, 55.769, 308.205$  is the 20% darker color. If you saturate the color by 10%, you get  $40, 66.889, 309.022$ , and if you desaturate by 10%, it is  $50, 44.361, 307.639$ .

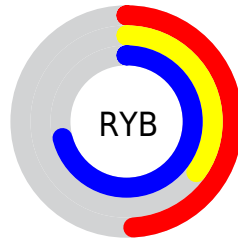
# Distribution



Red (49%)

Green (35%)

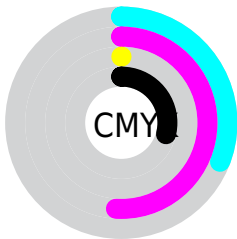
Blue (71%)



Red (49%)

Yellow (35%)

Blue (71%)

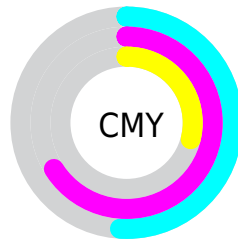


Cyan (31%)

Magenta (51%)

Yellow (0%)

Black (29%)



Cyan (51%)

Magenta (66%)


Yellow (29%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 55.700, 308.342 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 45, 55.700, 308.342 by changing the saturation by 10% instead.





 45, 55.700,  
308.342


 45, 55.700,  
308.342


 100, 55.700,  
308.342


 35, 55.700,  
308.342

 65, 55.700,  
308.342


 25, 55.700,  
308.342

 75, 55.700,  
308.342

 15, 55.700,  
308.342

 85, 55.700,  
308.342

 5, 55.700, 308.342

 95, 55.700,  
308.342

 0, 55.700, 308.342

 45, 55.700,

 45, 55.700,

308.342

40, 66.889,  
309.022

35, 77.478,  
309.603

31, 86.761,  
309.971

28, 93.840,  
309.984

26, 98.240,  
309.733

308.342

50, 44.361,  
307.639

56, 33.133,  
306.959

61, 22.153,  
306.324

67, 11.485,  
305.746

73, 1.151, 305.173

78, 8.845, 124.792

84, 18.511,  
124.389

89, 27.861,  
124.041

■ 95, 36.911,  
123.740

# Harmonies

# Complementary

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



45, 55.700, 308.342



69, 50.597, 122.671

# Rectangle

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



45, 55.700, 308.342



45, 55.700, 358.342



45, 55.700, 128.342



45, 55.700, 178.342

# Sweetspot

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



45, 55.699, 308.342



82, 19.336, 305.978



58, 25.676, 250.373



42, 13.224, 306.098



96, 0.011, 296.813



49, 0.007, 296.813





# Same Dimension

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



45, 55.699, 308.342



52, 82.818, 309.081



50, 58.642, 323.516



35, 5.792, 305.647



21, 87.033, 309.868



1, 13.638, 301.881



# Inverse Universe

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



50, 46.237, 342.827



60, 66.435, 344.228



66, 58.214, 137.854



35, 5.127, 338.877



33, 60.080, 351.670

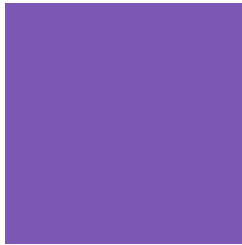


2, 11.373, 343.784



# Previews

## White Background



This preview shows how the CIELCh color 45, 55.700, 308.342 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 45, 55.700, 308.342 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

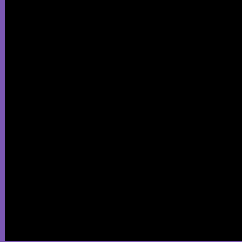
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 45, 55.700, 308.342

## Background



This preview shows how black text looks on a background with the CIELCh color 45, 55.700, 308.342.

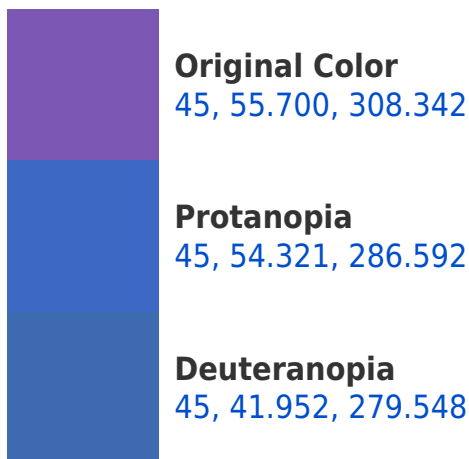


This preview shows how white text looks on a background with the CIELCh color 45, 55.700, 308.342.

# 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







**Tritanopia**  
45, 6.106, 318.447

# Trichromacy



**Original Color**  
45, 55.700, 308.342

**Protanomaly**  
45, 54.719, 293.435

**Deuteranomaly**  
45, 45.945, 291.005

**Tritanomaly**  
45, 24.380, 309.111

# Monochromacy



**Original Color**  
45, 55.700, 308.342

**Achromatopsia**  
46, 0.006, 296.813

**Achromatomaly**  
45, 20.974, 306.232

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 45, 55.700, 308.342 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(124, 88, 180)` looks like.

```
.text, #text, p{  
    color:rgb(124, 88, 180)  
}
```

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(124, 88, 180) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(124, 88, 180) }
```

## Border

The CSS property to change the border of an element to CIELCh 45, 55.700, 308.342 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(124, 88, 180) }
```

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

```
.border{ border-color:rgb(124, 88, 180) }
```

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

Here you see how a box with a 4 pixel `rgb(124, 88, 180)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(124, 88, 180); -webkit-box-shadow:4px 4px 4px 4px rgb(124, 88, 180); box-shadow:4px 4px 4px 4px rgb(124, 88, 180) }
```

# Background

The CSS property to change the background color of an element to CIELCh 45, 55.700, 308.342 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(124, 88, 180) }
```

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

```
.background{ background-color: rgb(124, 88,  
180) }
```

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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