

# Converting Colors

CIELCh(52, 42.815, 326.490)

Have a look what the booklet for  
CIELCh(52, 42.815, 326.490)  
contains.

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**Color**

**CIELCh(52, 42.552, 326.450)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A566A5
RGB	165, 102, 165
RGB Percent	65%, 40%, 65%
CMY	0.3538, 0.6008, 0.3538
CMYK	0.00, 0.38, 0.00, 0.35
HSL	300°, 26%, 52%
HSV	300°, 38%, 65%
XYZ	26.9711, 20.1443, 37.9571
YIQ	128.0190, 17.3250, 32.9490

# Conversions

## Conversions Part 2

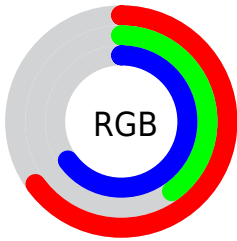
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	165, 102, 165
Decimal	10839717
CIE <sub>Lab</sub>	52.00, 35.46, -23.52
CIE <sub>LCh</sub>	52, 42.552, 326.450
Yxy	20.1443, 0.3170, 0.2368
Android (android.graphics.Color)	4289029797 (0xFFA566A5)
YUV	128.0190, 18.2316, 32.4323
Hunter-Lab	44.8824, 28.7212, -18.7238

# Details

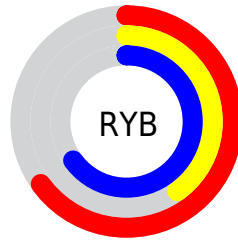
The CIELCh color  $52, 42.552, 326.450$  is a dark color, and the websafe version is hex  $996699$ . A complement of this color would be  $62, 42.611, 141.645$ , and the grayscale version is  $53, 0.007, 296.813$ .

A 20% lighter version of the original color is  $72, 42.665, 326.497$ , and  $32, 42.355, 326.553$  is the 20% darker color. If you saturate the color by 10%, you get  $49, 52.886, 326.920$ , and if you desaturate by 10%, it is  $56, 31.627, 325.942$ .

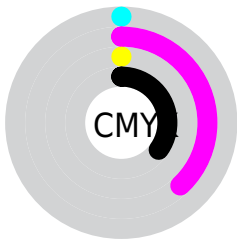
# Distribution



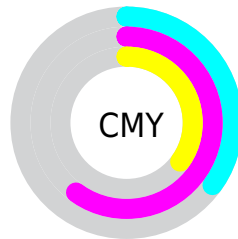
- Red (65%)
- Green (40%)
- Blue (65%)



- Red (65%)
- Yellow (40%)
- Blue (65%)



- Cyan (0%)
- Magenta (38%)
- Yellow (0%)
- Black (35%)




- Cyan (35%)
- Magenta (60%)
- Yellow (35%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 52, 42.552, 326.450 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 52, 42.552, 326.450 by changing the saturation by 10% instead.





 52, 42.552,  
326.450


 52, 42.552,  
326.450


 100, 42.552,  
326.450


 42, 42.552,  
326.450


 72, 42.552,  
326.450

 32, 42.552,  
326.450

 82, 42.552,  
326.450

 22, 42.552,  
326.450

 92, 42.552,  
326.450

 12, 42.552,  
326.450

 2, 42.552, 326.450

 0, 42.552, 326.450

52, 42.552,  
326.450

52, 42.552,  
326.450

49, 52.886,  
326.920

56, 31.627,  
325.942

46, 62.253,  
327.336

60, 20.426,  
325.409

43, 70.233,  
327.681

64, 9.178, 324.858

41, 76.440,  
327.944

68, 1.956, 144.461

40, 80.630,  
328.118

73, 12.873,  
143.839

39, 82.982,  
328.215

77, 23.510,  
143.325

39, 83.349,  
328.230

82, 33.835,  
142.837

87, 43.834,  
142.376

■ 91, 53.509,  
141.941

# Harmonies

# Complementary

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



52, 42.552, 326.450



62, 42.611, 141.645

# Rectangle

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



52, 42.552, 326.450



52, 42.552, 16.450



52, 42.552, 146.450



52, 42.552, 196.450

# Sweetspot

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



52, 42.550, 326.450



80, 15.222, 325.024



46, 36.823, 294.501



41, 10.217, 325.095



93, 0.011, 296.813



45, 0.006, 296.813





# Same Dimension

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



52, 42.550, 326.450



63, 62.618, 326.858



51, 30.913, 346.362



32, 6.267, 324.916



34, 76.022, 328.230



2, 9.704, 324.436



# Inverse Universe

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



50, 27.541, 22.926



60, 42.180, 24.348



63, 29.669, 159.143



32, 3.629, 19.897



30, 68.061, 39.261

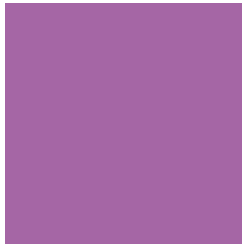


1, 5.464, 19.399



# Previews

## White Background



This preview shows how the CIELCh color 52, 42.552, 326.450 looks on a white background.

## Color Contrast Check

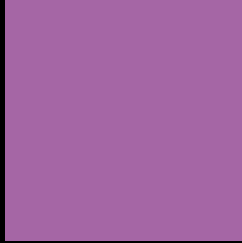
Large Text (above 18pt) WCAG AA ✓ Pass

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 52, 42.552, 326.450 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

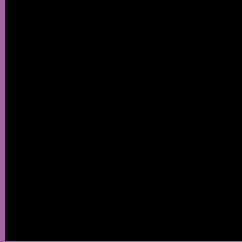
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 52, 42.552, 326.450

## Background



This preview shows how black text looks on a background with the CIELCh color 52, 42.552, 326.450.

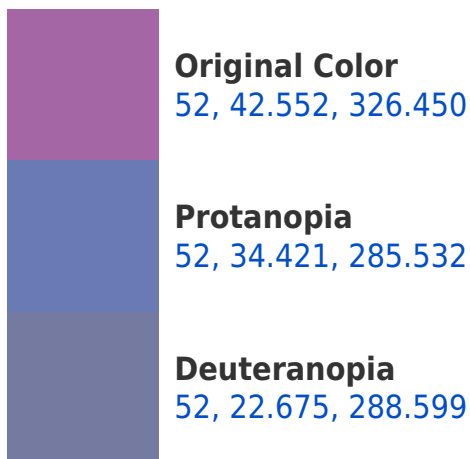


This preview shows how white text looks on a background with the CIELCh color 52, 42.552, 326.450.

# 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**  
52, 20.558, 7.475

# Trichromacy



**Original Color**  
52, 42.552, 326.450

**Protanomaly**  
52, 35.257, 300.883

**Deuteranomaly**  
52, 28.302, 307.242

**Tritanomaly**  
52, 26.323, 345.102

# Monochromacy



**Original Color**  
52, 42.552, 326.450

**Achromatopsia**  
54, 0.007, 296.813

**Achromatomaly**  
52, 16.088, 325.295

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 52, 42.552, 326.450 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(165, 102, 165)` looks like.

```
.text, #text, p{  
    color:rgb(165, 102, 165)  
}
```

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(165, 102, 165) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(165, 102, 165) }
```

## Border

The CSS property to change the border of an element to CIELCh 52, 42.552, 326.450 is called "border". The border property can be set on classes, ids or directly on the HTML element.

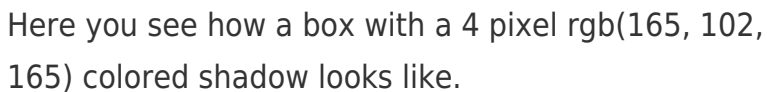
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(165, 102, 165) }
```

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

```
.border{ border-color:rgb(165, 102, 165) }
```

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



Here you see how a box with a 4 pixel `rgb(165, 102, 165)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(165, 102, 165); -webkit-box-  
shadow:4px 4px 4px 4px rgb(165, 102, 165);  
box-shadow:4px 4px 4px 4px rgb(165, 102,  
165) }
```

# Background

The CSS property to change the background color of an element to CIELCh 52, 42.552, 326.450 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(165, 102, 165) }
```

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

```
.background{ background-color: rgb(165,  
102, 165) }
```

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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