

# Converting Colors

CIELCh(45, 39.444, 345.019)

Have a look what the booklet for  
CIELCh(45, 39.444, 345.019)  
contains.

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**Color**

**CIELCh(45, 39.537, 345.454)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9F507C
RGB	159, 80, 124
RGB Percent	62%, 31%, 49%
CMY	0.3768, 0.6866, 0.5140
CMYK	0.00, 0.50, 0.22, 0.38
HSL	327°, 33%, 47%
HSV	327°, 50%, 62%
XYZ	20.7777, 14.5417, 20.7550
YIQ	108.6370, 32.9600, 30.4320

# Conversions

## Conversions Part 2

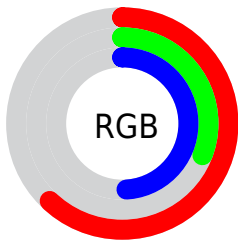
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	159, 80, 124
Decimal	10440828
CIE Lab	45.00, 38.27, -9.93
CIE LCh	45, 39.537, 345.454
Yxy	14.5417, 0.3705, 0.2593
Android (android.graphics.Color)	4288630908 (0xFF9F507C)
YUV	108.6370, 7.5740, 44.1684
Hunter-Lab	38.1336, 30.5246, -5.5763

# Details

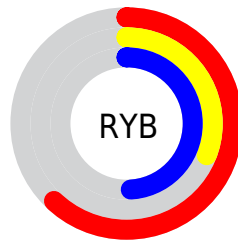
The CIELCh color  $45, 39.537, 345.454$  is a dark color, and the websafe version is hex  $993366$ . A complement of this color would be  $60, 38.120, 155.755$ , and the grayscale version is  $46, 0.006, 296.813$ .

A 20% lighter version of the original color is  $65, 39.340, 345.050$ , and  $25, 39.683, 345.445$  is the 20% darker color. If you saturate the color by 10%, you get  $42, 46.450, 346.845$ , and if you desaturate by 10%, it is  $49, 31.913, 344.263$ .

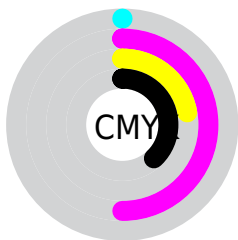
# Distribution



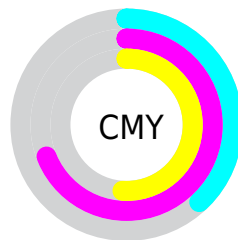
- Red (62%)
- Green (31%)
- Blue (49%)



- Red (62%)
- Yellow (31%)
- Blue (49%)



- Cyan (0%)
- Magenta (50%)
- Yellow (22%)
- Black (38%)




- Cyan (38%)
- Magenta (69%)
- Yellow (51%)


# Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 39.537, 345.454 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, 39.537, 345.454 by changing the saturation by 10% instead.





 45, 39.537,  
345.454


 45, 39.537,  
345.454


 100, 39.537,  
345.454


 35, 39.537,  
345.454

 65, 39.537,  
345.454


 25, 39.537,  
345.454

 75, 39.537,  
345.454

 15, 39.537,  
345.454

 85, 39.537,  
345.454

 5, 39.537, 345.454

 95, 39.537,  
345.454

 0, 39.537, 345.454

 45, 39.537,

 45, 39.537,

345.454

345.454

42, 46.450,  
346.845

49, 31.913,  
344.263

39, 52.267,  
348.510

53, 23.917,  
343.216

37, 56.601,  
350.553

57, 15.792,  
342.277

35, 59.198,  
353.103

61, 7.709, 341.412

66, 0.226, 162.123

34, 60.421,  
356.155

70, 7.952, 160.014

34, 60.457,  
356.246

75, 15.439,  
159.336

79, 22.678,  
158.719

84, 29.672,



# Harmonies

# Complementary

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



45, 39.537, 345.454



60, 38.120, 155.755

# Rectangle

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



45, 39.537, 345.454



45, 39.537, 35.454



45, 39.537, 165.454



45, 39.537, 215.454

# Sweetspot

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



45, 39.535, 345.455



75, 14.831, 341.889



41, 48.990, 309.489



39, 10.216, 342.062



92, 0.011, 296.813



44, 0.006, 296.813





# Same Dimension

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



45, 39.535, 345.455



54, 57.541, 347.066



44, 35.361, 20.011



31, 4.471, 341.373



30, 55.984, 355.889



1, 5.677, 342.155



# Inverse Universe

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



45, 39.535, 345.455



54, 57.541, 347.066



61, 25.992, 190.499



31, 4.471, 341.373



30, 55.984, 355.889

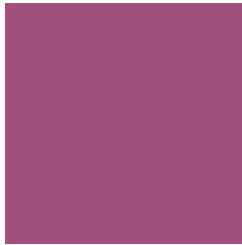


1, 5.677, 342.155



# Previews

## White Background



This preview shows how the CIELCh color 45, 39.537, 345.454 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, 39.537, 345.454 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

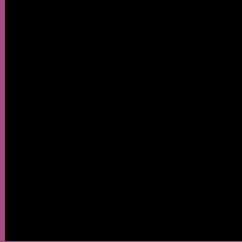
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 45, 39.537, 345.454

## Background



This preview shows how black text looks on a background with the CIELCh color 45, 39.537, 345.454.



This preview shows how white text looks on a background with the CIELCh color 45, 39.537, 345.454.

# 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**  
45, 39.537, 345.454

**Protanopia**  
45, 21.582, 284.779

**Deuteranopia**  
45, 9.988, 307.471





**Tritanopia**  
45, 30.941, 16.532

# Trichromacy



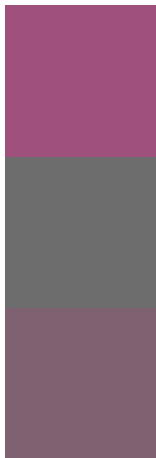
**Original Color**  
45, 39.537, 345.454

**Protanomaly**  
45, 24.406, 313.848

**Deuteranomaly**  
44, 20.332, 332.547

**Tritanomaly**  
45, 32.606, 3.706

# Monochromacy



**Original Color**  
45, 39.537, 345.454

**Achromatopsia**  
46, 0.006, 296.813

**Achromatomaly**  
45, 15.208, 342.793

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 45, 39.537, 345.454 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(159, 80, 124)` looks like.

```
.text, #text, p{  
    color:rgb(159, 80, 124)  
}
```

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(159, 80, 124) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(159, 80, 124) }
```

## Border

The CSS property to change the border of an element to CIELCh 45, 39.537, 345.454 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(159, 80, 124) }
```

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

```
.border{ border-color:rgb(159, 80, 124) }
```

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

Here you see how a box with a 4 pixel `rgb(159, 80, 124)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(159, 80, 124); -webkit-box-  
shadow:4px 4px 4px 4px rgb(159, 80, 124);  
box-shadow:4px 4px 4px 4px rgb(159, 80,  
124) }
```

# Background

The CSS property to change the background color of an element to CIELCh 45, 39.537, 345.454 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(159, 80, 124) }
```

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

```
.background{ background-color: rgb(159, 80,  
124) }
```

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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