

# Converting Colors

CIELCh(45, 22.327, 333.687)

Have a look what the booklet for  
CIELCh(45, 22.327, 333.687)  
contains.

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**Color**

**CIELCh(45, 22.184, 333.894)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	845F7B
RGB	132, 95, 123
RGB Percent	52%, 37%, 48%
CMY	0.4820, 0.6271, 0.5173
CMYK	0.00, 0.28, 0.07, 0.48
HSL	315°, 16%, 45%
HSV	315°, 28%, 52%
XYZ	17.2070, 14.5417, 20.6641
YIQ	109.2550, 13.0640, 16.5520

# Conversions

## Conversions Part 2

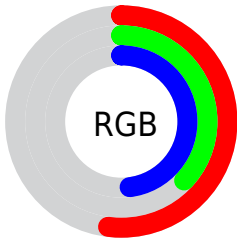
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	132, 95, 123
Decimal	8675195
CIE Lab	45.00, 19.92, -9.76
CIE LCh	45, 22.184, 333.894
Yxy	14.5417, 0.3283, 0.2774
Android (android.graphics.Color)	4286865275 (0xFF845F7B)
YUV	109.2550, 6.7763, 19.9474
Hunter-Lab	38.1336, 13.8107, -5.4350

# Details

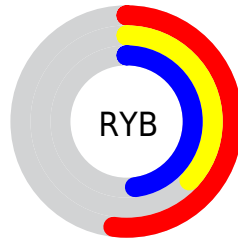
The CIELCh color  $45, 22.184, 333.894$  is a dark color, and the websafe version is hex  $996699$ . A complement of this color would be  $52, 22.040, 150.033$ , and the grayscale version is  $46, 0.006, 296.813$ .

A 20% lighter version of the original color is  $65, 22.014, 334.745$ , and  $25, 22.175, 334.367$  is the 20% darker color. If you saturate the color by 10%, you get  $42, 29.977, 334.605$ , and if you desaturate by 10%, it is  $49, 14.238, 333.213$ .

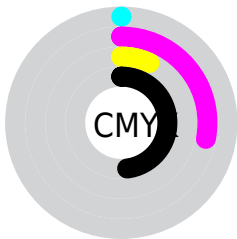
# Distribution



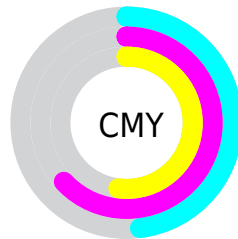
- Red (52%)
- Green (37%)
- Blue (48%)



- Red (52%)
- Yellow (37%)
- Blue (48%)



- Cyan (0%)
- Magenta (28%)
- Yellow (7%)
- Black (48%)



- Cyan (48%)
- Magenta (63%)
- Yellow (52%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 22.184, 333.894 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, 22.184, 333.894 by changing the saturation by 10% instead.





 45, 22.184,  
333.894


 45, 22.184,  
333.894


 100, 22.184,  
333.894

 35, 22.184,  
333.894

 65, 22.184,  
333.894


 25, 22.184,  
333.894

 75, 22.184,  
333.894

 15, 22.184,  
333.894

 85, 22.184,  
333.894

 5, 22.184, 333.894

 95, 22.184,  
333.894

 0, 22.184, 333.894

 45, 22.184,

 45, 22.184,

333.894

333.894

42, 29.977,  
334.605

49, 14.238,  
333.213

39, 37.406,  
335.352

52, 6.298, 332.548

36, 44.186,  
336.145

56, 1.537, 152.125

60, 9.206, 151.412

33, 49.984,  
337.001

64, 16.673,  
150.845

31, 54.460,  
337.946

67, 23.923,  
150.314

30, 57.350,  
339.020

71, 30.954,  
149.813

29, 58.846,  
340.231

75, 37.770,  
149.341

29, 59.126,  
340.471

79, 44.380,



# Harmonies

# Complementary

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



45, 22.184, 333.894



52, 22.040, 150.033

# Rectangle

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



45, 22.184, 333.894



45, 22.184, 23.894



45, 22.184, 153.894



45, 22.184, 203.894

# Sweetspot

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



45, 22.182, 333.895



66, 7.758, 332.559



42, 22.655, 301.326



34, 5.562, 332.649



86, 0.010, 296.813



37, 0.005, 296.813





# Same Dimension

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



45, 22.182, 333.895



55, 33.156, 334.370



44, 16.660, 1.245



26, 4.449, 332.623



28, 58.483, 340.448



0, 1.058, 332.086



# Inverse Universe

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



45, 22.182, 333.895



55, 33.156, 334.370



52, 15.234, 175.710



26, 4.449, 332.623



28, 58.483, 340.448

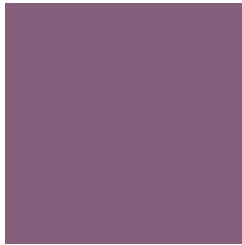


0, 1.058, 332.086



# Previews

## White Background



This preview shows how the CIELCh color 45, 22.184, 333.894 looks on a white background.

## Color Contrast Check

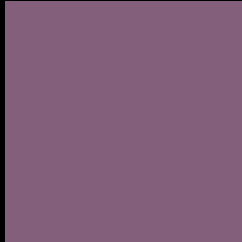
Large Text (above 18pt) WCAG AA ✓ Pass

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, 22.184, 333.894 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

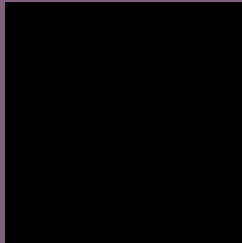
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 45, 22.184, 333.894

## Background



This preview shows how black text looks on a background with the CIELCh color 45, 22.184, 333.894.



This preview shows how white text looks on a background with the CIELCh color 45, 22.184, 333.894.

# 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, 22.184, 333.894

### Protanopia

45, 14.389, 284.785

### Deuteranopia

45, 10.464, 304.519





**Tritanopia**  
45, 14.279, 2.017

# Trichromacy



**Original Color**  
45, 22.184, 333.894

**Protanomaly**  
45, 15.500, 306.507

**Deuteranomaly**  
45, 14.282, 319.820

**Tritanomaly**  
45, 16.596, 349.342

# Monochromacy



**Original Color**  
45, 22.184, 333.894

**Achromatopsia**  
46, 0.006, 296.813

**Achromatomaly**  
45, 7.991, 332.277

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 45, 22.184, 333.894 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(132, 95, 123)` looks like.

```
.text, #text, p{  
    color:rgb(132, 95, 123)  
}
```

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(132, 95, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(132, 95, 123) }
```

## Border

The CSS property to change the border of an element to CIELCh 45, 22.184, 333.894 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(132, 95, 123) }
```

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

```
.border{ border-color:rgb(132, 95, 123) }
```

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

Here you see how a box with a 4 pixel `rgb(132, 95, 123)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(132, 95, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(132, 95, 123);  
box-shadow:4px 4px 4px 4px rgb(132, 95,  
123) }
```

# Background

The CSS property to change the background color of an element to CIELCh 45, 22.184, 333.894 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(132, 95, 123) }
```

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

```
.background{ background-color: rgb(132, 95,  
123) }
```

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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