

# Converting Colors

CIELCh(45, 98.188, 308.124)

Have a look what the booklet for  
CIELCh(45, 98.188, 308.124)  
contains.

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**Color**

**CIELCh(45, 97.938, 308.076)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7B44EE
RGB	123, 68, 238
RGB Percent	48%, 27%, 93%
CMY	0.5172, 0.7330, 0.0663
CMYK	0.48, 0.71, 0.00, 0.07
HSL	259°, 83%, 60%
HSV	259°, 71%, 93%
XYZ	25.7020, 14.5417, 82.4148
YIQ	103.8250, -21.7900, 64.5300

# Conversions

## Conversions Part 2

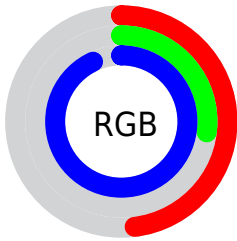
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	123, 68, 238
Decimal	8078574
CIE <sub>Lab</sub>	45.00, 60.40, -77.10
CIE <sub>LCh</sub>	45, 97.938, 308.076
Yxy	14.5417, 0.2095, 0.1186
Android (android.graphics.Color)	4286268654 (0xFF7B44EE)
YUV	103.8250, 66.1483, 16.8165
Hunter-Lab	38.1336, 53.5749, -101.4448

# Details

The CIELCh color **45, 97.938, 308.076** is a dark color, and the websafe version is hex **6633CC**. The color can be described as middle muted purple. A complement of this color would be **88, 82.806, 119.440**, and the grayscale version is **44, 0.006, 296.813**.

A 20% lighter version of the original color is **63, 76.411, 310.865**, and **25, 98.142, 308.050** is the 20% darker color. If you saturate the color by 10%, you get **40, 109.696, 308.613**, and if you desaturate by 10%, it is **51, 84.435, 307.307**.

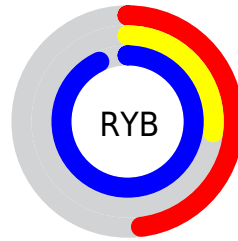
# Distribution



Red (48%)

Green (27%)

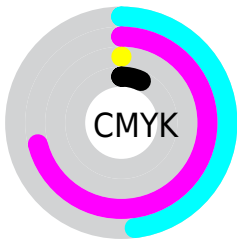
Blue (93%)



Red (48%)

Yellow (27%)

Blue (93%)

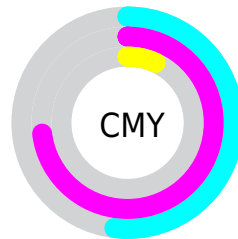


Cyan (48%)

Magenta (71%)

Yellow (0%)

Black (7%)



Cyan (52%)

Magenta (73%)


Yellow (7%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 97.938, 308.076 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, 97.938, 308.076 by changing the saturation by 10% instead.




 45, 97.938,  
308.076


 45, 97.938,  
308.076


 100, 97.938,  
308.076


 35, 97.938,  
308.076

 65, 97.938,  
308.076


 25, 97.938,  
308.076

 75, 97.938,  
308.076

 15, 97.938,  
308.076

 85, 97.938,  
308.076

 5, 97.938, 308.076

 95, 97.938,  
308.076


 0, 97.938, 308.076


 45, 97.938,


 45, 97.938,

308.076

308.076


 40, 109.696,  
308.613


 51, 84.435,  
307.307


 36, 118.388,  
308.739

 58, 70.199,  
306.445

 33, 123.015,  
308.496

 65, 55.850,  
305.580

 72, 41.718,  
304.762

 79, 27.960,  
304.015

 86, 14.643,  
303.346

 93, 1.781, 302.727

 99, 8.640, 116.800

100, 8.557,  
109.528

# Harmonies

# Complementary

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



45, 97.938, 308.076



88, 82.806, 119.440

# Rectangle

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



45, 97.938, 308.076



45, 97.938, 358.076



45, 97.938, 128.076



45, 97.938, 178.076

# Sweetspot

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



45, 97.938, 308.077



84, 28.984, 303.992



71, 39.306, 246.998



43, 19.711, 304.190



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



45, 97.938, 308.077



41, 120.531, 308.737



56, 96.116, 321.894



46, 7.311, 303.226



25, 101.037, 308.651



4, 38.883, 306.664



# Inverse Universe

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



58, 78.075, 341.856



58, 89.398, 344.218



84, 94.911, 134.940



47, 6.860, 335.890



41, 71.085, 346.654

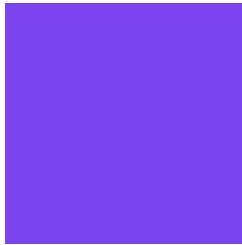


9, 31.928, 343.333



# Previews

## White Background



This preview shows how the CIELCh color 45, 97.938, 308.076 looks on a white background.

## Color Contrast Check

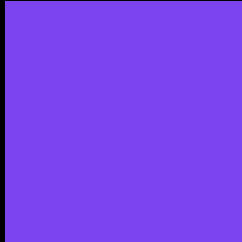
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIE LCh color 45, 97.938, 308.076 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

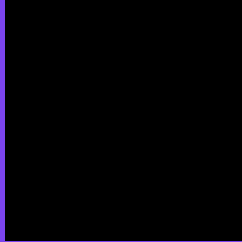
Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

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

# CIELCh 45, 97.938, 308.076

## Background



This preview shows how black text looks on a background with the CIELCh color 45, 97.938, 308.076.



This preview shows how white text looks on a background with the CIELCh color 45, 97.938, 308.076.

# 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

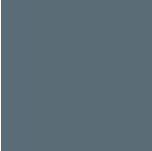


**Original Color**  
45, 97.938, 308.076

**Protanopia**  
45, 68.040, 287.161

**Deuteranopia**  
45, 47.838, 274.260





**Tritanopia**  
45, 8.821, 236.486

# Trichromacy



**Original Color**  
45, 97.938, 308.076



**Protanomaly**  
43, 79.640, 294.667



**Deuteranomaly**  
43, 66.509, 290.760



**Tritanomaly**  
43, 40.974, 299.201

# Monochromacy



**Original Color**  
45, 97.938, 308.076



**Achromatopsia**  
44, 0.006, 296.813



**Achromatomaly**  
43, 38.022, 305.369

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 45, 97.938, 308.076 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(123, 68, 238)` looks like.

```
.text, #text, p{  
    color:rgb(123, 68, 238)  
}
```

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(123, 68, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 68, 238) }
```

## Border

The CSS property to change the border of an element to CIELCh 45, 97.938, 308.076 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(123, 68, 238) }
```

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

```
.border{ border-color:rgb(123, 68, 238) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 68, 238)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 68, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 68, 238);  
box-shadow:4px 4px 4px 4px rgb(123, 68,  
238) }
```

# Background

The CSS property to change the background color of an element to CIELCh 45, 97.938, 308.076 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 68, 238) }
```

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

```
.background{ background-color: rgb(123, 68,  
238) }
```

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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