

# Converting Colors

CIELCh(45, 52.833, 312.077)

Have a look what the booklet for  
CIELCh(45, 52.833, 312.077)  
contains.

<b>CIELCh(45, 52.945, 312.289)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# Color

**CIELCh(45, 52.945, 312.289)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	8356AC
RGB	131, 86, 172
RGB Percent	51%, 34%, 67%
CMY	0.4851, 0.6616, 0.3243
CMYK	0.24, 0.50, 0.00, 0.32
HSL	271°, 34%, 51%
HSV	271°, 50%, 68%
XYZ	20.2352, 14.5417, 40.9281
YIQ	109.2590, -0.7860, 36.2860

# Conversions

## Conversions Part 2

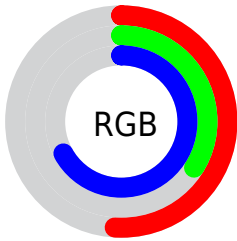
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	131, 86, 172
Decimal	8607404
CIE Lab	45.00, 35.63, -39.17
CIE LCh	45, 52.945, 312.289
Yxy	14.5417, 0.2673, 0.1921
Android (android.graphics.Color)	4286797484 (0xFF8356AC)
YUV	109.2590, 30.9313, 19.0669
Hunter-Lab	38.1336, 27.9852, -36.9413

# Details

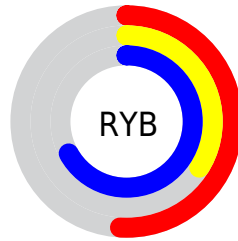
The CIELCh color  $45, 52.945, 312.289$  is a dark color, and the websafe version is hex `9966CC`. A complement of this color would be  $66, 49.448, 127.614$ , and the grayscale version is  $46, 0.006, 296.813$ .

A 20% lighter version of the original color is  $65, 53.014, 312.309$ , and  $25, 52.987, 312.457$  is the 20% darker color. If you saturate the color by 10%, you get  $40, 63.461, 312.735$ , and if you desaturate by 10%, it is  $50, 42.126, 311.788$ .

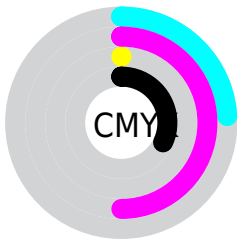
# Distribution



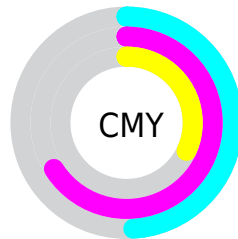
- Red (51%)
- Green (34%)
- Blue (67%)



- Red (51%)
- Yellow (34%)
- Blue (67%)



- Cyan (24%)
- Magenta (50%)
- Yellow (0%)
- Black (32%)




- Cyan (49%)
- Magenta (66%)
- Yellow (32%)


# Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 52.945, 312.289 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, 52.945, 312.289 by changing the saturation by 10% instead.





 45, 52.945,  
312.289


 45, 52.945,  
312.289


 100, 52.945,  
312.289


 35, 52.945,  
312.289

 65, 52.945,  
312.289


 25, 52.945,  
312.289

 75, 52.945,  
312.289

 15, 52.945,  
312.289

 85, 52.945,  
312.289

 5, 52.945, 312.289

 95, 52.945,  
312.289

 0, 52.945, 312.289

 45, 52.945,

 45, 52.945,

312.289

40, 63.461,  
312.735

36, 73.245,  
313.061

32, 81.691,  
313.179

29, 88.099,  
312.985

27, 92.470,  
312.503

27, 92.503,  
312.500

312.289

50, 42.126,  
311.788

55, 31.284,  
311.274

60, 20.585,  
310.774

65, 10.119,  
310.299

71, 0.067, 131.558

76, 9.955, 129.499

81, 19.543,  
129.144

86, 28.835,  
128.832

■ 91, 37.843,  
128.558

# Harmonies

# Complementary

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



45, 52.945, 312.289



66, 49.448, 127.614

# Rectangle

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



45, 52.945, 312.289



45, 52.945, 2.289



45, 52.945, 132.289



45, 52.945, 182.289

# Sweetspot

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



45, 52.944, 312.289



80, 19.095, 310.549



52, 28.069, 266.527



41, 13.046, 310.647



95, 0.011, 296.813



47, 0.006, 296.813





# Same Dimension

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



45, 52.944, 312.289



52, 78.712, 312.779



50, 55.944, 327.491



34, 5.797, 310.271



23, 83.620, 312.624



1, 11.878, 306.618



# Inverse Universe

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



48, 40.597, 350.362



58, 59.128, 352.268



64, 56.250, 140.857



34, 4.572, 345.663



32, 57.055, 3.440

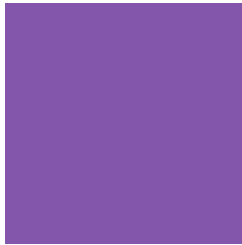


2, 9.018, 350.059



# Previews

## White Background



This preview shows how the CIELCh color 45, 52.945, 312.289 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, 52.945, 312.289 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, 52.945, 312.289

## Background



This preview shows how black text looks on a background with the CIELCh color 45, 52.945, 312.289.

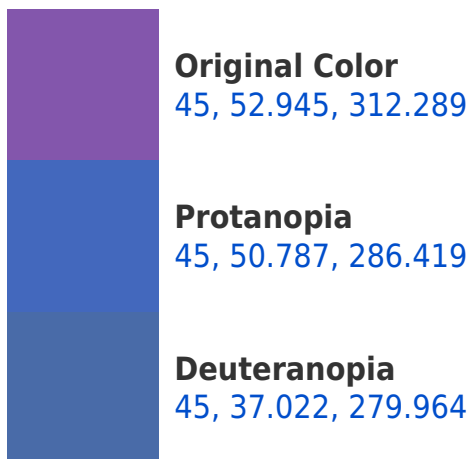


This preview shows how white text looks on a background with the CIELCh color 45, 52.945, 312.289.

# 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, 9.209, 349.501

# Trichromacy



**Original Color**  
45, 52.945, 312.289

**Protanomaly**  
45, 50.606, 294.270

**Deuteranomaly**  
45, 42.378, 293.788

**Tritanomaly**  
45, 24.080, 319.290

# Monochromacy



**Original Color**  
45, 52.945, 312.289

**Achromatopsia**  
46, 0.006, 296.813

**Achromatomaly**  
45, 20.237, 311.215

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 45, 52.945, 312.289 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(131, 86, 172)` looks like.

```
.text, #text, p{  
    color:rgb(131, 86, 172)  
}
```

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(131, 86, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 86, 172) }
```

## Border

The CSS property to change the border of an element to CIELCh 45, 52.945, 312.289 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(131, 86, 172) }
```

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

```
.border{ border-color:rgb(131, 86, 172) }
```

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

Here you see how a box with a 4 pixel `rgb(131, 86, 172)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(131, 86, 172); -webkit-box-shadow:4px 4px 4px 4px rgb(131, 86, 172); box-shadow:4px 4px 4px 4px rgb(131, 86, 172) }
```

# Background

The CSS property to change the background color of an element to CIELCh 45, 52.945, 312.289 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 86, 172) }
```

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

```
.background{ background-color: rgb(131, 86,  
172) }
```

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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