

# Converting Colors

CIELCh(45, 30.295, 317.589)

Have a look what the booklet for  
CIELCh(45, 30.295, 317.589)  
contains.

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# Color

**CIELCh(45, 30.762, 317.856)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	805E8D
RGB	128, 94, 141
RGB Percent	50%, 37%, 55%
CMY	0.4977, 0.6310, 0.4467
CMYK	0.09, 0.33, 0.00, 0.45
HSL	283°, 20%, 46%
HSV	283°, 33%, 55%
XYZ	17.7395, 14.5417, 27.1052
YIQ	109.5240, 5.1770, 21.8250

# Conversions

## Conversions Part 2

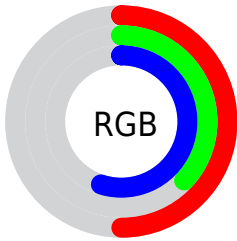
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	128, 94, 141
Decimal	8412813
CIE <sub>Lab</sub>	45.00, 22.81, -20.64
CIE <sub>LCh</sub>	45, 30.762, 317.856
Yxy	14.5417, 0.2987, 0.2449
Android (android.graphics.Color)	4286602893 (0xFF805E8D)
YUV	109.5240, 15.5177, 16.2035
Hunter-Lab	38.1336, 16.3031, -15.4496

# Details

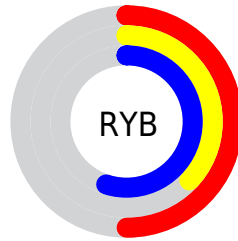
The CIELCh color  $45, 30.762, 317.856$  is a dark color, and the websafe version is hex  $996699$ . A complement of this color would be  $55, 30.099, 134.879$ , and the grayscale version is  $46, 0.006, 296.813$ .

A 20% lighter version of the original color is  $65, 30.703, 317.453$ , and  $25, 31.033, 317.765$  is the 20% darker color. If you saturate the color by 10%, you get  $41, 40.017, 318.254$ , and if you desaturate by 10%, it is  $49, 21.416, 317.434$ .

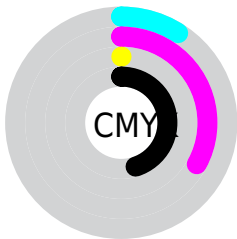
# Distribution



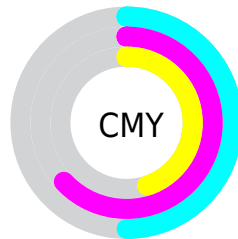
- Red (50%)
- Green (37%)
- Blue (55%)



- Red (50%)
- Yellow (37%)
- Blue (55%)



- Cyan (9%)
- Magenta (33%)
- Yellow (0%)
- Black (45%)




- Cyan (50%)
- Magenta (63%)
- Yellow (45%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 30.762, 317.856 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, 30.762, 317.856 by changing the saturation by 10% instead.





 45, 30.762,  
317.856


 45, 30.762,  
317.856


 100, 30.762,  
317.856


 35, 30.762,  
317.856

 65, 30.762,  
317.856


 25, 30.762,  
317.856

 75, 30.762,  
317.856

 15, 30.762,  
317.856


 85, 30.762,  
317.856

 5, 30.762, 317.856

 95, 30.762,  
317.856

 0, 30.762, 317.856

 45, 30.762,

 45, 30.762,

317.856

41, 40.017,  
318.254

38, 48.967,  
318.600

34, 57.300,  
318.857

31, 64.618,  
318.975

29, 70.478,  
318.899

27, 74.505,  
318.577

26, 76.676,  
318.308

317.856

49, 21.416,  
317.434

53, 12.130,  
317.005

57, 2.993, 316.556

61, 5.942, 136.236

66, 14.646,  
135.853

70, 23.107,  
135.509

74, 31.325,  
135.194

78, 39.303,  
134.909

■ 83, 47.050,  
134.651

# Harmonies

# Complementary

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



45, 30.762, 317.856



55, 30.099, 134.879

# Rectangle

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



45, 30.762, 317.856



45, 30.762, 7.856



45, 30.762, 137.856



45, 30.762, 187.856

# Sweetspot

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



45, 30.760, 317.856



69, 11.261, 316.872



46, 20.417, 279.857



35, 7.665, 316.925



88, 0.010, 296.813



39, 0.006, 296.813





# Same Dimension

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



45, 30.760, 317.856



54, 45.833, 318.160



46, 28.316, 333.242



28, 5.174, 316.828



25, 74.304, 318.343



0, 3.464, 316.468



# Inverse Universe

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



45, 21.155, 1.283



55, 31.759, 2.447



55, 28.173, 148.591



28, 3.465, 358.385



28, 54.846, 21.577

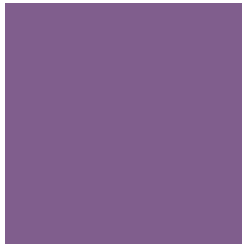


0, 2.297, 357.601



# Previews

## White Background



This preview shows how the CIELCh color 45, 30.762, 317.856 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, 30.762, 317.856 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

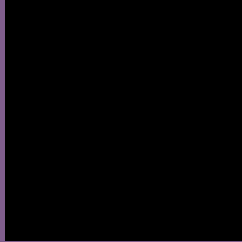
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 45, 30.762, 317.856**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 45, 30.762, 317.856.



This preview shows how white text looks on a background with the CIELCh color 45, 30.762, 317.856.

# 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, 30.762, 317.856

### Protanopia

45, 26.982, 285.366

### Deuteranopia

45, 20.316, 287.957





**Tritanopia**  
45, 10.072, 356.387

# Trichromacy



**Original Color**  
45, 30.762, 317.856

**Protanomaly**  
45, 27.605, 297.497

**Deuteranomaly**  
45, 23.622, 301.238

**Tritanomaly**  
45, 17.015, 331.298

# Monochromacy



**Original Color**  
45, 30.762, 317.856

**Achromatopsia**  
46, 0.006, 296.813

**Achromatomaly**  
46, 11.414, 318.313

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 45, 30.762, 317.856 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(128, 94, 141)` looks like.

```
.text, #text, p{  
    color:rgb(128, 94, 141)  
}
```

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(128, 94, 141) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 94, 141) }
```

## Border

The CSS property to change the border of an element to CIELCh 45, 30.762, 317.856 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(128, 94, 141) }
```

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

```
.border{ border-color:rgb(128, 94, 141) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 94, 141)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 94, 141); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 94, 141);  
box-shadow:4px 4px 4px 4px rgb(128, 94,  
141) }
```

# Background

The CSS property to change the background color of an element to CIELCh 45, 30.762, 317.856 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 94, 141) }
```

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

```
.background{ background-color: rgb(128, 94,  
141) }
```

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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