

# Converting Colors

CIELCh(45, 12.663, 326.210)

Have a look what the booklet for  
CIELCh(45, 12.663, 326.210)  
contains.

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# Color

**CIELCh(45, 12.495, 326.763)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	776576
RGB	119, 101, 118
RGB Percent	47%, 40%, 46%
CMY	0.5333, 0.6039, 0.5372
CMYK	0.00, 0.15, 0.01, 0.53
HSL	303°, 8%, 43%
HSV	303°, 15%, 47%
XYZ	15.5360, 14.5417, 19.1323
YIQ	108.3200, 5.2710, 9.1030

# Conversions

## Conversions Part 2

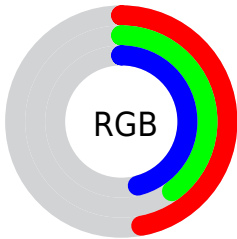
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	119, 101, 118
Decimal	7824758
CIE <sub>Lab</sub>	45.00, 10.45, -6.85
CIE <sub>LCh</sub>	45, 12.495, 326.763
Yxy	14.5417, 0.3157, 0.2955
Android (android.graphics.Color)	4286014838 (0xFF776576)
YUV	108.3200, 4.7722, 9.3664
Hunter-Lab	38.1336, 5.9887, -3.0534

# Details

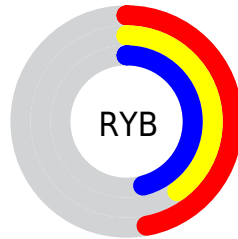
The CIELCh color  $45, 12.495, 326.763$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $48, 12.477, 145.080$ , and the grayscale version is  $46, 0.006, 296.813$ .

A 20% lighter version of the original color is  $65, 12.351, 326.477$ , and  $25, 12.663, 325.542$  is the 20% darker color. If you saturate the color by 10%, you get  $42, 20.793, 327.309$ , and if you desaturate by 10%, it is  $48, 4.210, 326.196$ .

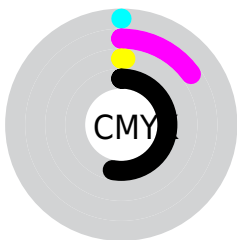
# Distribution



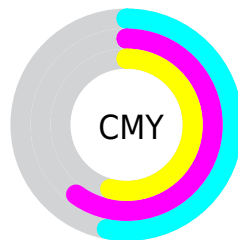
- Red (47%)
- Green (40%)
- Blue (46%)



- Red (47%)
- Yellow (40%)
- Blue (46%)



- Cyan (0%)
- Magenta (15%)
- Yellow (1%)
- Black (53%)




- Cyan (53%)
- Magenta (60%)
- Yellow (54%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 12.495, 326.763 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, 12.495, 326.763 by changing the saturation by 10% instead.





 45, 12.495,  
326.763


 45, 12.495,  
326.763


 100, 12.495,  
326.763


 35, 12.495,  
326.763

 65, 12.495,  
326.763


 25, 12.495,  
326.763

 75, 12.495,  
326.763

 15, 12.495,  
326.763

 85, 12.495,  
326.763

 5, 12.495, 326.763

 95, 12.495,  
326.763

 0, 12.495, 326.763

 45, 12.495,

 45, 12.495,

326.763

42, 20.793,  
327.309

39, 28.969,  
327.843

36, 36.826,  
328.359

33, 44.113,  
328.846

31, 50.536,  
329.292

30, 55.793,  
329.691

28, 59.635,  
330.038

27, 62.045,  
330.340

326.763

48, 4.210, 326.196

52, 3.961, 145.758

55, 11.960,  
145.213

59, 19.751,  
144.712

62, 27.318,  
144.237

66, 34.655,  
143.786

69, 41.765,  
143.361

73, 48.656,  
142.960

■ 27, 63.092,  
330.480

■ 76, 55.337,  
142.585

# Harmonies

# Complementary

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



45, 12.495, 326.763



48, 12.477, 145.080

# Rectangle

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



45, 12.495, 326.763



45, 12.495, 16.763



45, 12.495, 146.763



45, 12.495, 196.763

# Sweetspot

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



45, 12.493, 326.763



62, 5.116, 326.197



43, 10.838, 293.564



32, 3.519, 326.231



83, 0.010, 296.813



34, 0.005, 296.813





# Same Dimension

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



45, 12.493, 326.763



57, 18.535, 326.946



45, 8.884, 347.699



23, 4.581, 326.424



28, 64.365, 330.487



58, 108.869, 330.620



# Inverse Universe

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



45, 12.493, 326.763



57, 18.535, 326.946



48, 8.683, 165.190



23, 4.581, 326.424



28, 64.365, 330.487



58, 108.869, 330.620



# Previews

## White Background



This preview shows how the CIELCh color 45, 12.495, 326.763 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, 12.495, 326.763 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, 12.495, 326.763

## Background



This preview shows how black text looks on a background with the CIELCh color 45, 12.495, 326.763.



This preview shows how white text looks on a background with the CIELCh color 45, 12.495, 326.763.

# 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, 12.495, 326.763

**Protanopia**  
45, 8.970, 286.496

**Deuteranopia**  
45, 8.985, 311.996





**Tritanopia**  
45, 8.153, 344.715

# Trichromacy



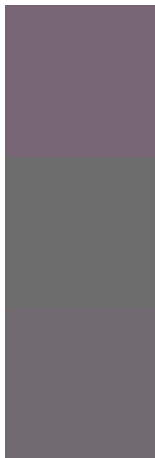
**Original Color**  
45, 12.495, 326.763

**Protanomaly**  
45, 9.796, 303.023

**Deuteranomaly**  
45, 10.202, 319.333

**Tritanomaly**  
45, 9.280, 335.672

# Monochromacy



**Original Color**  
45, 12.495, 326.763

**Achromatopsia**  
46, 0.006, 296.813

**Achromatomaly**  
45, 5.078, 324.732

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 45, 12.495, 326.763 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(119, 101, 118)` looks like.

```
.text, #text, p{  
    color:rgb(119, 101, 118)  
}
```

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(119, 101, 118) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(119, 101, 118) }
```

## Border

The CSS property to change the border of an element to CIELCh 45, 12.495, 326.763 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(119, 101, 118) }
```

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

```
.border{ border-color:rgb(119, 101, 118) }
```

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

Here you see how a box with a 4 pixel `rgb(119, 101, 118)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(119, 101, 118); -webkit-box-  
shadow:4px 4px 4px 4px rgb(119, 101, 118);  
box-shadow:4px 4px 4px 4px rgb(119, 101,  
118) }
```

# Background

The CSS property to change the background color of an element to CIELCh 45, 12.495, 326.763 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(119, 101, 118) }
```

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

```
.background{ background-color: rgb(119,  
101, 118) }
```

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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