

# Converting Colors

CIELCh(45, 12.314, 306.917)

Have a look what the booklet for  
CIELCh(45, 12.314, 306.917)  
contains.

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# Color

**CIELCh(45, 12.406, 306.312)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	6F677B
RGB	111, 103, 123
RGB Percent	44%, 40%, 48%
CMY	0.5643, 0.5956, 0.5172
CMYK	0.10, 0.16, 0.00, 0.52
HSL	264°, 9%, 44%
HSV	264°, 16%, 48%
XYZ	15.0127, 14.5417, 20.7912
YIQ	107.6720, -1.6520, 7.9160

# Conversions

## Conversions Part 2

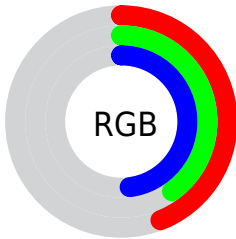
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	111, 103, 123
Decimal	7300987
CIE Lab	45.00, 7.35, -10.00
CIE LCh	45, 12.406, 306.312
Yxy	14.5417, 0.2982, 0.2888
Android (android.graphics.Color)	4285491067 (0xFF6F677B)
YUV	107.6720, 7.5567, 2.9187
Hunter-Lab	38.1336, 3.5393, -5.6326

# Details

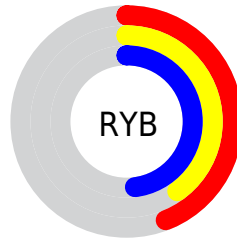
The CIELCh color  $45, 12.406, 306.312$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $50, 12.089, 124.733$ , and the grayscale version is  $46, 0.006, 296.813$ .

A 20% lighter version of the original color is  $65, 12.202, 307.111$ , and  $25, 12.299, 306.298$  is the 20% darker color. If you saturate the color by 10%, you get  $41, 20.341, 306.886$ , and if you desaturate by 10%, it is  $49, 4.699, 305.784$ .

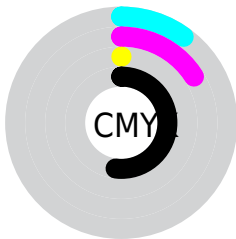
# Distribution



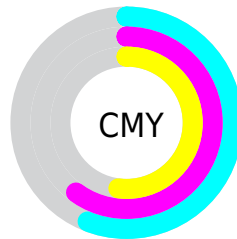
- Red (44%)
- Green (40%)
- Blue (48%)



- Red (44%)
- Yellow (40%)
- Blue (48%)



- Cyan (10%)
- Magenta (16%)
- Yellow (0%)
- Black (52%)




- Cyan (56%)
- Magenta (60%)
- Yellow (52%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 12.406, 306.312 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, 12.406, 306.312 by changing the saturation by 10% instead.





 45, 12.406,  
306.312


 45, 12.406,  
306.312


 100, 12.406,  
306.312


 35, 12.406,  
306.312

 65, 12.406,  
306.312


 25, 12.406,  
306.312

 75, 12.406,  
306.312

 15, 12.406,  
306.312


 85, 12.406,  
306.312

 5, 12.406, 306.312

 95, 12.406,  
306.312

 0, 12.406, 306.312

 45, 12.406,

 45, 12.406,

306.312

41, 20.341,  
306.886

37, 28.479,  
307.508

33, 36.756,  
308.165

29, 45.051,  
308.827

25, 53.143,  
309.445

22, 60.668,  
309.939

19, 67.100,  
310.201

17, 72.098,  
310.184

306.312

49, 4.699, 305.784

53, 2.768, 125.355

57, 9.999, 124.930

61, 17.000,  
124.567

65, 23.782,  
124.252

69, 30.356,  
123.978

73, 36.734,  
123.741

77, 42.927,  
123.537

81, 48.946,

■ 16, 74.024,  
310.242

123.362

# Harmonies

# Complementary

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



45, 12.406, 306.312



50, 12.089, 124.733

# Rectangle

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



45, 12.406, 306.312



45, 12.406, 356.312



45, 12.406, 126.312



45, 12.406, 176.312

# Sweetspot

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



45, 12.405, 306.311



64, 4.670, 305.727



48, 6.456, 243.679



33, 3.213, 305.756



84, 0.010, 296.813



35, 0.005, 296.813





# Same Dimension

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



45, 12.405, 306.311



56, 18.124, 306.490



46, 13.853, 321.973



24, 4.234, 305.929



16, 74.830, 310.225



38, 126.766, 309.663



# Inverse Universe

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



46, 10.849, 339.811



58, 15.809, 340.073



50, 13.790, 140.430



24, 3.721, 339.242



26, 51.831, 351.778



55, 86.440, 353.562



# Previews

## White Background



This preview shows how the CIELCh color 45, 12.406, 306.312 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, 12.406, 306.312 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

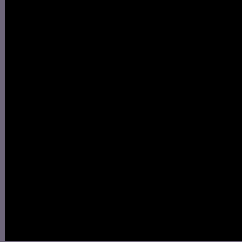
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 45, 12.406, 306.312

## Background



This preview shows how black text looks on a background with the CIELCh color 45, 12.406, 306.312.



This preview shows how white text looks on a background with the CIELCh color 45, 12.406, 306.312.

# 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, 12.406, 306.312

### Protanopia

45, 11.369, 286.018

### Deuteranopia

45, 11.554, 301.382





**Tritanopia**  
45, 5.065, 309.349

# Trichromacy



**Original Color**  
45, 12.406, 306.312

**Protanomaly**  
45, 11.364, 293.688

**Deuteranomaly**  
45, 11.628, 303.276

**Tritanomaly**  
45, 8.162, 308.201

# Monochromacy



**Original Color**  
45, 12.406, 306.312

**Achromatopsia**  
46, 0.006, 296.813

**Achromatomaly**  
45, 4.365, 306.801

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 45, 12.406, 306.312 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(111, 103, 123)` looks like.

```
.text, #text, p{  
    color:rgb(111, 103, 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(111, 103, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(111, 103, 123) }
```

## Border

The CSS property to change the border of an element to CIELCh 45, 12.406, 306.312 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(111, 103, 123) }
```

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

```
.border{ border-color:rgb(111, 103, 123) }
```

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

Here you see how a box with a 4 pixel `rgb(111, 103, 123)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(111, 103, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(111, 103, 123);  
box-shadow:4px 4px 4px 4px rgb(111, 103,  
123) }
```

# Background

The CSS property to change the background color of an element to CIELCh 45, 12.406, 306.312 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(111, 103, 123) }
```

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

```
.background{ background-color: rgb(111,  
103, 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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