

# Converting Colors

CIELCh(45, 11.647, 303.283)

Have a look what the booklet for  
CIELCh(45, 11.647, 303.283)  
contains.

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# Color

**CIELCh(45, 11.628, 303.276)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	6E687B
RGB	110, 104, 123
RGB Percent	43%, 41%, 48%
CMY	0.5700, 0.5935, 0.5191
CMYK	0.11, 0.15, 0.00, 0.52
HSL	259°, 8%, 44%
HSV	259°, 15%, 48%
XYZ	14.8522, 14.5417, 20.6424
YIQ	107.9600, -2.5230, 7.1810

# Conversions

## Conversions Part 2

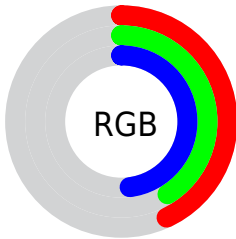
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	110, 104, 123
Decimal	7235707
CIE Lab	45.00, 6.38, -9.72
CIE LCh	45, 11.628, 303.276
Yxy	14.5417, 0.2968, 0.2906
Android (android.graphics.Color)	4285425787 (0xFF6E687B)
YUV	107.9600, 7.4147, 1.7891
Hunter-Lab	38.1336, 2.7880, -5.4012

# Details

The CIELCh color  $45, 11.628, 303.276$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $50, 11.307, 121.565$ , and the grayscale version is  $45, 0.006, 296.813$ .

A 20% lighter version of the original color is  $65, 11.464, 304.285$ , and  $25, 11.453, 302.912$  is the 20% darker color. If you saturate the color by 10%, you get  $41, 19.455, 303.943$ , and if you desaturate by 10%, it is  $49, 4.052, 302.675$ .

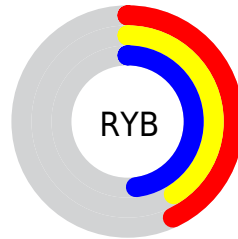
# Distribution



Red (43%)

Green (41%)

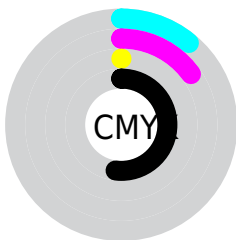
Blue (48%)



Red (43%)

Yellow (41%)

Blue (48%)

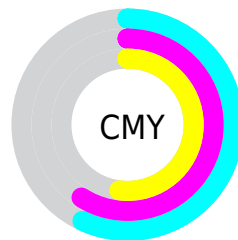


Cyan (11%)

Magenta (15%)

Yellow (0%)

Black (52%)



Cyan (57%)

Magenta (59%)


Yellow (52%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 11.628, 303.276 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, 11.628, 303.276 by changing the saturation by 10% instead.





 45, 11.628,  
303.276


 45, 11.628,  
303.276


 100, 11.628,  
303.276


 35, 11.628,  
303.276

 65, 11.628,  
303.276


 25, 11.628,  
303.276

 75, 11.628,  
303.276

 15, 11.628,  
303.276


 85, 11.628,  
303.276

 5, 11.628, 303.276

 95, 11.628,  
303.276

 0, 11.628, 303.276

 45, 11.628,

 45, 11.628,

303.276

41, 19.455,  
303.943

37, 27.523,  
304.684

33, 35.789,  
305.488

29, 44.158,  
306.333

25, 52.439,  
307.171

21, 60.290,  
307.919

18, 67.159,  
308.453

16, 72.543,  
308.684

303.276

49, 4.052, 302.675

53, 3.270, 122.174

58, 10.348,  
121.709

62, 17.193,  
121.310

66, 23.818,  
120.964

70, 30.235,  
120.665

74, 36.457,  
120.407

78, 42.496,  
120.185

■ 15,75.006,  
308.874

■ 82,48.362,  
119.995

# Harmonies

# Complementary

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



45, 11.628, 303.276



50, 11.307, 121.565

# Rectangle

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



45, 11.628, 303.276



45, 11.628, 353.276



45, 11.628, 123.276



45, 11.628, 173.276

# Sweetspot

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



45, 11.627, 303.274



64, 4.607, 302.655



48, 6.042, 232.806



33, 3.170, 302.688



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, 11.627, 303.274



56, 17.914, 303.532



46, 12.853, 319.456



24, 4.179, 302.883



15, 76.040, 308.855



35, 128.817, 308.359



# Inverse Universe

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



46, 10.926, 335.948



58, 16.759, 336.238



50, 12.757, 138.113



24, 3.951, 335.489



27, 54.236, 345.283



56, 90.381, 346.522



# Previews

## White Background



This preview shows how the CIELCh color 45, 11.628, 303.276 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, 11.628, 303.276 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

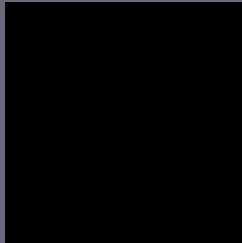
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 45, 11.628, 303.276**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 45, 11.628, 303.276.

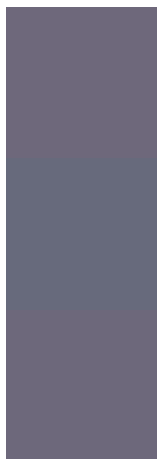


This preview shows how white text looks on a background with the CIELCh color 45, 11.628, 303.276.

# 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, 11.628, 303.276


### Protanopia

45, 10.777, 285.597

### Deuteranopia

45, 11.554, 301.382





**Tritanopia**  
45, 5.529, 303.456

# Trichromacy



**Original Color**  
45, 11.628, 303.276

**Protanomaly**  
45, 11.351, 291.761

**Deuteranomaly**  
45, 11.554, 301.382

**Tritanomaly**  
45, 7.365, 303.592

# Monochromacy



**Original Color**  
45, 11.628, 303.276

**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, 11.628, 303.276 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(110, 104, 123)` looks like.

```
.text, #text, p{  
    color:rgb(110, 104, 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(110, 104, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(110, 104, 123) }
```

## Border

The CSS property to change the border of an element to CIELCh 45, 11.628, 303.276 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(110, 104, 123) }
```

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

```
.border{ border-color:rgb(110, 104, 123) }
```

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

Here you see how a box with a 4 pixel `rgb(110, 104, 123)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(110, 104, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(110, 104, 123);  
box-shadow:4px 4px 4px 4px rgb(110, 104,  
123) }
```

# Background

The CSS property to change the background color of an element to CIELCh 45, 11.628, 303.276 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(110, 104, 123) }
```

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

```
.background{ background-color: rgb(110,  
104, 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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