

# Converting Colors

CIELCh(45, 12.932, 287.686)

Have a look what the booklet for  
CIELCh(45, 12.932, 287.686)  
contains.

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# Color

**CIELCh(45, 13.148, 288.733)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	67697F
RGB	103, 105, 127
RGB Percent	40%, 41%, 50%
CMY	0.5958, 0.5879, 0.5016
CMYK	0.19, 0.17, 0.00, 0.50
HSL	235°, 10%, 45%
HSV	235°, 19%, 50%
XYZ	14.4981, 14.5417, 22.1491
YIQ	106.9100, -8.2540, 6.4180

# Conversions

## Conversions Part 2

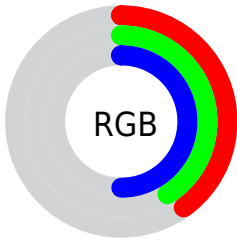
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	103, 105, 127
Decimal	6777215
CIE <sub>Lab</sub>	45.00, 4.22, -12.45
CIE <sub>LCh</sub>	45, 13.148, 288.733
Yxy	14.5417, 0.2832, 0.2841
Android (android.graphics.Color)	4284967295 (0xFF67697F)
YUV	106.9100, 9.9044, -3.4291
Hunter-Lab	38.1336, 1.1306, -7.7439

# Details

The CIELCh color **45, 13.148, 288.733** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **52, 12.706, 104.714**, and the grayscale version is **45, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 13.362, 288.519**, and **25, 13.197, 289.447** is the 20% darker color. If you saturate the color by 10%, you get **41, 20.477, 290.134**, and if you desaturate by 10%, it is **49, 6.081, 287.533**.

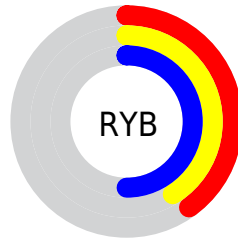
# Distribution



Red (40%)

Green (41%)

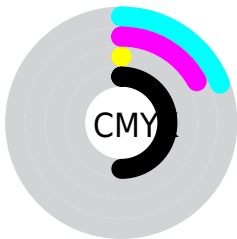
Blue (50%)



Red (40%)

Yellow (41%)

Blue (50%)

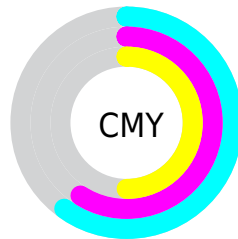


Cyan (19%)

Magenta (17%)

Yellow (0%)

Black (50%)



Cyan (60%)

Magenta (59%)


Yellow (50%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 13.148, 288.733 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, 13.148, 288.733 by changing the saturation by 10% instead.





 45, 13.148,  
288.733


 45, 13.148,  
288.733


 100, 13.148,  
288.733


 35, 13.148,  
288.733

 65, 13.148,  
288.733


 25, 13.148,  
288.733

 75, 13.148,  
288.733

 15, 13.148,  
288.733


 85, 13.148,  
288.733

 5, 13.148, 288.733

 95, 13.148,  
288.733

 0, 13.148, 288.733

 45, 13.148,

 45, 13.148,

288.733

41, 20.477,  
290.134

36, 28.093,  
291.769

32, 36.007,  
293.655

28, 44.208,  
295.791

24, 52.609,  
298.130

20, 60.952,  
300.548

17, 68.678,  
302.827

14, 74.951,  
304.594

288.733

49, 6.081, 287.533

54, 0.741, 106.394

58, 7.336, 105.592

62, 13.719,  
104.830

67, 19.904,  
104.166

71, 25.903,  
103.587

75, 31.726,  
103.079

79, 37.383,  
102.632

83, 42.882,

■ 14, 75.531,  
304.734

102.236

# Harmonies

# Complementary

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



45, 13.148, 288.733



52, 12.706, 104.714

# Rectangle

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



45, 13.148, 288.733



45, 13.148, 338.733



45, 13.148, 108.733



45, 13.148, 158.733

# Sweetspot

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



45, 13.147, 288.731



65, 5.080, 287.239



51, 9.310, 189.788



34, 3.398, 287.294



85, 0.010, 296.813



36, 0.005, 296.813





# Same Dimension

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



45, 13.147, 288.731



56, 20.061, 289.357



45, 14.862, 306.461



25, 3.868, 287.557



14, 75.725, 304.740



0, 0.000, 0.000



# Inverse Universe

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



46, 10.228, 14.073



57, 15.706, 14.577



52, 14.422, 124.599



25, 2.965, 13.129



25, 58.707, 34.961



0, 0.000, 0.000



# Previews

## White Background



This preview shows how the CIELCh color 45, 13.148, 288.733 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 CIE LCh color 45, 13.148, 288.733 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

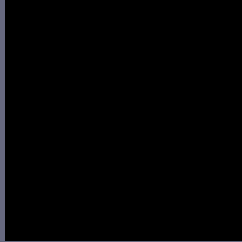
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

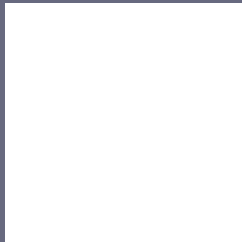
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 45, 13.148, 288.733

## Background



This preview shows how black text looks on a background with the CIELCh color 45, 13.148, 288.733.



This preview shows how white text looks on a background with the CIELCh color 45, 13.148, 288.733.

# 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, 13.148, 288.733


### Protanopia

45, 13.167, 287.114

### Deuteranopia

45, 13.789, 295.230





**Tritanopia**  
45, 5.812, 267.131

# Trichromacy



**Original Color**  
45, 13.148, 288.733

**Protanomaly**  
45, 13.167, 287.114

**Deuteranomaly**  
45, 13.769, 293.662

**Tritanomaly**  
45, 8.467, 280.857

# Monochromacy



**Original Color**  
45, 13.148, 288.733

**Achromatopsia**  
45, 0.006, 296.813

**Achromatomaly**  
45, 4.777, 290.856

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 45, 13.148, 288.733 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(103, 105, 127)` looks like.

```
.text, #text, p{  
    color:rgb(103, 105, 127)  
}
```

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(103, 105, 127) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 105, 127) }
```

## Border

The CSS property to change the border of an element to CIELCh 45, 13.148, 288.733 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(103, 105, 127) }
```

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

```
.border{ border-color:rgb(103, 105, 127) }
```

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

Here you see how a box with a 4 pixel `rgb(103, 105, 127)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 105, 127); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 105, 127);  
box-shadow:4px 4px 4px 4px rgb(103, 105,  
127) }
```

# Background

The CSS property to change the background color of an element to CIELCh 45, 13.148, 288.733 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 105, 127) }
```

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

```
.background{ background-color: rgb(103,  
105, 127) }
```

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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