

# Converting Colors

CIELCh(45, 11.121, 289.128)

Have a look what the booklet for  
CIELCh(45, 11.121, 289.128)  
contains.

<b>CIELCh(45, 11.352, 289.841)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# Color

**CIELCh(45, 11.352, 289.841)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	68697C
RGB	104, 105, 124
RGB Percent	41%, 41%, 49%
CMY	0.5916, 0.5877, 0.5132
CMYK	0.16, 0.15, 0.00, 0.51
HSL	237°, 9%, 45%
HSV	237°, 16%, 49%
XYZ	14.4380, 14.5417, 21.1624
YIQ	106.8670, -6.6950, 5.6970

# Conversions

## Conversions Part 2

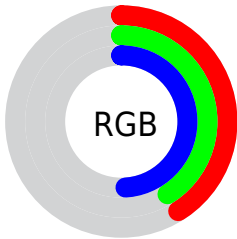
<b>Format</b>	<b>Color</b>
<b>RYB</b>	104, 105, 124
Decimal	6842748
CIELab	45.00, 3.85, -10.68
CIELCh	45, 11.352, 289.841
Yxy	14.5417, 0.2879, 0.2900
Android (android.graphics.Color)	4285032828 (0xFF68697C)
YUV	106.8670, 8.4466, -2.5144
Hunter-Lab	38.1336, 0.8493, -6.2097

# Details

The CIELCh color  $45, 11.352, 289.841$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $51, 10.998, 106.550$ , and the grayscale version is  $45, 0.006, 296.813$ .

A 20% lighter version of the original color is  $65, 11.687, 289.643$ , and  $25, 11.218, 290.419$  is the 20% darker color. If you saturate the color by 10%, you get  $41, 18.744, 291.150$ , and if you desaturate by 10%, it is  $49, 4.232, 288.723$ .

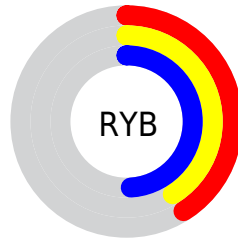
# Distribution



Red (41%)

Green (41%)

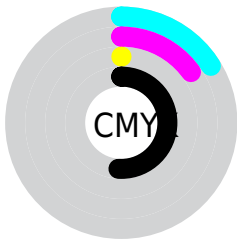
Blue (49%)



Red (41%)

Yellow (41%)

Blue (49%)

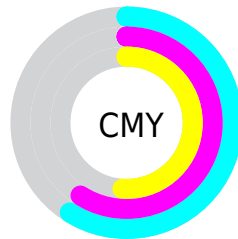


Cyan (16%)

Magenta (15%)

Yellow (0%)

Black (51%)



Cyan (59%)

Magenta (59%)


Yellow (51%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 11.352, 289.841 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, 11.352, 289.841 by changing the saturation by 10% instead.





 45, 11.352,  
289.841


 45, 11.352,  
289.841


 100, 11.352,  
289.841


 35, 11.352,  
289.841

 65, 11.352,  
289.841


 25, 11.352,  
289.841

 75, 11.352,  
289.841

 15, 11.352,  
289.841


 85, 11.352,  
289.841

 5, 11.352, 289.841

 95, 11.352,  
289.841

 0, 11.352, 289.841

 45, 11.352,

 45, 11.352,

289.841

289.841

■ 41, 18.744,  
291.150

■ 49, 4.232, 288.723

■ 36, 26.432,  
292.680

■ 54, 2.632, 107.724

■ 32, 34.429,  
294.450

■ 58, 9.261, 106.914

■ 28, 42.723,  
296.461

■ 62, 15.671,  
106.204

■ 23, 51.225,  
298.670

■ 67, 21.875,  
105.588

■ 20, 59.678,  
300.964

■ 71, 27.887,  
105.051

■ 16, 67.510,  
303.128

■ 75, 33.717,  
104.582

■ 14, 73.801,  
304.839

■ 79, 39.376,  
104.170

■ 83, 44.875,

■ 13,75.842,  
305.325

103.806

# Harmonies

# Complementary

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



45, 11.352, 289.841



51, 10.998, 106.550

# Rectangle

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



45, 11.352, 289.841



45, 11.352, 339.841



45, 11.352, 109.841



45, 11.352, 159.841

# Sweetspot

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



45, 11.351, 289.838



63, 4.268, 288.623



50, 7.766, 192.838



33, 2.937, 288.681



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, 11.351, 289.838



56, 16.629, 290.253



45, 12.454, 307.471



23, 3.873, 289.031



13, 76.215, 305.333



33, 130.820, 305.874



# Inverse Universe

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



46, 8.466, 16.440



57, 12.468, 16.759



51, 12.157, 125.974



24, 2.854, 15.813



25, 58.654, 36.179



53, 101.864, 38.621



# Previews

## White Background



This preview shows how the CIE LCh color 45, 11.352, 289.841 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, 11.352, 289.841 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

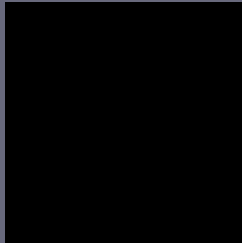
Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

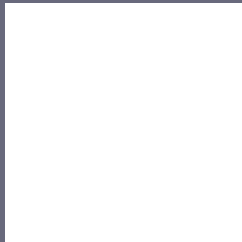
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 45, 11.352, 289.841**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 45, 11.352, 289.841.



This preview shows how white text looks on a background with the CIELCh color 45, 11.352, 289.841.

# 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, 11.352, 289.841


### Protanopia

45, 10.777, 285.597

### Deuteranopia

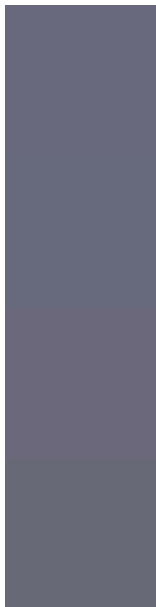
45, 12.084, 299.145





**Tritanopia**  
45, 4.996, 272.455

# Trichromacy



**Original Color**  
45, 11.352, 289.841

**Protanomaly**  
45, 10.777, 285.597

**Deuteranomaly**  
45, 12.037, 297.326

**Tritanomaly**  
45, 7.236, 281.895

# Monochromacy



**Original Color**  
45, 11.352, 289.841

**Achromatopsia**  
45, 0.006, 296.813

**Achromatomaly**  
45, 4.181, 290.774

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 45, 11.352, 289.841 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(104, 105, 124)` looks like.

```
.text, #text, p{  
    color:rgb(104, 105, 124)  
}
```

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(104, 105, 124) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 105, 124) }
```

## Border

The CSS property to change the border of an element to CIELCh 45, 11.352, 289.841 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(104, 105, 124) }
```

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

```
.border{ border-color:rgb(104, 105, 124) }
```

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

Here you see how a box with a 4 pixel `rgb(104, 105, 124)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 105, 124); -webkit-box-  
shadow:4px 4px 4px 4px rgb(104, 105, 124);  
box-shadow:4px 4px 4px 4px rgb(104, 105,  
124) }
```

# Background

The CSS property to change the background color of an element to CIELCh 45, 11.352, 289.841 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 105, 124) }
```

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

```
.background{ background-color: rgb(104,  
105, 124) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor