

# Converting Colors

CIELCh(45, 60.436, 17.442)

Have a look what the booklet for  
CIELCh(45, 60.436, 17.442) contains.

<b>CIELCh(45, 60.373, 17.346)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	20
<i><b>Color Blindness Simulation</b></i> .....	23
<i><b>CSS Examples</b></i> .....	26

**Color**

**CIELCh(45, 60.373, 17.346)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C33450
RGB	195, 52, 80
RGB Percent	76%, 20%, 31%
CMY	0.2369, 0.7977, 0.6875
CMYK	0.00, 0.73, 0.59, 0.24
HSL	348°, 58%, 48%
HSV	348°, 73%, 76%
XYZ	25.0467, 14.5417, 9.0160
YIQ	97.9490, 76.2400, 39.0240

# Conversions

## Conversions Part 2

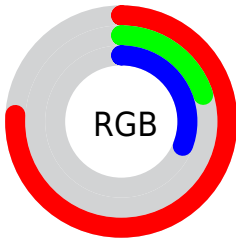
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">195, 52, 80</a>
Decimal	<a href="#">12792912</a>
CIELab	<a href="#">45.00, 57.63, 18.00</a>
CIELCh	<a href="#">45, 60.373, 17.346</a>
Yxy	<a href="#">14.5417, 0.5153, 0.2992</a>
Android (android.graphics.Color)	<a href="#">4290982992 (0xFFC33450)</a>
YUV	<a href="#">97.9490, -8.8489, 85.1137</a>
Hunter-Lab	<a href="#">38.1336, 50.5074, 12.6755</a>

# Details

The CIELCh color **45, 60.373, 17.346** is a dark color, and the websafe version is hex **CC3366**. The color can be described as dark muted red. A complement of this color would be **71, 43.888, 175.539**, and the grayscale version is **41, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 59.798, 16.966**, and **28, 55.067, 22.431** is the 20% darker color. If you saturate the color by 10%, you get **43, 67.040, 21.592**, and if you desaturate by 10%, it is **48, 52.763, 13.928**.

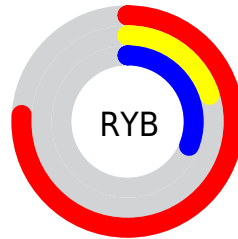
# Distribution



Red (76%)

Green (20%)

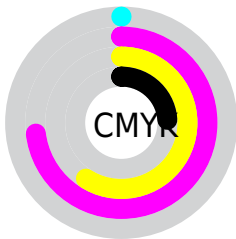
Blue (31%)



Red (76%)

Yellow (20%)

Blue (31%)

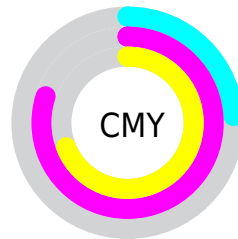


Cyan (0%)

Magenta (73%)

Yellow (59%)

Black (24%)



Cyan (24%)

Magenta (80%)

Yellow (69%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 60.373, 17.346 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, 60.373, 17.346 by changing the saturation by 10% instead.



 45, 60.373, 17.346

 45, 60.373, 17.346

 100, 60.373,  
17.346

 35, 60.373, 17.346

 65, 60.373, 17.346

 25, 60.373, 17.346

 75, 60.373, 17.346

 15, 60.373, 17.346

 85, 60.373, 17.346

 5, 60.373, 17.346

 95, 60.373, 17.346

 0, 60.373, 17.346

 45, 60.373, 17.346

 45, 60.373, 17.346

 43, 67.040, 21.592

 48, 52.763, 13.928

 41, 72.723, 26.601

 52, 44.471, 11.221

41, 76.144, 29.930

56, 35.826, 9.077

61, 27.136, 7.357

66, 18.624, 5.950

71, 10.431, 4.767

77, 2.627, 3.642

82, 4.765, 183.093

88, 11.750,  
182.294

# Harmonies

# Complementary

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



45, 60.373, 17.346



71, 43.888, 175.539

# Rectangle

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



45, 60.373, 17.346



45, 60.373, 67.346



45, 60.373, 197.346



45, 60.373, 247.346

# Sweetspot

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



45, 60.370, 17.348



85, 21.494, 5.805



45, 83.534, 321.369



44, 14.655, 6.161



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



45, 60.370, 17.348



54, 85.752, 24.467



52, 56.248, 48.767



38, 4.324, 4.321



33, 65.574, 29.084



3, 14.278, 8.806





# Inverse Universe

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



45, 60.370, 17.348



54, 85.752, 24.467



59, 33.664, 244.650



38, 4.324, 4.321



33, 65.574, 29.084

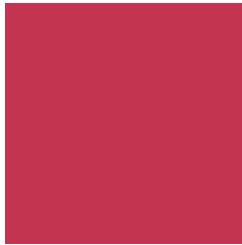


3, 14.278, 8.806



# Previews

## White Background



This preview shows how the CIELCh color 45, 60.373, 17.346 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, 60.373, 17.346 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, 60.373, 17.346

## Background



This preview shows how black text looks on a background with the CIELCh color 45, 60.373, 17.346.



This preview shows how white text looks on a background with the CIELCh color 45, 60.373, 17.346.

# 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, 60.373, 17.346

### Protanopia

45, 1.708, 63.293

### Deuteranopia

45, 21.447, 74.791



**Tritanopia**  
45, 62.892, 29.778



# Trichromacy



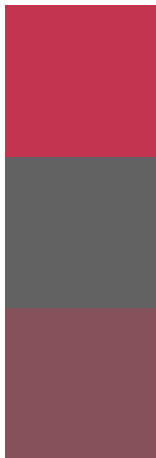
**Original Color**  
45, 60.373, 17.346

**Protanomaly**  
43, 23.953, 10.236

**Deuteranomaly**  
44, 32.443, 33.035

**Tritanomaly**  
45, 61.625, 25.238

# Monochromacy



**Original Color**  
45, 60.373, 17.346

**Achromatopsia**  
42, 0.006, 296.813

**Achromatomaly**  
41, 23.401, 8.388

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 45, 60.373, 17.346 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(195, 52, 80)` looks like.

```
.text, #text, p{  
    color:rgb(195, 52, 80)  
}
```

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(195, 52, 80) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(195, 52, 80) }
```

## Border

The CSS property to change the border of an element to CIELCh 45, 60.373, 17.346 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(195, 52, 80) }
```

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

```
.border{ border-color:rgb(195, 52, 80) }
```

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

Here you see how a box with a 4 pixel rgb(195, 52, 80) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(195, 52, 80); -webkit-box-  
shadow:4px 4px 4px 4px rgb(195, 52, 80);  
box-shadow:4px 4px 4px 4px rgb(195, 52,  
80) }
```

# Background

The CSS property to change the background color of an element to CIELCh 45, 60.373, 17.346 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(195, 52, 80) }
```

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

```
.background{ background-color: rgb(195, 52,  
80) }
```

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