

# Converting Colors

CIELCh(45, 1.506, 44.020)

Have a look what the booklet for  
CIELCh(45, 1.506, 44.020) contains.

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# Color

**CIELCh(45, 1.369, 45.018)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	6D6A69
RGB	109, 106, 105
RGB Percent	43%, 42%, 41%
CMY	0.5731, 0.5848, 0.5887
CMYK	0.00, 0.03, 0.04, 0.57
HSL	15°, 2%, 42%
HSV	15°, 4%, 43%
XYZ	13.9746, 14.5417, 15.4001
YIQ	106.7830, 2.1090, 0.3250

# Conversions

## Conversions Part 2

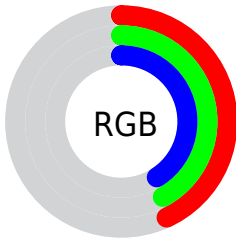
Format	Color
<b>R<sub>YB</sub></b>	109, 106, 105
Decimal	7170665
CIE Lab	45.00, 0.97, 0.97
CIE LCh	45, 1.369, 45.018
Yxy	14.5417, 0.3182, 0.3311
Android (android.graphics.Color)	4285360745 (0xFF6D6A69)
YUV	106.7830, -0.8790, 1.9443
Hunter-Lab	38.1336, -1.3198, 2.7494

# Details

The CIELCh color **45, 1.369, 45.018** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **45, 1.345, 225.892**, and the grayscale version is **45, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 1.271, 44.959**, and **25, 1.521, 45.023** is the 20% darker color. If you saturate the color by 10%, you get **42, 5.292, 44.880**, and if you desaturate by 10%, it is **48, 2.280, 225.911**.

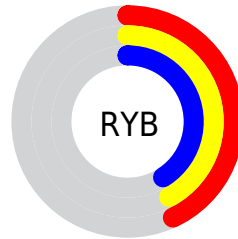
# Distribution



Red (43%)

Green (42%)

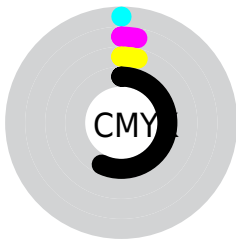
Blue (41%)



Red (43%)

Yellow (42%)

Blue (41%)

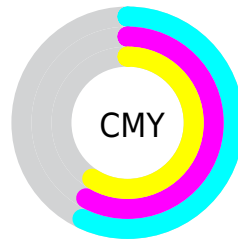


Cyan (0%)

Magenta (3%)

Yellow (4%)

Black (57%)



Cyan (57%)

Magenta (58%)

Yellow (59%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 1.369, 45.018 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, 1.369, 45.018 by changing the saturation by 10% instead.



 45, 1.369, 45.018	 45, 1.369, 45.018
 100, 1.369, 45.018	 35, 1.369, 45.018
 65, 1.369, 45.018	 25, 1.369, 45.018
 75, 1.369, 45.018	 15, 1.369, 45.018
 85, 1.369, 45.018	 5, 1.369, 45.018
 95, 1.369, 45.018	 0, 1.369, 45.018

 45, 1.369, 45.018	 45, 1.369, 45.018
 42, 5.292, 44.880	 48, 2.280, 225.911
 40, 9.517, 44.601	 50, 5.683, 226.298
 37, 14.070, 44.403	 53, 8.867, 226.779

35, 18.966, 44.322

56, 11.859,  
227.287

32, 24.205, 44.383

59, 14.681,  
227.807

30, 29.760, 44.598

28, 35.543, 44.948

61, 17.352,  
228.330

26, 41.359, 45.339

64, 19.893,  
228.850

25, 46.503, 45.187

67, 22.317,  
229.364

69, 24.638,  
229.868

# Harmonies

# Complementary

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



45, 1.369, 45.018



45, 1.345, 225.892

# Rectangle

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



45, 1.369, 45.018



45, 1.369, 95.018



45, 1.369, 225.018



45, 1.369, 275.018

# Sweetspot

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



45, 1.369, 45.078



59, 0.459, 44.541



45, 2.444, 332.478



30, 0.259, 44.464



80, 0.010, 296.813



30, 0.005, 296.813



# Same Dimension

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



45, 1.369, 45.078



58, 1.865, 45.087



46, 1.819, 96.763



22, 1.036, 45.090



26, 52.740, 45.341



55, 94.625, 44.766





# Inverse Universe

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



45, 1.345, 225.892



58, 1.828, 225.887



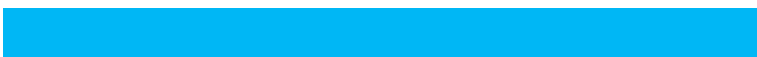
45, 1.834, 277.706



22, 1.013, 225.887



35, 25.527, 244.312



70, 44.606, 247.258



# Previews

## White Background



This preview shows how the CIELCh color 45, 1.369, 45.018 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, 1.369, 45.018 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

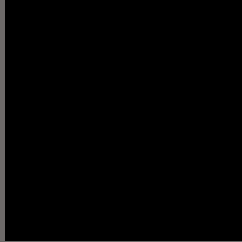
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

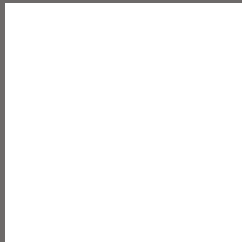
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 45, 1.369, 45.018

## Background



This preview shows how black text looks on a background with the CIELCh color 45, 1.369, 45.018.



This preview shows how white text looks on a background with the CIELCh color 45, 1.369, 45.018.

# 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, 1.369, 45.018

### Protanopia

45, 1.369, 45.018

### Deuteranopia

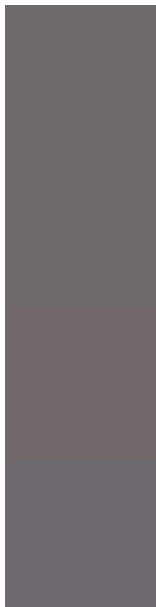
45, 5.983, 8.677



**Tritanopia**  
45, 5.210, 313.569



# Trichromacy



**Original Color**  
45, 1.369, 45.018

**Protanomaly**  
45, 1.369, 45.018

**Deuteranomaly**  
45, 4.215, 11.755

**Tritanomaly**  
45, 3.636, 324.631

# Monochromacy



**Original Color**  
45, 1.369, 45.018

**Achromatopsia**  
45, 0.006, 296.813

**Achromatomaly**  
45, 0.715, 74.882

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 45, 1.369, 45.018 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(109, 106, 105)` looks like.

```
.text, #text, p{  
    color:rgb(109, 106, 105)  
}
```

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(109, 106, 105) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(109, 106, 105) }
```

## Border

The CSS property to change the border of an element to CIELCh 45, 1.369, 45.018 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(109, 106, 105) }
```

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

```
.border{ border-color:rgb(109, 106, 105) }
```

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

Here you see how a box with a 4 pixel `rgb(109, 106, 105)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(109, 106, 105); -webkit-box-  
shadow:4px 4px 4px 4px rgb(109, 106, 105);  
box-shadow:4px 4px 4px 4px rgb(109, 106,  
105) }
```

# Background

The CSS property to change the background color of an element to CIELCh 45, 1.369, 45.018 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(109, 106, 105) }
```

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

```
.background{ background-color: rgb(109,  
106, 105) }
```

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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