

# Converting Colors

CIELCh(45, 5.479, 56.814)

Have a look what the booklet for  
CIELCh(45, 5.479, 56.814) contains.

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# Color

**CIELCh(45, 5.553, 59.559)**

# Conversions

## Conversions Part 1

Format	Color
Hex	736963
RGB	115, 105, 99
RGB Percent	45%, 41%, 39%
CMY	0.5505, 0.5897, 0.6132
CMYK	0.00, 0.09, 0.14, 0.55
HSL	23°, 7%, 42%
HSV	23°, 14%, 45%
XYZ	14.2699, 14.5417, 13.7681
YIQ	107.3060, 7.8860, 0.2540

# Conversions

## Conversions Part 2

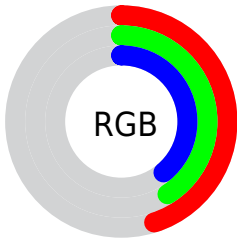
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	115, 109, 99
Decimal	7563619
CIE Lab	45.00, 2.81, 4.79
CIE LCh	45, 5.553, 59.559
Yxy	14.5417, 0.3351, 0.3415
Android (android.graphics.Color)	4285753699 (0xFF736963)
YUV	107.3060, -4.0949, 6.7476
Hunter-Lab	38.1336, 0.0624, 5.2869

# Details

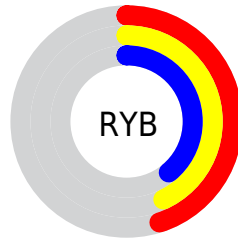
The CIELCh color **45, 5.553, 59.559** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **45, 5.231, 242.356**, and the grayscale version is **45, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 5.441, 57.193**, and **25, 5.420, 57.019** is the 20% darker color. If you saturate the color by 10%, you get **43, 9.844, 58.738**, and if you desaturate by 10%, it is **47, 1.522, 60.315**.

# Distribution



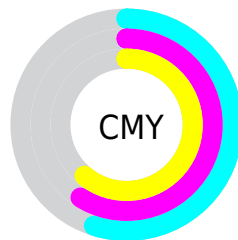
- Red (45%)
- Green (41%)
- Blue (39%)



- Red (45%)
- Yellow (43%)
- Blue (39%)



- Cyan (0%)
- Magenta (9%)
- Yellow (14%)
- Black (55%)





- Cyan (55%)
- Magenta (59%)
- Yellow (61%)








# Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 5.553, 59.559 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, 5.553, 59.559 by changing the saturation by 10% instead.



 45, 5.553, 59.559	 45, 5.553, 59.559
 100, 5.553, 59.559	 35, 5.553, 59.559
 65, 5.553, 59.559	 25, 5.553, 59.559
 75, 5.553, 59.559	 15, 5.553, 59.559
 85, 5.553, 59.559	 5, 5.553, 59.559
 95, 5.553, 59.559	 0, 5.553, 59.559

 45, 5.553, 59.559	 45, 5.553, 59.559
 43, 9.844, 58.738	 47, 1.522, 60.315
 40, 14.417, 57.923	 50, 2.274, 241.550
 38, 19.286, 57.152	 52, 5.860, 242.367

36, 24.450, 56.433

55, 9.260, 243.240

34, 29.875, 55.759

57, 12.495,  
244.110

32, 35.463, 55.089

59, 15.586,  
244.964

30, 40.988, 54.310

29, 46.049, 53.228

62, 18.549,  
245.796

28, 48.973, 52.674

64, 21.399,  
246.604

67, 24.150,  
247.385

# Harmonies

# Complementary

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



45, 5.553, 59.559



45, 5.231, 242.356

# Rectangle

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



45, 5.553, 59.559



45, 5.553, 109.559



45, 5.553, 239.559



45, 5.553, 289.559

# Sweetspot

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



45, 5.553, 59.576



60, 1.901, 60.309



44, 8.974, 338.067



31, 1.345, 60.280



81, 0.010, 296.813



31, 0.005, 296.813



# Same Dimension

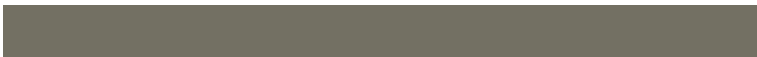
The Same Dimension uses a secret algorithm to generate beautiful new colors.



45, 5.553, 59.576



56, 8.433, 59.284



47, 8.195, 102.697



22, 2.166, 59.982



29, 50.859, 52.674



60, 89.216, 50.860





# Inverse Universe

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



45, 5.231, 242.356



57, 7.813, 242.766



43, 8.369, 285.691



22, 2.088, 241.834



30, 31.234, 266.654



62, 55.537, 269.781



# Previews

## White Background



This preview shows how the CIELCh color 45, 5.553, 59.559 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, 5.553, 59.559 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

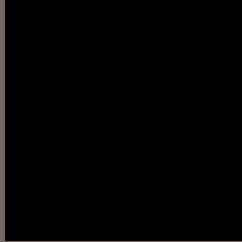
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 45, 5.553, 59.559

## Background



This preview shows how black text looks on a background with the CIELCh color 45, 5.553, 59.559.

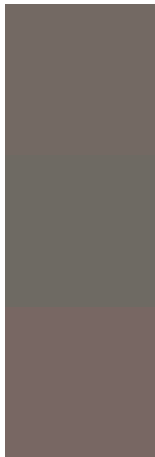


This preview shows how white text looks on a background with the CIELCh color 45, 5.553, 59.559.

# 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, 5.553, 59.559

### Protanopia

45, 4.482, 87.403

### Deuteranopia

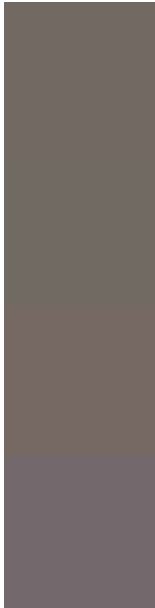
45, 7.678, 38.151



**Tritanopia**  
45, 7.174, 338.684



# Trichromacy



**Original Color**  
45, 5.553, 59.559

**Protanomaly**  
45, 4.866, 78.045

**Deuteranomaly**  
45, 6.692, 46.252

**Tritanomaly**  
45, 4.909, 358.677

# Monochromacy



**Original Color**  
45, 5.553, 59.559

**Achromatopsia**  
45, 0.006, 296.813

**Achromatomaly**  
45, 2.034, 55.135

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 45, 5.553, 59.559 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(115, 105, 99)` looks like.

```
.text, #text, p{  
    color:rgb(115, 105, 99)  
}
```

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(115, 105, 99) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(115, 105, 99) }
```

## Border

The CSS property to change the border of an element to CIELCh 45, 5.553, 59.559 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(115, 105, 99) }
```

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

```
.border{ border-color:rgb(115, 105, 99) }
```

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

Here you see how a box with a 4 pixel `rgb(115, 105, 99)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(115, 105, 99); -webkit-box-  
shadow:4px 4px 4px 4px rgb(115, 105, 99);  
box-shadow:4px 4px 4px 4px rgb(115, 105,  
99) }
```

# Background

The CSS property to change the background color of an element to CIELCh 45, 5.553, 59.559 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(115, 105, 99) }
```

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

```
.background{ background-color: rgb(115,  
105, 99) }
```

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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