

# Converting Colors

CIELCh(41, 11.683, 311.232)

Have a look what the booklet for  
CIELCh(41, 11.683, 311.232)  
contains.

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# Color

**CIELCh(41, 11.699, 311.650)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	675D6F
RGB	103, 93, 111
RGB Percent	40%, 36%, 44%
CMY	0.5960, 0.6352, 0.5646
CMYK	0.07, 0.16, 0.00, 0.56
HSL	273°, 9%, 40%
HSV	273°, 16%, 44%
XYZ	12.3817, 11.8645, 16.6815
YIQ	98.0420, 0.1820, 7.7180

# Conversions

## Conversions Part 2

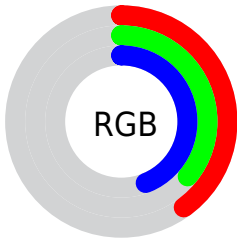
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	103, 93, 111
Decimal	6774127
CIE Lab	41.00, 7.77, -8.74
CIE LCh	41, 11.699, 311.650
Yxy	11.8645, 0.3025, 0.2899
Android (android.graphics.Color)	4284964207 (0xFF675D6F)
YUV	98.0420, 6.3883, 4.3482
Hunter-Lab	34.4449, 3.8856, -4.6024

# Details

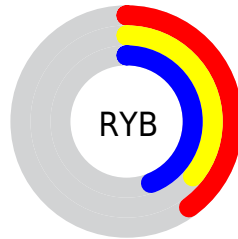
The CIELCh color  $[41, 11.699, 311.650]$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $[46, 11.485, 130.322]$ , and the grayscale version is  $[42, 0.006, 296.813]$ .

A 20% lighter version of the original color is  $[61, 12.060, 311.309]$ , and  $[21, 11.569, 312.204]$  is the 20% darker color. If you saturate the color by 10%, you get  $[37, 19.130, 312.102]$ , and if you desaturate by 10%, it is  $[45, 4.428, 311.213]$ .

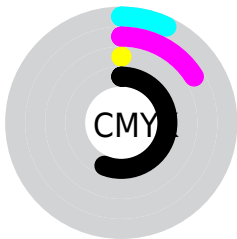
# Distribution



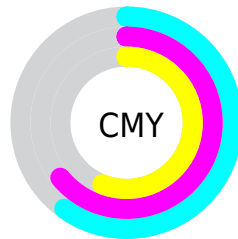
- Red (40%)
- Green (36%)
- Blue (44%)



- Red (40%)
- Yellow (36%)
- Blue (44%)



- Cyan (7%)
- Magenta (16%)
- Yellow (0%)
- Black (56%)




- Cyan (60%)
- Magenta (64%)
- Yellow (56%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 41, 11.699, 311.650 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 41, 11.699, 311.650 by changing the saturation by 10% instead.





 41, 11.699,  
311.650


 41, 11.699,  
311.650


 100, 11.699,  
311.650


 31, 11.699,  
311.650

 61, 11.699,  
311.650


 21, 11.699,  
311.650

 71, 11.699,  
311.650


 11, 11.699,  
311.650


 81, 11.699,  
311.650

 1, 11.699, 311.650

 91, 11.699,  
311.650

 0, 11.699, 311.650

 41, 11.699,

 41, 11.699,

311.650

37, 19.130,  
312.102

34, 26.675,  
312.569

30, 34.248,  
313.031

27, 41.704,  
313.460

24, 48.818,  
313.810

21, 55.268,  
314.020

19, 60.645,  
314.010

17, 64.850,  
313.783

311.650

45, 4.428, 311.213

48, 2.654, 130.875

52, 9.538, 130.494

55, 16.223,  
130.169

59, 22.713,  
129.880

63, 29.014,  
129.624

66, 35.135,  
129.399

70, 41.085,  
129.201

73, 46.872,

■ 16, 66.519,  
313.749

129.028

# Harmonies

# Complementary

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



41, 11.699, 311.650



46, 11.485, 130.322

# Rectangle

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



41, 11.699, 311.650



41, 11.699, 1.650



41, 11.699, 131.650



41, 11.699, 181.650

# Sweetspot

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



41, 11.698, 311.649



58, 4.440, 311.165



42, 6.683, 262.812



30, 3.055, 311.189



81, 0.010, 296.813



31, 0.005, 296.813





# Same Dimension

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



41, 11.698, 311.649



52, 17.166, 311.797



42, 12.702, 326.656



22, 4.057, 311.335



18, 70.304, 313.656



41, 120.698, 313.031



# Inverse Universe

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



41, 8.975, 348.118



52, 13.168, 348.438



45, 12.686, 144.857



22, 3.112, 347.446



24, 48.318, 5.365



53, 82.540, 8.329



# Previews

## White Background



This preview shows how the CIELCh color 41, 11.699, 311.650 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 41, 11.699, 311.650 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

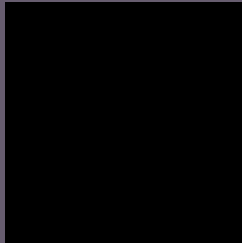
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 41, 11.699, 311.650

## Background



This preview shows how black text looks on a background with the CIELCh color 41, 11.699, 311.650.



This preview shows how white text looks on a background with the CIELCh color 41, 11.699, 311.650.

# 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

41, 11.699, 311.650

### Protanopia

41, 10.334, 287.423

### Deuteranopia

41, 10.562, 302.478





**Tritanopia**  
41, 5.164, 324.763

# Trichromacy



**Original Color**  
41, 11.699, 311.650

**Protanomaly**  
41, 10.377, 296.042

**Deuteranomaly**  
41, 10.646, 304.585

**Tritanomaly**  
41, 7.474, 316.990

# Monochromacy



**Original Color**  
41, 11.699, 311.650

**Achromatopsia**  
42, 0.006, 296.813

**Achromatomaly**  
41, 4.574, 311.772

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 41, 11.699, 311.650 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, 93, 111)` looks like.

```
.text, #text, p{  
    color:rgb(103, 93, 111)  
}
```

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, 93, 111) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 93, 111) }
```

## Border

The CSS property to change the border of an element to CIELCh 41, 11.699, 311.650 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, 93, 111) }
```

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

```
.border{ border-color:rgb(103, 93, 111) }
```

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

Here you see how a box with a 4 pixel rgb(103, 93, 111) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 93, 111); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 93, 111);  
box-shadow:4px 4px 4px 4px rgb(103, 93,  
111) }
```

# Background

The CSS property to change the background color of an element to CIELCh 41, 11.699, 311.650 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 93, 111) }
```

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

```
.background{ background-color: rgb(103, 93,  
111) }
```

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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