

# Converting Colors

CIELCh(45, 7.129, 301.110)

Have a look what the booklet for  
CIELCh(45, 7.129, 301.110) contains.

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# Color

**CIELCh(45, 7.286, 300.542)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6C6975
RGB	108, 105, 117
RGB Percent	42%, 41%, 46%
CMY	0.5769, 0.5887, 0.5416
CMYK	0.08, 0.10, 0.00, 0.54
HSL	255°, 5%, 43%
HSV	255°, 10%, 46%
XYZ	14.4136, 14.5417, 18.8400
YIQ	107.2650, -2.0640, 4.3680

# Conversions

## Conversions Part 2

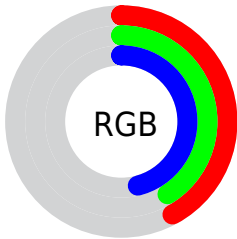
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	108, 105, 117
Decimal	7104885
CIE Lab	45.00, 3.70, -6.28
CIE LCh	45, 7.286, 300.542
Yxy	14.5417, 0.3016, 0.3042
Android (android.graphics.Color)	4285294965 (0xFF6C6975)
YUV	107.2650, 4.7994, 0.6446
Hunter-Lab	38.1336, 0.7351, -2.5989

# Details

The CIELCh color  $45, 7.286, 300.542$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $49, 7.138, 119.303$ , and the grayscale version is  $45, 0.006, 296.813$ .

A 20% lighter version of the original color is  $65, 7.339, 299.675$ , and  $25, 7.394, 301.680$  is the 20% darker color. If you saturate the color by 10%, you get  $41, 14.634, 301.248$ , and if you desaturate by 10%, it is  $49, 0.190, 299.813$ .

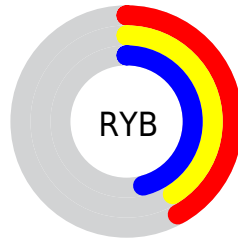
# Distribution



Red (42%)

Green (41%)

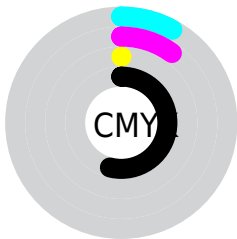
Blue (46%)



Red (42%)

Yellow (41%)

Blue (46%)

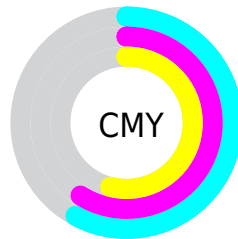


Cyan (8%)

Magenta (10%)

Yellow (0%)

Black (54%)



Cyan (58%)

Magenta (59%)













Yellow (54%)







# Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 7.286, 300.542 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, 7.286, 300.542 by changing the saturation by 10% instead.



 45, 7.286, 300.542	 45, 7.286, 300.542
 100, 7.286, 300.542	 35, 7.286, 300.542
 65, 7.286, 300.542	 25, 7.286, 300.542
 75, 7.286, 300.542	 15, 7.286, 300.542
 85, 7.286, 300.542	 5, 7.286, 300.542
 95, 7.286, 300.542	 0, 7.286, 300.542

 45, 7.286, 300.542	 45, 7.286, 300.542
 41, 14.634, 301.248	 49, 0.190, 299.813
 37, 22.241,	 53, 6.660, 119.382

302.051

57, 13.278,  
118.910

33, 30.091,  
302.946

61, 19.676,  
118.502

29, 38.138,  
303.924

65, 25.868,  
118.148

25, 46.272,  
304.954

69, 31.867,  
117.843

21, 54.264,  
305.973

73, 37.685,  
117.580

18, 61.692,  
306.872

77, 43.333,  
117.353

15, 67.904,  
307.493

81, 48.821,  
117.157

13, 73.230,  
308.069

# Harmonies

# Complementary

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



45, 7.286, 300.542



49, 7.138, 119.303

# Rectangle

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



45, 7.286, 300.542



45, 7.286, 350.542



45, 7.286, 120.542



45, 7.286, 170.542

# Sweetspot

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



45, 7.285, 300.538



62, 2.627, 300.077



47, 3.948, 223.936



31, 1.981, 300.122



82, 0.010, 296.813



33, 0.005, 296.813



# Same Dimension

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



45, 7.285, 300.538



57, 10.657, 300.677



46, 8.009, 317.176



22, 3.998, 300.457



14, 75.733, 308.027



34, 129.180, 307.589





# Inverse Universe

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



46, 7.271, 332.940



58, 10.613, 333.075



48, 7.950, 136.367



23, 3.996, 332.859



27, 55.790, 340.773



56, 93.703, 341.667



# Previews

## White Background



This preview shows how the CIELCh color 45, 7.286, 300.542 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, 7.286, 300.542 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

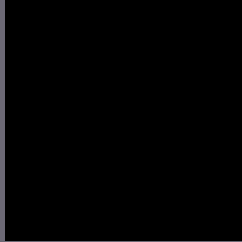
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

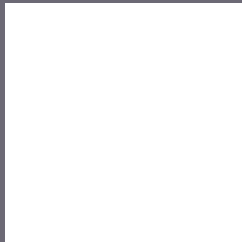
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 45, 7.286, 300.542**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 45, 7.286, 300.542.



This preview shows how white text looks on a background with the CIELCh color 45, 7.286, 300.542.

# 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, 7.286, 300.542

### Protanopia

45, 6.572, 287.677

### Deuteranopia

45, 8.433, 313.424



**Tritanopia**  
45, 5.452, 299.350



# Trichromacy



**Original Color**  
45, 7.286, 300.542

**Protanomaly**  
45, 6.566, 291.101

**Deuteranomaly**  
45, 8.289, 310.850

**Tritanomaly**  
45, 6.043, 298.576

# Monochromacy



**Original Color**  
45, 7.286, 300.542

**Achromatopsia**  
45, 0.006, 296.813

**Achromatomaly**  
45, 3.020, 298.283

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 45, 7.286, 300.542 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(108, 105, 117)` looks like.

```
.text, #text, p{  
    color:rgb(108, 105, 117)  
}
```

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(108, 105, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(108, 105, 117) }
```

## Border

The CSS property to change the border of an element to CIELCh 45, 7.286, 300.542 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(108, 105, 117) }
```

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

```
.border{ border-color:rgb(108, 105, 117) }
```

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

Here you see how a box with a 4 pixel `rgb(108, 105, 117)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(108, 105, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(108, 105, 117);  
box-shadow:4px 4px 4px 4px rgb(108, 105,  
117) }
```

# Background

The CSS property to change the background color of an element to CIELCh 45, 7.286, 300.542 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(108, 105, 117) }
```

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

```
.background{ background-color: rgb(108,  
105, 117) }
```

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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