

# Converting Colors

CIELCh(45, 4.894, 288.421)

Have a look what the booklet for  
CIELCh(45, 4.894, 288.421) contains.

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# Color

**CIELCh(45, 4.787, 286.098)**

# Conversions

## Conversions Part 1

Format	Color
Hex	696A72
RGB	105, 106, 114
RGB Percent	41%, 42%, 45%
CMY	0.5880, 0.5841, 0.5527
CMYK	0.08, 0.07, 0.00, 0.55
HSL	233°, 4%, 43%
HSV	233°, 8%, 45%
XYZ	14.0318, 14.5417, 18.0029
YIQ	106.6130, -3.1640, 2.2760

# Conversions

## Conversions Part 2

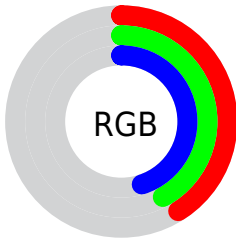
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	105, 106, 114
Decimal	6908530
CIE Lab	45.00, 1.33, -4.60
CIE LCh	45, 4.787, 286.098
Yxy	14.5417, 0.3013, 0.3122
Android (android.graphics.Color)	4285098610 (0xFF696A72)
YUV	106.6130, 3.6418, -1.4146
Hunter-Lab	38.1336, -1.0520, -1.2973

# Details

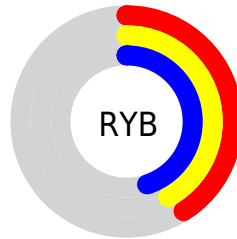
The CIELCh color **45, 4.787, 286.098** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **48, 4.718, 104.452**, and the grayscale version is **45, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 5.017, 286.459**, and **25, 4.628, 285.785** is the 20% darker color. If you saturate the color by 10%, you get **41, 11.026, 287.273**, and if you desaturate by 10%, it is **49, 1.251, 104.987**.

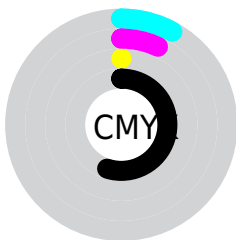
# Distribution



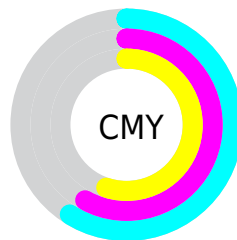
- Red (41%)
- Green (42%)
- Blue (45%)



- Red (41%)
- Yellow (42%)
- Blue (45%)



- Cyan (8%)
- Magenta (7%)
- Yellow (0%)
- Black (55%)



- Cyan (59%)
- Magenta (58%)
- Yellow (55%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 4.787, 286.098 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, 4.787, 286.098 by changing the saturation by 10% instead.



■ 45, 4.787, 286.098

■ 45, 4.787, 286.098

■ 100, 4.787,  
286.098

■ 35, 4.787, 286.098

■ 65, 4.787, 286.098

■ 25, 4.787, 286.098

■ 75, 4.787, 286.098

■ 15, 4.787, 286.098

■ 85, 4.787, 286.098

■ 5, 4.787, 286.098

■ 95, 4.787, 286.098

■ 0, 4.787, 286.098

■ 45, 4.787, 286.098

■ 45, 4.787, 286.098

■ 41, 11.026,  
287.273

■ 49, 1.251, 104.987

■ 37, 17.486,

■ 53, 7.098, 104.150

288.659

57, 12.768,  
103.385

33, 24.184,  
290.271

60, 18.270,  
102.716

29, 31.136,  
292.133

64, 23.615,  
102.130

26, 38.344,  
294.252

68, 28.811,  
101.613

22, 45.766,  
296.600

72, 33.865,  
101.156

19, 53.255,  
299.084

75, 38.785,  
100.749

15, 60.454,  
301.530

79, 43.577,  
100.386

13, 66.774,  
303.589

# Harmonies

# Complementary

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



45, 4.787, 286.098



48, 4.718, 104.452

# Rectangle

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



45, 4.787, 286.098



45, 4.787, 336.098



45, 4.787, 106.098



45, 4.787, 156.098

# Sweetspot

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



45, 4.786, 286.089



60, 1.492, 285.515



47, 3.657, 189.300



31, 0.843, 285.504



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, 4.786, 286.089



57, 6.768, 286.236



45, 5.572, 305.268



21, 3.371, 286.209



14, 70.663, 304.030



33, 125.028, 305.042





# Inverse Universe

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



45, 3.791, 10.769



57, 5.372, 10.898



48, 5.494, 124.529



22, 2.674, 10.874



24, 55.048, 33.115



52, 97.185, 36.090



# Previews

## White Background



This preview shows how the CIELCh color 45, 4.787, 286.098 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, 4.787, 286.098 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

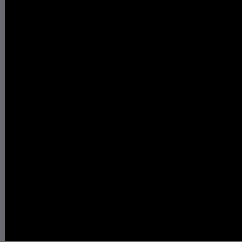
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

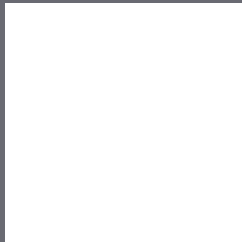
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 45, 4.787, 286.098**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 45, 4.787, 286.098.



This preview shows how white text looks on a background with the CIELCh color 45, 4.787, 286.098.

# 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, 4.787, 286.098

### Protanopia

45, 4.777, 290.856

### Deuteranopia

45, 8.261, 320.230



**Tritanopia**  
45, 4.787, 286.098



# Trichromacy



## Original Color

45, 4.787, 286.098

## Protanomaly

45, 4.777, 290.856

## Deuteranomaly

45, 7.032, 311.019

## Tritanomaly

45, 4.787, 286.098

# Monochromacy



## Original Color

45, 4.787, 286.098

## Achromatopsia

45, 0.006, 296.813

## Achromatomaly

45, 1.831, 277.703

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 45, 4.787, 286.098 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(105, 106, 114)` looks like.

```
.text, #text, p{  
    color:rgb(105, 106, 114)  
}
```

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(105, 106, 114) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(105, 106, 114) }
```

## Border

The CSS property to change the border of an element to CIELCh 45, 4.787, 286.098 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(105, 106, 114) }
```

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

```
.border{ border-color:rgb(105, 106, 114) }
```

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

Here you see how a box with a 4 pixel `rgb(105, 106, 114)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(105, 106, 114); -webkit-box-  
shadow:4px 4px 4px 4px rgb(105, 106, 114);  
box-shadow:4px 4px 4px 4px rgb(105, 106,  
114) }
```

# Background

The CSS property to change the background color of an element to CIELCh 45, 4.787, 286.098 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(105, 106, 114) }
```

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

```
.background{ background-color: rgb(105,  
106, 114) }
```

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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