

# Converting Colors

CIELCh(42, 0.415, 18.166)

Have a look what the booklet for  
CIELCh(42, 0.415, 18.166) contains.

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# Color

**CIELCh(42, 0.416, 18.664)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	646363
RGB	100, 99, 99
RGB Percent	39%, 39%, 39%
CMY	0.6083, 0.6123, 0.6123
CMYK	0.00, 0.01, 0.01, 0.61
HSL	0°, 1%, 39%
HSV	0°, 1%, 39%
XYZ	11.9372, 12.5000, 13.5561
YIQ	99.2990, 0.5960, 0.2120

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	100, 99, 99
Decimal	6579043
CIE Lab	42.00, 0.39, 0.13
CIE LCh	42, 0.416, 18.664
Yxy	12.5000, 0.3142, 0.3290
Android (android.graphics.Color)	4284769123 (0xFF646363)
YUV	99.2990, -0.1474, 0.6148
Hunter-Lab	35.3553, -1.6042, 2.0155

# Details

The CIELCh color  $[42, 0.416, 18.664]$  is a dark color, and the websafe version is hex `666666`. A complement of this color would be  $[42, 0.411, 200.317]$ , and the grayscale version is  $[42, 0.006, 296.813]$ .

A 20% lighter version of the original color is  $[62, 0.387, 18.289]$ , and  $[22, 0.004, 296.813]$  is the 20% darker color. If you saturate the color by 10%, you get  $[39, 4.732, 20.143]$ , and if you desaturate by 10%, it is  $[45, 3.596, 199.234]$ .

# Distribution



Red (39%)

Green (39%)

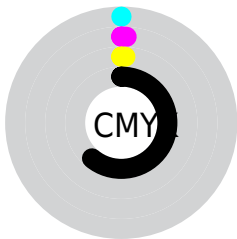
Blue (39%)



Red (39%)

Yellow (39%)

Blue (39%)



Cyan (0%)

Magenta (1%)

Yellow (1%)

Black (61%)



Cyan (61%)

Magenta (61%)













Yellow (61%)

# Brightness & Saturation Gradients

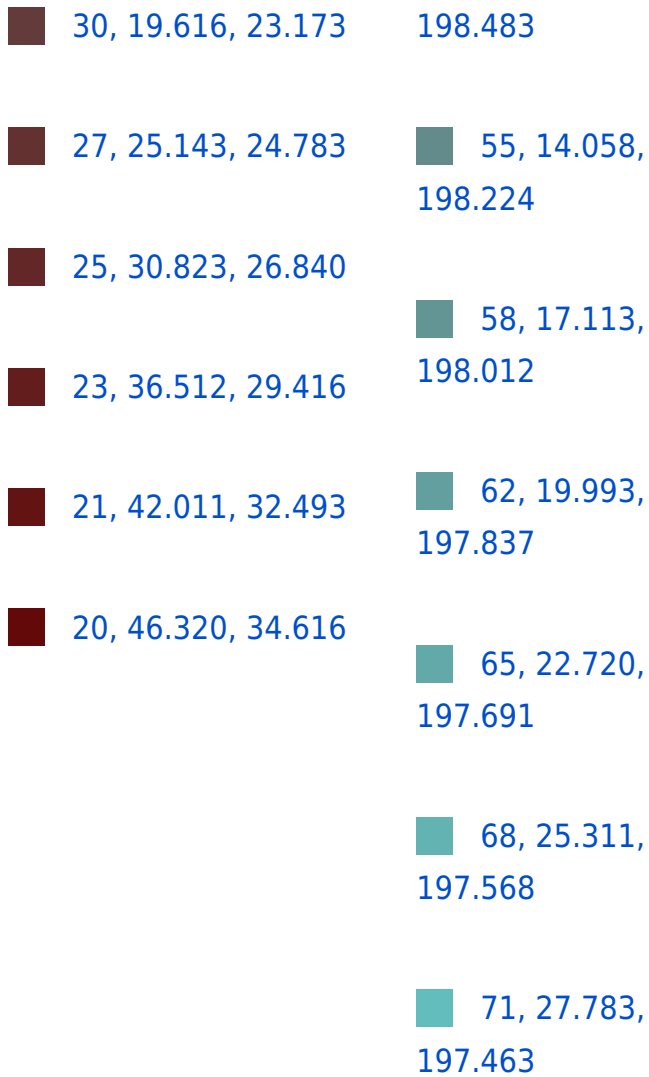
These gradients show how the CIELCh color 42, 0.416, 18.664 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the CIELCh color 42, 0.416, 18.664 by changing the saturation by 10% instead.



 42, 0.416, 18.664	 42, 0.416, 18.664
 100, 0.416, 18.664	 32, 0.416, 18.664
 62, 0.416, 18.664	 22, 0.416, 18.664
 72, 0.416, 18.664	 12, 0.416, 18.664
 82, 0.416, 18.664	 2, 0.416, 18.664
 92, 0.416, 18.664	 0, 0.416, 18.664

 42, 0.416, 18.664	 42, 0.416, 18.664
 39, 4.732, 20.143	 45, 3.596, 199.234
 36, 9.373, 20.937	 48, 7.326, 198.806
 33, 14.341, 21.919	 52, 10.804,



# Harmonies

# Complementary

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



42, 0.416, 18.664



42, 0.411, 200.317

# Rectangle

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



42, 0.416, 18.664



42, 0.416, 68.664



42, 0.416, 198.664



42, 0.416, 248.664

# Sweetspot

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



42, 0.415, 18.814



54, 0.007, 296.813



42, 0.741, 324.283



28, 0.004, 296.813



78, 0.009, 296.813

# Same Dimension

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



42, 0.415, 18.814



54, 0.516, 18.838



42, 0.359, 74.690



21, 0.237, 18.713



22, 55.869, 37.393



51, 100.569, 40.014





# Inverse Universe

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



42, 0.411, 200.317



54, 0.511, 200.292



42, 0.367, 256.135



21, 0.235, 200.417



43, 27.727, 196.656



87, 48.077, 196.672



# Previews

## White Background



This preview shows how the CIELCh color 42, 0.416, 18.664 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 42, 0.416, 18.664 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

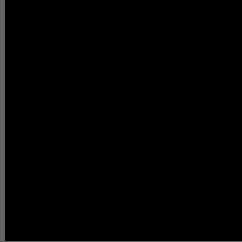
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

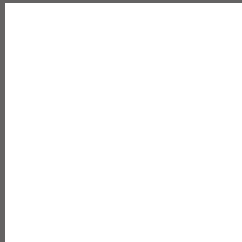
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 42, 0.416, 18.664**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 42, 0.416, 18.664.



This preview shows how white text looks on a background with the CIELCh color 42, 0.416, 18.664.

# 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

42, 0.416, 18.664

### Protanopia

42, 0.834, 19.115

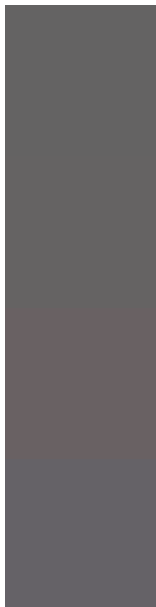
### Deuteranopia

42, 5.378, 0.466



**Tritanopia**  
42, 5.008, 304.946

# Trichromacy



## Original Color

42, 0.416, 18.664

## Protanomaly

42, 0.834, 19.115

## Deuteranomaly

42, 3.576, 0.104

## Tritanomaly

42, 3.283, 312.643

# Monochromacy



## Original Color

42, 0.416, 18.664

## Achromatopsia

42, 0.006, 296.813

## Achromatomaly

42, 0.006, 296.813



# CSS Examples

## Text

The CSS property to change the color of the text to CIE LCh 42, 0.416, 18.664 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(100, 99, 99)` looks like.

```
.text, #text, p{  
    color:rgb(100, 99, 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(100, 99, 99) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 99, 99) }
```

## Border

The CSS property to change the border of an element to CIELCh 42, 0.416, 18.664 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(100, 99, 99) }
```

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

```
.border{ border-color:rgb(100, 99, 99) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 99, 99)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 99, 99); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 99, 99);  
box-shadow:4px 4px 4px 4px rgb(100, 99,  
99) }
```

# Background

The CSS property to change the background color of an element to CIELCh 42, 0.416, 18.664 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 99, 99) }
```

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

```
.background{ background-color: rgb(100, 99,  
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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