

# Converting Colors

CIELCh(42, 10.624, 23.337)

Have a look what the booklet for  
CIELCh(42, 10.624, 23.337) contains.

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# Color

**CIELCh(42, 10.890, 20.849)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	765D5D
RGB	118, 93, 93
RGB Percent	46%, 36%, 36%
CMY	0.5368, 0.6349, 0.6349
CMYK	0.00, 0.21, 0.21, 0.54
HSL	0°, 12%, 41%
HSV	0°, 21%, 46%
XYZ	13.3917, 12.5000, 12.0884
YIQ	100.4750, 14.9000, 5.3000

# Conversions

## Conversions Part 2

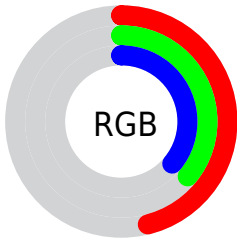
Format	Color
R <sub>Y</sub> B	118, 93, 93
Decimal	7757149
CIE Lab	42.00, 10.18, 3.88
CIE LCh	42, 10.890, 20.849
Yxy	12.5000, 0.3526, 0.3291
Android (android.graphics.Color)	4285947229 (0xFF765D5D)
YUV	100.4750, -3.6852, 15.3694
Hunter-Lab	35.3553, 5.7393, 4.4768

# Details

The CIELCh color  $42, 10.890, 20.849$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $48, 9.537, 198.397$ , and the grayscale version is  $43, 0.006, 296.813$ .

A 20% lighter version of the original color is  $62, 11.221, 20.480$ , and  $22, 10.844, 21.700$  is the 20% darker color. If you saturate the color by 10%, you get  $39, 16.626, 21.881$ , and if you desaturate by 10%, it is  $46, 5.534, 20.034$ .

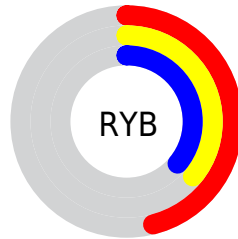
# Distribution



Red (46%)

Green (36%)

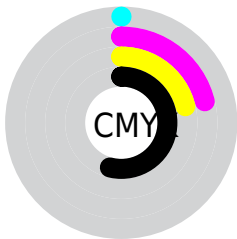
Blue (36%)



Red (46%)

Yellow (36%)

Blue (36%)

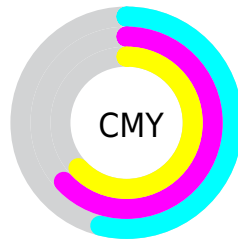


Cyan (0%)

Magenta (21%)

Yellow (21%)

Black (54%)



Cyan (54%)

Magenta (63%)













Yellow (63%)







# Brightness & Saturation Gradients

These gradients show how the CIELCh color 42, 10.890, 20.849 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, 10.890, 20.849 by changing the saturation by 10% instead.



 42, 10.890, 20.849	 42, 10.890, 20.849
 100, 10.890, 20.849	 32, 10.890, 20.849
 62, 10.890, 20.849	 22, 10.890, 20.849
 72, 10.890, 20.849	 12, 10.890, 20.849
 82, 10.890, 20.849	 2, 10.890, 20.849
 92, 10.890, 20.849	 0, 10.890, 20.849

 42, 10.890, 20.849	 42, 10.890, 20.849
 39, 16.626, 21.881	 46, 5.534, 20.034
 35, 22.718, 23.196	 49, 0.559, 18.812

32, 29.094, 24.892

53, 4.057, 199.086

29, 35.629, 27.065

57, 8.345, 198.646

27, 42.143, 29.787

60, 12.337,  
198.315

25, 48.386, 33.016

64, 16.067,  
198.049

24, 53.677, 36.030

23, 57.287, 37.649

68, 19.567,  
197.832

72, 22.864,  
197.653

75, 25.982,  
197.503

# Harmonies

# Complementary

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



42, 10.890, 20.849



48, 9.537, 198.397

# Rectangle

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



42, 10.890, 20.849



42, 10.890, 70.849



42, 10.890, 200.849



42, 10.890, 250.849

# Sweetspot

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



42, 10.889, 20.856



60, 3.606, 19.648



43, 18.077, 325.535



31, 2.382, 19.686



82, 0.010, 296.813



33, 0.005, 296.813



# Same Dimension

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



42, 10.889, 20.856



52, 16.156, 21.282



45, 9.225, 72.915



23, 2.750, 19.872



24, 59.041, 37.990



52, 102.985, 40.001





# Inverse Universe

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



48, 9.537, 198.397



61, 13.723, 198.191



44, 8.747, 258.330



24, 2.605, 199.034



46, 29.106, 196.402



89, 49.346, 196.403



# Previews

## White Background



This preview shows how the CIELCh color 42, 10.890, 20.849 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, 10.890, 20.849 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

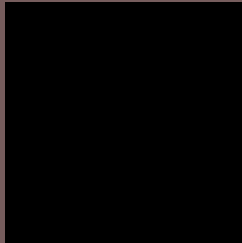
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 42, 10.890, 20.849**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 42, 10.890, 20.849.



This preview shows how white text looks on a background with the CIELCh color 42, 10.890, 20.849.

# 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, 10.890, 20.849

### Protanopia

42, 2.194, 74.650

### Deuteranopia

42, 6.738, 35.632



**Tritanopia**  
42, 12.231, 1.084



# Trichromacy



**Original Color**  
42, 10.890, 20.849

**Protanomaly**  
42, 4.853, 34.239

**Deuteranomaly**  
42, 8.340, 28.675

**Tritanomaly**  
42, 11.956, 6.585

# Monochromacy



**Original Color**  
42, 10.890, 20.849

**Achromatopsia**  
43, 0.006, 296.813

**Achromatomaly**  
42, 3.801, 19.810

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 42, 10.890, 20.849 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(118, 93, 93)` looks like.

```
.text, #text, p{  
    color:rgb(118, 93, 93)  
}
```

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(118, 93, 93) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(118, 93, 93) }
```

## Border

The CSS property to change the border of an element to CIELCh 42, 10.890, 20.849 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(118, 93, 93) }
```

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

```
.border{ border-color:rgb(118, 93, 93) }
```

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

Here you see how a box with a 4 pixel `rgb(118, 93, 93)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(118, 93, 93); -webkit-box-  
shadow:4px 4px 4px 4px rgb(118, 93, 93);  
box-shadow:4px 4px 4px 4px rgb(118, 93,  
93) }
```

# Background

The CSS property to change the background color of an element to CIELCh 42, 10.890, 20.849 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(118, 93, 93) }
```

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

```
.background{ background-color: rgb(118, 93,  
93) }
```

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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