

# Converting Colors

CIELCh(42, 11.615, 29.787)

Have a look what the booklet for  
CIELCh(42, 11.615, 29.787) contains.

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**Color**

**CIELCh(42, 11.625, 29.727)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	775D5A
RGB	119, 93, 90
RGB Percent	47%, 36%, 35%
CMY	0.5332, 0.6351, 0.6469
CMYK	0.00, 0.22, 0.24, 0.53
HSL	6°, 14%, 41%
HSV	6°, 24%, 47%
XYZ	13.3790, 12.5000, 11.3898
YIQ	100.4320, 16.4590, 4.5790

# Conversions

## Conversions Part 2

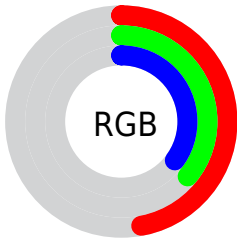
Format	Color
R <sub>Y</sub> B	119, 93, 90
Decimal	7822682
CIE Lab	42.00, 10.10, 5.76
CIE LCh	42, 11.625, 29.727
Yxy	12.5000, 0.3590, 0.3354
Android (android.graphics.Color)	4286012762 (0xFF775D5A)
YUV	100.4320, -5.1430, 16.2841
Hunter-Lab	35.3553, 5.6755, 5.6484

# Details

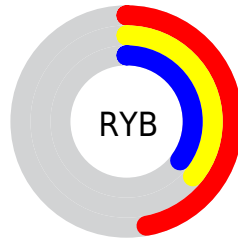
The CIELCh color  $42, 11.625, 29.727$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $47, 9.902, 208.783$ , and the grayscale version is  $43, 0.006, 296.813$ .

A 20% lighter version of the original color is  $62, 11.850, 28.582$ , and  $22, 11.781, 31.396$  is the 20% darker color. If you saturate the color by 10%, you get  $39, 17.051, 30.356$ , and if you desaturate by 10%, it is  $45, 6.587, 29.283$ .

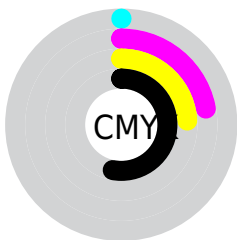
# Distribution



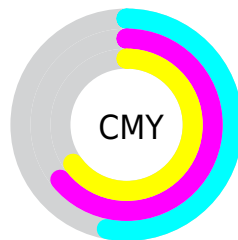
- Red (47%)
- Green (36%)
- Blue (35%)



- Red (47%)
- Yellow (36%)
- Blue (35%)



- Cyan (0%)
- Magenta (22%)
- Yellow (24%)
- Black (53%)















- Cyan (53%)
- Magenta (64%)
- Yellow (65%)







# Brightness & Saturation Gradients

These gradients show how the CIELCh color 42, 11.625, 29.727 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, 11.625, 29.727 by changing the saturation by 10% instead.



 42, 11.625, 29.727	 42, 11.625, 29.727
 100, 11.625, 29.727	 32, 11.625, 29.727
 62, 11.625, 29.727	 22, 11.625, 29.727
 72, 11.625, 29.727	 12, 11.625, 29.727
 82, 11.625, 29.727	 2, 11.625, 29.727
 92, 11.625, 29.727	 0, 11.625, 29.727

 42, 11.625, 29.727	 42, 11.625, 29.727
 39, 17.051, 30.356	 45, 6.587, 29.283
 36, 22.864, 31.207	 49, 1.923, 28.858

33, 29.027, 32.346

52, 2.393, 209.037

30, 35.461, 33.826

55, 6.393, 208.842

28, 42.019, 35.657

59, 10.112,  
208.787

26, 48.430, 37.735

62, 13.581,  
208.790

25, 53.775, 39.229

24, 56.238, 40.027

66, 16.829,  
208.832

69, 19.883,  
208.902

72, 22.766,  
208.992

# Harmonies

# Complementary

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



42, 11.625, 29.727



47, 9.902, 208.783

# Rectangle

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



42, 11.625, 29.727



42, 11.625, 79.727



42, 11.625, 209.727



42, 11.625, 259.727

# Sweetspot

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



42, 11.624, 29.735



61, 3.885, 29.004



42, 19.565, 328.615



32, 2.548, 29.022



83, 0.010, 296.813



34, 0.005, 296.813



# Same Dimension

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



42, 11.624, 29.735



52, 17.593, 30.043



46, 11.512, 82.400



23, 2.497, 29.079



25, 57.613, 40.206



53, 101.392, 40.976





# Inverse Universe

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



47, 9.902, 208.783



60, 14.399, 208.807



43, 11.220, 268.909



24, 2.362, 208.922



42, 25.928, 214.180



82, 43.780, 215.299



# Previews

## White Background



This preview shows how the CIELCh color 42, 11.625, 29.727 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, 11.625, 29.727 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

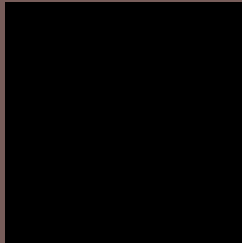
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 42, 11.625, 29.727**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 42, 11.625, 29.727.



This preview shows how white text looks on a background with the CIELCh color 42, 11.625, 29.727.

# 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, 11.625, 29.727

### Protanopia

42, 3.984, 84.224

### Deuteranopia

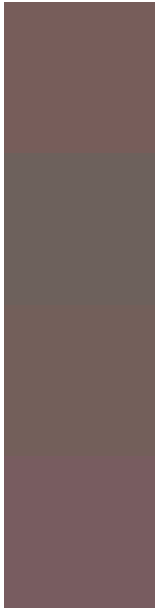
42, 7.898, 47.220



**Tritanopia**  
42, 12.639, 1.836



# Trichromacy



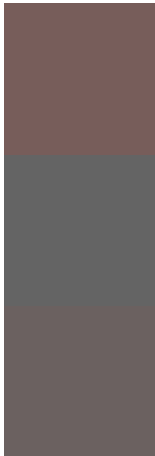
**Original Color**  
42, 11.625, 29.727

**Protanomaly**  
42, 6.006, 49.877

**Deuteranomaly**  
42, 9.310, 39.164

**Tritanomaly**  
42, 12.295, 9.908

# Monochromacy



**Original Color**  
42, 11.625, 29.727

**Achromatopsia**  
42, 0.006, 296.813

**Achromatomaly**  
42, 4.294, 27.909

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 42, 11.625, 29.727 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(119, 93, 90)` looks like.

```
.text, #text, p{  
    color:rgb(119, 93, 90)  
}
```

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(119, 93, 90) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(119, 93, 90) }
```

## Border

The CSS property to change the border of an element to CIELCh 42, 11.625, 29.727 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(119, 93, 90) }
```

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

```
.border{ border-color:rgb(119, 93, 90) }
```

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

Here you see how a box with a 4 pixel `rgb(119, 93, 90)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(119, 93, 90); -webkit-box-  
shadow:4px 4px 4px 4px rgb(119, 93, 90);  
box-shadow:4px 4px 4px 4px rgb(119, 93,  
90) }
```

# Background

The CSS property to change the background color of an element to CIELCh 42, 11.625, 29.727 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(119, 93, 90) }
```

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

```
.background{ background-color: rgb(119, 93,  
90) }
```

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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