

Converting Colors

CIELCh(37, 12.422, 71.720)

Have a look what the booklet for
CIELCh(37, 12.422, 71.720) contains.

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Color

CIELCh(37, 12.444, 71.700)

Conversions

Conversions Part 1

Format	Color
Hex	645444
RGB	100, 84, 68
RGB Percent	39%, 33%, 27%
CMY	0.6066, 0.6694, 0.7322
CMYK	0.00, 0.16, 0.32, 0.61
HSL	30°, 19%, 33%
HSV	30°, 32%, 39%
XYZ	9.5387, 9.5379, 6.8554
YIQ	86.9600, 14.6720, -1.5840

Conversions

Conversions Part 2

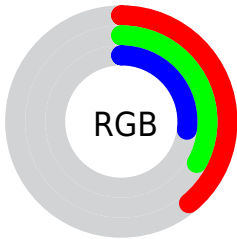
Format	Color
R_{YB}	100, 100, 68
Decimal	6575172
CIE Lab	37.00, 3.91, 11.81
CIE LCh	37, 12.444, 71.700
Yxy	9.5379, 0.3678, 0.3678
Android (android.graphics.Color)	4284765252 (0xFF645444)
YUV	86.9600, -9.3473, 11.4361
Hunter-Lab	30.8835, 1.0853, 8.4576

Details

The CIELCh color **37, 12.444, 71.700** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **35, 11.459, 260.101**, and the grayscale version is **37, 0.005, 296.813**.

A 20% lighter version of the original color is **57, 12.331, 71.096**, and **17, 12.179, 71.829** is the 20% darker color. If you saturate the color by 10%, you get **35, 16.709, 70.528**, and if you desaturate by 10%, it is **39, 8.358, 72.874**.

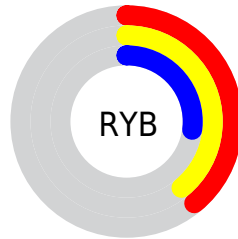
Distribution



Red (39%)

Green (33%)

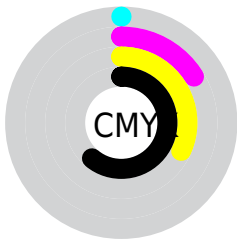
Blue (27%)



Red (39%)

Yellow (39%)

Blue (27%)

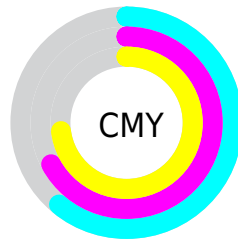


Cyan (0%)

Magenta (16%)

Yellow (32%)

Black (61%)



Cyan (61%)

















Magenta (67%)

Yellow (73%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 37, 12.444, 71.700 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 37, 12.444, 71.700 by changing the saturation by 10% instead.

 37, 12.444, 71.700	 37, 12.444, 71.700
 100, 12.444, 71.700	 27, 12.444, 71.700
 57, 12.444, 71.700	 17, 12.444, 71.700
 67, 12.444, 71.700	 7, 12.444, 71.700
 77, 12.444, 71.700	 0, 12.444, 71.700
 87, 12.444, 71.700	
 97, 12.444, 71.700	
 37, 12.444, 71.700	 37, 12.444, 71.700
 35, 16.709, 70.528	 39, 8.358, 72.874

■ 34, 21.141, 69.337

■ 40, 4.446, 74.011

■ 32, 25.704, 68.124

■ 42, 0.698, 74.884

■ 31, 30.309, 66.854

■ 44, 2.900, 256.397

■ 29, 34.775, 65.447

■ 46, 6.362, 257.441

■ 28, 38.800, 63.765

■ 48, 9.702, 258.481

■ 27, 41.924, 62.520

■ 49, 12.933,
259.489

■ 51, 16.067,
260.460

■ 53, 19.115,
261.393

Harmonies

Complementary

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



37, 12.444, 71.700



35, 11.459, 260.101

Rectangle

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



37, 12.444, 71.700



37, 12.444, 121.700



37, 12.444, 251.700



37, 12.444, 301.700

Sweetspot

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



37, 12.444, 71.707



52, 4.599, 74.191



33, 17.189, 345.485



27, 3.170, 74.081



78, 0.009, 296.813



28, 0.004, 296.813

Same Dimension

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



37, 12.444, 71.707



46, 18.631, 70.862



42, 18.777, 106.581



20, 2.108, 74.337



31, 46.809, 62.257



64, 82.288, 59.896

Inverse Universe

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



35, 11.459, 260.101



44, 16.801, 261.522



30, 20.141, 293.220



20, 2.069, 256.562



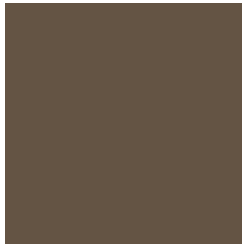
24, 38.425, 281.966



52, 70.660, 284.895

Previews

White Background



This preview shows how the CIELCh color 37, 12.444, 71.700 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 ✓ Pass

Black Background



This preview shows how the CIE LCh color 37, 12.444, 71.700 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

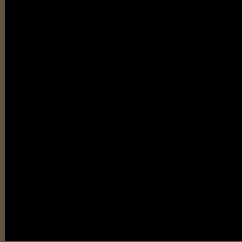
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 37, 12.444, 71.700

Background



This preview shows how black text looks on a background with the CIELCh color 37, 12.444, 71.700.

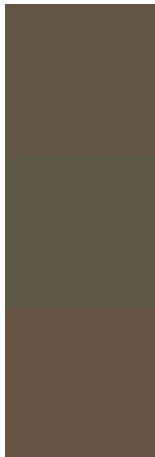


This preview shows how white text looks on a background with the CIELCh color 37, 12.444, 71.700.

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


37, 12.444, 71.700

Protanopia

37, 10.795, 93.705

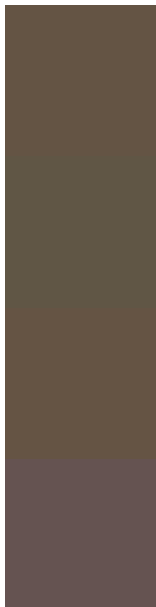
Deuteranopia

37, 13.056, 68.441



Tritanopia
37, 9.408, 357.791

Trichromacy



Original Color
37, 12.444, 71.700

Protanomaly
37, 11.450, 84.654

Deuteranomaly
37, 12.744, 70.031

Tritanomaly
37, 8.118, 29.167

Monochromacy



Original Color
37, 12.444, 71.700

Achromatopsia
37, 0.005, 296.813

Achromatomaly
37, 4.539, 73.903

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 37, 12.444, 71.700 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, 84, 68)` looks like.

```
.text, #text, p{  
    color:rgb(100, 84, 68)  
}
```

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, 84, 68) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 84, 68) }
```

Border

The CSS property to change the border of an element to CIELCh 37, 12.444, 71.700 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, 84, 68) }
```

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

```
.border{ border-color:rgb(100, 84, 68) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 84, 68)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 84, 68); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 84, 68);  
box-shadow:4px 4px 4px 4px rgb(100, 84,  
68) }
```

Background

The CSS property to change the background color of an element to CIELCh 37, 12.444, 71.700 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 84, 68) }
```

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

```
.background{ background-color: rgb(100, 84,  
68) }
```

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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