

Converting Colors

CIELCh(37, 68.069, 46.955)

Have a look what the booklet for
CIELCh(37, 68.069, 46.955) contains.

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Color

CIELCh(37, 67.882, 46.721)

Conversions

Conversions Part 1

Format	Color
Hex	A22D00
RGB	162, 45, 0
RGB Percent	64%, 18%, 0%
CMY	0.3652, 0.8239, 1.0000
CMYK	0.00, 0.72, 1.00, 0.37
HSL	17°, 100%, 32%
HSV	17°, 100%, 63%
XYZ	15.8108, 9.5379, 1.0055
YIQ	74.8530, 84.1770, 10.8090

Conversions

Conversions Part 2

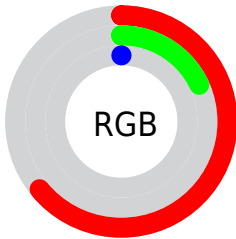
Format	Color
RYB	162, 62, 0
Decimal	10628352
CIELab	37.00, 46.54, 49.42
CIElCh	37, 67.882, 46.721
Yxy	9.5379, 0.5999, 0.3619
Android (android.graphics.Color)	4288818432 (0xFFA22D00)
YUV	74.8530, -36.9025, 76.4279
Hunter-Lab	30.8835, 37.3370, 19.6882

Details

The CIELCh color **37, 67.882, 46.721** is a dark color, and the websafe version is hex **993300**. A complement of this color would be **46, 33.578, 251.239**, and the grayscale version is **32, 0.005, 296.813**.

A 20% lighter version of the original color is **57, 67.882, 46.710**, and **19, 50.072, 35.830** is the 20% darker color. If you saturate the color by 10%, you get **37, 67.859, 46.705**, and if you desaturate by 10%, it is **39, 61.363, 46.991**.

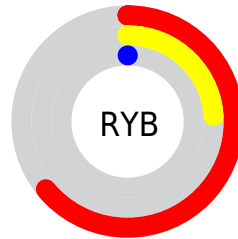
Distribution



Red (64%)

Green (18%)

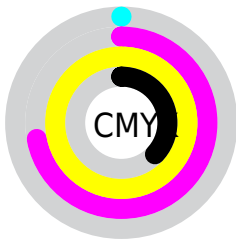
Blue (0%)



Red (64%)

Yellow (24%)

Blue (0%)

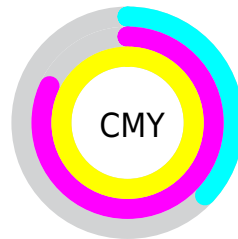


Cyan (0%)

Magenta (72%)

Yellow (100%)

Black (37%)



Cyan (37%)

Magenta (82%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 37, 67.882, 46.721 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, 67.882, 46.721 by changing the saturation by 10% instead.

■ 37, 67.882, 46.721

■ 37, 67.882, 46.721

■ 100, 67.882,
46.721

■ 27, 67.882, 46.721

■ 57, 67.882, 46.721

■ 17, 67.882, 46.721

■ 67, 67.882, 46.721

■ 7, 67.882, 46.721

■ 77, 67.882, 46.721

■ 0, 67.882, 46.721

■ 87, 67.882, 46.721

■ 97, 67.882, 46.721

■ 37, 67.882, 46.721

■ 37, 67.882, 46.721

■ 37, 67.859, 46.705

■ 39, 61.363, 46.991

41, 53.949, 47.114

44, 46.011, 46.988

47, 38.152, 46.883

50, 30.638, 46.897

53, 23.578, 47.050

56, 17.002, 47.329

60, 10.901, 47.708

63, 5.245, 48.142

Harmonies

Complementary

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



37, 67.882, 46.721



46, 33.578, 251.239

Rectangle

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



37, 67.882, 46.721



37, 67.882, 96.721



37, 67.882, 226.721



37, 67.882, 276.721

Sweetspot

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



37, 67.859, 46.705



72, 21.196, 47.310



36, 67.292, 342.316



36, 14.809, 47.187



93, 0.011, 296.813



45, 0.006, 296.813

Same Dimension

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



37, 67.859, 46.705



48, 83.411, 46.103



54, 60.065, 85.131



33, 2.979, 48.173



33, 62.395, 46.914



2, 4.528, 45.564

Inverse Universe

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



46, 33.578, 251.239



59, 41.284, 252.271



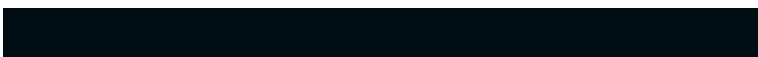
24, 79.430, 300.970



33, 2.831, 229.446



41, 30.925, 250.749



3, 4.475, 235.684

Previews

White Background



This preview shows how the CIELCh color 37, 67.882, 46.721 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 CIELCh color 37, 67.882, 46.721 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, 67.882, 46.721

Background



This preview shows how black text looks on a background with the CIELCh color 37, 67.882, 46.721.



This preview shows how white text looks on a background with the CIELCh color 37, 67.882, 46.721.

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, 67.882, 46.721

Protanopia

38, 39.756, 96.376

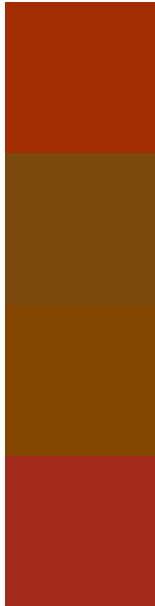
Deuteranopia

37, 45.686, 85.013



Tritanopia
37, 57.235, 30.917

Trichromacy



Original Color
37, 67.882, 46.721

Protanomaly
36, 44.620, 68.690

Deuteranomaly
36, 50.775, 65.023

Tritanomaly
37, 61.619, 38.628

Monochromacy



Original Color
37, 67.882, 46.721

Achromatopsia
32, 0.005, 296.813

Achromatomaly
32, 24.404, 46.302

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 37, 67.882, 46.721 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(162, 45, 0)` looks like.

```
.text, #text, p{  
    color:rgb(162, 45, 0)  
}
```

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(162, 45, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(162, 45, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 37, 67.882, 46.721 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(162, 45, 0) }
```

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

```
.border{ border-color:rgb(162, 45, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(162, 45, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(162, 45, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(162, 45, 0);  
box-shadow:4px 4px 4px 4px rgb(162, 45, 0)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 37, 67.882, 46.721 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(162, 45, 0) }
```

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

```
.background{ background-color: rgb(162, 45,  
0) }
```

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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