

Converting Colors

CIELCh(42, 49.809, 149.798)

Have a look what the booklet for
CIELCh(42, 49.809, 149.798)
contains.

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Color

CIELCh(42, 49.485, 149.128)

Conversions

Conversions Part 1

Format	Color
Hex	007337
RGB	0, 115, 55
RGB Percent	0%, 45%, 22%
CMY	1.0000, 0.5496, 0.7848
CMYK	1.00, 0.00, 0.52, 0.55
HSL	149°, 100%, 23%
HSV	149°, 100%, 45%
XYZ	6.7959, 12.5000, 5.6524
YIQ	73.7750, -49.2800, -43.0400

Conversions

Conversions Part 2

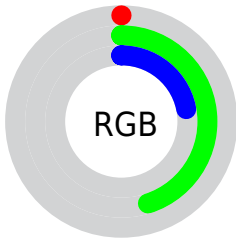
Format	Color
RYB	0, 78, 115
Decimal	29495
CIELab	42.00, -42.47, 25.39
CIELCh	42, 49.485, 149.128
Yxy	12.5000, 0.2724, 0.5010
Android (android.graphics.Color)	4278219575 (0xFF007337)
YUV	73.7750, -9.2561, -64.7007
Hunter-Lab	35.3553, -27.5611, 15.2699

Details

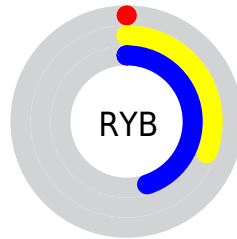
The CIELCh color **42, 49.485, 149.128** is a dark color, and the websafe version is hex **006633**. A complement of this color would be **24, 47.481, 358.074**, and the grayscale version is **31, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 49.590, 149.186**, and **23, 41.085, 139.782** is the 20% darker color. If you saturate the color by 10%, you get **42, 49.463, 149.106**, and if you desaturate by 10%, it is **42, 46.145, 151.022**.

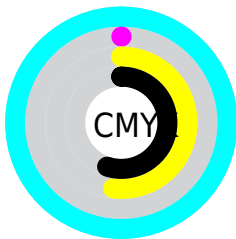
Distribution



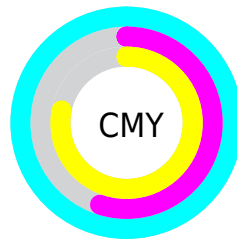
- Red (0%)
- Green (45%)
- Blue (22%)



- Red (0%)
- Yellow (31%)
- Blue (45%)



- Cyan (100%)
- Magenta (0%)
- Yellow (52%)
- Black (55%)





- Cyan (100%)
- Magenta (55%)
- Yellow (78%)

Brightness & Saturation Gradients


These gradients show how the CIELCh color 42, 49.485, 149.128 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, 49.485, 149.128 by changing the saturation by 10% instead.


 42, 49.485,
149.128

 42, 49.485,
149.128


 100, 49.485,
149.128

 32, 49.485,
149.128

 62, 49.485,
149.128


 22, 49.485,
149.128

 72, 49.485,
149.128

 12, 49.485,
149.128

 82, 49.485,
149.128

 2, 49.485, 149.128

 92, 49.485,
149.128

 0, 49.485, 149.128

 42, 49.485,

 42, 49.485,

149.128

149.128

■ 42, 49.463,
149.106

■ 42, 46.145,
151.022

■ 42, 42.494,
152.946

■ 43, 38.326,
154.681

■ 43, 33.674,
156.226

■ 44, 28.603,
157.595

■ 45, 23.199,
158.808

■ 45, 17.552,
159.886

■ 46, 11.752,
160.852

Harmonies

Complementary

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



42, 49.485, 149.128



24, 47.481, 358.074

Rectangle

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



42, 49.485, 149.128



42, 49.485, 199.128



42, 49.485, 329.128



42, 49.485, 19.128

Sweetspot

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



42, 49.463, 149.106



59, 21.886, 159.805



43, 59.513, 126.198



30, 15.010, 159.455



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, 49.463, 149.106



54, 60.937, 148.452



43, 28.526, 191.599



24, 3.365, 161.817



45, 51.947, 148.937



87, 90.575, 147.591

Inverse Universe

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



24, 47.481, 358.074



32, 57.522, 359.194



22, 55.090, 36.045



23, 3.401, 343.123



25, 49.649, 358.359



54, 83.660, 0.739

Previews

White Background



This preview shows how the CIELCh color 42, 49.485, 149.128 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 CIELCh color 42, 49.485, 149.128 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, 49.485, 149.128

Background



This preview shows how black text looks on a background with the CIELCh color 42, 49.485, 149.128.



This preview shows how white text looks on a background with the CIELCh color 42, 49.485, 149.128.

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, 49.485, 149.128

Protanopia

42, 29.200, 96.269

Deuteranopia

42, 24.183, 75.936



Tritanopia
42, 20.617, 212.703

Trichromacy



Original Color
42, 49.485, 149.128

Protanomaly
41, 34.936, 132.718

Deuteranomaly
40, 28.590, 130.298

Tritanomaly
42, 28.291, 176.034

Monochromacy



Original Color
42, 49.485, 149.128

Achromatopsia
31, 0.005, 296.813

Achromatomaly
34, 22.048, 158.052

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 42, 49.485, 149.128 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(0, 115, 55)` looks like.

```
.text, #text, p{  
    color:rgb(0, 115, 55)  
}
```

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(0, 115, 55) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 115, 55) }
```

Border

The CSS property to change the border of an element to CIELCh 42, 49.485, 149.128 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(0, 115, 55) }
```

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

```
.border{ border-color:rgb(0, 115, 55) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 115, 55)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 115, 55); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 115, 55);  
box-shadow:4px 4px 4px 4px rgb(0, 115, 55)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 42, 49.485, 149.128 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 115, 55) }
```

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

```
.background{ background-color: rgb(0, 115,  
55) }
```

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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