

Converting Colors

CIELCh(42, 42.488, 160.498)

Have a look what the booklet for
CIELCh(42, 42.488, 160.498)
contains.

CIELCh(42, 41.340, 158.687)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(42, 41.340, 158.687)

Conversions

Conversions Part 1

Format	Color
Hex	007249
RGB	0, 114, 73
RGB Percent	0%, 45%, 29%
CMY	1.0000, 0.5530, 0.7134
CMYK	1.00, 0.00, 0.36, 0.55
HSL	158°, 100%, 22%
HSV	158°, 100%, 45%
XYZ	7.1925, 12.5000, 8.3509
YIQ	75.2400, -54.7830, -36.9190

Conversions

Conversions Part 2

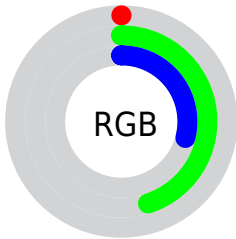
Format	Color
RYB	0, 69, 114
Decimal	29257
CIELab	42.00, -38.51, 15.03
CIELCh	42, 41.340, 158.687
Yxy	12.5000, 0.2565, 0.4457
Android (android.graphics.Color)	4278219337 (0xFF007249)
YUV	75.2400, -1.1043, -65.9855
Hunter-Lab	35.3553, -25.5586, 10.7444

Details

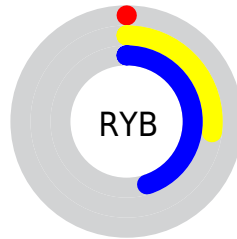
The CIELCh color **42, 41.340, 158.687** is a dark color, and the websafe version is hex **006633**. A complement of this color would be **23, 46.952, 13.044**, and the grayscale version is **32, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 41.260, 158.525**, and **23, 33.079, 149.645** is the 20% darker color. If you saturate the color by 10%, you get **42, 41.181, 158.547**, and if you desaturate by 10%, it is **42, 38.685, 160.444**.

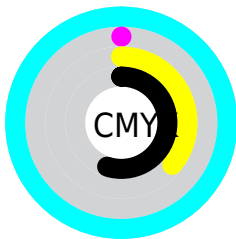
Distribution



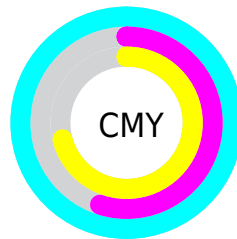
- Red (0%)
- Green (45%)
- Blue (29%)



- Red (0%)
- Yellow (27%)
- Blue (45%)



- Cyan (100%)
- Magenta (0%)
- Yellow (36%)
- Black (55%)





- Cyan (100%)
- Magenta (55%)
- Yellow (71%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 42, 41.340, 158.687 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, 41.340, 158.687 by changing the saturation by 10% instead.


 42, 41.340,
158.687


 42, 41.340,
158.687


 100, 41.340,
158.687


 32, 41.340,
158.687

 62, 41.340,
158.687


 22, 41.340,
158.687

 72, 41.340,
158.687

 12, 41.340,
158.687

 82, 41.340,
158.687

 2, 41.340, 158.687

 92, 41.340,
158.687

 0, 41.340, 158.687

 42, 41.340,

 42, 41.340,

158.687

■ 42, 41.181,
158.547

158.687

■ 42, 38.685,
160.444

■ 42, 35.911,
162.323

■ 43, 32.646,
164.014

■ 43, 28.904,
165.530

■ 44, 24.734,
166.889

■ 44, 20.202,
168.113

■ 45, 15.386,
169.225

■ 46, 10.366,
170.245

Harmonies

Complementary

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



42, 41.340, 158.687



23, 46.952, 13.044

Rectangle

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



42, 41.340, 158.687



42, 41.340, 208.687



42, 41.340, 338.687



42, 41.340, 28.687

Sweetspot

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



42, 41.181, 158.547



58, 19.027, 169.142



42, 62.210, 131.138



29, 12.840, 168.794



81, 0.010, 296.813



31, 0.005, 296.813

Same Dimension

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



42, 41.181, 158.547



54, 50.236, 157.919



38, 24.230, 219.909



23, 2.895, 171.301



44, 42.777, 158.415



87, 74.827, 157.039

Inverse Universe

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



23, 46.952, 13.044



31, 56.885, 14.568



23, 53.684, 40.558



22, 2.955, 352.737



24, 48.699, 13.364



52, 84.026, 16.735

Previews

White Background



This preview shows how the CIELCh color 42, 41.340, 158.687 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, 41.340, 158.687 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, 41.340, 158.687

Background



This preview shows how black text looks on a background with the CIELCh color 42, 41.340, 158.687.



This preview shows how white text looks on a background with the CIELCh color 42, 41.340, 158.687.

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, 41.218, 158.496

Protanopia

42, 19.472, 96.261

Deuteranopia

42, 14.622, 67.388



Tritanopia
42, 21.589, 210.185

Trichromacy



Original Color
42, 41.218, 158.496



Protanomaly
41, 26.064, 142.849



Deuteranomaly
40, 19.776, 144.652

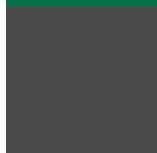


Tritanomaly
42, 27.129, 183.340

Monochromacy



Original Color
42, 41.218, 158.496



Achromatopsia
32, 0.005, 296.813



Achromatomaly
35, 18.908, 167.108

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 42, 41.340, 158.687 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, 114, 73)` looks like.

```
.text, #text, p{  
    color:rgb(0, 114, 73)  
}
```

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, 114, 73) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 114, 73) }
```

Border

The CSS property to change the border of an element to CIELCh 42, 41.340, 158.687 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, 114, 73) }
```

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

```
.border{ border-color:rgb(0, 114, 73) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 114, 73)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 114, 73); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 114, 73);  
box-shadow:4px 4px 4px 4px rgb(0, 114, 73)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 42, 41.340, 158.687 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 114, 73) }
```

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

```
.background{ background-color: rgb(0, 114,  
73) }
```

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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