

Converting Colors

CIELCh(42, 42.699, 156.398)

Have a look what the booklet for
CIELCh(42, 42.699, 156.398)
contains.

CIELCh(42, 42.428, 156.683)	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, 42.428, 156.683)

Conversions

Conversions Part 1

Format	Color
Hex	017246
RGB	1, 114, 70
RGB Percent	0%, 45%, 27%
CMY	0.9954, 0.5527, 0.7252
CMYK	0.99, 0.00, 0.39, 0.55
HSL	157°, 98%, 23%
HSV	157°, 99%, 45%
XYZ	7.1467, 12.5000, 7.8404
YIQ	75.1970, -53.2240, -37.6400

Conversions

Conversions Part 2

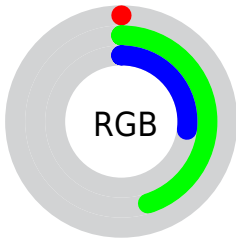
Format	Color
R_{YB}	1, 71, 114
Decimal	94790
CIE _{Lab}	42.00, -38.96, 16.79
CIE _{LCh}	42, 42.428, 156.683
Yxy	12.5000, 0.2600, 0.4548
Android (android.graphics.Color)	4278284870 (0xFF017246)
YUV	75.1970, -2.5621, -65.0708
Hunter-Lab	35.3553, -25.7900, 11.6006

Details

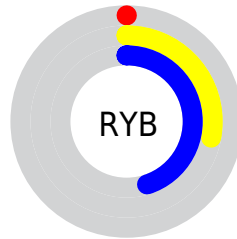
The CIELCh color **42, 42.428, 156.683** is a dark color, and the websafe version is hex **006633**. A complement of this color would be **23, 46.473, 9.797**, and the grayscale version is **32, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 42.444, 156.868**, and **23, 34.480, 147.642** is the 20% darker color. If you saturate the color by 10%, you get **42, 42.701, 156.498**, and if you desaturate by 10%, it is **42, 39.758, 158.620**.

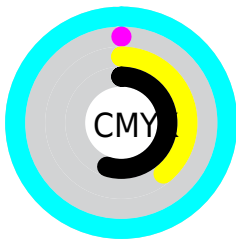
Distribution



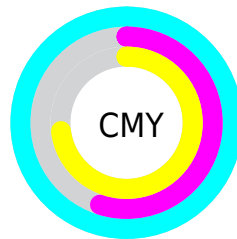
- Red (0%)
- Green (45%)
- Blue (27%)



- Red (0%)
- Yellow (28%)
- Blue (45%)



- Cyan (99%)
- Magenta (0%)
- Yellow (39%)
- Black (55%)



- Cyan (100%)
- Magenta (55%)
- Yellow (73%)

Brightness & Saturation Gradients


These gradients show how the CIELCh color 42, 42.428, 156.683 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, 42.428, 156.683 by changing the saturation by 10% instead.

 42, 42.428,
156.683

 42, 42.428,
156.683


 100, 42.428,
156.683

 32, 42.428,
156.683

 62, 42.428,
156.683

 22, 42.428,
156.683

 72, 42.428,
156.683

 12, 42.428,
156.683

 82, 42.428,
156.683

 2, 42.428, 156.683

 92, 42.428,
156.683

 0, 42.428, 156.683

 42, 42.428,

 42, 42.428,

156.683

156.683

■ 42, 42.701,
156.498

■ 42, 39.758,
158.620

■ 42, 36.762,
160.505

■ 43, 33.273,
162.200

■ 43, 29.315,
163.716

■ 44, 24.940,
165.072

■ 45, 20.220,
166.290

■ 45, 15.234,
167.392

■ 46, 10.064,
168.400

Harmonies

Complementary

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



42, 42.428, 156.683



23, 46.473, 9.797

Rectangle

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



42, 42.428, 156.683



42, 42.428, 206.683



42, 42.428, 336.683



42, 42.428, 26.683

Sweetspot

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



42, 42.428, 156.683



58, 19.473, 167.202



42, 61.317, 130.279



29, 13.147, 166.854



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, 42.428, 156.683



54, 52.099, 155.864



39, 24.674, 213.220



23, 2.954, 169.346



44, 44.341, 156.366



86, 77.668, 154.974

Inverse Universe

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



23, 46.473, 9.797



31, 56.498, 11.639



23, 53.812, 39.478



22, 3.008, 350.764



24, 48.433, 10.482



53, 83.248, 13.732

Previews

White Background



This preview shows how the CIELCh color 42, 42.428, 156.683 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, 42.428, 156.683 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, 42.428, 156.683

Background



This preview shows how black text looks on a background with the CIELCh color 42, 42.428, 156.683.



This preview shows how white text looks on a background with the CIELCh color 42, 42.428, 156.683.

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, 42.428, 156.683

Protanopia

42, 21.291, 95.575

Deuteranopia

42, 15.587, 69.969



Tritanopia
42, 21.193, 212.216

Trichromacy



Original Color
42, 42.428, 156.683

Protanomaly
41, 27.315, 140.098

Deuteranomaly
40, 21.268, 141.802

Tritanomaly
42, 26.654, 183.120

Monochromacy



Original Color
42, 42.428, 156.683

Achromatopsia
32, 0.005, 296.813

Achromatomaly
35, 19.290, 165.581

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 42, 42.428, 156.683 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(1, 114, 70)` looks like.

```
.text, #text, p{  
    color:rgb(1, 114, 70)  
}
```

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(1, 114, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 114, 70) }
```

Border

The CSS property to change the border of an element to CIELCh 42, 42.428, 156.683 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(1, 114, 70) }
```

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

```
.border{ border-color:rgb(1, 114, 70) }
```

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

Here you see how a box with a 4 pixel `rgb(1, 114, 70)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 114, 70); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 114, 70);  
box-shadow:4px 4px 4px 4px rgb(1, 114, 70)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 42, 42.428, 156.683 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 114, 70) }
```

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

```
.background{ background-color: rgb(1, 114,  
70) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor