

Converting Colors

CIELCh(42, 42.709, 133.078)

Have a look what the booklet for
CIELCh(42, 42.709, 133.078)
contains.

CIELCh(42, 42.342, 133.101)	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, 42.342, 133.101)

Conversions

Conversions Part 1

Format	Color
Hex	406E2D
RGB	64, 110, 45
RGB Percent	25%, 43%, 18%
CMY	0.7480, 0.5676, 0.8226
CMYK	0.42, 0.00, 0.59, 0.57
HSL	102°, 42%, 30%
HSV	102°, 59%, 43%
XYZ	8.2150, 12.5000, 4.4875
YIQ	88.8360, -6.5510, -29.9670

Conversions

Conversions Part 2

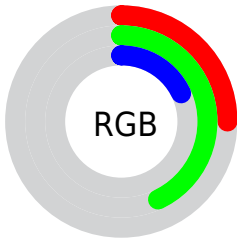
Format	Color
R_{YB}	45, 110, 91
Decimal	4222509
CIE Lab	42.00, -28.93, 30.92
CIE LCh	42, 42.342, 133.101
Yxy	12.5000, 0.3260, 0.4960
Android (android.graphics.Color)	4282412589 (0xFF406E2D)
YUV	88.8360, -21.6111, -21.7812
Hunter-Lab	35.3553, -20.3964, 17.2234

Details

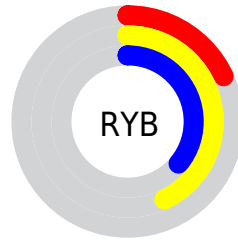
The CIELCh color **42, 42.342, 133.101** is a dark color, and the websafe version is hex **336633**. A complement of this color would be **27, 43.961, 318.228**, and the grayscale version is **38, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 42.313, 133.080**, and **22, 41.237, 133.922** is the 20% darker color. If you saturate the color by 10%, you get **42, 48.501, 132.687**, and if you desaturate by 10%, it is **43, 35.630, 133.609**.

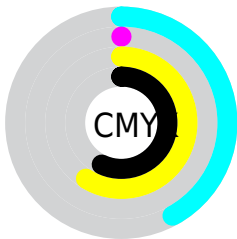
Distribution



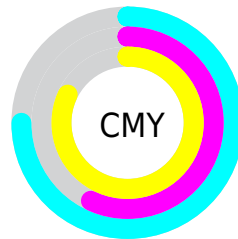
- Red (25%)
- Green (43%)
- Blue (18%)



- Red (18%)
- Yellow (43%)
- Blue (36%)



- Cyan (42%)
- Magenta (0%)
- Yellow (59%)
- Black (57%)





- Cyan (75%)
- Magenta (57%)
- Yellow (82%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 42, 42.342, 133.101 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, 42.342, 133.101 by changing the saturation by 10% instead.


 42, 42.342,
133.101


 42, 42.342,
133.101


 100, 42.342,
133.101


 32, 42.342,
133.101

 62, 42.342,
133.101


 22, 42.342,
133.101

 72, 42.342,
133.101

 12, 42.342,
133.101

 82, 42.342,
133.101

 2, 42.342, 133.101

 92, 42.342,
133.101

 0, 42.342, 133.101

 42, 42.342,

 42, 42.342,

133.101

133.101

■ 42, 48.501,
132.687

■ 43, 35.630,
133.609

■ 41, 53.850,
132.456

■ 43, 28.566,
134.146

■ 41, 58.103,
132.520

■ 44, 21.299,
134.672

■ 40, 61.502,
132.686

■ 45, 13.939,
135.167

■ 40, 61.855,
132.678

■ 46, 6.566, 135.626

■ 47, 0.761, 315.856

■ 48, 8.001, 316.353

■ 49, 15.124,
316.673

■ 50, 22.109,

Harmonies

Complementary

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



42, 42.342, 133.101



27, 43.961, 318.228

Rectangle

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



42, 42.342, 133.101



42, 42.342, 183.101



42, 42.342, 313.101



42, 42.342, 3.101

Sweetspot

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



42, 42.343, 133.102



57, 16.353, 135.191



40, 28.956, 86.376



29, 11.289, 135.083



80, 0.010, 296.813



30, 0.005, 296.813

Same Dimension

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



42, 42.343, 133.102



53, 61.068, 132.569



41, 40.168, 145.296



23, 4.178, 135.624



44, 65.737, 132.800



86, 113.252, 133.510

Inverse Universe

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



27, 43.961, 318.228



32, 63.640, 318.475



30, 39.871, 334.288



22, 4.210, 316.310



21, 68.289, 317.948



47, 116.968, 317.434

Previews

White Background



This preview shows how the CIELCh color 42, 42.342, 133.101 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 CIE LCh color 42, 42.342, 133.101 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

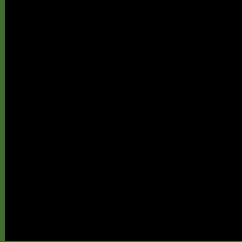
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 42, 42.342, 133.101

Background



This preview shows how black text looks on a background with the CIELCh color 42, 42.342, 133.101.



This preview shows how white text looks on a background with the CIELCh color 42, 42.342, 133.101.

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, 42.342, 133.101

Protanopia

42, 33.501, 95.893

Deuteranopia

42, 29.623, 79.579



Tritanopia
42, 11.191, 227.677

Trichromacy



Original Color
42, 42.342, 133.101

Protanomaly
42, 34.774, 112.907

Deuteranomaly
41, 30.335, 105.564

Tritanomaly
42, 17.646, 159.344

Monochromacy



Original Color
42, 42.342, 133.101

Achromatopsia
38, 0.005, 296.813

Achromatomaly
39, 16.377, 134.929

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 42, 42.342, 133.101 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(64, 110, 45)` looks like.

```
.text, #text, p{  
    color:rgb(64, 110, 45)  
}
```

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(64, 110, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(64, 110, 45) }
```

Border

The CSS property to change the border of an element to CIELCh 42, 42.342, 133.101 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(64, 110, 45) }
```

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

```
.border{ border-color:rgb(64, 110, 45) }
```

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

Here you see how a box with a 4 pixel `rgb(64, 110, 45)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(64, 110, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(64, 110, 45);  
box-shadow:4px 4px 4px 4px rgb(64, 110,  
45) }
```

Background

The CSS property to change the background color of an element to CIELCh 42, 42.342, 133.101 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(64, 110, 45) }
```

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

```
.background{ background-color: rgb(64, 110,  
45) }
```

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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