

Converting Colors

CIELCh(45, 43.381, 133.412)

Have a look what the booklet for
CIELCh(45, 43.381, 133.412)
contains.

CIELCh(45, 43.345, 133.434)	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(45, 43.345, 133.434)

Conversions

Conversions Part 1

Format	Color
Hex	467633
RGB	70, 118, 51
RGB Percent	27%, 46%, 20%
CMY	0.7249, 0.5366, 0.7994
CMYK	0.41, 0.00, 0.57, 0.54
HSL	103°, 40%, 33%
HSV	103°, 57%, 46%
XYZ	9.6344, 14.5417, 5.4477
YIQ	96.0100, -7.1010, -31.0130

Conversions

Conversions Part 2

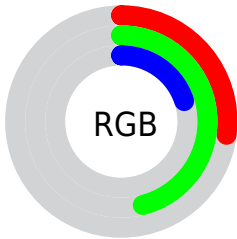
Format	Color
RYB	51, 118, 99
Decimal	4617779
CIELab	45.00, -29.80, 31.48
CIELCh	45, 43.345, 133.434
Yxy	14.5417, 0.3252, 0.4909
Android (android.graphics.Color)	4282807859 (0xFF467633)
YUV	96.0100, -22.1899, -22.8108
Hunter-Lab	38.1336, -21.6359, 18.2234

Details

The CIELCh color $45, 43.345, 133.434$ is a dark color, and the websafe version is hex 336633 . A complement of this color would be $30, 44.890, 318.453$, and the grayscale version is $41, 0.006, 296.813$.

A 20% lighter version of the original color is $65, 43.900, 133.495$, and $25, 43.332, 133.516$ is the 20% darker color. If you saturate the color by 10%, you get $44, 50.000, 132.981$, and if you desaturate by 10%, it is $46, 36.141, 133.966$.

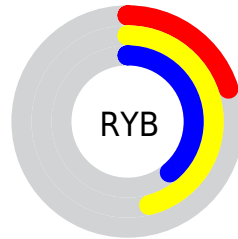
Distribution



Red (27%)

Green (46%)

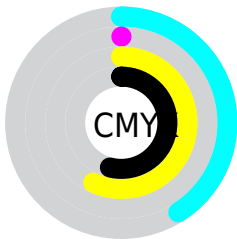
Blue (20%)



Red (20%)

Yellow (46%)

Blue (39%)

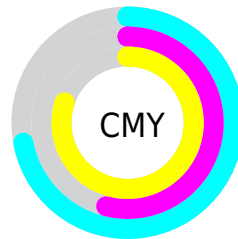


Cyan (41%)

Magenta (0%)

Yellow (57%)

Black (54%)



Cyan (72%)


Magenta (54%)


Yellow (80%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 43.345, 133.434 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 45, 43.345, 133.434 by changing the saturation by 10% instead.


 45, 43.345,
133.434


 45, 43.345,
133.434


 100, 43.345,
133.434


 35, 43.345,
133.434

 65, 43.345,
133.434


 25, 43.345,
133.434

 75, 43.345,
133.434

 15, 43.345,
133.434

 85, 43.345,
133.434

 5, 43.345, 133.434

 95, 43.345,
133.434

 0, 43.345, 133.434

 45, 43.345,

 45, 43.345,

133.434

133.434

■ 44, 50.000,
132.981

■ 46, 36.141,
133.966

■ 44, 55.837,
132.692

■ 46, 28.591,
134.515

■ 44, 60.549,
132.682

■ 47, 20.851,
135.046

■ 43, 64.078,
132.930

■ 48, 13.030,
135.541

■ 43, 65.186,
132.944

■ 49, 5.212, 136.001

■ 50, 2.546, 316.325

■ 51, 10.199,
316.712

■ 52, 17.720,
317.023

■ 54, 25.088,
317.291

Harmonies

Complementary

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



45, 43.345, 133.434



30, 44.890, 318.453

Rectangle

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



45, 43.345, 133.434



45, 43.345, 183.434



45, 43.345, 313.434



45, 43.345, 3.434

Sweetspot

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



45, 43.346, 133.435



61, 16.380, 135.508



43, 29.487, 86.621



31, 10.894, 135.436



82, 0.010, 296.813



33, 0.005, 296.813

Same Dimension

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



45, 43.346, 133.435



57, 62.501, 132.873



44, 41.023, 145.526



24, 4.349, 135.896



45, 66.893, 132.992



87, 114.358, 133.666

Inverse Universe

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



30, 44.890, 318.453



35, 64.959, 318.721



32, 40.791, 334.160



23, 4.380, 316.592



22, 69.230, 318.205



48, 117.690, 317.715

Previews

White Background



This preview shows how the CIELCh color 45, 43.345, 133.434 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 45, 43.345, 133.434 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 45, 43.345, 133.434

Background



This preview shows how black text looks on a background with the CIELCh color 45, 43.345, 133.434.



This preview shows how white text looks on a background with the CIELCh color 45, 43.345, 133.434.

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


45, 43.345, 133.434

Protanopia

45, 34.404, 95.563

Deuteranopia

45, 30.268, 78.734



Tritanopia
45, 11.709, 225.850

Trichromacy



Original Color
45, 43.345, 133.434

Protanomaly
44, 35.024, 112.159

Deuteranomaly
44, 30.652, 104.851

Tritanomaly
45, 18.424, 159.450

Monochromacy



Original Color
45, 43.345, 133.434

Achromatopsia
41, 0.006, 296.813

Achromatomaly
42, 16.177, 135.001

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 43.345, 133.434 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(70, 118, 51)` looks like.

```
.text, #text, p{  
    color:rgb(70, 118, 51)  
}
```

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(70, 118, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 118, 51) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 43.345, 133.434 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(70, 118, 51) }
```

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

```
.border{ border-color:rgb(70, 118, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 118, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 118, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 118, 51);  
box-shadow:4px 4px 4px 4px rgb(70, 118,  
51) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 43.345, 133.434 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 118, 51) }
```

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

```
.background{ background-color: rgb(70, 118,  
51) }
```

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