

Converting Colors

CIELCh(45, 38.626, 135.453)

Have a look what the booklet for
CIELCh(45, 38.626, 135.453)
contains.

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Color

CIELCh(45, 38.626, 135.453)

Conversions

Conversions Part 1

Format	Color
Hex	48753B
RGB	72, 117, 59
RGB Percent	28%, 46%, 23%
CMY	0.7159, 0.5394, 0.7670
CMYK	0.38, 0.00, 0.49, 0.54
HSL	107°, 33%, 35%
HSV	107°, 49%, 46%
XYZ	9.9190, 14.5417, 6.4779
YIQ	96.9330, -8.2020, -27.5780

Conversions

Conversions Part 2

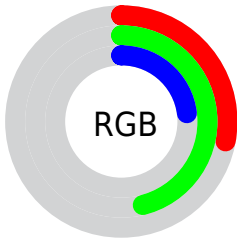
Format	Color
R_{YB}	59, 117, 104
Decimal	4748603
CIE Lab	45.00, -27.53, 27.10
CIE LCh	45, 38.626, 135.453
Yxy	14.5417, 0.3206, 0.4700
Android (android.graphics.Color)	4282938683 (0xFF48753B)
YUV	96.9330, -18.7010, -21.8662
Hunter-Lab	38.1336, -20.3041, 16.6218

Details

The CIELCh color $45, 38.626, 135.453$ is a dark color, and the websafe version is hex 336633 . A complement of this color would be $33, 39.502, 320.066$, and the grayscale version is $41, 0.006, 296.813$.

A 20% lighter version of the original color is $65, 38.568, 135.200$, and $25, 38.680, 135.345$ is the 20% darker color. If you saturate the color by 10%, you get $44, 45.775, 134.851$, and if you desaturate by 10%, it is $46, 31.063, 136.068$.

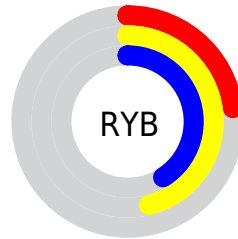
Distribution



Red (28%)

Green (46%)

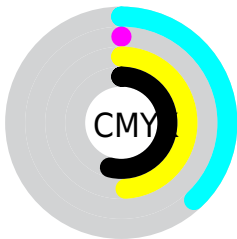
Blue (23%)



Red (23%)

Yellow (46%)

Blue (41%)

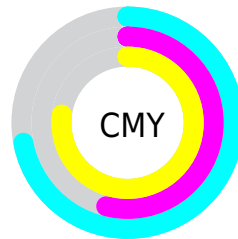


Cyan (38%)

Magenta (0%)

Yellow (49%)

Black (54%)



Cyan (72%)


Magenta (54%)


Yellow (77%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 38.626, 135.453 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, 38.626, 135.453 by changing the saturation by 10% instead.


 45, 38.626,
135.453


 45, 38.626,
135.453


 100, 38.626,
135.453


 35, 38.626,
135.453

 65, 38.626,
135.453


 25, 38.626,
135.453

 75, 38.626,
135.453

 15, 38.626,
135.453

 85, 38.626,
135.453

 5, 38.626, 135.453

 95, 38.626,
135.453

 0, 38.626, 135.453

 45, 38.626,

 45, 38.626,

135.453

■ 44, 45.775,
134.851

■ 44, 52.278,
134.326

■ 43, 57.848,
133.972

■ 43, 62.174,
133.902

■ 43, 65.499,
133.925

■ 43, 65.691,
133.913

135.453

■ 46, 31.063,
136.068

■ 47, 23.258,
136.655

■ 47, 15.342,
137.197

■ 48, 7.411, 137.690

■ 49, 0.465, 317.805

■ 51, 8.235, 318.456

■ 52, 15.864,
318.788

■ 53, 23.329,
319.071

■ 55, 30.616,

Harmonies

Complementary

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



45, 38.626, 135.453



33, 39.502, 320.066

Rectangle

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



45, 38.626, 135.453



45, 38.626, 185.453



45, 38.626, 315.453



45, 38.626, 5.453

Sweetspot

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



45, 38.627, 135.454



61, 14.702, 137.401



44, 26.942, 92.544



31, 9.976, 137.319



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, 38.627, 135.454



57, 56.333, 134.789



45, 34.190, 148.704



24, 4.425, 137.708



45, 67.705, 133.962



87, 115.631, 134.532

Inverse Universe

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



33, 39.502, 320.066



39, 57.721, 320.388



34, 34.373, 336.419



23, 4.451, 318.428



23, 68.580, 320.124



50, 116.487, 319.712

Previews

White Background



This preview shows how the CIELCh color 45, 38.626, 135.453 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, 38.626, 135.453 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, 38.626, 135.453

Background



This preview shows how black text looks on a background with the CIELCh color 45, 38.626, 135.453.



This preview shows how white text looks on a background with the CIELCh color 45, 38.626, 135.453.

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, 38.626, 135.453

Protanopia

45, 29.580, 95.762

Deuteranopia

45, 26.432, 76.581



Tritanopia
45, 11.416, 226.644

Trichromacy



Original Color
45, 38.626, 135.453

Protanomaly
45, 30.853, 113.593

Deuteranomaly
44, 26.268, 105.357

Tritanomaly
45, 16.305, 164.234

Monochromacy



Original Color
45, 38.626, 135.453

Achromatopsia
41, 0.006, 296.813

Achromatomaly
42, 14.379, 136.767

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 38.626, 135.453 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(72, 117, 59)` looks like.

```
.text, #text, p{  
    color:rgb(72, 117, 59)  
}
```

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(72, 117, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 117, 59) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 38.626, 135.453 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(72, 117, 59) }
```

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

```
.border{ border-color:rgb(72, 117, 59) }
```

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

Here you see how a box with a 4 pixel rgb(72, 117, 59) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 117, 59); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 117, 59);  
box-shadow:4px 4px 4px 4px rgb(72, 117,  
59) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 38.626, 135.453 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 117, 59) }
```

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

```
.background{ background-color: rgb(72, 117,  
59) }
```

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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