

Converting Colors

CIELCh(45, 41.869, 78.539)

Have a look what the booklet for
CIELCh(45, 41.869, 78.539) contains.

CIELCh(45, 41.837, 78.620)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(45, 41.837, 78.620)

Conversions

Conversions Part 1

Format	Color
Hex	896423
RGB	137, 100, 35
RGB Percent	54%, 39%, 14%
CMY	0.4629, 0.6080, 0.8629
CMYK	0.00, 0.27, 0.74, 0.46
HSL	38°, 59%, 34%
HSV	38°, 74%, 54%
XYZ	15.1646, 14.5417, 3.5944
YIQ	103.6530, 42.9170, -12.3710

Conversions

Conversions Part 2

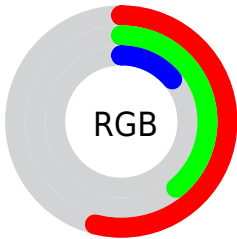
Format	Color
RYB	93, 137, 35
Decimal	9004067
CIELab	45.00, 8.26, 41.01
CIELCh	45, 41.837, 78.620
Yxy	14.5417, 0.4554, 0.4367
Android (android.graphics.Color)	4287194147 (0xFF896423)
YUV	103.6530, -33.8459, 29.2453
Hunter-Lab	38.1336, 4.2503, 21.1050

Details

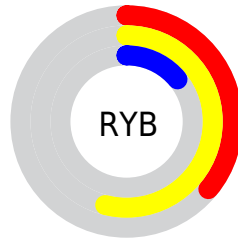
The CIELCh color **45, 41.837, 78.620** is a dark color, and the websafe version is hex **996633**. A complement of this color would be **31, 41.547, 284.852**, and the grayscale version is **44, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 41.874, 78.585**, and **25, 35.749, 76.455** is the 20% darker color. If you saturate the color by 10%, you get **44, 46.562, 76.881**, and if you desaturate by 10%, it is **46, 36.415, 80.172**.

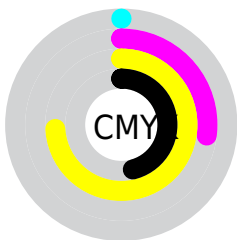
Distribution



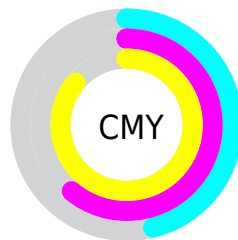
- Red (54%)
- Green (39%)
- Blue (14%)



- Red (36%)
- Yellow (54%)
- Blue (14%)



- Cyan (0%)
- Magenta (27%)
- Yellow (74%)
- Black (46%)



- Cyan (46%)
- Magenta (61%)
- Yellow (86%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 41.837, 78.620 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, 41.837, 78.620 by changing the saturation by 10% instead.

45, 41.837, 78.620

45, 41.837, 78.620

100, 41.837,
78.620

35, 41.837, 78.620

65, 41.837, 78.620

25, 41.837, 78.620

75, 41.837, 78.620

15, 41.837, 78.620

85, 41.837, 78.620

5, 41.837, 78.620

95, 41.837, 78.620

0, 41.837, 78.620

45, 41.837, 78.620

45, 41.837, 78.620

44, 46.562, 76.881

46, 36.415, 80.172

42, 50.085, 74.802

48, 30.681, 81.619

41, 51.967, 73.698

50, 24.861, 83.004

51, 19.075, 84.348

53, 13.386, 85.652

55, 7.819, 86.914

56, 2.383, 88.088

58, 2.924, 269.427

60, 8.108, 270.526

Harmonies

Complementary

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



45, 41.837, 78.620



31, 41.547, 284.852

Rectangle

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



45, 41.837, 78.620



45, 41.837, 128.620



45, 41.837, 258.620



45, 41.837, 308.620

Sweetspot

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



45, 41.837, 78.623



68, 14.903, 85.907



32, 45.601, 3.297



35, 10.002, 85.614



87, 0.010, 296.813



38, 0.005, 296.813

Same Dimension

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



45, 41.837, 78.623



55, 59.521, 75.573



54, 53.136, 110.583



28, 3.041, 87.559



40, 50.764, 73.799



1, 1.401, 88.703

Inverse Universe

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



31, 41.547, 284.852



35, 62.655, 290.758



22, 65.979, 304.275



27, 3.032, 269.913



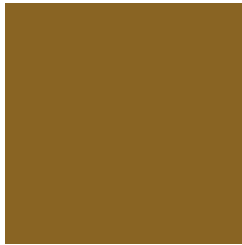
23, 55.715, 293.781



0, 1.401, 268.712

Previews

White Background



This preview shows how the CIELCh color 45, 41.837, 78.620 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, 41.837, 78.620 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

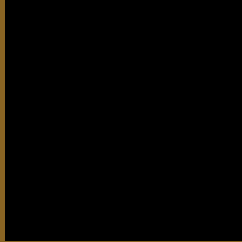
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 41.837, 78.620

Background



This preview shows how black text looks on a background with the CIELCh color 45, 41.837, 78.620.



This preview shows how white text looks on a background with the CIELCh color 45, 41.837, 78.620.

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, 41.837, 78.620

Protanopia

45, 39.722, 96.042

Deuteranopia

45, 41.732, 81.441



Tritanopia
45, 20.596, 10.817

Trichromacy



Original Color
45, 41.837, 78.620

Protanomaly
45, 40.039, 88.859

Deuteranomaly
45, 41.956, 80.837

Tritanomaly
45, 23.763, 49.398

Monochromacy



Original Color
45, 41.837, 78.620

Achromatopsia
44, 0.006, 296.813

Achromatomaly
44, 15.491, 85.721

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 41.837, 78.620 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(137, 100, 35)` looks like.

```
.text, #text, p{  
    color:rgb(137, 100, 35)  
}
```

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(137, 100, 35) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 100, 35) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 41.837, 78.620 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(137, 100, 35) }
```

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

```
.border{ border-color:rgb(137, 100, 35) }
```

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

Here you see how a box with a 4 pixel rgb(137, 100, 35) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 100, 35); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 100, 35);  
box-shadow:4px 4px 4px 4px rgb(137, 100,  
35) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 41.837, 78.620 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 100, 35) }
```

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

```
.background{ background-color: rgb(137,  
100, 35) }
```

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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