

Converting Colors

CIELCh(45, 12.530, 83.276)

Have a look what the booklet for
CIELCh(45, 12.530, 83.276) contains.

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Color

CIELCh(45, 12.508, 83.303)

Conversions

Conversions Part 1

Format	Color
Hex	756956
RGB	117, 105, 86
RGB Percent	46%, 41%, 34%
CMY	0.5414, 0.5884, 0.6629
CMYK	0.00, 0.10, 0.27, 0.54
HSL	37°, 15%, 40%
HSV	37°, 27%, 46%
XYZ	14.0528, 14.5417, 10.8595
YIQ	106.4220, 13.2510, -3.3650

Conversions

Conversions Part 2

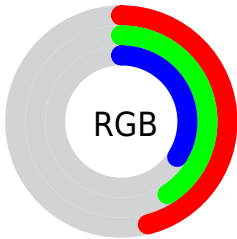
Format	Color
R_{YB}	106, 117, 86
Decimal	7694678
CIE Lab	45.00, 1.46, 12.42
CIE LCh	45, 12.508, 83.303
Yxy	14.5417, 0.3562, 0.3686
Android (android.graphics.Color)	4285884758 (0xFF756956)
YUV	106.4220, -10.0680, 9.2769
Hunter-Lab	38.1336, -0.9540, 9.8093

Details

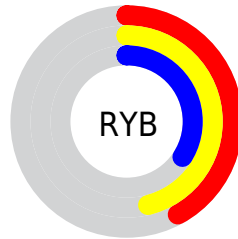
The CIELCh color **45, 12.508, 83.303** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **41, 12.218, 270.430**, and the grayscale version is **45, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 12.276, 83.483**, and **25, 12.277, 83.440** is the 20% darker color. If you saturate the color by 10%, you get **43, 17.456, 82.017**, and if you desaturate by 10%, it is **47, 7.683, 84.565**.

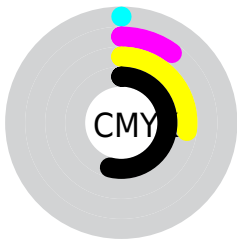
Distribution



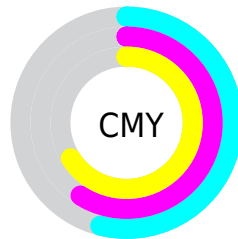
- Red (46%)
- Green (41%)
- Blue (34%)



- Red (42%)
- Yellow (46%)
- Blue (34%)



- Cyan (0%)
- Magenta (10%)
- Yellow (27%)
- Black (54%)





















- Cyan (54%)
- Magenta (59%)
- Yellow (66%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 12.508, 83.303 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, 12.508, 83.303 by changing the saturation by 10% instead.

 45, 12.508, 83.303	 45, 12.508, 83.303
 100, 12.508, 83.303	 35, 12.508, 83.303
 65, 12.508, 83.303	 25, 12.508, 83.303
 75, 12.508, 83.303	 15, 12.508, 83.303
 85, 12.508, 83.303	 5, 12.508, 83.303
 95, 12.508, 83.303	 0, 12.508, 83.303

 45, 12.508, 83.303	 45, 12.508, 83.303
 43, 17.456, 82.017	 47, 7.683, 84.565
 42, 22.502, 80.688	 48, 2.984, 85.753

41, 27.597, 79.317

50, 1.591, 267.121

39, 32.635, 77.883

51, 6.049, 268.177

38, 37.420, 76.337

53, 10.398,
269.261

36, 41.617, 74.581

55, 14.649,
270.305

35, 45.051, 72.594

35, 46.412, 72.022

56, 18.811,
271.304

58, 22.890,
272.255

60, 26.896,
273.160

Harmonies

Complementary

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



45, 12.508, 83.303



41, 12.218, 270.430

Rectangle

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



45, 12.508, 83.303



45, 12.508, 133.303



45, 12.508, 263.303



45, 12.508, 313.303

Sweetspot

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



45, 12.509, 83.311



62, 4.585, 85.560



40, 15.098, 351.928



31, 3.246, 85.414



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, 12.509, 83.311



57, 18.979, 82.497



48, 18.080, 112.050



24, 2.598, 85.463



36, 47.957, 71.854



72, 81.481, 69.926

Inverse Universe

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



41, 12.218, 270.430



51, 18.426, 271.589



38, 19.174, 296.572



23, 2.585, 267.774



22, 50.013, 291.828



46, 89.838, 294.066

Previews

White Background



This preview shows how the CIELCh color 45, 12.508, 83.303 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 45, 12.508, 83.303 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

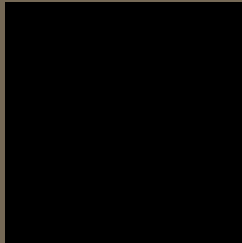
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 12.508, 83.303

Background



This preview shows how black text looks on a background with the CIELCh color 45, 12.508, 83.303.



This preview shows how white text looks on a background with the CIELCh color 45, 12.508, 83.303.

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, 12.508, 83.303

Protanopia

45, 11.690, 93.247

Deuteranopia

45, 13.819, 63.273



Tritanopia
45, 8.840, 348.016

Trichromacy



Original Color
45, 12.508, 83.303

Protanomaly
45, 11.817, 91.168

Deuteranomaly
45, 12.998, 70.483

Tritanomaly
45, 6.912, 30.038

Monochromacy



Original Color
45, 12.508, 83.303

Achromatopsia
45, 0.006, 296.813

Achromatomaly
45, 4.482, 87.403

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 12.508, 83.303 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(117, 105, 86)` looks like.

```
.text, #text, p{  
    color:rgb(117, 105, 86)  
}
```

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(117, 105, 86) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 105, 86) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 12.508, 83.303 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(117, 105, 86) }
```

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

```
.border{ border-color:rgb(117, 105, 86) }
```

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

Here you see how a box with a 4 pixel `rgb(117, 105, 86)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(117, 105, 86); -webkit-box-  
shadow:4px 4px 4px 4px rgb(117, 105, 86);  
box-shadow:4px 4px 4px 4px rgb(117, 105,  
86) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 12.508, 83.303 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 105, 86) }
```

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

```
.background{ background-color: rgb(117,  
105, 86) }
```

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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