

Converting Colors

CIELCh(45, 13.958, 88.484)

Have a look what the booklet for
CIELCh(45, 13.958, 88.484) contains.

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Color

CIELCh(45, 13.980, 87.657)

Conversions

Conversions Part 1

Format	Color
Hex	746953
RGB	116, 105, 83
RGB Percent	45%, 41%, 33%
CMY	0.5437, 0.5869, 0.6732
CMYK	0.00, 0.09, 0.28, 0.54
HSL	40°, 17%, 39%
HSV	40°, 28%, 46%
XYZ	13.9118, 14.5417, 10.3255
YIQ	105.7810, 13.6180, -4.5100

Conversions

Conversions Part 2

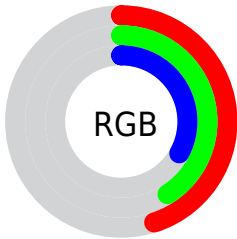
Format	Color
R_{YB}	100, 116, 83
Decimal	7629139
CIE Lab	45.00, 0.57, 13.97
CIE LCh	45, 13.980, 87.657
Yxy	14.5417, 0.3587, 0.3750
Android (android.graphics.Color)	4285819219 (0xFF746953)
YUV	105.7810, -11.2310, 8.9621
Hunter-Lab	38.1336, -1.6139, 10.6394

Details

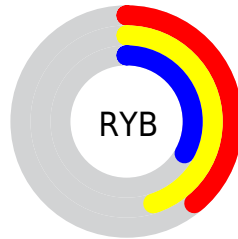
The CIELCh color **45, 13.980, 87.657** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **40, 13.896, 275.197**, and the grayscale version is **45, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 13.650, 87.739**, and **25, 13.896, 88.008** is the 20% darker color. If you saturate the color by 10%, you get **44, 19.075, 86.379**, and if you desaturate by 10%, it is **46, 8.964, 88.909**.

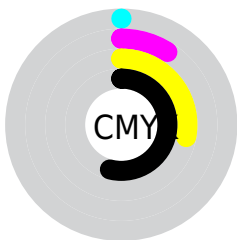
Distribution



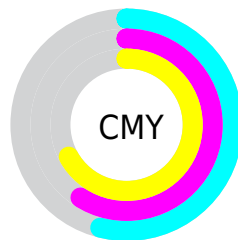
- Red (45%)
- Green (41%)
- Blue (33%)



- Red (39%)
- Yellow (45%)
- Blue (33%)



- Cyan (0%)
- Magenta (9%)
- Yellow (28%)
- Black (54%)





















- Cyan (54%)
- Magenta (59%)
- Yellow (67%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 13.980, 87.657 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, 13.980, 87.657 by changing the saturation by 10% instead.

 45, 13.980, 87.657	 45, 13.980, 87.657
 100, 13.980, 87.657	 35, 13.980, 87.657
 65, 13.980, 87.657	 25, 13.980, 87.657
 75, 13.980, 87.657	 15, 13.980, 87.657
 85, 13.980, 87.657	 5, 13.980, 87.657
 95, 13.980, 87.657	 0, 13.980, 87.657

 45, 13.980, 87.657	 45, 13.980, 87.657
 44, 19.075, 86.379	 46, 8.964, 88.909
 42, 24.212, 85.058	 48, 4.042, 90.100

41, 29.319, 83.693

49, 0.781, 271.520

40, 34.263, 82.265

51, 5.508, 272.469

39, 38.809, 80.731

52, 10.143,
273.537

38, 42.587, 79.001

54, 14.692,
274.565

36, 45.705, 77.153

36, 46.285, 76.895

55, 19.161,
275.547

57, 23.558,
276.481

58, 27.886,
277.368

Harmonies

Complementary

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



45, 13.980, 87.657



40, 13.896, 275.197

Rectangle

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



45, 13.980, 87.657



45, 13.980, 137.657



45, 13.980, 267.657



45, 13.980, 317.657

Sweetspot

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



45, 13.981, 87.664



61, 5.365, 90.003



39, 15.733, 355.422



31, 3.762, 89.864



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, 13.981, 87.664



56, 20.796, 86.837



48, 19.334, 114.040



24, 2.735, 90.024



38, 47.984, 76.734



75, 81.258, 75.053

Inverse Universe

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



40, 13.896, 275.197



49, 20.651, 276.386



37, 20.566, 298.482



23, 2.736, 272.276



20, 54.723, 295.256



43, 98.233, 297.282

Previews

White Background



This preview shows how the CIELCh color 45, 13.980, 87.657 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, 13.980, 87.657 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

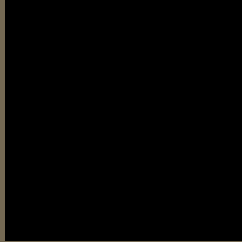
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 13.980, 87.657

Background



This preview shows how black text looks on a background with the CIELCh color 45, 13.980, 87.657.



This preview shows how white text looks on a background with the CIELCh color 45, 13.980, 87.657.

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, 13.980, 87.657

Protanopia

45, 13.413, 94.878

Deuteranopia

45, 14.721, 66.270



Tritanopia
45, 8.493, 346.428

Trichromacy



Original Color
45, 13.980, 87.657

Protanomaly
45, 13.526, 93.031

Deuteranomaly
45, 13.981, 73.187

Tritanomaly
45, 6.642, 35.622

Monochromacy



Original Color
45, 13.980, 87.657

Achromatopsia
45, 0.006, 296.813

Achromatomaly
45, 5.040, 89.815

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 13.980, 87.657 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(116, 105, 83)` looks like.

```
.text, #text, p{  
    color:rgb(116, 105, 83)  
}
```

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(116, 105, 83) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 105, 83) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 13.980, 87.657 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(116, 105, 83) }
```

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

```
.border{ border-color:rgb(116, 105, 83) }
```

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

Here you see how a box with a 4 pixel `rgb(116, 105, 83)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 105, 83); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 105, 83);  
box-shadow:4px 4px 4px 4px rgb(116, 105,  
83) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 13.980, 87.657 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 105, 83) }
```

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

```
.background{ background-color: rgb(116,  
105, 83) }
```

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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