

Converting Colors

CIELCh(49, 47.610, 157.054)

Have a look what the booklet for
CIELCh(49, 47.610, 157.054)
contains.

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Color

CIELCh(49, 47.782, 156.683)

Conversions

Conversions Part 1

Format	Color
Hex	008653
RGB	0, 134, 83
RGB Percent	0%, 53%, 33%
CMY	1.0000, 0.4755, 0.6754
CMYK	1.00, 0.00, 0.38, 0.48
HSL	157°, 100%, 26%
HSV	157°, 100%, 52%
XYZ	10.0318, 17.5941, 11.0028
YIQ	88.1200, -63.4930, -44.2690

Conversions

Conversions Part 2

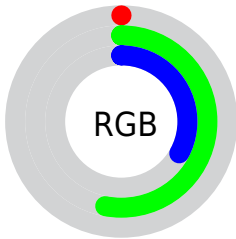
Format	Color
RYB	0, 83, 134
Decimal	34387
CIELab	49.00, -43.88, 18.91
CIELCh	49, 47.782, 156.683
Yxy	17.5941, 0.2597, 0.4555
Android (android.graphics.Color)	4278224467 (0xFF008653)
YUV	88.1200, -2.5242, -77.2812
Hunter-Lab	41.9453, -30.7133, 13.8092

Details

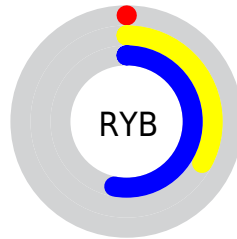
The CIELCh color **49, 47.782, 156.683** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **28, 52.538, 11.924**, and the grayscale version is **37, 0.005, 296.813**.

A 20% lighter version of the original color is **69, 47.689, 156.878**, and **30, 39.791, 148.643** is the 20% darker color. If you saturate the color by 10%, you get **49, 47.742, 156.650**, and if you desaturate by 10%, it is **49, 44.899, 158.673**.

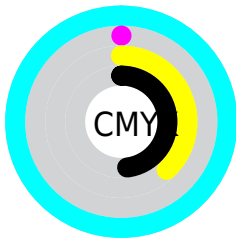
Distribution



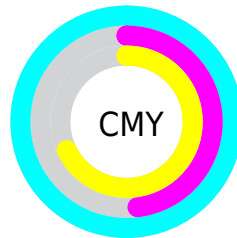
- Red (0%)
- Green (53%)
- Blue (33%)



- Red (0%)
- Yellow (33%)
- Blue (53%)



- Cyan (100%)
- Magenta (0%)
- Yellow (38%)
- Black (48%)



- Cyan (100%)
- Magenta (48%)
- Yellow (68%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 47.782, 156.683 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 49, 47.782, 156.683 by changing the saturation by 10% instead.

 49, 47.782,
156.683

 49, 47.782,
156.683

 100, 47.782,
156.683

 39, 47.782,
156.683

 69, 47.782,
156.683

 29, 47.782,
156.683

 79, 47.782,
156.683

 19, 47.782,
156.683

 89, 47.782,
156.683

 9, 47.782, 156.683

 99, 47.782,
156.683

 0, 47.782, 156.683

 49, 47.782,

 49, 47.782,

156.683

■ 49, 47.742,
156.650

156.683

■ 49, 44.899,
158.673

■ 49, 41.673,
160.629

■ 50, 37.878,
162.389

■ 50, 33.529,
163.962

■ 51, 28.682,
165.367

■ 52, 23.416,
166.627

■ 53, 17.824,
167.764

■ 54, 12.000,
168.802

Harmonies

Complementary

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



49, 47.782, 156.683



28, 52.538, 11.924

Rectangle

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



49, 47.782, 156.683



49, 47.782, 206.683



49, 47.782, 336.683



49, 47.782, 26.683

Sweetspot

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



49, 47.742, 156.650



67, 22.018, 167.692



49, 69.652, 130.980



34, 14.886, 167.296



86, 0.010, 296.813



37, 0.005, 296.813

Same Dimension

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



49, 47.742, 156.650



63, 58.314, 156.102



45, 27.380, 216.964



27, 3.379, 169.856



48, 46.730, 156.717



1, 0.813, 170.596

Inverse Universe

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



28, 52.538, 11.924



37, 63.720, 13.217



28, 61.934, 40.994



26, 3.444, 351.334



27, 51.470, 11.767



0, 0.813, 350.584

Previews

White Background



This preview shows how the CIELCh color 49, 47.782, 156.683 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 49, 47.782, 156.683 looks on a black 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

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

CIELCh 49, 47.782, 156.683

Background



This preview shows how black text looks on a background with the CIELCh color 49, 47.782, 156.683.



This preview shows how white text looks on a background with the CIELCh color 49, 47.782, 156.683.

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

49, 47.782, 156.683

Protanopia

49, 24.191, 96.072

Deuteranopia

49, 17.697, 69.004



Tritanopia
49, 24.068, 211.421

Trichromacy



Original Color
49, 47.782, 156.683

Protanomaly
47, 31.067, 140.890

Deuteranomaly
47, 23.581, 141.920

Tritanomaly
49, 30.308, 182.729

Monochromacy



Original Color
49, 47.782, 156.683

Achromatopsia
37, 0.005, 296.813

Achromatomaly
41, 22.285, 165.544

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 47.782, 156.683 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(0, 134, 83)` looks like.

```
.text, #text, p{  
    color:rgb(0, 134, 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(0, 134, 83) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 134, 83) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 47.782, 156.683 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(0, 134, 83) }
```

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

```
.border{ border-color:rgb(0, 134, 83) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 134, 83)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 134, 83); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 134, 83);  
box-shadow:4px 4px 4px 4px rgb(0, 134, 83)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 49, 47.782, 156.683 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 134, 83) }
```

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

```
.background{ background-color: rgb(0, 134,  
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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