

Converting Colors

CIELCh(45, 50.964, 157.964)

Have a look what the booklet for
CIELCh(45, 50.964, 157.964)
contains.

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Color

CIELCh(45, 46.639, 154.931)

Conversions

Conversions Part 1

Format	Color
Hex	007B48
RGB	0, 123, 72
RGB Percent	0%, 48%, 28%
CMY	1.0000, 0.5187, 0.7183
CMYK	1.00, 0.00, 0.41, 0.52
HSL	155°, 100%, 24%
HSV	155°, 100%, 48%
XYZ	8.1724, 14.5417, 8.4803
YIQ	80.4090, -56.9370, -41.9370

Conversions

Conversions Part 2

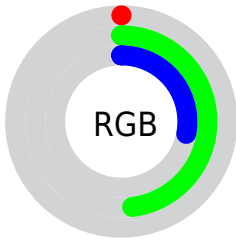
Format	Color
RYB	0, 78, 123
Decimal	31560
CIELab	45.00, -42.25, 19.76
CIELCh	45, 46.639, 154.931
Yxy	14.5417, 0.2620, 0.4662
Android (android.graphics.Color)	4278221640 (0xFF007B48)
YUV	80.4090, -4.1456, -70.5187
Hunter-Lab	38.1336, -28.4795, 13.5083

Details

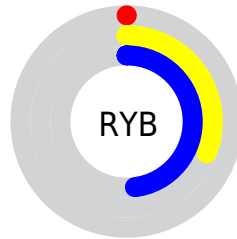
The CIELCh color **45, 46.639, 154.931** is a dark color, and the websafe version is hex **006633**. A complement of this color would be **25, 49.156, 8.293**, and the grayscale version is **34, 0.005, 296.813**.

A 20% lighter version of the original color is **65, 46.793, 154.597**, and **26, 38.615, 145.949** is the 20% darker color. If you saturate the color by 10%, you get **45, 46.442, 154.757**, and if you desaturate by 10%, it is **45, 43.537, 156.739**.

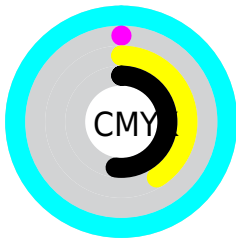
Distribution



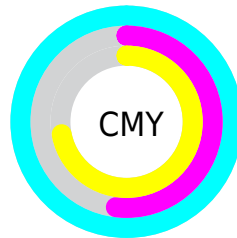
- Red (0%)
- Green (48%)
- Blue (28%)



- Red (0%)
- Yellow (31%)
- Blue (48%)



- Cyan (100%)
- Magenta (0%)
- Yellow (41%)
- Black (52%)





- Cyan (100%)
- Magenta (52%)
- Yellow (72%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 46.639, 154.931 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, 46.639, 154.931 by changing the saturation by 10% instead.


 45, 46.639,
154.931


 45, 46.639,
154.931


 100, 46.639,
154.931


 35, 46.639,
154.931

 65, 46.639,
154.931


 25, 46.639,
154.931

 75, 46.639,
154.931

 15, 46.639,
154.931

 85, 46.639,
154.931

 5, 46.639, 154.931

 95, 46.639,
154.931

 0, 46.639, 154.931

 45, 46.639,

 45, 46.639,

154.931

154.931

■ 45, 46.442,
154.757

■ 45, 43.537,
156.739

■ 46, 40.298,
158.685

■ 46, 36.532,
160.435

■ 46, 32.258,
161.999

■ 47, 27.532,
163.393

■ 48, 22.431,
164.640

■ 48, 17.042,
165.762

■ 49, 11.455,
166.782

Harmonies

Complementary

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



45, 46.639, 154.931



25, 49.156, 8.293

Rectangle

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



45, 46.639, 154.931



45, 46.639, 204.931



45, 46.639, 334.931



45, 46.639, 24.931

Sweetspot

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



45, 46.442, 154.757



62, 21.226, 165.682



45, 64.756, 129.981



32, 14.535, 165.301



84, 0.010, 296.813



35, 0.005, 296.813

Same Dimension

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



45, 46.442, 154.757



58, 57.142, 154.139



43, 26.412, 210.343



25, 3.232, 167.818



46, 47.086, 154.711



88, 81.250, 153.392

Inverse Universe

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



25, 49.156, 8.293



34, 59.859, 9.657



25, 58.029, 39.765



24, 3.286, 349.245



26, 49.799, 8.393



54, 84.118, 11.351

Previews

White Background



This preview shows how the CIELCh color 45, 46.639, 154.931 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, 46.639, 154.931 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, 46.639, 154.931

Background



This preview shows how black text looks on a background with the CIELCh color 45, 46.639, 154.931.



This preview shows how white text looks on a background with the CIELCh color 45, 46.639, 154.931.

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, 46.525, 154.748

Protanopia

45, 24.535, 95.707

Deuteranopia

45, 18.692, 71.811



Tritanopia
45, 22.235, 212.938

Trichromacy



Original Color
45, 46.525, 154.748

Protanomaly
43, 31.101, 137.884

Deuteranomaly
43, 24.449, 138.782

Tritanomaly
45, 28.481, 181.601

Monochromacy



Original Color
45, 46.525, 154.748

Achromatopsia
34, 0.005, 296.813

Achromatomaly
37, 21.410, 163.512

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 46.639, 154.931 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, 123, 72)` looks like.

```
.text, #text, p{  
    color:rgb(0, 123, 72)  
}
```

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, 123, 72) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 123, 72) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 46.639, 154.931 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, 123, 72) }
```

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

```
.border{ border-color:rgb(0, 123, 72) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 123, 72)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 123, 72); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 123, 72);  
box-shadow:4px 4px 4px 4px rgb(0, 123, 72)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 45, 46.639, 154.931 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 123, 72) }
```

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

```
.background{ background-color: rgb(0, 123,  
72) }
```

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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