

# Converting Colors

CIELCh(46, 43.182, 148.309)

Have a look what the booklet for  
CIELCh(46, 43.182, 148.309)  
contains.

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# Color

**CIELCh(46, 43.086, 148.327)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2D7B45
RGB	45, 123, 69
RGB Percent	18%, 48%, 27%
CMY	0.8218, 0.5161, 0.7280
CMYK	0.63, 0.00, 0.44, 0.52
HSL	138°, 46%, 33%
HSV	138°, 63%, 48%
XYZ	9.3208, 15.2687, 8.1459
YIQ	93.5220, -29.1540, -33.3300

# Conversions

## Conversions Part 2

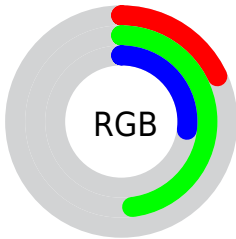
Format	Color
<b>RYB</b>	45, 105, 123
Decimal	2980677
CIELab	46.00, -36.67, 22.62
CIElCh	46, 43.086, 148.327
Yxy	15.2687, 0.2847, 0.4664
Android (android.graphics.Color)	4281170757 (0xFF2D7B45)
YUV	93.5220, -12.0893, -42.5538
Hunter-Lab	39.0751, -25.8031, 14.9925

# Details

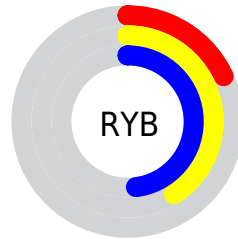
The CIELCh color  $46, 43.086, 148.327$  is a dark color, and the websafe version is hex  $006633$ . A complement of this color would be  $32, 43.026, 339.577$ , and the grayscale version is  $40, 0.006, 296.813$ .

A 20% lighter version of the original color is  $66, 42.982, 148.462$ , and  $26, 39.922, 144.425$  is the 20% darker color. If you saturate the color by 10%, you get  $46, 48.708, 146.788$ , and if you desaturate by 10%, it is  $47, 36.928, 149.694$ .

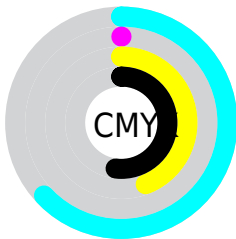
# Distribution



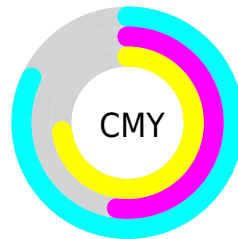
- Red (18%)
- Green (48%)
- Blue (27%)



- Red (18%)
- Yellow (41%)
- Blue (48%)



- Cyan (63%)
- Magenta (0%)
- Yellow (44%)
- Black (52%)




- Cyan (82%)
- Magenta (52%)
- Yellow (73%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 43.086, 148.327 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 46, 43.086, 148.327 by changing the saturation by 10% instead.





 46, 43.086,  
148.327


 46, 43.086,  
148.327


 100, 43.086,  
148.327


 36, 43.086,  
148.327

 66, 43.086,  
148.327


 26, 43.086,  
148.327

 76, 43.086,  
148.327

 16, 43.086,  
148.327

 86, 43.086,  
148.327

 6, 43.086, 148.327

 96, 43.086,  
148.327

 0, 43.086, 148.327

 46, 43.086,

 46, 43.086,

148.327

148.327

■ 46, 48.708,  
146.788

■ 47, 36.928,  
149.694

■ 45, 53.690,  
145.084

■ 47, 30.353,  
150.895

■ 45, 57.967,  
143.254

■ 48, 23.485,  
151.945

■ 45, 60.608,  
142.110

■ 49, 16.443,  
152.865

■ 50, 9.330, 153.678

■ 51, 2.231, 154.464

■ 53, 4.786, 334.930

■ 54, 11.673,  
335.514

■ 56, 18.395,



# Harmonies

# Complementary

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



46, 43.086, 148.327



32, 43.026, 339.577

# Rectangle

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



46, 43.086, 148.327



46, 43.086, 198.327



46, 43.086, 328.327



46, 43.086, 18.327

# Sweetspot

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



46, 43.087, 148.327



63, 16.727, 153.178



48, 44.151, 118.590



33, 11.604, 152.978



84, 0.010, 296.813



35, 0.005, 296.813





# Same Dimension

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



46, 43.087, 148.327



58, 61.930, 146.011



47, 27.830, 176.969



25, 3.955, 153.990



45, 61.192, 142.082



87, 105.724, 140.948



# Inverse Universe

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



32, 43.026, 339.577



39, 60.037, 341.265



31, 36.225, 12.867



24, 3.976, 335.120



27, 54.532, 344.649



56, 90.880, 345.834



# Previews

## White Background



This preview shows how the CIELCh color 46, 43.086, 148.327 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 46, 43.086, 148.327 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 46, 43.086, 148.327**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 46, 43.086, 148.327.



This preview shows how white text looks on a background with the CIELCh color 46, 43.086, 148.327.

# 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

46, 43.086, 148.327

### Protanopia

46, 26.229, 95.174

### Deuteranopia

46, 21.405, 74.830





**Tritanopia**  
46, 18.544, 214.514

# Trichromacy



**Original Color**  
46, 43.086, 148.327

**Protanomaly**  
45, 29.518, 125.682

**Deuteranomaly**  
45, 23.439, 120.183

**Tritanomaly**  
46, 23.778, 176.201

# Monochromacy



**Original Color**  
46, 43.086, 148.327

**Achromatopsia**  
40, 0.006, 296.813

**Achromatomaly**  
42, 17.110, 152.654

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 43.086, 148.327 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(45, 123, 69)` looks like.

```
.text, #text, p{  
    color:rgb(45, 123, 69)  
}
```

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(45, 123, 69) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 123, 69) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 43.086, 148.327 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(45, 123, 69) }
```

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

```
.border{ border-color:rgb(45, 123, 69) }
```

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

Here you see how a box with a 4 pixel rgb(45, 123, 69) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 123, 69); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 123, 69);  
box-shadow:4px 4px 4px 4px rgb(45, 123,  
69) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 43.086, 148.327 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 123, 69) }
```

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

```
.background{ background-color: rgb(45, 123,  
69) }
```

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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