

Converting Colors

CIELCh(46, 31.143, 163.916)

Have a look what the booklet for
CIELCh(46, 31.143, 163.916)
contains.

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Color

CIELCh(46, 31.143, 163.916)

Conversions

Conversions Part 1

Format	Color
Hex	317A5E
RGB	49, 122, 94
RGB Percent	19%, 48%, 37%
CMY	0.8095, 0.5231, 0.6328
CMYK	0.60, 0.00, 0.23, 0.52
HSL	157°, 43%, 33%
HSV	157°, 60%, 48%
XYZ	10.1629, 15.2687, 12.9156
YIQ	96.9810, -34.5200, -24.1840

Conversions

Conversions Part 2

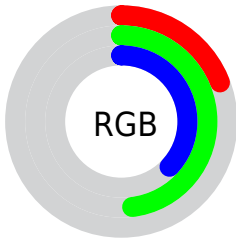
Format	Color
RYB	49, 94, 122
Decimal	3242590
CIELab	46.00, -29.92, 8.63
CIElCh	46, 31.143, 163.916
Yxy	15.2687, 0.2650, 0.3982
Android (android.graphics.Color)	4281432670 (0xFF317A5E)
YUV	96.9810, -1.4696, -42.0793
Hunter-Lab	39.0751, -21.9562, 7.7554

Details

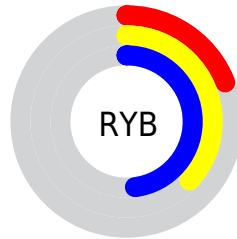
The CIELCh color **46, 31.143, 163.916** is a dark color, and the websafe version is hex **336633**. A complement of this color would be **31, 34.893, 358.206**, and the grayscale version is **41, 0.006, 296.813**.

A 20% lighter version of the original color is **66, 31.370, 163.684**, and **27, 28.965, 161.142** is the 20% darker color. If you saturate the color by 10%, you get **46, 35.205, 162.366**, and if you desaturate by 10%, it is **47, 26.628, 165.300**.

Distribution



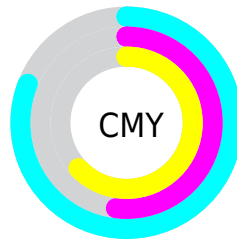
- Red (19%)
- Green (48%)
- Blue (37%)



- Red (19%)
- Yellow (37%)
- Blue (48%)



- Cyan (60%)
- Magenta (0%)
- Yellow (23%)
- Black (52%)





- Cyan (81%)
- Magenta (52%)
- Yellow (63%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 31.143, 163.916 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, 31.143, 163.916 by changing the saturation by 10% instead.


 46, 31.143,
163.916


 46, 31.143,
163.916


 100, 31.143,
163.916


 36, 31.143,
163.916

 66, 31.143,
163.916


 26, 31.143,
163.916


 76, 31.143,
163.916

 16, 31.143,
163.916

 86, 31.143,
163.916

 6, 31.143, 163.916

 96, 31.143,
163.916

 0, 31.143, 163.916

 46, 31.143,

 46, 31.143,

163.916

■ 46, 35.205,
162.366

■ 45, 38.761,
160.634

■ 45, 41.796,
158.709

■ 45, 44.497,
156.757

163.916

■ 47, 26.628,
165.300

■ 47, 21.734,
166.544

■ 48, 16.544,
167.667

■ 49, 11.144,
168.694

■ 50, 5.614, 169.653

■ 51, 0.024, 183.378

■ 52, 5.571, 351.203

■ 54, 11.123,
351.981

■ 55, 16.600,

352.696

Harmonies

Complementary

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



46, 31.143, 163.916



31, 34.893, 358.206

Rectangle

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



46, 31.143, 163.916



46, 31.143, 213.916



46, 31.143, 343.916



46, 31.143, 33.916

Sweetspot

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



46, 31.143, 163.915



63, 12.415, 168.852



46, 45.362, 130.372



32, 8.565, 168.616



83, 0.010, 296.813



34, 0.005, 296.813

Same Dimension

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



46, 31.143, 163.915



58, 44.266, 161.746



44, 20.846, 211.595



25, 3.164, 169.746



46, 45.426, 156.688



88, 78.294, 155.379

Inverse Universe

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



31, 34.893, 358.206



37, 50.005, 1.541



32, 32.958, 34.066



24, 3.224, 351.197



25, 49.971, 11.352



54, 84.707, 14.448

Previews

White Background



This preview shows how the CIELCh color 46, 31.143, 163.916 looks on a white background.

Color Contrast Check

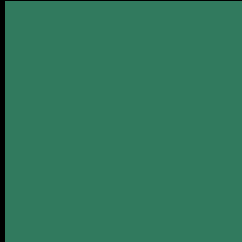
Large Text (above 18pt) WCAG AA ✓ Pass

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 46, 31.143, 163.916 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, 31.143, 163.916

Background



This preview shows how black text looks on a background with the CIELCh color 46, 31.143, 163.916.

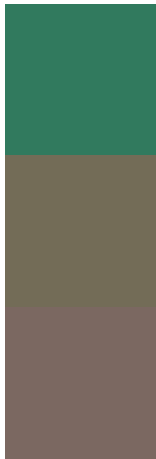


This preview shows how white text looks on a background with the CIELCh color 46, 31.143, 163.916.

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, 31.143, 163.916

Protanopia

46, 12.795, 94.436

Deuteranopia

46, 9.249, 46.760



Tritanopia
46, 19.330, 215.625

Trichromacy



Original Color
46, 31.143, 163.916

Protanomaly
45, 17.007, 141.034

Deuteranomaly
45, 10.211, 143.734

Tritanomaly
46, 21.619, 190.687

Monochromacy



Original Color
46, 31.143, 163.916

Achromatopsia
41, 0.006, 296.813

Achromatomaly
42, 12.476, 168.987

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 46, 31.143, 163.916 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(49, 122, 94)` looks like.

```
.text, #text, p{  
    color:rgb(49, 122, 94)  
}
```

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(49, 122, 94) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 122, 94) }
```

Border

The CSS property to change the border of an element to CIELCh 46, 31.143, 163.916 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(49, 122, 94) }
```

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

```
.border{ border-color:rgb(49, 122, 94) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 122, 94)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 122, 94); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 122, 94);  
box-shadow:4px 4px 4px 4px rgb(49, 122,  
94) }
```

Background

The CSS property to change the background color of an element to CIELCh 46, 31.143, 163.916 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 122, 94) }
```

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

```
.background{ background-color: rgb(49, 122,  
94) }
```

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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