

Converting Colors

CIELCh(31, 28.358, 165.701)

Have a look what the booklet for
CIELCh(31, 28.358, 165.701)
contains.

CIELCh(31, 28.235, 165.813)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(31, 28.235, 165.813)

Conversions

Conversions Part 1

Format	Color
Hex	09533D
RGB	9, 83, 61
RGB Percent	4%, 33%, 24%
CMY	0.9655, 0.6728, 0.7592
CMYK	0.89, 0.00, 0.26, 0.67
HSL	162°, 81%, 18%
HSV	162°, 89%, 33%
XYZ	4.0900, 6.6515, 5.5409
YIQ	58.3660, -37.0420, -22.5300

Conversions

Conversions Part 2

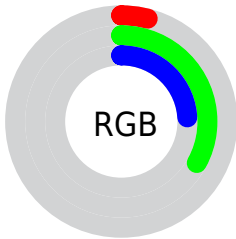
Format	Color
R_YB	9, 52, 83
Decimal	611133
CIE Lab	31.00, -27.37, 6.92
CIE LCh	31, 28.235, 165.813
Yxy	6.6515, 0.2512, 0.4085
Android (android.graphics.Color)	4278801213 (0xFF09533D)
YUV	58.3660, 1.2986, -43.2940
Hunter-Lab	25.7905, -16.8259, 5.3154

Details

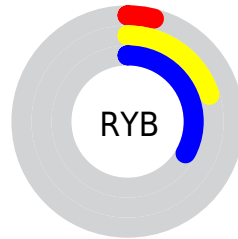
The CIELCh color **31, 28.235, 165.813** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **16, 35.023, 12.790**, and the grayscale version is **25, 0.004, 296.813**.

A 20% lighter version of the original color is **51, 28.063, 165.305**, and **12, 21.209, 155.376** is the 20% darker color. If you saturate the color by 10%, you get **31, 30.149, 164.250**, and if you desaturate by 10%, it is **31, 26.221, 167.463**.

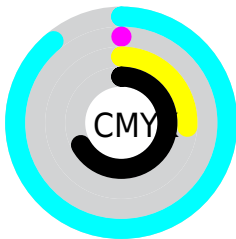
Distribution



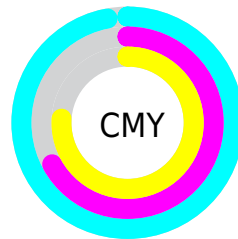
- Red (4%)
- Green (33%)
- Blue (24%)



- Red (4%)
- Yellow (20%)
- Blue (33%)



- Cyan (89%)
- Magenta (0%)
- Yellow (26%)
- Black (67%)





- Cyan (97%)
- Magenta (67%)
- Yellow (76%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 31, 28.235, 165.813 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 31, 28.235, 165.813 by changing the saturation by 10% instead.


 31, 28.235,
165.813


 31, 28.235,
165.813

 100, 28.235,
165.813

 21, 28.235,
165.813

 51, 28.235,
165.813


 11, 28.235,
165.813


 61, 28.235,
165.813

 1, 28.235, 165.813

 71, 28.235,
165.813

 0, 28.235, 165.813

 81, 28.235,
165.813

 91, 28.235,
165.813

■ 31, 28.235,
165.813

■ 31, 28.235,
165.813

■ 31, 30.149,
164.250

■ 31, 26.221,
167.463

■ 31, 30.252,
164.173

■ 31, 23.841,
168.958

■ 32, 21.107,
170.310

■ 32, 18.054,
171.536

■ 33, 14.731,
172.656

■ 33, 11.190,
173.688

■ 34, 7.487, 174.651

■ 35, 3.672, 175.575

Harmonies

Complementary

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



31, 28.235, 165.813



16, 35.023, 12.790

Rectangle

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



31, 28.235, 165.813



31, 28.235, 215.813



31, 28.235, 345.813



31, 28.235, 35.813

Sweetspot

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



31, 28.235, 165.812



44, 12.874, 173.838



31, 46.930, 132.288



22, 8.720, 173.645



75, 0.009, 296.813



24, 0.004, 296.813

Same Dimension

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



31, 28.235, 165.812



41, 37.056, 163.359



26, 18.491, 229.526



16, 2.128, 175.648



39, 35.758, 163.488



82, 65.725, 161.903

Inverse Universe

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



16, 35.023, 12.790



22, 46.519, 18.579



18, 35.757, 41.045



15, 2.179, 356.975



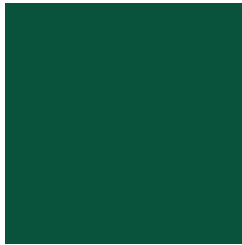
20, 44.912, 18.234



49, 82.269, 22.469

Previews

White Background



This preview shows how the CIELCh color 31, 28.235, 165.813 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 ✓ Pass

Black Background



This preview shows how the CIELCh color 31, 28.235, 165.813 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 31, 28.235, 165.813

Background



This preview shows how black text looks on a background with the CIELCh color 31, 28.235, 165.813.



This preview shows how white text looks on a background with the CIELCh color 31, 28.235, 165.813.

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

31, 28.130, 165.709

Protanopia

31, 11.007, 95.684

Deuteranopia

31, 7.177, 52.043



Tritanopia
31, 17.278, 212.287

Trichromacy



Original Color
31, 28.130, 165.709

Protanomaly
30, 16.124, 148.708

Deuteranomaly
30, 11.370, 155.359

Tritanomaly
31, 19.804, 191.014

Monochromacy



Original Color
31, 28.130, 165.709

Achromatopsia
25, 0.004, 296.813

Achromatomaly
27, 12.537, 172.681

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 28.235, 165.813 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(9, 83, 61)` looks like.

```
.text, #text, p{  
    color:rgb(9, 83, 61)  
}
```

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(9, 83, 61) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(9, 83, 61) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 28.235, 165.813 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(9, 83, 61) }
```

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

```
.border{ border-color:rgb(9, 83, 61) }
```

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

Here you see how a box with a 4 pixel `rgb(9, 83, 61)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(9, 83, 61); -webkit-box-shadow:4px  
4px 4px 4px rgb(9, 83, 61); box-shadow:4px  
4px 4px 4px rgb(9, 83, 61) }
```

Background

The CSS property to change the background color of an element to CIELCh 31, 28.235, 165.813 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(9, 83, 61) }
```

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

```
.background{ background-color: rgb(9, 83,  
61) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor