

Converting Colors

CIELCh(31, 30.840, 156.175)

Have a look what the booklet for
CIELCh(31, 30.840, 156.175)
contains.

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Color

CIELCh(31, 30.358, 156.766)

Conversions

Conversions Part 1

Format	Color
Hex	145335
RGB	20, 83, 53
RGB Percent	8%, 33%, 21%
CMY	0.9234, 0.6729, 0.7907
CMYK	0.77, 0.00, 0.36, 0.67
HSL	152°, 62%, 20%
HSV	152°, 77%, 33%
XYZ	4.0535, 6.6515, 4.4825
YIQ	60.7430, -27.9180, -22.6860

Conversions

Conversions Part 2

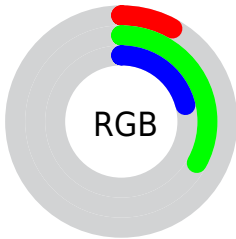
Format	Color
R_YB	20, 61, 83
Decimal	1332021
CIE _{Lab}	31.00, -27.90, 11.98
CIE _{LCh}	31, 30.358, 156.766
Yxy	6.6515, 0.2669, 0.4380
Android (android.graphics.Color)	4279522101 (0xFF145335)
YUV	60.7430, -3.8173, -35.7316
Hunter-Lab	25.7905, -17.0782, 7.7484

Details

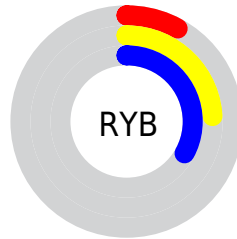
The CIELCh color **31, 30.358, 156.766** is a dark color, and the websafe version is hex **336633**. A complement of this color would be **18, 32.306, 354.821**, and the grayscale version is **26, 0.004, 296.813**.

A 20% lighter version of the original color is **51, 29.977, 156.771**, and **12, 25.307, 147.315** is the 20% darker color. If you saturate the color by 10%, you get **31, 33.220, 155.032**, and if you desaturate by 10%, it is **31, 27.134, 158.323**.

Distribution



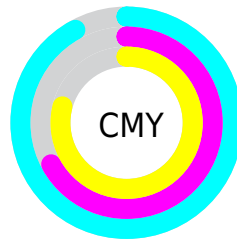
- Red (8%)
- Green (33%)
- Blue (21%)



- Red (8%)
- Yellow (24%)
- Blue (33%)



- Cyan (77%)
- Magenta (0%)
- Yellow (36%)
- Black (67%)





- Cyan (92%)
- Magenta (67%)
- Yellow (79%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 31, 30.358, 156.766 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, 30.358, 156.766 by changing the saturation by 10% instead.


 31, 30.358,
156.766


 31, 30.358,
156.766

 100, 30.358,
156.766


 21, 30.358,
156.766

 51, 30.358,
156.766


 11, 30.358,
156.766


 61, 30.358,
156.766

 1, 30.358, 156.766

 71, 30.358,
156.766

 0, 30.358, 156.766

 81, 30.358,
156.766

 91, 30.358,
156.766

■ 31, 30.358,
156.766

■ 31, 30.358,
156.766

■ 31, 33.220,
155.032

■ 31, 27.134,
158.323

■ 31, 35.857,
153.299

■ 32, 23.582,
159.714

■ 30, 36.759,
152.773

■ 32, 19.754,
160.957

■ 33, 15.708,
162.071

■ 33, 11.507,
163.075

■ 34, 7.208, 163.990

■ 35, 2.864, 164.861

■ 36, 1.483, 345.389

Harmonies

Complementary

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



31, 30.358, 156.766



18, 32.306, 354.821

Rectangle

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



31, 30.358, 156.766



31, 30.358, 206.766



31, 30.358, 336.766



31, 30.358, 26.766

Sweetspot

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



31, 30.358, 156.766



44, 12.494, 163.336



32, 39.914, 126.881



22, 8.707, 163.115



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, 30.358, 156.766



40, 42.854, 153.383



31, 19.649, 198.713



16, 2.385, 164.675



38, 43.644, 152.026



81, 80.945, 150.328

Inverse Universe

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



18, 32.306, 354.821



23, 43.907, 359.928



18, 33.801, 31.129



15, 2.416, 345.908



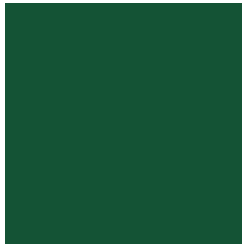
21, 43.986, 2.249



50, 78.625, 5.604

Previews

White Background



This preview shows how the CIELCh color 31, 30.358, 156.766 looks on a white background.

Color Contrast Check

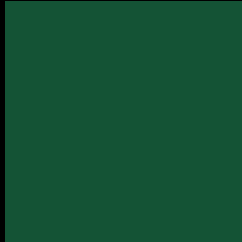
Large Text (above 18pt) WCAG AA ✓ Pass

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, 30.358, 156.766 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

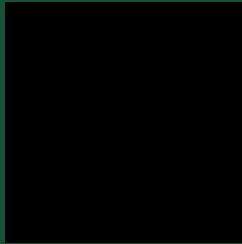
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 31, 30.358, 156.766

Background



This preview shows how black text looks on a background with the CIELCh color 31, 30.358, 156.766.

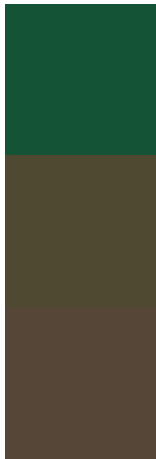


This preview shows how white text looks on a background with the CIELCh color 31, 30.358, 156.766.

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

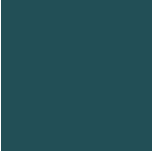
31, 30.205, 156.564

Protanopia

31, 15.394, 96.366

Deuteranopia

31, 11.549, 69.733



Tritanopia
31, 15.772, 213.975

Trichromacy



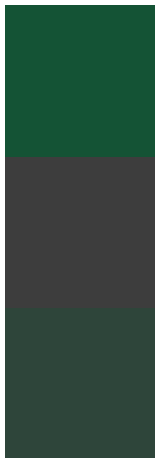
Original Color
31, 30.205, 156.564

Protanomaly
30, 18.794, 136.327

Deuteranomaly
30, 14.229, 134.625

Tritanomaly
31, 19.173, 183.119

Monochromacy



Original Color
31, 30.205, 156.564

Achromatopsia
26, 0.004, 296.813

Achromatomaly
27, 12.350, 162.069

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 30.358, 156.766 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(20, 83, 53)` looks like.

```
.text, #text, p{  
    color:rgb(20, 83, 53)  
}
```

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(20, 83, 53) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(20, 83, 53) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 30.358, 156.766 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(20, 83, 53) }
```

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

```
.border{ border-color:rgb(20, 83, 53) }
```

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

Here you see how a box with a 4 pixel `rgb(20, 83, 53)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(20, 83, 53); -webkit-box-  
shadow:4px 4px 4px 4px rgb(20, 83, 53);  
box-shadow:4px 4px 4px 4px rgb(20, 83, 53)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 31, 30.358, 156.766 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(20, 83, 53) }
```

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

```
.background{ background-color: rgb(20, 83,  
53) }
```

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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