

Converting Colors

CIELCh(31, 45.103, 121.306)

Have a look what the booklet for
CIELCh(31, 45.103, 121.306)
contains.

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Color

CIELCh(31, 44.850, 121.220)

Conversions

Conversions Part 1

Format	Color
Hex	345100
RGB	52, 81, 0
RGB Percent	20%, 32%, 0%
CMY	0.7952, 0.6815, 0.9993
CMYK	0.36, 0.00, 1.00, 0.68
HSL	81°, 100%, 16%
HSV	81°, 100%, 32%
XYZ	4.3859, 6.6515, 1.0581
YIQ	63.0950, 8.7170, -31.3390

Conversions

Conversions Part 2

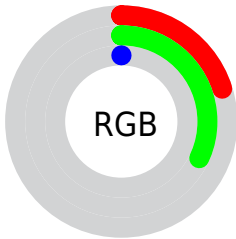
Format	Color
RYB	0, 81, 29
Decimal	3428608
CIELab	31.00, -23.25, 38.35
CIELCh	31, 44.850, 121.220
Yxy	6.6515, 0.3626, 0.5499
Android (android.graphics.Color)	4281618688 (0xFF345100)
YUV	63.0950, -31.1058, -9.7303
Hunter-Lab	25.7905, -14.7782, 15.6209

Details

The CIELCh color **31, 44.850, 121.220** is a dark color, and the websafe version is hex **336600**. A complement of this color would be **8, 55.257, 310.036**, and the grayscale version is **27, 0.004, 296.813**.

A 20% lighter version of the original color is **51, 45.176, 121.448**, and **11, 26.856, 143.520** is the 20% darker color. If you saturate the color by 10%, you get **31, 44.928, 121.220**, and if you desaturate by 10%, it is **31, 41.722, 121.109**.

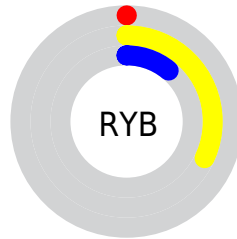
Distribution



Red (20%)

Green (32%)

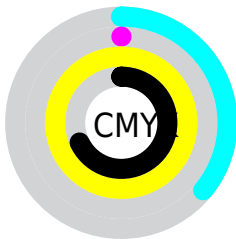
Blue (0%)



Red (0%)

Yellow (32%)

Blue (11%)

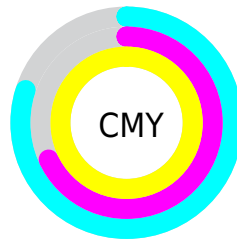


Cyan (36%)

Magenta (0%)

Yellow (100%)

Black (68%)



Cyan (80%)


Magenta (68%)


Yellow (100%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 31, 44.850, 121.220 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, 44.850, 121.220 by changing the saturation by 10% instead.


 31, 44.850,
121.220


 31, 44.850,
121.220

 100, 44.850,
121.220

 21, 44.850,
121.220

 51, 44.850,
121.220


 11, 44.850,
121.220


 61, 44.850,
121.220

 1, 44.850, 121.220

 71, 44.850,
121.220

 0, 44.850, 121.220

 81, 44.850,
121.220

 91, 44.850,
121.220

■ 31, 44.850,
121.220

■ 31, 44.850,
121.220

■ 31, 44.928,
121.220

■ 31, 41.722,
121.109

■ 31, 38.567,
120.891

■ 32, 34.719,
120.945

■ 32, 30.347,
121.199

■ 32, 25.616,
121.579

■ 33, 20.651,
122.030

■ 33, 15.540,
122.517

■ 34, 10.347,

123.013

■ 34, 5.114, 123.505

Harmonies

Complementary

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



31, 44.850, 121.220



8, 55.257, 310.036

Rectangle

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



31, 44.850, 121.220



31, 44.850, 171.220



31, 44.850, 301.220



31, 44.850, 351.220

Sweetspot

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



31, 44.850, 121.221



43, 19.291, 122.455



18, 35.856, 49.777



21, 13.253, 122.335



74, 0.009, 296.813



22, 0.004, 296.813

Same Dimension

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



31, 44.850, 121.221



40, 53.731, 121.733



29, 50.992, 134.425



16, 2.938, 123.555



84, 97.095, 122.785

Inverse Universe

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



8, 55.257, 310.036



12, 66.292, 309.705



15, 50.816, 322.950



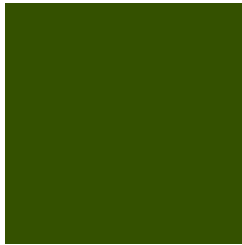
15, 2.983, 304.374



33, 119.866, 309.013

Previews

White Background



This preview shows how the CIELCh color 31, 44.850, 121.220 looks on a white background.

Color Contrast Check

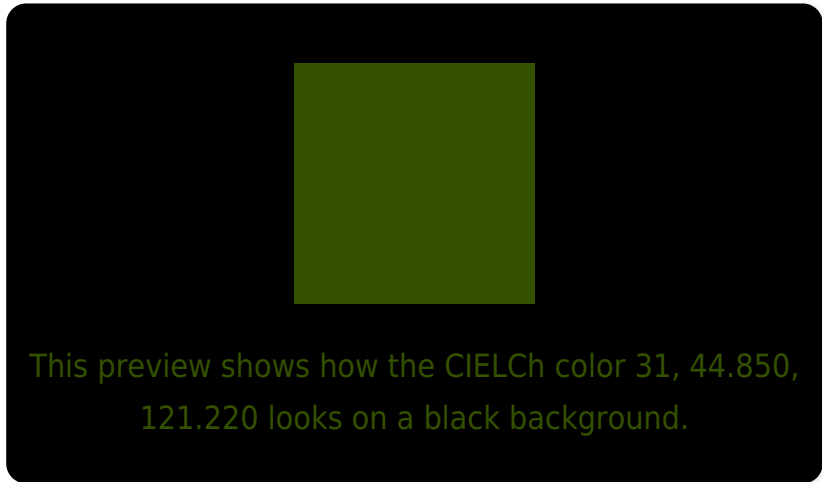
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

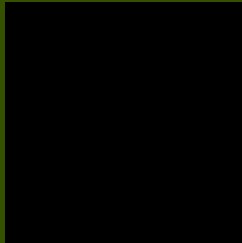
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 31, 44.850, 121.220

Background



This preview shows how black text looks on a background with the CIELCh color 31, 44.850, 121.220.



This preview shows how white text looks on a background with the CIELCh color 31, 44.850, 121.220.

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

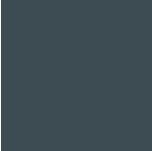
31, 44.850, 121.220

Protanopia

31, 39.594, 95.931

Deuteranopia

31, 34.002, 83.018



Tritanopia
31, 7.055, 238.171

Trichromacy



Original Color
31, 44.850, 121.220

Protanomaly
31, 40.477, 106.533

Deuteranomaly
30, 35.623, 99.291

Tritanomaly
31, 18.024, 136.130

Monochromacy



Original Color
31, 44.850, 121.220

Achromatopsia
27, 0.004, 296.813

Achromatomaly
28, 19.678, 122.277

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 44.850, 121.220 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(52, 81, 0)` looks like.

```
.text, #text, p{  
    color:rgb(52, 81, 0)  
}
```

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(52, 81, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(52, 81, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 44.850, 121.220 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(52, 81, 0) }
```

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

```
.border{ border-color:rgb(52, 81, 0) }
```

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

Here you see how a box with a 4 pixel rgb(52, 81, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(52, 81, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(52, 81, 0); box-shadow:4px  
4px 4px 4px rgb(52, 81, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 31, 44.850, 121.220 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(52, 81, 0) }
```

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

```
.background{ background-color: rgb(52, 81,  
0) }
```

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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