

Converting Colors

CIELCh(31, 31.811, 296.773)

Have a look what the booklet for
CIELCh(31, 31.811, 296.773)
contains.

CIELCh(31, 31.199, 296.122)	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, 31.199, 296.122)

Conversions

Conversions Part 1

Format	Color
Hex	454475
RGB	69, 68, 117
RGB Percent	27%, 27%, 46%
CMY	0.7301, 0.7340, 0.5419
CMYK	0.41, 0.42, 0.00, 0.54
HSL	241°, 27%, 36%
HSV	241°, 42%, 46%
XYZ	7.6972, 6.6515, 17.6485
YIQ	73.8850, -15.1330, 15.4510

Conversions

Conversions Part 2

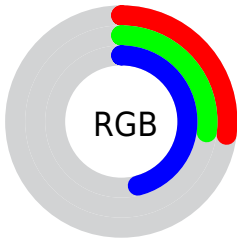
Format	Color
RYB	69, 68, 117
Decimal	4539509
CIELab	31.00, 13.74, -28.01
CIELCh	31, 31.199, 296.122
Yxy	6.6515, 0.2406, 0.2079
Android (android.graphics.Color)	4282729589 (0xFF454475)
YUV	73.8850, 21.2557, -4.2841
Hunter-Lab	25.7905, 8.1403, -22.5190

Details

The CIELCh color **31, 31.199, 296.122** is a dark color, and the websafe version is hex **333366**. A complement of this color would be **48, 28.140, 107.266**, and the grayscale version is **31, 0.005, 296.813**.

A 20% lighter version of the original color is **51, 30.981, 295.842**, and **11, 31.169, 296.367** is the 20% darker color. If you saturate the color by 10%, you get **27, 39.413, 297.869**, and if you desaturate by 10%, it is **35, 23.280, 294.587**.

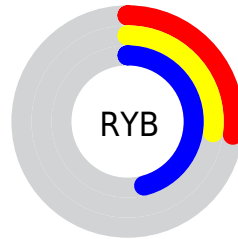
Distribution



Red (27%)

Green (27%)

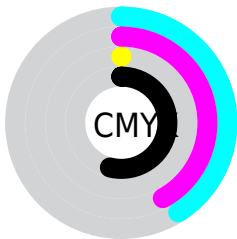
Blue (46%)



Red (27%)

Yellow (27%)

Blue (46%)

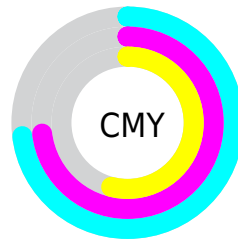


Cyan (41%)

Magenta (42%)

Yellow (0%)

Black (54%)



Cyan (73%)


Magenta (73%)


Yellow (54%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 31, 31.199, 296.122 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, 31.199, 296.122 by changing the saturation by 10% instead.


 31, 31.199,
296.122


 31, 31.199,
296.122

 100, 31.199,
296.122


 21, 31.199,
296.122

 51, 31.199,
296.122


 11, 31.199,
296.122


 61, 31.199,
296.122

 1, 31.199, 296.122

 71, 31.199,
296.122

 0, 31.199, 296.122

 81, 31.199,
296.122

 91, 31.199,
296.122

■ 31, 31.199,
296.122

■ 31, 31.199,
296.122

■ 27, 39.413,
297.869

■ 35, 23.280,
294.587

■ 23, 47.839,
299.796

■ 40, 15.672,
293.260

■ 19, 56.235,
301.804

■ 44, 8.364, 292.122

■ 16, 64.056,
303.706

■ 48, 1.334, 291.172

■ 53, 5.436, 110.302

■ 13, 70.377,
305.224

■ 57, 11.964,
109.590

■ 11, 75.044,
306.390

■ 61, 18.269,
108.975

■ 65, 24.364,
108.444

■ 69, 30.263,
107.983

Harmonies

Complementary

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



31, 31.199, 296.122



48, 28.140, 107.266

Rectangle

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



31, 31.199, 296.122



31, 31.199, 346.122



31, 31.199, 116.122



31, 31.199, 166.122

Sweetspot

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



31, 31.198, 296.122



56, 11.396, 292.272



46, 17.017, 199.203



28, 7.954, 292.468



82, 0.010, 296.813



33, 0.005, 296.813

Same Dimension

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



31, 31.198, 296.122



36, 47.277, 297.753



33, 32.176, 311.602



22, 3.937, 291.826



12, 77.606, 306.384



32, 131.694, 306.328

Inverse Universe

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



36, 34.659, 327.142



45, 50.775, 327.576



46, 30.449, 127.789



23, 4.693, 325.433



28, 66.115, 329.020



59, 111.997, 329.064

Previews

White Background



This preview shows how the CIELCh color 31, 31.199, 296.122 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 CIE LCh color 31, 31.199, 296.122 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

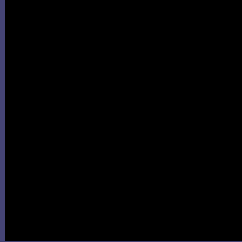
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 31, 31.199, 296.122

Background



This preview shows how black text looks on a background with the CIELCh color 31, 31.199, 296.122.



This preview shows how white text looks on a background with the CIELCh color 31, 31.199, 296.122.

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

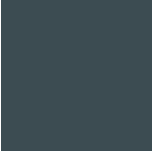
31, 31.199, 296.122

Protanopia

31, 31.366, 285.593

Deuteranopia

31, 27.900, 279.737



Tritanopia
31, 7.339, 230.133

Trichromacy



Original Color
31, 31.199, 296.122

Protanomaly
31, 31.214, 289.217

Deuteranomaly
31, 28.808, 285.712

Tritanomaly
31, 14.370, 277.586

Monochromacy



Original Color
31, 31.199, 296.122

Achromatopsia
31, 0.005, 296.813

Achromatomaly
31, 11.468, 292.232

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 31.199, 296.122 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(69, 68, 117)` looks like.

```
.text, #text, p{  
    color:rgb(69, 68, 117)  
}
```

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(69, 68, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 68, 117) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 31.199, 296.122 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(69, 68, 117) }
```

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

```
.border{ border-color:rgb(69, 68, 117) }
```

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

Here you see how a box with a 4 pixel rgb(69, 68, 117) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 68, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 68, 117);  
box-shadow:4px 4px 4px 4px rgb(69, 68,  
117) }
```

Background

The CSS property to change the background color of an element to CIELCh 31, 31.199, 296.122 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 68, 117) }
```

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

```
.background{ background-color: rgb(69, 68,  
117) }
```

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