

Converting Colors

CIELCh(31, 51.956, 337.965)

Have a look what the booklet for
CIELCh(31, 51.956, 337.965)
contains.

CIELCh(31, 51.754, 337.961)	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, 51.754, 337.961)

Conversions

Conversions Part 1

Format	Color
Hex	802068
RGB	128, 32, 104
RGB Percent	50%, 13%, 41%
CMY	0.4973, 0.8737, 0.5915
CMYK	0.00, 0.75, 0.19, 0.50
HSL	315°, 60%, 31%
HSV	315°, 75%, 50%
XYZ	11.9607, 6.6515, 13.7968
YIQ	68.9120, 34.1040, 42.7440

Conversions

Conversions Part 2

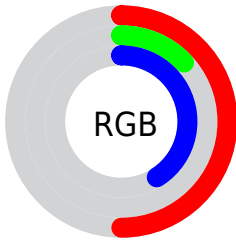
Format	Color
R_{YB}	128, 32, 104
Decimal	8396904
CIE _{Lab}	31.00, 47.97, -19.42
CIE _{LCh}	31, 51.754, 337.961
Yxy	6.6515, 0.3691, 0.2052
Android (android.graphics.Color)	4286586984 (0xFF802068)
YUV	68.9120, 17.2984, 51.8202
Hunter-Lab	25.7905, 37.6483, -13.6642

Details

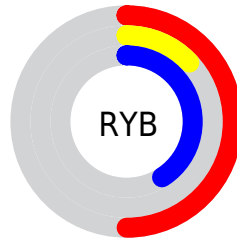
The CIELCh color **31, 51.754, 337.961** is a dark color, and the websafe version is hex **990066**. A complement of this color would be **47, 53.407, 144.497**, and the grayscale version is **29, 0.005, 296.813**.

A 20% lighter version of the original color is **51, 51.824, 338.261**, and **14, 40.331, 339.244** is the 20% darker color. If you saturate the color by 10%, you get **29, 55.096, 339.016**, and if you desaturate by 10%, it is **33, 46.939, 337.028**.

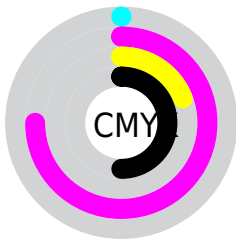
Distribution



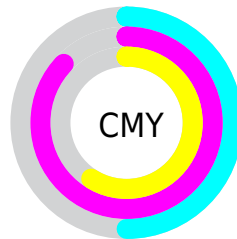
- Red (50%)
- Green (13%)
- Blue (41%)



- Red (50%)
- Yellow (13%)
- Blue (41%)



- Cyan (0%)
- Magenta (75%)
- Yellow (19%)
- Black (50%)





- Cyan (50%)
- Magenta (87%)
- Yellow (59%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 31, 51.754, 337.961 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, 51.754, 337.961 by changing the saturation by 10% instead.


 31, 51.754,
337.961


 31, 51.754,
337.961

 100, 51.754,
337.961


 21, 51.754,
337.961

 51, 51.754,
337.961


 11, 51.754,
337.961


 61, 51.754,
337.961

 1, 51.754, 337.961

 71, 51.754,
337.961

 0, 51.754, 337.961

 81, 51.754,
337.961

 91, 51.754,
337.961

■ 31, 51.754,
337.961

■ 31, 51.754,
337.961

■ 29, 55.096,
339.016

■ 33, 46.939,
337.028

■ 28, 56.882,
340.231

■ 36, 40.950,
336.180

■ 28, 57.616,
340.870

■ 38, 34.120,
335.392

■ 41, 26.759,
334.650

■ 45, 19.121,
333.944

■ 48, 11.393,
333.267

■ 52, 3.706, 332.587

■ 56, 3.855, 152.103

■ 59, 11.241,
151.486

Harmonies

Complementary

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



31, 51.754, 337.961



47, 53.407, 144.497

Rectangle

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



31, 51.754, 337.961



31, 51.754, 27.961



31, 51.754, 157.961



31, 51.754, 207.961

Sweetspot

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



31, 51.752, 337.961



58, 20.862, 333.782



22, 62.319, 306.478



29, 14.132, 333.934



85, 0.010, 296.813



36, 0.005, 296.813

Same Dimension

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



31, 51.752, 337.961



38, 68.150, 339.876



29, 43.394, 12.648



25, 4.284, 332.882



28, 57.397, 340.862



0, 0.000, 0.000

Inverse Universe

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



31, 51.752, 337.961



38, 68.150, 339.876



48, 33.723, 171.098



25, 4.284, 332.882



28, 57.397, 340.862



0, 0.000, 0.000

Previews

White Background



This preview shows how the CIELCh color 31, 51.754, 337.961 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, 51.754, 337.961 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

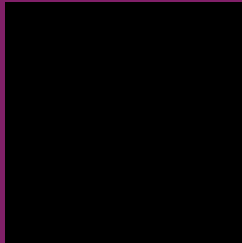
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 31, 51.754, 337.961

Background



This preview shows how black text looks on a background with the CIELCh color 31, 51.754, 337.961.

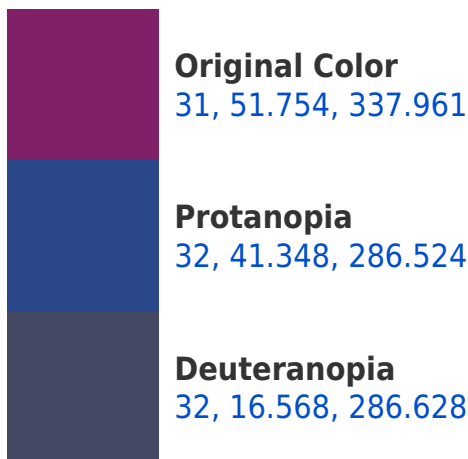


This preview shows how white text looks on a background with the CIELCh color 31, 51.754, 337.961.

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





Tritanopia
31, 36.063, 24.158

Trichromacy



Original Color
31, 51.754, 337.961

Protanomaly
29, 43.167, 303.576

Deuteranomaly
30, 30.014, 318.819

Tritanomaly
31, 38.517, 3.006

Monochromacy



Original Color
31, 51.754, 337.961

Achromatopsia
29, 0.005, 296.813

Achromatomaly
29, 22.131, 335.086

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 51.754, 337.961 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(128, 32, 104)` looks like.

```
.text, #text, p{  
    color:rgb(128, 32, 104)  
}
```

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(128, 32, 104) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 32, 104) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 51.754, 337.961 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(128, 32, 104) }
```

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

```
.border{ border-color:rgb(128, 32, 104) }
```

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

Here you see how a box with a 4 pixel rgb(128, 32, 104) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 32, 104); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 32, 104);  
box-shadow:4px 4px 4px 4px rgb(128, 32,  
104) }
```

Background

The CSS property to change the background color of an element to CIELCh 31, 51.754, 337.961 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 32, 104) }
```

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

```
.background{ background-color: rgb(128, 32,  
104) }
```

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