

Converting Colors

CIELCh(31, 67.331, 332.889)

Have a look what the booklet for
CIELCh(31, 67.331, 332.889)
contains.

CIELCh(31, 66.964, 333.002)	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, 66.964, 333.002)

Conversions

Conversions Part 1

Format	Color
Hex	89007A
RGB	137, 0, 122
RGB Percent	54%, 0%, 48%
CMY	0.4646, 1.0000, 0.5233
CMYK	0.00, 1.00, 0.11, 0.46
HSL	307°, 100%, 27%
HSV	307°, 100%, 54%
XYZ	13.7148, 6.6515, 18.8329
YIQ	54.8710, 42.4900, 66.9860

Conversions

Conversions Part 2

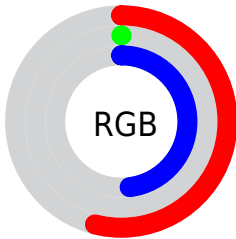
Format	Color
R_{YB}	137, 0, 122
Decimal	8978554
CIE _{Lab}	31.00, 59.67, -30.40
CIE _{LCh}	31, 66.964, 333.002
Yxy	6.6515, 0.3499, 0.1697
Android (android.graphics.Color)	4287168634 (0xFF89007A)
YUV	54.8710, 33.0946, 72.0271
Hunter-Lab	25.7905, 49.7885, -25.2417

Details

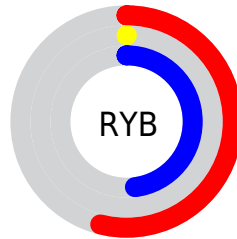
The CIELCh color **31, 66.964, 333.002** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **49, 72.930, 137.327**, and the grayscale version is **23, 0.004, 296.813**.

A 20% lighter version of the original color is **51, 66.939, 333.008**, and **17, 46.833, 332.702** is the 20% darker color. If you saturate the color by 10%, you get **31, 66.794, 333.005**, and if you desaturate by 10%, it is **32, 65.006, 332.505**.

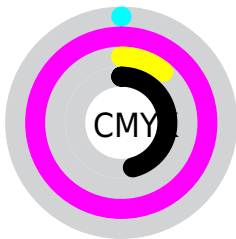
Distribution



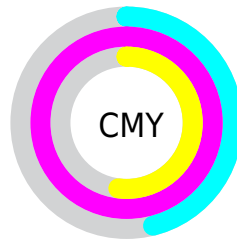
- Red (54%)
- Green (0%)
- Blue (48%)



- Red (54%)
- Yellow (0%)
- Blue (48%)



- Cyan (0%)
- Magenta (100%)
- Yellow (11%)
- Black (46%)





- Cyan (46%)
- Magenta (100%)
- Yellow (52%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 31, 66.964, 333.002 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, 66.964, 333.002 by changing the saturation by 10% instead.


 31, 66.964,
333.002


 31, 66.964,
333.002

 100, 66.964,
333.002


 21, 66.964,
333.002

 51, 66.964,
333.002


 11, 66.964,
333.002


 61, 66.964,
333.002

 1, 66.964, 333.002

 71, 66.964,
333.002

 0, 66.964, 333.002

 81, 66.964,
333.002

 91, 66.964,
333.002

■ 31, 66.964,
333.002

■ 31, 66.964,
333.002

■ 31, 66.794,
333.005

■ 32, 65.006,
332.505

■ 33, 61.970,
332.001

■ 35, 57.229,
331.488

■ 37, 51.001,
330.957

■ 40, 43.618,
330.407

■ 43, 35.431,
329.840

■ 46, 26.755,
329.264

■ 49, 17.845,

328.684

■ 53, 8.885, 328.102

Harmonies

Complementary

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



31, 66.964, 333.002



49, 72.930, 137.327

Rectangle

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



31, 66.964, 333.002



31, 66.964, 23.002



31, 66.964, 153.002



31, 66.964, 203.002

Sweetspot

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



31, 66.794, 333.005



59, 33.294, 329.303



15, 83.517, 306.724



29, 22.585, 329.513



87, 0.010, 296.813



38, 0.005, 296.813

Same Dimension

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



31, 66.794, 333.005



41, 81.163, 333.125



28, 53.187, 10.252



27, 5.046, 328.052



30, 65.411, 332.990



0, 2.329, 327.562

Inverse Universe

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



31, 66.794, 333.005



41, 81.163, 333.125



50, 49.572, 155.395



27, 5.046, 328.052



30, 65.411, 332.990



0, 2.329, 327.562

Previews

White Background



This preview shows how the CIELCh color 31, 66.964, 333.002 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, 66.964, 333.002 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

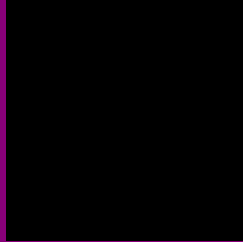
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 31, 66.964, 333.002

Background



This preview shows how black text looks on a background with the CIELCh color 31, 66.964, 333.002.



This preview shows how white text looks on a background with the CIELCh color 31, 66.964, 333.002.

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, 66.964, 333.002

Protanopia

32, 51.947, 285.871

Deuteranopia

33, 24.376, 280.993



Tritanopia
32, 39.328, 25.155

Trichromacy



Original Color
31, 66.964, 333.002

Protanomaly
26, 61.721, 301.303

Deuteranomaly
28, 45.660, 313.873

Tritanomaly
30, 46.030, 356.907

Monochromacy



Original Color
31, 66.964, 333.002

Achromatopsia
23, 0.004, 296.813

Achromatomaly
23, 34.043, 331.090

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 66.964, 333.002 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(137, 0, 122)` looks like.

```
.text, #text, p{  
    color:rgb(137, 0, 122)  
}
```

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(137, 0, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 0, 122) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 66.964, 333.002 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(137, 0, 122) }
```

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

```
.border{ border-color:rgb(137, 0, 122) }
```

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

Here you see how a box with a 4 pixel rgb(137, 0, 122) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 0, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 0, 122);  
box-shadow:4px 4px 4px 4px rgb(137, 0,  
122) }
```

Background

The CSS property to change the background color of an element to CIELCh 31, 66.964, 333.002 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 0, 122) }
```

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

```
.background{ background-color: rgb(137, 0,  
122) }
```

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