

Converting Colors

CIELCh(37, 63.785, 1.663)

Have a look what the booklet for
CIELCh(37, 63.785, 1.663) contains.

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Color

CIELCh(37, 63.416, 1.500)

Conversions

Conversions Part 1

Format	Color
Hex	AD0057
RGB	173, 0, 87
RGB Percent	68%, 0%, 34%
CMY	0.3223, 1.0000, 0.6594
CMYK	0.00, 1.00, 0.50, 0.32
HSL	330°, 100%, 34%
HSV	330°, 100%, 68%
XYZ	18.9005, 9.5379, 9.8294
YIQ	61.6450, 75.1810, 63.7330

Conversions

Conversions Part 2

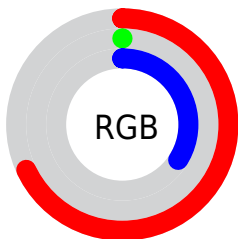
Format	Color
R_{YB}	173, 0, 87
Decimal	11337815
CIE _{Lab}	37.00, 63.39, 1.66
CIE _{LCh}	37, 63.416, 1.500
Yxy	9.5379, 0.4939, 0.2492
Android (android.graphics.Color)	4289527895 (0xFFAD0057)
YUV	61.6450, 12.5000, 97.6583
Hunter-Lab	30.8835, 55.1948, 2.7480

Details

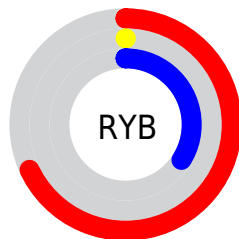
The CIELCh color **37, 63.416, 1.500** is a dark color, and the websafe version is hex **CC0066**. A complement of this color would be **62, 66.530, 149.138**, and the grayscale version is **26, 0.004, 296.813**.

A 20% lighter version of the original color is **57, 63.644, 1.317**, and **23, 46.865, 12.163** is the 20% darker color. If you saturate the color by 10%, you get **37, 63.361, 1.526**, and if you desaturate by 10%, it is **38, 61.950, 357.829**.

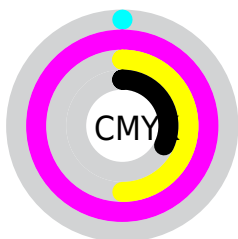
Distribution



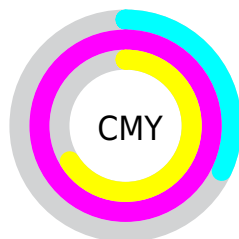
- Red (68%)
- Green (0%)
- Blue (34%)



- Red (68%)
- Yellow (0%)
- Blue (34%)



- Cyan (0%)
- Magenta (100%)
- Yellow (50%)
- Black (32%)



- Cyan (32%)
- Magenta (100%)
- Yellow (66%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 37, 63.416, 1.500 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 37, 63.416, 1.500 by changing the saturation by 10% instead.

 37, 63.416, 1.500  37, 63.416, 1.500

 100, 63.416, 1.500  27, 63.416, 1.500

 57, 63.416, 1.500  17, 63.416, 1.500



 67, 63.416, 1.500  7, 63.416, 1.500

 77, 63.416, 1.500  0, 63.416, 1.500

 87, 63.416, 1.500

 97, 63.416, 1.500

 37, 63.416, 1.500  37, 63.416, 1.500

 37, 63.361, 1.526  38, 61.950,
357.829

40, 59.171,
354.755

42, 54.615,
352.318

45, 48.522,
350.363

48, 41.290,
348.760

52, 33.335,
347.412

57, 25.008,
346.249

61, 16.570,
345.224

66, 8.200, 344.292

Harmonies

Complementary

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



37, 63.416, 1.500



62, 66.530, 149.138

Rectangle

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



37, 63.416, 1.500



37, 63.416, 51.500



37, 63.416, 181.500



37, 63.416, 231.500

Sweetspot

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



37, 63.361, 1.526



72, 30.933, 346.307



26, 93.500, 311.580



36, 21.091, 346.764



95, 0.011, 296.813



47, 0.006, 296.813

Same Dimension

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



37, 63.361, 1.526



48, 76.901, 2.352



36, 77.313, 39.242



34, 4.651, 344.229



32, 57.276, 1.010



2, 9.150, 348.665

Inverse Universe

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



37, 63.361, 1.526



48, 76.901, 2.352



64, 37.905, 193.872



34, 4.651, 344.229



32, 57.276, 1.010



2, 9.150, 348.665

Previews

White Background



This preview shows how the CIELCh color 37, 63.416, 1.500 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 37, 63.416, 1.500 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

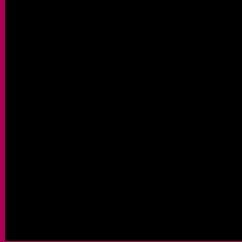
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 37, 63.416, 1.500

Background



This preview shows how black text looks on a background with the CIELCh color 37, 63.416, 1.500.



This preview shows how white text looks on a background with the CIELCh color 37, 63.416, 1.500.

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

37, 63.416, 1.500

Protanopia

38, 22.256, 284.620

Deuteranopia

38, 7.996, 52.360



Tritanopia
38, 63.768, 33.320

Trichromacy



Original Color
37, 63.416, 1.500

Protanomaly
33, 39.004, 327.955

Deuteranomaly
34, 34.560, 358.602

Tritanomaly
37, 61.954, 21.476

Monochromacy



Original Color
37, 63.416, 1.500

Achromatopsia
26, 0.004, 296.813

Achromatomaly
26, 32.628, 349.794

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 37, 63.416, 1.500 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(173, 0, 87)` looks like.

```
.text, #text, p{  
    color:rgb(173, 0, 87)  
}
```

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(173, 0, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(173, 0, 87) }
```

Border

The CSS property to change the border of an element to CIELCh 37, 63.416, 1.500 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(173, 0, 87) }
```

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

```
.border{ border-color:rgb(173, 0, 87) }
```

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

Here you see how a box with a 4 pixel rgb(173, 0, 87) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(173, 0, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(173, 0, 87);  
box-shadow:4px 4px 4px 4px rgb(173, 0, 87)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 37, 63.416, 1.500 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(173, 0, 87) }
```

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

```
.background{ background-color: rgb(173, 0,  
87) }
```

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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