

Converting Colors

CIELCh(40, 68.540, 16.615)

Have a look what the booklet for
CIELCh(40, 68.540, 16.615) contains.

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Color

CIELCh(40, 68.542, 16.710)

Conversions

Conversions Part 1

Format	Color
Hex	BD0142
RGB	189, 1, 66
RGB Percent	74%, 0%, 26%
CMY	0.2585, 0.9950, 0.7409
CMYK	0.00, 0.99, 0.65, 0.26
HSL	339°, 99%, 37%
HSV	339°, 99%, 74%
XYZ	22.0068, 11.2510, 6.1759
YIQ	64.6220, 91.1830, 60.0710

Conversions

Conversions Part 2

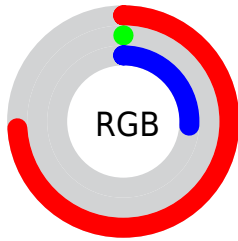
Format	Color
R_{YB}	189, 1, 66
Decimal	12386626
CIE _{Lab}	40.00, 65.65, 19.71
CIE _{LCh}	40, 68.542, 16.710
Yxy	11.2510, 0.5581, 0.2853
Android (android.graphics.Color)	4290576706 (0xFFBD0142)
YUV	64.6220, 0.6794, 109.0795
Hunter-Lab	33.5425, 58.4126, 12.5632

Details

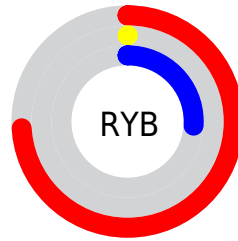
The CIELCh color **40, 68.542, 16.710** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **68, 59.489, 158.565**, and the grayscale version is **27, 0.004, 296.813**.

A 20% lighter version of the original color is **60, 68.755, 16.889**, and **25, 54.926, 28.368** is the 20% darker color. If you saturate the color by 10%, you get **40, 68.754, 17.048**, and if you desaturate by 10%, it is **41, 65.466, 11.663**.

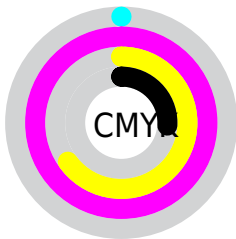
Distribution



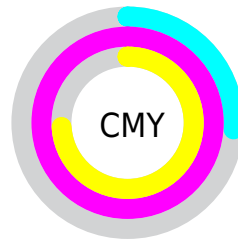
- Red (74%)
- Green (0%)
- Blue (26%)



- Red (74%)
- Yellow (0%)
- Blue (26%)



- Cyan (0%)
- Magenta (99%)
- Yellow (65%)
- Black (26%)



- Cyan (26%)
- Magenta (100%)
- Yellow (74%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 40, 68.542, 16.710 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 40, 68.542, 16.710 by changing the saturation by 10% instead.

 40, 68.542, 16.710

 40, 68.542, 16.710

 100, 68.542,
16.710

 30, 68.542, 16.710

 60, 68.542, 16.710

 20, 68.542, 16.710

 70, 68.542, 16.710

 10, 68.542, 16.710

 80, 68.542, 16.710

 0, 68.542, 16.710

 90, 68.542, 16.710

 40, 68.542, 16.710

 40, 68.542, 16.710

 40, 68.754, 17.048

 41, 65.466, 11.663

 43, 61.309, 7.401

■ 45, 55.699, 4.013

■ 49, 48.811, 1.339

■ 53, 41.012,
359.207

■ 57, 32.694,
357.475

■ 62, 24.187,
356.035

■ 67, 15.726,
354.809

■ 72, 7.463, 353.726

Harmonies

Complementary

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



40, 68.542, 16.710



68, 59.489, 158.565

Rectangle

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



40, 68.542, 16.710



40, 68.542, 66.710



40, 68.542, 196.710



40, 68.542, 246.710

Sweetspot

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



40, 68.539, 16.712



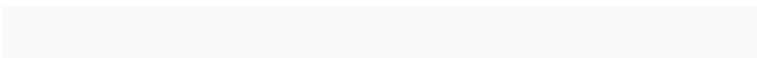
78, 30.550, 356.189



34, 96.336, 315.855



39, 20.916, 356.777



98, 0.011, 296.813



51, 0.007, 296.813

Same Dimension

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



40, 68.539, 16.712



52, 83.792, 18.032



41, 80.358, 42.011



37, 4.526, 353.729



33, 60.046, 16.218



3, 13.025, 0.317

Inverse Universe

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



40, 68.539, 16.712



52, 83.792, 18.032



61, 34.777, 224.531



37, 4.526, 353.729



33, 60.046, 16.218



3, 13.025, 0.317

Previews

White Background



This preview shows how the CIELCh color 40, 68.542, 16.710 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 × Fail

Black Background



This preview shows how the CIE LCh color 40, 68.542, 16.710 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 40, 68.542, 16.710

Background



This preview shows how black text looks on a background with the CIELCh color 40, 68.542, 16.710.



This preview shows how white text looks on a background with the CIELCh color 40, 68.542, 16.710.

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

40, 68.542, 16.710

Protanopia

41, 1.041, 343.573

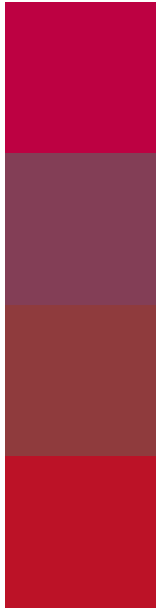
Deuteranopia

41, 24.013, 76.798



Tritanopia
40, 75.123, 36.681

Trichromacy



Original Color
40, 68.542, 16.710

Protanomaly
36, 32.447, 359.350

Deuteranomaly
37, 39.532, 25.076

Tritanomaly
40, 72.141, 30.298

Monochromacy



Original Color
40, 68.542, 16.710

Achromatopsia
28, 0.004, 296.813

Achromatomaly
28, 32.628, 1.739

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 40, 68.542, 16.710 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(189, 1, 66)` looks like.

```
.text, #text, p{  
    color:rgb(189, 1, 66)  
}
```

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(189, 1, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 1, 66) }
```

Border

The CSS property to change the border of an element to CIELCh 40, 68.542, 16.710 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(189, 1, 66) }
```

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

```
.border{ border-color:rgb(189, 1, 66) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 1, 66)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 1, 66); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 1, 66);  
box-shadow:4px 4px 4px 4px rgb(189, 1, 66)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 40, 68.542, 16.710 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 1, 66) }
```

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

```
.background{ background-color: rgb(189, 1,  
66) }
```

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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