

Converting Colors

CIELCh(30, 70.927, 17.651)

Have a look what the booklet for
CIELCh(30, 70.927, 17.651) contains.

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Color

CIELCh(33, 63.190, 23.899)

Conversions

Conversions Part 1

Format	Color
Hex	A00029
RGB	160, 0, 41
RGB Percent	63%, 0%, 16%
CMY	0.3739, 1.0000, 0.8390
CMYK	0.00, 1.00, 0.74, 0.37
HSL	345°, 100%, 31%
HSV	345°, 100%, 63%
XYZ	14.7973, 7.5373, 2.7787
YIQ	52.5140, 82.1990, 46.6710

Conversions

Conversions Part 2

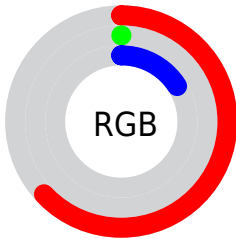
Format	Color
RYB	160, 0, 41
Decimal	10485801
CIELab	33.00, 57.77, 25.60
CIELCh	33, 63.190, 23.899
Yxy	7.5373, 0.5892, 0.3001
Android (android.graphics.Color)	4288675881 (0xFFA00029)
YUV	52.5140, -5.6764, 94.2652
Hunter-Lab	27.4541, 48.1641, 13.2170

Details

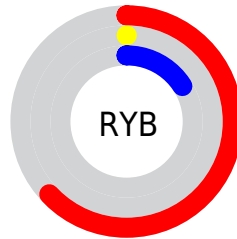
The CIELCh color **33, 63.190, 23.899** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **58, 46.967, 165.685**, and the grayscale version is **22, 0.004, 296.813**.

A 20% lighter version of the original color is **53, 63.296, 24.159**, and **19, 49.640, 35.697** is the 20% darker color. If you saturate the color by 10%, you get **33, 62.907, 24.166**, and if you desaturate by 10%, it is **34, 58.949, 19.116**.

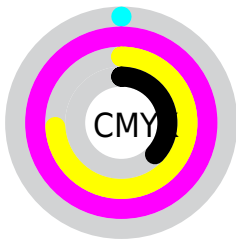
Distribution



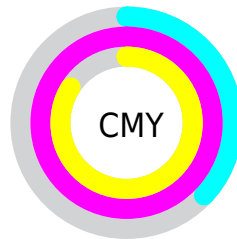
- Red (63%)
- Green (0%)
- Blue (16%)



- Red (63%)
- Yellow (0%)
- Blue (16%)



- Cyan (0%)
- Magenta (100%)
- Yellow (74%)
- Black (37%)



- Cyan (37%)
- Magenta (100%)
- Yellow (84%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 33, 63.190, 23.899 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 33, 63.190, 23.899 by changing the saturation by 10% instead.

 33, 63.190, 23.899

 33, 63.190, 23.899

 100, 63.190,
23.899

 23, 63.190, 23.899

 53, 63.190, 23.899

 13, 63.190, 23.899

 63, 63.190, 23.899

 3, 63.190, 23.899

 73, 63.190, 23.899

 0, 63.190, 23.899

 83, 63.190, 23.899

 93, 63.190, 23.899

 33, 63.190, 23.899

 33, 63.190, 23.899

 33, 62.907, 24.166

 34, 58.949, 19.116

36, 54.408, 14.580

38, 48.875, 10.903

41, 42.475, 7.981

44, 35.479, 5.660

48, 28.188, 3.793

52, 20.852, 2.263

57, 13.645, 0.981

61, 6.678, 359.867

Harmonies

Complementary

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



33, 63.190, 23.899



58, 46.967, 165.685

Rectangle

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



33, 63.190, 23.899



33, 63.190, 73.899



33, 63.190, 203.899



33, 63.190, 253.899

Sweetspot

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



33, 62.907, 24.166



66, 25.742, 2.342



30, 83.829, 318.534



33, 17.810, 2.921



92, 0.011, 296.813



44, 0.006, 296.813

Same Dimension

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



33, 62.907, 24.166



43, 76.767, 25.333



36, 68.606, 44.919



31, 3.740, 359.786



29, 57.755, 23.567



1, 4.766, 359.955

Inverse Universe

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



33, 62.907, 24.166



43, 76.767, 25.333



48, 31.623, 242.207



31, 3.740, 359.786



29, 57.755, 23.567



1, 4.766, 359.955

Previews

White Background



This preview shows how the CIELCh color 33, 63.190, 23.899 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 33, 63.190, 23.899 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 33, 63.190, 23.899

Background



This preview shows how black text looks on a background with the CIELCh color 33, 63.190, 23.899.

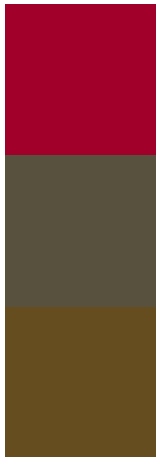


This preview shows how white text looks on a background with the CIELCh color 33, 63.190, 23.899.

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

33, 63.049, 24.261

Protanopia

35, 12.131, 94.718

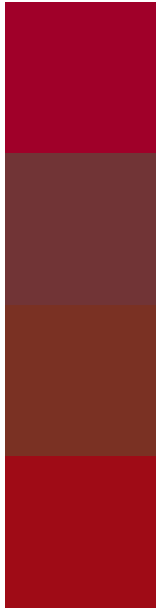
Deuteranopia

34, 30.260, 81.206



Tritanopia
34, 68.858, 38.445

Trichromacy



Original Color
33, 63.049, 24.261

Protanomaly
30, 29.476, 23.044

Deuteranomaly
31, 39.496, 38.583

Tritanomaly
33, 66.576, 34.104

Monochromacy



Original Color
33, 63.049, 24.261

Achromatopsia
22, 0.004, 296.813

Achromatomaly
22, 28.441, 7.894

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 63.190, 23.899 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(160, 0, 41)` looks like.

```
.text, #text, p{  
    color:rgb(160, 0, 41)  
}
```

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(160, 0, 41) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(160, 0, 41) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 63.190, 23.899 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(160, 0, 41) }
```

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

```
.border{ border-color:rgb(160, 0, 41) }
```

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

Here you see how a box with a 4 pixel `rgb(160, 0, 41)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(160, 0, 41); -webkit-box-  
shadow:4px 4px 4px 4px rgb(160, 0, 41);  
box-shadow:4px 4px 4px 4px rgb(160, 0, 41)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 33, 63.190, 23.899 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(160, 0, 41) }
```

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

```
.background{ background-color: rgb(160, 0,  
41) }
```

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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