

Converting Colors

CIELCh(33, 62.169, 21.408)

Have a look what the booklet for
CIELCh(33, 62.169, 21.408) contains.

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Color

CIELCh(33, 61.680, 21.351)

Conversions

Conversions Part 1

Format	Color
Hex	9F002E
RGB	159, 0, 46
RGB Percent	62%, 0%, 18%
CMY	0.3773, 1.0000, 0.8202
CMYK	0.00, 1.00, 0.71, 0.38
HSL	343°, 100%, 31%
HSV	343°, 100%, 62%
XYZ	14.7437, 7.5373, 3.2479
YIQ	52.7850, 79.9980, 48.0140

Conversions

Conversions Part 2

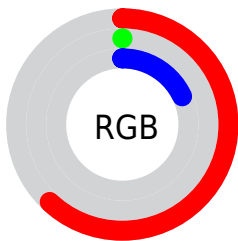
Format	Color
RYB	159, 0, 46
Decimal	10420270
CIELab	33.00, 57.45, 22.46
CIElCh	33, 61.680, 21.351
Yxy	7.5373, 0.5775, 0.2952
Android (android.graphics.Color)	4288610350 (0xFF9F002E)
YUV	52.7850, -3.3450, 93.1506
Hunter-Lab	27.4541, 47.8154, 12.2038

Details

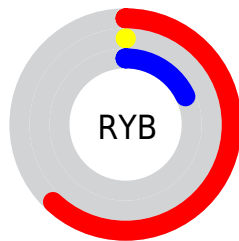
The CIELCh color **33, 61.680, 21.351** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **58, 48.676, 163.029**, and the grayscale version is **22, 0.004, 296.813**.

A 20% lighter version of the original color is **53, 61.717, 21.442**, and **19, 49.640, 35.697** is the 20% darker color. If you saturate the color by 10%, you get **33, 61.635, 21.391**, and if you desaturate by 10%, it is **34, 58.088, 16.382**.

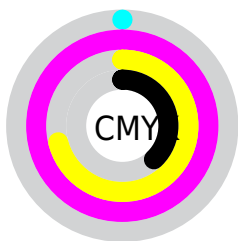
Distribution



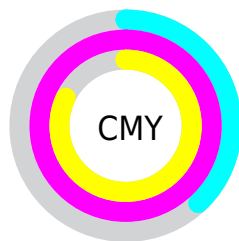
- Red (62%)
- Green (0%)
- Blue (18%)



- Red (62%)
- Yellow (0%)
- Blue (18%)



- Cyan (0%)
- Magenta (100%)
- Yellow (71%)
- Black (38%)



- Cyan (38%)
- Magenta (100%)
- Yellow (82%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 33, 61.680, 21.351 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, 61.680, 21.351 by changing the saturation by 10% instead.

 33, 61.680, 21.351

 33, 61.680, 21.351

 100, 61.680,
21.351

 23, 61.680, 21.351

 53, 61.680, 21.351

 13, 61.680, 21.351

 63, 61.680, 21.351

 3, 61.680, 21.351

 73, 61.680, 21.351

 0, 61.680, 21.351

 83, 61.680, 21.351

 93, 61.680, 21.351

 33, 61.680, 21.351

 33, 61.680, 21.351

 33, 61.635, 21.391

 34, 58.088, 16.382

■ 36, 53.894, 11.950

■ 38, 48.623, 8.383

■ 41, 42.406, 5.555

■ 44, 35.529, 3.304

■ 48, 28.301, 1.485

■ 52, 20.983,
359.986

■ 56, 13.759,
358.722

■ 61, 6.746, 357.618

Harmonies

Complementary

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



33, 61.680, 21.351



58, 48.676, 163.029

Rectangle

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



33, 61.680, 21.351



33, 61.680, 71.351



33, 61.680, 201.351



33, 61.680, 251.351

Sweetspot

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



33, 61.635, 21.391



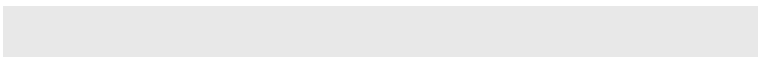
66, 26.014, 0.065



29, 83.992, 317.472



33, 17.982, 0.634



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, 61.635, 21.391



44, 75.428, 22.590



35, 69.319, 43.739



31, 3.795, 357.538



29, 56.855, 20.819



1, 4.837, 357.791

Inverse Universe

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



33, 61.635, 21.391



44, 75.428, 22.590



49, 30.803, 235.069



31, 3.795, 357.538



29, 56.855, 20.819



1, 4.837, 357.791

Previews

White Background



This preview shows how the CIELCh color 33, 61.680, 21.351 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 33, 61.680, 21.351 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, 61.680, 21.351

Background



This preview shows how black text looks on a background with the CIELCh color 33, 61.680, 21.351.



This preview shows how white text looks on a background with the CIELCh color 33, 61.680, 21.351.

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, 61.680, 21.351

Protanopia

34, 8.289, 96.028

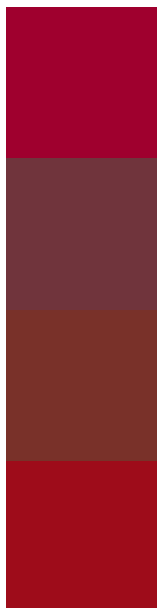
Deuteranopia

34, 26.913, 80.114



Tritanopia
33, 67.221, 37.517

Trichromacy



Original Color
33, 61.680, 21.351

Protanomaly
30, 28.404, 15.460

Deuteranomaly
30, 37.196, 33.923

Tritanomaly
33, 64.976, 32.483

Monochromacy



Original Color
33, 61.680, 21.351

Achromatopsia
22, 0.004, 296.813

Achromatomaly
22, 28.027, 5.938

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 61.680, 21.351 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(159, 0, 46)` looks like.

```
.text, #text, p{  
    color:rgb(159, 0, 46)  
}
```

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(159, 0, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(159, 0, 46) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 61.680, 21.351 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(159, 0, 46) }
```

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

```
.border{ border-color:rgb(159, 0, 46) }
```

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

Here you see how a box with a 4 pixel rgb(159, 0, 46) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(159, 0, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(159, 0, 46);  
box-shadow:4px 4px 4px 4px rgb(159, 0, 46)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 33, 61.680, 21.351 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(159, 0, 46) }
```

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

```
.background{ background-color: rgb(159, 0,  
46) }
```

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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