

Converting Colors

CIELCh(33, 63.052, 23.806)

Have a look what the booklet for
CIELCh(33, 63.052, 23.806) contains.

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Color

CIELCh(33, 63.049, 24.261)

Conversions

Conversions Part 1

Format	Color
Hex	9F0029
RGB	159, 0, 41
RGB Percent	62%, 0%, 16%
CMY	0.3750, 1.0000, 0.8409
CMYK	0.00, 1.00, 0.75, 0.38
HSL	345°, 100%, 31%
HSV	345°, 100%, 62%
XYZ	14.7493, 7.5373, 2.7355
YIQ	52.2150, 81.6030, 46.4590

Conversions

Conversions Part 2

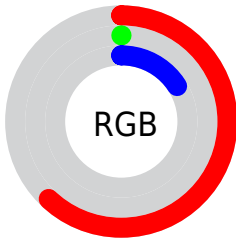
Format	Color
R_{YB}	159, 0, 41
Decimal	10420265
CIE Lab	33.00, 57.48, 25.91
CIE LCh	33, 63.049, 24.261
Yxy	7.5373, 0.5895, 0.3012
Android (android.graphics.Color)	4288610345 (0xFF9F0029)
YUV	52.2150, -5.5290, 93.6504
Hunter-Lab	27.4541, 47.8518, 13.3103

Details

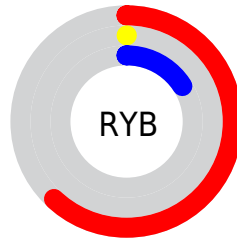
The CIELCh color **33, 63.049, 24.261** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **58, 46.745, 165.926**, and the grayscale version is **22, 0.004, 296.813**.

A 20% lighter version of the original color is **53, 62.899, 24.067**, and **19, 49.207, 35.560** is the 20% darker color. If you saturate the color by 10%, you get **33, 62.917, 24.387**, and if you desaturate by 10%, it is **34, 58.929, 19.339**.

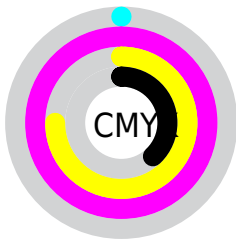
Distribution



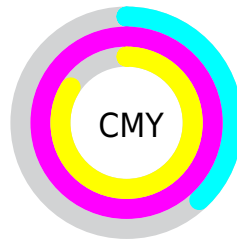
- Red (62%)
- Green (0%)
- Blue (16%)



- Red (62%)
- Yellow (0%)
- Blue (16%)



- Cyan (0%)
- Magenta (100%)
- Yellow (75%)
- Black (38%)



- Cyan (38%)
- Magenta (100%)
- Yellow (84%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 33, 63.049, 24.261 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, 63.049, 24.261 by changing the saturation by 10% instead.

 33, 63.049, 24.261

 33, 63.049, 24.261

 100, 63.049,
24.261

 23, 63.049, 24.261

 53, 63.049, 24.261

 13, 63.049, 24.261

 63, 63.049, 24.261

 3, 63.049, 24.261

 73, 63.049, 24.261

 0, 63.049, 24.261

 83, 63.049, 24.261

 93, 63.049, 24.261

 33, 63.049, 24.261

 33, 63.049, 24.261

 33, 62.917, 24.387

 34, 58.929, 19.339

■ 36, 54.363, 14.798

■ 38, 48.815, 11.114

■ 41, 42.409, 8.187

■ 44, 35.415, 5.861

■ 48, 28.130, 3.991

■ 52, 20.804, 2.460

■ 57, 13.612, 1.176

■ 61, 6.660, 0.063

Harmonies

Complementary

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



33, 63.049, 24.261



58, 46.745, 165.926

Rectangle

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



33, 63.049, 24.261



33, 63.049, 74.261



33, 63.049, 204.261



33, 63.049, 254.261

Sweetspot

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



33, 62.917, 24.387



66, 25.721, 2.539



30, 83.721, 318.536



33, 17.797, 3.119



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, 62.917, 24.387



43, 76.890, 25.561



35, 68.513, 44.921



31, 3.735, 359.982



29, 57.839, 23.796



1, 4.760, 0.144

Inverse Universe

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



33, 62.917, 24.387



43, 76.890, 25.561



48, 31.582, 242.200



31, 3.735, 359.982



29, 57.839, 23.796



1, 4.760, 0.144

Previews

White Background



This preview shows how the CIELCh color 33, 63.049, 24.261 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, 63.049, 24.261 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

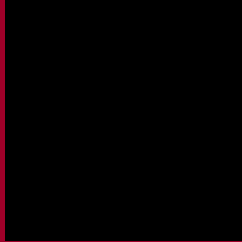
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 33, 63.049, 24.261

Background



This preview shows how black text looks on a background with the CIELCh color 33, 63.049, 24.261.



This preview shows how white text looks on a background with the CIELCh color 33, 63.049, 24.261.

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, 62.690, 24.092

Protanopia

34, 12.733, 95.210

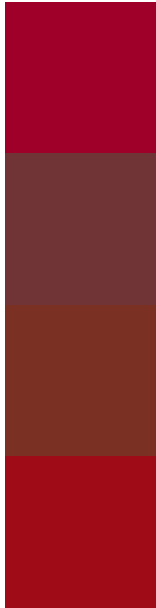
Deuteranopia

34, 30.260, 81.206



Tritanopia
34, 68.858, 38.445

Trichromacy



Original Color
33, 62.690, 24.092

Protanomaly
30, 29.476, 23.044

Deuteranomaly
31, 39.496, 38.583

Tritanomaly
33, 66.576, 34.104

Monochromacy



Original Color
33, 62.690, 24.092

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, 63.049, 24.261 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, 41)` looks like.

```
.text, #text, p{  
    color:rgb(159, 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(159, 0, 41) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(159, 0, 41) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 63.049, 24.261 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, 41) }
```

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

```
.border{ border-color:rgb(159, 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(159, 0, 41) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(159, 0, 41); -webkit-box-  
shadow:4px 4px 4px 4px rgb(159, 0, 41);  
box-shadow:4px 4px 4px 4px rgb(159, 0, 41)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 33, 63.049, 24.261 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, 41) }
```

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

```
.background{ background-color: rgb(159, 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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