

Converting Colors

CIELCh(29, 80.020, 35.899)

Have a look what the booklet for
CIELCh(29, 80.020, 35.899) contains.

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Color

CIELCh(32, 72.402, 39.637)

Conversions

Conversions Part 1

Format	Color
Hex	9C0000
RGB	156, 0, 0
RGB Percent	61%, 0%, 0%
CMY	0.3866, 1.0000, 1.0000
CMYK	0.00, 1.00, 1.00, 0.39
HSL	0°, 100%, 31%
HSV	0°, 100%, 61%
XYZ	13.7777, 7.0852, 0.6282
YIQ	46.6440, 92.9760, 33.0720

Conversions

Conversions Part 2

Format	Color
RYB	156, 0, 0
Decimal	10223616
CIELab	32.00, 55.76, 46.19
CIElCh	32, 72.402, 39.637
Yxy	7.0852, 0.6411, 0.3297
Android (android.graphics.Color)	4288413696 (0xFF9C0000)
YUV	46.6440, -22.9955, 95.9052
Hunter-Lab	26.6180, 45.8120, 17.2333

Details

The CIELCh color **32, 72.402, 39.637** is a dark color, and the websafe version is hex **990000**. A complement of this color would be **58, 34.786, 196.386**, and the grayscale version is **19, 0.004, 296.813**.

A 20% lighter version of the original color is **52, 72.047, 39.895**, and **17, 47.026, 34.818** is the 20% darker color. If you saturate the color by 10%, you get **32, 72.190, 39.622**, and if you desaturate by 10%, it is **33, 66.863, 36.806**.

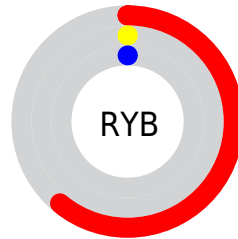
Distribution



Red (61%)

Green (0%)

Blue (0%)



Red (61%)

Yellow (0%)

Blue (0%)



Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (39%)



Cyan (39%)

Magenta (100%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 32, 72.402, 39.637 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 32, 72.402, 39.637 by changing the saturation by 10% instead.

■ 32, 72.402, 39.637

■ 32, 72.402, 39.637

■ 100, 72.402,
39.637

■ 22, 72.402, 39.637

■ 52, 72.402, 39.637

■ 12, 72.402, 39.637

■ 62, 72.402, 39.637

■ 2, 72.402, 39.637

■ 72, 72.402, 39.637

■ 0, 72.402, 39.637

■ 82, 72.402, 39.637

■ 92, 72.402, 39.637

■ 32, 72.402, 39.637

■ 32, 72.402, 39.637

■ 32, 72.190, 39.622

■ 33, 66.863, 36.806

■ 34, 60.022, 33.342

■ 37, 52.213, 29.993

■ 40, 44.026, 27.165

■ 43, 35.798, 24.917

■ 47, 27.773, 23.173

■ 51, 20.115, 21.831

■ 55, 12.917, 20.791

■ 60, 6.215, 19.958

Harmonies

Complementary

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



32, 72.402, 39.637



58, 34.786, 196.386

Rectangle

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



32, 72.402, 39.637



32, 72.402, 89.637



32, 72.402, 219.637



32, 72.402, 269.637

Sweetspot

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



32, 72.190, 39.622



65, 25.026, 21.900



37, 80.218, 328.233



32, 17.274, 22.390



91, 0.011, 296.813



43, 0.006, 296.813

Same Dimension

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



32, 72.190, 39.622



43, 88.390, 40.000



42, 59.018, 61.114



31, 3.535, 19.900



29, 67.092, 39.161



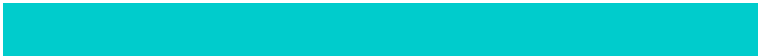
1, 4.473, 19.405

Inverse Universe

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



58, 34.786, 196.386



75, 42.359, 196.386



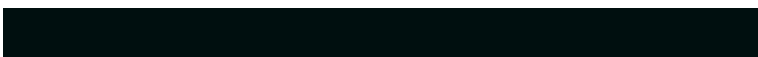
34, 49.499, 283.443



33, 3.339, 198.997



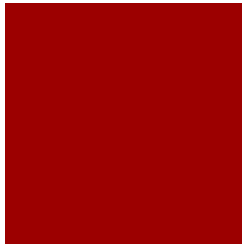
54, 32.544, 196.386



3, 4.473, 199.422

Previews

White Background



This preview shows how the CIELCh color 32, 72.402, 39.637 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 32, 72.402, 39.637 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

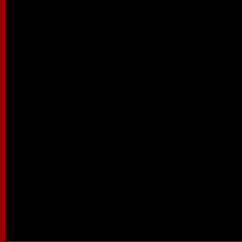
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 32, 72.402, 39.637

Background



This preview shows how black text looks on a background with the CIELCh color 32, 72.402, 39.637.



This preview shows how white text looks on a background with the CIELCh color 32, 72.402, 39.637.

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

32, 72.036, 39.611

Protanopia

33, 34.638, 95.505

Deuteranopia

33, 42.203, 85.361



Tritanopia
33, 70.309, 41.053

Trichromacy



Original Color
32, 72.036, 39.611

Protanomaly
29, 43.384, 53.190

Deuteranomaly
30, 50.363, 54.398

Tritanomaly
32, 71.167, 40.531

Monochromacy



Original Color
32, 72.036, 39.611

Achromatopsia
19, 0.004, 296.813

Achromatomaly
20, 29.776, 27.546

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 32, 72.402, 39.637 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(156, 0, 0)` looks like.

```
.text, #text, p{  
    color:rgb(156, 0, 0)  
}
```

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(156, 0, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(156, 0, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 32, 72.402, 39.637 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(156, 0, 0) }
```

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

```
.border{ border-color:rgb(156, 0, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(156, 0, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(156, 0, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(156, 0, 0); box-shadow:4px  
4px 4px 4px rgb(156, 0, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 32, 72.402, 39.637 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(156, 0, 0) }
```

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

```
.background{ background-color: rgb(156, 0,  
0) }
```

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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