

Converting Colors

CIELCh(33, 82.629, 37.237)

Have a look what the booklet for
CIELCh(33, 82.629, 37.237) contains.

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Color

CIELCh(35, 77.401, 39.901)

Conversions

Conversions Part 1

Format	Color
Hex	AA0000
RGB	170, 0, 0
RGB Percent	67%, 0%, 0%
CMY	0.3333, 1.0000, 1.0000
CMYK	0.00, 1.00, 1.00, 0.33
HSL	0°, 100%, 33%
HSV	0°, 100%, 67%
XYZ	16.5502, 8.4984, 0.7477
YIQ	50.8300, 101.3200, 36.0400

Conversions

Conversions Part 2

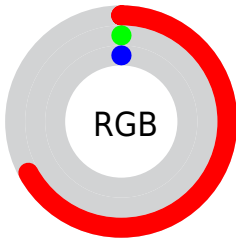
Format	Color
R _Y B	170, 0, 0
Decimal	11141120
CIE Lab	35.00, 59.38, 49.65
CIE LCh	35, 77.401, 39.901
Yxy	8.4984, 0.6416, 0.3294
Android (android.graphics.Color)	4289331200 (0xFFAA0000)
YUV	50.8300, -25.0592, 104.5121
Hunter-Lab	29.1520, 50.3221, 18.8857

Details

The CIELCh color **35, 77.401, 39.901** is a dark color, and the websafe version is hex **990000**. A complement of this color would be **63, 36.985, 196.386**, and the grayscale version is **21, 0.004, 296.813**.

A 20% lighter version of the original color is **55, 77.144, 40.033**, and **21, 52.640, 36.561** is the 20% darker color. If you saturate the color by 10%, you get **35, 77.051, 39.888**, and if you desaturate by 10%, it is **36, 71.466, 36.997**.

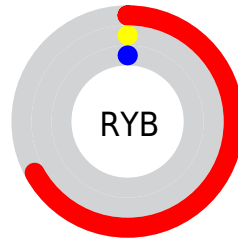
Distribution



Red (67%)

Green (0%)

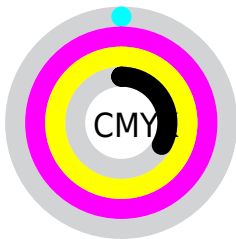
Blue (0%)



Red (67%)

Yellow (0%)

Blue (0%)

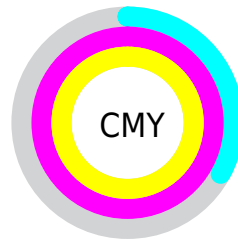


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (33%)



Cyan (33%)

Magenta (100%)

Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 35, 77.401, 39.901 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 35, 77.401, 39.901 by changing the saturation by 10% instead.

 35, 77.401, 39.901

 35, 77.401, 39.901

 100, 77.401,
39.901

 25, 77.401, 39.901

 55, 77.401, 39.901

 15, 77.401, 39.901

 65, 77.401, 39.901

 5, 77.401, 39.901

 75, 77.401, 39.901

 0, 77.401, 39.901

 85, 77.401, 39.901

 95, 77.401, 39.901

 35, 77.401, 39.901

 35, 77.401, 39.901

 35, 77.051, 39.888

 36, 71.466, 36.997

■ 37, 64.235, 33.528

■ 40, 55.910, 30.138

■ 43, 47.158, 27.266

■ 47, 38.349, 24.982

■ 51, 29.750, 23.214

■ 55, 21.543, 21.854

■ 60, 13.832, 20.803

■ 65, 6.653, 19.963

Harmonies

Complementary

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



35, 77.401, 39.901



63, 36.985, 196.386

Rectangle

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



35, 77.401, 39.901



35, 77.401, 89.901



35, 77.401, 219.901



35, 77.401, 269.901

Sweetspot

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



35, 77.051, 39.888



70, 26.806, 21.919



40, 85.289, 328.233



35, 18.709, 22.441



95, 0.011, 296.813



47, 0.006, 296.813

Same Dimension

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



35, 77.051, 39.888



46, 94.133, 40.000



46, 62.832, 60.843



33, 3.724, 19.906



30, 69.027, 39.359



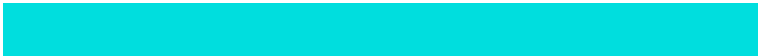
1, 6.572, 19.405

Inverse Universe

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



63, 36.985, 196.386



80, 45.111, 196.386



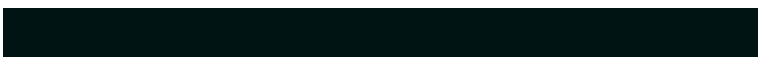
37, 52.975, 283.769



35, 3.516, 198.991



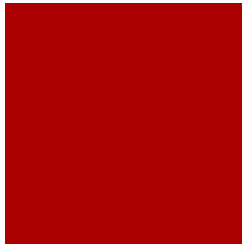
55, 33.388, 196.386



5, 6.572, 199.422

Previews

White Background



This preview shows how the CIELCh color 35, 77.401, 39.901 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



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 35, 77.401, 39.901

Background



This preview shows how black text looks on a background with the CIELCh color 35, 77.401, 39.901.



This preview shows how white text looks on a background with the CIELCh color 35, 77.401, 39.901.

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



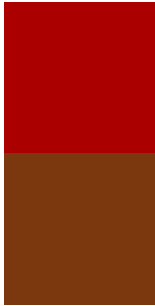
Original Color

35, 77.052, 39.888

Protanopia

36, 36.883, 96.107

Trichromacy



Original Color
35, 77.052, 39.888

Protanomaly
32, 46.010, 53.844

Monochromacy



Original Color
35, 77.052, 39.888

Achromatopsia
21, 0.004, 296.813

Achromatomaly
22, 32.022, 27.827

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 35, 77.401, 39.901 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(170, 0, 0)` looks like.

```
.text, #text, p{  
    color:rgb(170, 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(170, 0, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 0, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 35, 77.401, 39.901 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(170, 0, 0) }
```

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

```
.border{ border-color:rgb(170, 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(170, 0, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 0, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(170, 0, 0); box-shadow:4px  
4px 4px 4px rgb(170, 0, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 35, 77.401, 39.901 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 0, 0) }
```

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

```
.background{ background-color: rgb(170, 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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