

Converting Colors

CIELCh(31, 53.439, 42.509)

Have a look what the booklet for
CIELCh(31, 53.439, 42.509) contains.

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Color

CIELCh(31, 53.439, 42.509)

Conversions

Conversions Part 1

Format	Color
Hex	872811
RGB	135, 40, 17
RGB Percent	53%, 16%, 7%
CMY	0.4721, 0.8445, 0.9345
CMYK	0.00, 0.71, 0.88, 0.47
HSL	12°, 78%, 30%
HSV	12°, 88%, 53%
XYZ	10.7737, 6.6515, 1.2341
YIQ	65.7830, 64.0030, 12.9870

Conversions

Conversions Part 2

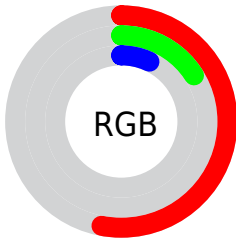
Format	Color
R_{YB}	135, 46, 17
Decimal	8857617
CIE _{Lab}	31.00, 39.39, 36.11
CIE _{LCh}	31, 53.439, 42.509
Yxy	6.6515, 0.5774, 0.3565
Android (android.graphics.Color)	4287047697 (0xFF872811)
YUV	65.7830, -24.0500, 60.7033
Hunter-Lab	25.7905, 29.4333, 15.2163

Details

The CIELCh color **31, 53.439, 42.509** is a dark color, and the websafe version is hex **993300**. A complement of this color would be **43, 26.211, 229.401**, and the grayscale version is **28, 0.004, 296.813**.

A 20% lighter version of the original color is **51, 53.605, 42.459**, and **13, 39.430, 31.373** is the 20% darker color. If you saturate the color by 10%, you get **29, 59.388, 43.171**, and if you desaturate by 10%, it is **33, 46.557, 41.536**.

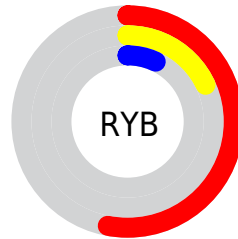
Distribution



Red (53%)

Green (16%)

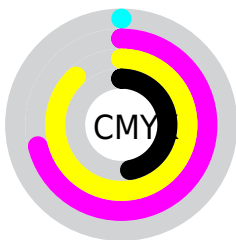
Blue (7%)



Red (53%)

Yellow (18%)

Blue (7%)

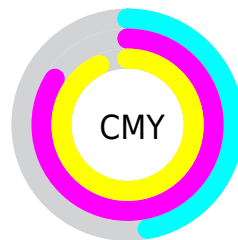


Cyan (0%)

Magenta (71%)

Yellow (88%)

Black (47%)



Cyan (47%)

Magenta (84%)

Yellow (93%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 31, 53.439, 42.509 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 31, 53.439, 42.509 by changing the saturation by 10% instead.

■ 31, 53.439, 42.509

■ 31, 53.439, 42.509

■ 100, 53.439,
42.509

■ 21, 53.439, 42.509

■ 51, 53.439, 42.509

■ 11, 53.439, 42.509

■ 61, 53.439, 42.509

■ 1, 53.439, 42.509

■ 71, 53.439, 42.509

■ 0, 53.439, 42.509

■ 81, 53.439, 42.509

■ 91, 53.439, 42.509

■ 31, 53.439, 42.509

■ 31, 53.439, 42.509

■ 29, 59.388, 43.171

■ 33, 46.557, 41.536

29, 60.704, 43.381

35, 39.439, 40.555

38, 32.474, 39.756

41, 25.841, 39.184

44, 19.619, 38.824

47, 13.830, 38.644

50, 8.469, 38.600

54, 3.513, 38.622

57, 1.073, 219.294

Harmonies

Complementary

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



31, 53.439, 42.509



43, 26.211, 229.401

Rectangle

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



31, 53.439, 42.509



31, 53.439, 92.509



31, 53.439, 222.509



31, 53.439, 272.509

Sweetspot

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



31, 53.437, 42.511



61, 16.153, 38.634



31, 60.514, 335.819



31, 11.170, 38.667



87, 0.010, 296.813



38, 0.005, 296.813

Same Dimension

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



31, 53.437, 42.511



39, 75.204, 43.426



44, 47.698, 80.365



26, 2.593, 38.622



28, 58.962, 43.283



0, 0.601, 38.857

Inverse Universe

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



43, 26.211, 229.401



54, 33.172, 234.256



25, 52.556, 292.473



27, 2.455, 219.187



41, 26.538, 233.179



0, 0.601, 218.877

Previews

White Background



This preview shows how the CIELCh color 31, 53.439, 42.509 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 31, 53.439, 42.509 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

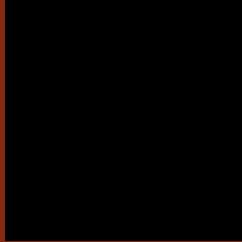
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 31, 53.439, 42.509

Background



This preview shows how black text looks on a background with the CIELCh color 31, 53.439, 42.509.



This preview shows how white text looks on a background with the CIELCh color 31, 53.439, 42.509.

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

31, 53.439, 42.509

Protanopia

31, 29.867, 95.703

Deuteranopia

31, 40.547, 84.410



Tritanopia
31, 47.572, 29.180

Trichromacy



Original Color
31, 53.439, 42.509

Protanomaly
30, 33.709, 65.939

Deuteranomaly
30, 42.393, 64.398

Tritanomaly
31, 49.536, 34.690

Monochromacy



Original Color
31, 53.439, 42.509

Achromatopsia
28, 0.004, 296.813

Achromatomaly
27, 18.328, 40.432

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 53.439, 42.509 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(135, 40, 17)` looks like.

```
.text, #text, p{  
    color:rgb(135, 40, 17)  
}
```

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(135, 40, 17) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 40, 17) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 53.439, 42.509 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(135, 40, 17) }
```

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

```
.border{ border-color:rgb(135, 40, 17) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 40, 17)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 40, 17); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 40, 17);  
box-shadow:4px 4px 4px 4px rgb(135, 40,  
17) }
```

Background

The CSS property to change the background color of an element to CIELCh 31, 53.439, 42.509 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 40, 17) }
```

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

```
.background{ background-color: rgb(135, 40,  
17) }
```

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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