

Converting Colors

CIELCh(31, 60.499, 46.403)

Have a look what the booklet for
CIELCh(31, 60.499, 46.403) contains.

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Color

CIELCh(31, 60.288, 46.153)

Conversions

Conversions Part 1

Format	Color
Hex	8A2400
RGB	138, 36, 0
RGB Percent	54%, 14%, 0%
CMY	0.4592, 0.8591, 1.0000
CMYK	0.00, 0.74, 1.00, 0.46
HSL	16°, 100%, 27%
HSV	16°, 100%, 54%
XYZ	11.0934, 6.6515, 0.6970
YIQ	62.3940, 72.3480, 10.4280

Conversions

Conversions Part 2

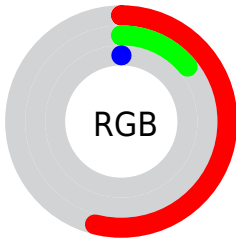
Format	Color
R_{YB}	138, 49, 0
Decimal	9053184
CIE _{Lab}	31.00, 41.76, 43.48
CIE _{LCh}	31, 60.288, 46.153
Yxy	6.6515, 0.6015, 0.3607
Android (android.graphics.Color)	4287243264 (0xFF8A2400)
YUV	62.3940, -30.7602, 66.3065
Hunter-Lab	25.7905, 31.6457, 16.4511

Details

The CIELCh color **31, 60.288, 46.153** is a dark color, and the websafe version is hex **993300**. A complement of this color would be **40, 29.109, 247.147**, and the grayscale version is **26, 0.004, 296.813**.

A 20% lighter version of the original color is **51, 60.511, 46.200**, and **14, 40.336, 31.871** is the 20% darker color. If you saturate the color by 10%, you get **31, 60.265, 46.134**, and if you desaturate by 10%, it is **33, 54.279, 46.066**.

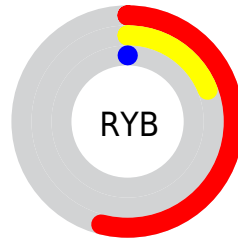
Distribution



Red (54%)

Green (14%)

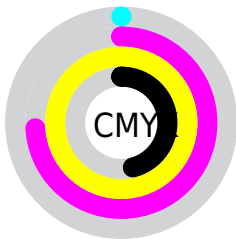
Blue (0%)



Red (54%)

Yellow (19%)

Blue (0%)

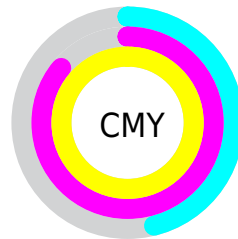


Cyan (0%)

Magenta (74%)

Yellow (100%)

Black (46%)



Cyan (46%)

Magenta (86%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 31, 60.288, 46.153 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, 60.288, 46.153 by changing the saturation by 10% instead.

31, 60.288, 46.153

31, 60.288, 46.153

100, 60.288,
46.153

21, 60.288, 46.153

51, 60.288, 46.153

11, 60.288, 46.153

61, 60.288, 46.153

1, 60.288, 46.153

71, 60.288, 46.153

0, 60.288, 46.153

81, 60.288, 46.153

91, 60.288, 46.153

31, 60.288, 46.153

31, 60.288, 46.153

31, 60.265, 46.134

33, 54.279, 46.066

■ 35, 47.610, 45.944

■ 37, 40.567, 45.642

■ 39, 33.627, 45.397

■ 42, 27.002, 45.291

■ 45, 20.780, 45.336

■ 48, 14.984, 45.516

■ 51, 9.606, 45.803

■ 54, 4.622, 46.149

Harmonies

Complementary

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



31, 60.288, 46.153



40, 29.109, 247.147

Rectangle

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



31, 60.288, 46.153



31, 60.288, 96.153



31, 60.288, 226.153



31, 60.288, 276.153

Sweetspot

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



31, 60.265, 46.134



61, 18.545, 45.501



30, 60.681, 340.968



30, 12.784, 45.424



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, 60.265, 46.134



40, 73.774, 45.744



46, 53.177, 83.947



27, 2.597, 46.177



30, 58.335, 46.102



1, 1.168, 46.684

Inverse Universe

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



40, 29.109, 247.147



52, 35.409, 248.263



20, 68.232, 299.865



28, 2.468, 227.291



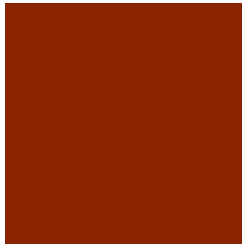
39, 28.263, 246.955



1, 1.169, 226.704

Previews

White Background



This preview shows how the CIELCh color 31, 60.288, 46.153 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 31, 60.288, 46.153 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, 60.288, 46.153

Background



This preview shows how black text looks on a background with the CIELCh color 31, 60.288, 46.153.



This preview shows how white text looks on a background with the CIELCh color 31, 60.288, 46.153.

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, 60.288, 46.153

Protanopia

32, 34.469, 96.049

Deuteranopia

32, 40.694, 85.306



Tritanopia
31, 50.951, 31.463

Trichromacy



Original Color
31, 60.288, 46.153

Protanomaly
30, 39.122, 67.717

Deuteranomaly
30, 44.964, 64.693

Tritanomaly
31, 54.297, 38.282

Monochromacy



Original Color
31, 60.288, 46.153

Achromatopsia
26, 0.004, 296.813

Achromatomaly
26, 21.737, 46.610

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 60.288, 46.153 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(138, 36, 0)` looks like.

```
.text, #text, p{  
    color:rgb(138, 36, 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(138, 36, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(138, 36, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 60.288, 46.153 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(138, 36, 0) }
```

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

```
.border{ border-color:rgb(138, 36, 0) }
```

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

Here you see how a box with a 4 pixel rgb(138, 36, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(138, 36, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(138, 36, 0);  
box-shadow:4px 4px 4px 4px rgb(138, 36, 0)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 31, 60.288, 46.153 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(138, 36, 0) }
```

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

```
.background{ background-color: rgb(138, 36,  
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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