

Converting Colors

CIELCh(31, 45.123, 11.540)

Have a look what the booklet for
CIELCh(31, 45.123, 11.540) contains.

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Color

CIELCh(31, 45.121, 11.363)

Conversions

Conversions Part 1

Format	Color
Hex	87223D
RGB	135, 34, 61
RGB Percent	53%, 13%, 24%
CMY	0.4701, 0.8661, 0.7604
CMYK	0.00, 0.75, 0.55, 0.47
HSL	344°, 60%, 33%
HSV	344°, 75%, 53%
XYZ	11.4336, 6.6515, 5.1107
YIQ	67.2770, 51.5290, 29.8090

Conversions

Conversions Part 2

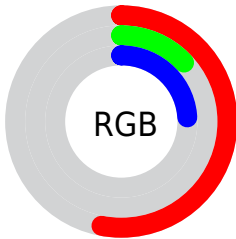
Format	Color
R_{YB}	135, 34, 61
Decimal	8856125
CIE _{Lab}	31.00, 44.24, 8.89
CIE _{LCh}	31, 45.121, 11.363
Yxy	6.6515, 0.4929, 0.2868
Android (android.graphics.Color)	4287046205 (0xFF87223D)
YUV	67.2770, -3.0946, 59.3931
Hunter-Lab	25.7905, 34.0005, 6.3043

Details

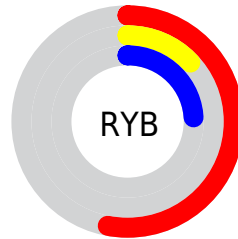
The CIELCh color **31, 45.121, 11.363** is a dark color, and the websafe version is hex **660033**. A complement of this color would be **50, 35.708, 169.692**, and the grayscale version is **29, 0.004, 296.813**.

A 20% lighter version of the original color is **51, 45.385, 11.438**, and **14, 37.315, 20.259** is the 20% darker color. If you saturate the color by 10%, you get **29, 49.563, 15.257**, and if you desaturate by 10%, it is **33, 39.845, 8.253**.

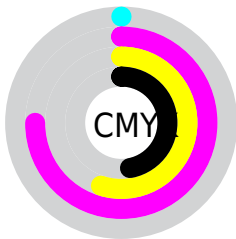
Distribution



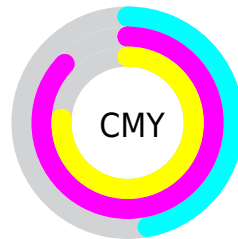
- Red (53%)
- Green (13%)
- Blue (24%)



- Red (53%)
- Yellow (13%)
- Blue (24%)



- Cyan (0%)
- Magenta (75%)
- Yellow (55%)
- Black (47%)



- Cyan (47%)
- Magenta (87%)
- Yellow (76%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 31, 45.121, 11.363 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, 45.121, 11.363 by changing the saturation by 10% instead.

■ 31, 45.121, 11.363

■ 31, 45.121, 11.363

■ 100, 45.121,
11.363

■ 21, 45.121, 11.363

■ 51, 45.121, 11.363

■ 11, 45.121, 11.363

■ 61, 45.121, 11.363

■ 1, 45.121, 11.363

■ 71, 45.121, 11.363

■ 0, 45.121, 11.363

■ 81, 45.121, 11.363

■ 91, 45.121, 11.363

■ 31, 45.121, 11.363

■ 31, 45.121, 11.363

■ 29, 49.563, 15.257

■ 33, 39.845, 8.253

28, 53.174, 19.962

36, 33.943, 5.776

28, 55.099, 22.409

39, 27.670, 3.788

43, 21.265, 2.164

47, 14.905, 0.811

51, 8.707, 359.653

54, 2.739, 358.579

58, 2.969, 177.976

63, 8.409, 177.135

Harmonies

Complementary

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



31, 45.121, 11.363



50, 35.708, 169.692

Rectangle

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



31, 45.121, 11.363



31, 45.121, 61.363



31, 45.121, 191.363



31, 45.121, 241.363

Sweetspot

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



31, 45.119, 11.365



61, 16.379, 0.536



29, 63.347, 318.769



31, 11.139, 0.819



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, 45.119, 11.365



38, 63.400, 18.622



34, 44.146, 42.699



26, 3.242, 359.057



26, 53.520, 22.177



0, 0.762, 358.285

Inverse Universe

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



31, 45.119, 11.365



38, 63.400, 18.622



44, 24.646, 229.905



26, 3.242, 359.057



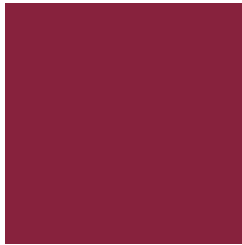
26, 53.520, 22.177



0, 0.762, 358.285

Previews

White Background



This preview shows how the CIELCh color 31, 45.121, 11.363 looks on a white background.

Color Contrast Check

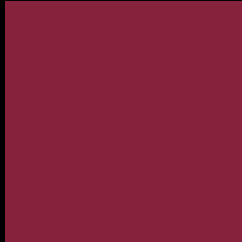
Large Text (above 18pt) WCAG AA ✓ Pass

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, 45.121, 11.363 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

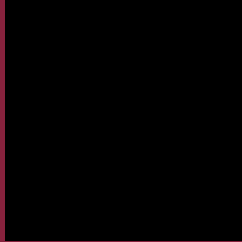
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 31, 45.121, 11.363

Background



This preview shows how black text looks on a background with the CIELCh color 31, 45.121, 11.363.



This preview shows how white text looks on a background with the CIELCh color 31, 45.121, 11.363.

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, 45.121, 11.363

Protanopia

32, 4.446, 290.983

Deuteranopia

31, 12.348, 69.668



Tritanopia
31, 46.092, 28.577

Trichromacy



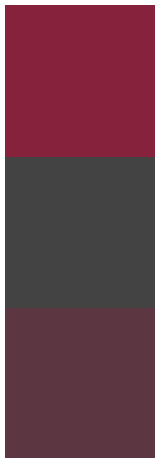
Original Color
31, 45.121, 11.363

Protanomaly
30, 18.193, 353.889

Deuteranomaly
30, 22.637, 23.654

Tritanomaly
31, 45.195, 22.525

Monochromacy



Original Color
31, 45.121, 11.363

Achromatopsia
28, 0.004, 296.813

Achromatomaly
28, 18.047, 2.503

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 45.121, 11.363 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, 34, 61)` looks like.

```
.text, #text, p{  
    color:rgb(135, 34, 61)  
}
```

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, 34, 61) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 34, 61) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 45.121, 11.363 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, 34, 61) }
```

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

```
.border{ border-color:rgb(135, 34, 61) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 34, 61)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 34, 61); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 34, 61);  
box-shadow:4px 4px 4px 4px rgb(135, 34,  
61) }
```

Background

The CSS property to change the background color of an element to CIELCh 31, 45.121, 11.363 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 34, 61) }
```

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

```
.background{ background-color: rgb(135, 34,  
61) }
```

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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